



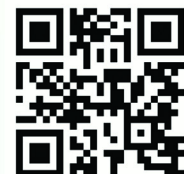
# K.L.N. College of Engineering

Department of Electrical and Electronics Engineering

(Accredited by NBA, New Delhi | Affiliated to Annauniversity, Chennai)

**CO, PO, PSO ATTAINMENT**

● **2014 - 2018 BATCH**



<http://www.klnce.edu/Departments/UG/Eee.aspx>



# **K.L.N. COLLEGE OF ENGINEERING**

**Sivagangai Dt., (11 km from Madurai City)**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

(Accredited by NBA, New Delhi | Affiliated to Anna University, Chennai)

**CO, PO, PSO Attainment**

**Book 2014 – 2018 BATCH**

**Prepared By: Program Assessment Committee**

**Dr.S.M.Kannan  
HOD/EEE**

**K.L.N. COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**VISION AND MISSION OF THE INSTITUTE**

**VISION:**

To become a Premier Institute of National Repute by Providing Quality Education, Successful Graduation, Potential Employability and Advanced Research & Development through Academic Excellence.

**MISSION:**

To Develop and Make Students Competent Professional in the Dynamic Environment in the field of Engineering, Technology and Management by emphasizing Research, Social Concern and Ethical Values through Quality Education System.

**VISION AND MISSION OF THE DEPARTMENT**

**VISION:**

To become a high standard of excellence in Education, Training and Research in the field of Electrical & Electronics Engineering and allied applications.

**MISSION:**

To produce excellent, innovative and Nationalistic Engineers with Ethical Values and to advance in the field of Electrical & Electronics Engineering and allied areas.

## PROGRAM OUTCOMES (POs)

Electrical and Electronics Engineering Graduates will be able to:

**PO1: Engineering knowledge:**

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2: Problem analysis:**

Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3: Design/development of solutions:**

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4: Conduct investigations of complex problems:**

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5: Modern tool usage:**

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO6: The engineer and society:**

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7: Environment and sustainability:**

Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8: Ethics:**

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9: Individual and team work:**

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10: Communication:**

Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11: Project management and finance:**

Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12: Life-long learning:**

Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## PROGRAM SPECIFIC OUTCOMES (PSOs)

Electrical and Electronics Engineering Graduates will be able to:

**PSO1:**

Apply the fundamentals of mathematics, science and engineering knowledge to identify, formulate, design and investigate complex engineering problems of electric circuits, analog and digital electronic circuits, electrical machines and power systems.

**PSO2:**

Apply appropriate techniques and modern Engineering hardware and software tools in power systems to engage in life-long learning and to successfully adapt in multi-disciplinary environments.

**PSO3:**

Understand the impact of Professional Engineering solutions in societal and environmental context, commit to professional ethics and communicate effectively.

**K.L.N. COLLEGE OF ENGINEERING**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

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S.No	Course code	Course	Course Name	Page Number	
				CO	CO Calculation
<b>SEMESTER-I</b>					
1.	C101	HS6151	Technical English - I	8	68
2.	C102	MA6151	Mathematics - I	8	71
3.	C103	PH6151	Engineering Physics - I	8	74
4.	C104	CY6151	Engineering Chemistry - I	8	77
5.	C105	GE6151	Computer Programming	9	80
6.	C106	GE6152	Engineering Graphics	9	83
7.	C107	GE6161	Computer Practices Laboratory	9	86
8.	C108	GE6162	Engineering Practices Laboratory	9	89
9.	C109	GE6163	Physics and Chemistry Laboratory - I	10	92
<b>SEMESTER-II</b>					
1	C110	HS6251	Technical English - II	10	95
2	C111	MA6251	Mathematics - II	10	98
3	C112	PH6251	Engineering Physics - II	10	101
4	C113	CY6251	Engineering Chemistry - II	11	104
5	C114	GE6251	Basic Civil and Mechanical Engineering	11	107
6	C115	EE6201	Circuit Theory	11	110
7	C116	GE6262	Physics and Chemistry Laboratory - II	11	113
8	C117	GE6263	Computer Programming Laboratory	12	116
9	C118	EE6211	Electric Circuits Laboratory	12	119
<b>SEMESTER-III</b>					
1	C201	MA6351	Transforms and Partial Differential Equations	12	122
2	C202	EE6301	Digital Logic Circuits	12	125
3	C203	EE6302	Electromagnetic Theory	12	129
4	C204	GE6351	Environmental Science and Engineering	13	132
5	C205	EC6202	Electronic Devices and Circuits	13	136
6	C206	EE6303	Linear Integrated Circuits and Applications	13	139
7	C207	EC6361	Electronics Laboratory	13	143
8	C208	EE6311	Linear and Digital Integrated Circuits Laboratory	14	147
<b>SEMESTER-IV</b>					
1	C209	MA6459	Numerical Methods	14	151
2	C210	EE6401	Electrical Machines - I	14	155
3	C211	CS6456	Object Oriented Programming	14	158
4	C212	EE6402	Transmission and Distribution	14	162
5	C213	EE6403	Discrete Time Systems and Signal Processing	15	165
6	C214	EE6404	Measurements and Instrumentation	15	169
7	C215	CS6461	Object Oriented Programming Laboratory	15	173
8	C216	EE6411	Electrical Machines Laboratory - I	15	177
<b>SEMESTER-V</b>					
1	C301	EE6501	Power System Analysis	16	181
2	C302	EE6502	Microprocessors and Microcontrollers	16	185
3	C303	ME6701	Power Plant Engineering	16	189
4	C304	EE6503	Power Electronics	17	193
5	C305	EE6504	Electrical Machines - II	17	197
6	C306	IC6501	Control Systems	17	201
7	C307	EE6511	Control and Instrumentation Laboratory	18	205
8	C308	GE6674	Communication and Soft Skills- Laboratory Based	18	209
9	C309	EE6512	Electrical Machines Laboratory - II	18	213

S.No	Course code	Course	Course Name	Page Number	
				CO	CO Calculation
<b>SEMESTER-VI</b>					
1	C310	EC6651	Communication Engineering	19	217
2	C311	EE6601	Solid State Drives	19	221
3	C312	EE6602	Embedded Systems	19	225
4	C313	EE6603	Power System Operation and Control	20	229
5	C314	EE6604	Design of Electrical Machines	20	233
6	C315E1	EE6002	Power System Transients	20	237
7	C316	EE6611	Power Electronics and Drives Laboratory	20	241
8	C317	EE6612	Microprocessors and Microcontrollers Laboratory	21	245
9	C318	EE6613	Presentation Skills and Technical Seminar	21	249
<b>SEMESTER-VII</b>					
1	C401	EE6701	High Voltage Engineering	21	253
2	C402	EE6702	Protection and Switchgear	21	257
3	C403	EE6703	Special Electrical Machines	22	261
4	C404	MG6851	Principles of Management	22	265
5	C405E2	EE6005	Power Quality	22	269
6	C406E3	EE6008	Microcontroller Based System Design	22	273
7	C407	EE6711	Power System Simulation Laboratory	23	277
8	C408	EE6712	Comprehension	23	281
<b>SEMESTER-VIII</b>					
1	C409	EE6801	Electric Energy Generation, Utilization and Conservation	23	285
2	C410E4	EE6009	Power Electronics for Renewable Energy Systems	23	289
3	C411E5	GE6757	Total Quality Management	24	293
4	C412	EE6811	Project Work	24	297

## Typical Calculation

For **First Year** Subjects, the following calculation is made:

### 1. Test (CIT's)

- a. Students Present = **X** No. of Students
- b. Target = **60** Marks
- c. Count "Students (**X**)  $\geq$  **60** Marks" = **Y** No. of Students
- d. Percentage (**P**) =  $[(Y/X) * 100]$ %
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)

### 2. Assignment (A)

- a. Students Present = **X** No. of Students
- b. Target = **80** Marks
- c. Count "Students (**X**)  $\geq$  **80** Marks" = **Y** No. of Students
- d. Percentage (**P**) =  $[(Y/X) * 100]$ %
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)

### 3. Anna University Examination (AU)

- a. Students Present = **X** No. of Students
- b. Target = **70** Marks (or **C** Grade)
- c. Count "Students (**X**)  $\geq$  **C** Grade" = **Y** No. of Students
- d. Percentage (**P**) =  $[(Y/X) * 100]$ %
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)

### 4. Attainment Calculation

Internal Test (IT)	Assignment(A)	Formula for Internal Assessment (IA)	Direct Attainment
✓		IA = IT	DA = 0.6*AU + 0.4*IA
✓	✓	IA = 0.7XIT + 0.3XA	

For **Second & Third Year** Subjects, the following calculation is made:

### 1. Test (CIT's)

- a. Students Present = **X** No. of Students
- b. Target = **60** Marks
- c. Count "Students (**X**)  $\geq$  **60** Marks" = **Y** No. of Students
- d. Percentage (**P**) =  $[(Y/X) * 100]$ %
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)



## 2. Assignment (A)

- a. Students Present = **X** No. of Students
- b. Target = **80** Marks
- c. Count “Students (**X**)  $\geq$  **80** Marks” = **Y** No. of Students
- d. Percentage (**P**) = [ (**Y/X**) \* **100** ]%
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)

## 3. Anna University Examination (AU)

- a. Students Present = **X** No. of Students
- b. Target = **70** Marks (or **C** Grade)
- c. Count “Students (**X**)  $\geq$  **C** Grade” = **Y** No. of Students
- d. Percentage (**P**) = [ (**Y/X**) \* **100** ]%
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)

## 4. Survey (S)

- a. If **S**  $\geq$  80%, Level Obtained = 3 (High)
- b. If **S**  $\geq$  70%, Level Obtained = 2 (Medium)
- c. If **S**  $\geq$  60%, Level Obtained = 1 (Low)

## 5. Attainment Calculation

Internal Test (IT)	Assignment(A)	Formula for Internal Assessment (IA)	Direct Attainment	Overall Attainment
✓		IA = IT	DA = 0.6*AU + 0.4*IA	CO=0.8*DA + 0.2*S
✓	✓	IA = 0.7XIT + 0.3XA		

For **Final Year** Subjects, the following calculation is made:

### 1. Test (CIT's)

- a. Students Present = **X** No. of Students
- b. Target = **60** Marks
- c. Count “Students (**X**)  $\geq$  **60** Marks” = **Y** No. of Students
- d. Percentage (**P**) = [ (**Y/X**) \* **100** ]%
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)

### 2. Assignment (A)

- a. Students Present = **X** No. of Students
- b. Target = **80** Marks
- c. Count “Students (**X**)  $\geq$  **80** Marks” = **Y** No. of Students
- d. Percentage (**P**) = [ (**Y/X**) \* **100** ]%
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)

### 3. Anna University Examination (AU)

- a. Students Present = **X** No. of Students
- b. Target = **70** Marks (or **C** Grade)
- c. Count “Students (**X**)  $\geq$  **C** Grade” = **Y** No. of Students
- d. Percentage (**P**) = [ (**Y/X**) \* **100** ]%
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)

### 4. Survey (S)

- a. If **S**  $\geq$  80%, Level Obtained = 3 (High)
- b. If **S**  $\geq$  70%, Level Obtained = 2 (Medium)
- c. If **S**  $\geq$  60%, Level Obtained = 1 (Low)

### 5. Seminar, Quiz and Tutorial

- a. Students Present = **X** No. of Students
- b. Target = **65** Marks (or **C** Grade)
- c. Count “Students (**X**)  $\geq$  **65** Marks” = **Y** No. of Students
- d. Percentage (**P**) = [ (**Y/X**) \* **100** ]%
  - i. If **P**  $\geq$  80%, Level Obtained = 3 (High)
  - ii. If **P**  $\geq$  70%, Level Obtained = 2 (Medium)
  - iii. If **P**  $\geq$  60%, Level Obtained = 1 (Low)

### 6. Attainment Calculation

Internal Test (IT)	Assignment(A)	Tutorial(T)	Seminar(S)/ Quiz(Q)	Others (O)	Formula for Internal Assessment (IA)
✓					IA = IT
✓				✓	IA = 0.8XIT + 0.2XO
✓			✓		IA = 0.8XIT + 0.2XS/Q
✓			✓	✓	IA = 0.7XIT + 0.2XS/Q + 0.1XO
✓		✓			IA = 0.7XIT + 0.3XT
✓		✓		✓	IA = 0.7XIT + 0.2XT + 0.1XO
✓		✓	✓		IA = 0.7XIT + 0.2XT + 0.1XS/Q
✓		✓	✓	✓	IA = 0.6XIT + 0.2XT + 0.1XS/Q + 0.1XO
✓	✓				IA = 0.7XIT + 0.3XA
✓	✓			✓	IA = 0.7XIT + 0.2XA + 0.1XO
✓	✓		✓		IA = 0.7XIT + 0.2XA + 0.1XS/Q
✓	✓		✓	✓	IA = 0.6XIT + 0.2XA + 0.1XS/Q + 0.1XO
✓	✓	✓			IA = 0.6XIT + 0.2XA + 0.2XT
✓	✓	✓		✓	IA = 0.6XIT + 0.1XA + 0.2XT + 0.1XO
✓	✓	✓	✓		IA = 0.6XIT + 0.1XA + 0.2XT + 0.1XS/Q
✓	✓	✓	✓	✓	IA = 0.6XIT + 0.1XA + 0.1XT + 0.1XS/Q + 0.1XO

**K.L.N. COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**REGULATION: 2013-Chennai**  
**Batch- 2014-2018**  
**B.E-EEE- I to VIII SEMESTER CURRICULUM**

S.No	Course code	Course	Course Name	L	T	P	C
<b>SEMESTER-I</b>							
1.	C101	HS6151	Technical English - I	3	1	0	4
2.	C102	MA6151	Mathematics - I	3	1	0	4
3.	C103	PH6151	Engineering Physics - I	3	0	0	3
4.	C104	CY6151	Engineering Chemistry - I	3	0	0	3
5.	C105	GE6151	Computer Programming	3	0	0	3
6.	C106	GE6152	Engineering Graphics	2	0	3	4
7.	C107	GE6161	Computer Practices Laboratory	0	0	3	2
8.	C108	GE6162	Engineering Practices Laboratory	0	0	3	2
9.	C109	GE6163	Physics and Chemistry Laboratory - I	0	0	2	1
<b>SEMESTER-II</b>							
1.	C110	HS6251	Technical English - II	3	1	0	4
2.	C111	MA6251	Mathematics - II	3	1	0	4
3.	C112	PH6251	Engineering Physics - II	3	0	0	3
4.	C113	CY6251	Engineering Chemistry - II	3	0	0	3
5.	C114	GE6251	Basic Civil and Mechanical Engineering	4	0	0	4
6.	C115	EE6201	Circuit Theory	3	1	0	4
7.	C116	GE6262	Physics and Chemistry Laboratory - II	0	0	2	1
8.	C117	GE6263	Computer Programming Laboratory	0	1	2	2
9.	C118	EE6211	Electric Circuits Laboratory	0	0	3	2
<b>SEMESTER-III</b>							
1.	C201	MA6351	Transforms and Partial Differential Equations	3	1	0	4
2.	C202	EE6301	Digital Logic Circuits	3	1	0	4
3.	C203	EE6302	Electromagnetic Theory	3	1	0	4
4.	C204	GE6351	Environmental Science and Engineering	3	0	0	3
5.	C205	EC6202	Electronic Devices and Circuits	3	1	0	4
6.	C206	EE6303	Linear Integrated Circuits and Applications	3	0	0	3
7.	C207	EC6361	Electronics Laboratory	0	0	3	2
8.	C208	EE6311	Linear and Digital Integrated Circuits Laboratory	0	0	3	2
<b>SEMESTER-IV</b>							
1.	C209	MA6459	Numerical Methods	3	1	0	4
2.	C210	EE6401	Electrical Machines - I	3	1	0	4
3.	C211	CS6456	Object Oriented Programming	3	0	0	3
4.	C212	EE6402	Transmission and Distribution	3	0	0	3
5.	C213	EE6403	Discrete Time Systems and Signal Processing	3	0	0	3
6.	C214	EE6404	Measurements and Instrumentation	3	0	0	3
7.	C215	CS6461	Object Oriented Programming Laboratory	0	0	3	2
8.	C216	EE6411	Electrical Machines Laboratory - I	0	0	3	2

S.No	Course code	Course	Course Name	L	T	P	C
<b>SEMESTER-V</b>							
1.	C301	EE6501	Power System Analysis	3	0	0	3
2.	C302	EE6502	Microprocessors and Microcontrollers	3	0	0	3
3.	C303	ME6701	Power Plant Engineering	3	0	0	3
4.	C304	EE6503	Power Electronics	3	0	0	3
5.	C305	EE6504	Electrical Machines - II	3	1	0	4
6.	C306	IC6501	Control Systems	3	1	0	4
7.	C307	EE6511	Control and Instrumentation Laboratory	0	0	3	2
8.	C308	GE6674	Communication and Soft Skills- Laboratory Based	0	0	4	2
9.	C309	EE6512	Electrical Machines Laboratory - II	0	0	3	2
<b>SEMESTER-VI</b>							
1.	C310	EC6651	Communication Engineering	3	0	0	3
2.	C311	EE6601	Solid State Drives	3	0	0	3
3.	C312	EE6602	Embedded Systems	3	0	0	3
4.	C313	EE6603	Power System Operation and Control	3	0	0	3
5.	C314	EE6604	Design of Electrical Machines	3	1	0	4
6.	C315E1	EE6002	Power System Transients	3	0	0	3
7.	C316	EE6611	Power Electronics and Drives Laboratory	0	0	3	2
8.	C317	EE6612	Microprocessors and Microcontrollers Laboratory	0	0	3	2
9.	C318	EE6613	Presentation Skills and Technical Seminar	0	0	2	1
<b>SEMESTER-VII</b>							
1.	C401	EE6701	High Voltage Engineering	3	0	0	3
2.	C402	EE6702	Protection and Switchgear	3	0	0	3
3.	C403	EE6703	Special Electrical Machines	3	0	0	3
4.	C404	MG6851	Principles of Management	3	0	0	3
5.	C405E2	EE6005	Power Quality	3	0	0	3
6.	C406E3	EE6008	Microcontroller Based System Design	3	0	0	3
7.	C407	EE6711	Power System Simulation Laboratory	0	0	3	2
8.	C408	EE6712	Comprehension	0	0	2	1
<b>SEMESTER-VIII</b>							
1.	C409	EE6801	Electric Energy Generation, Utilization and Conservation	3	0	0	3
2.	C410E4	EE6009	Power Electronics for Renewable Energy Systems	3	0	0	3
3.	C411E5	GE6757	Total Quality Management	3	0	0	3
4.	C412	EE6811	Project Work	0	0	12	6

**K.L.N. COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**REGULATION – 2013**

**B.E. ELECTRICAL AND ELECTRONICS ENGINEERING**

**COURSE OUTCOMES (CO)**

**HS6151-Technical English-I [C101]**

<b>C101.1</b>	Apply the collaborative and social aspects of research and writing processes.
<b>C101.2</b>	Comprehend that research and writing is a series of tasks, including accessing, retrieving, evaluating, analyzing and synthesizing appropriate data and information from sources that vary in content, format, structure and scope.
<b>C101.3</b>	Use appropriate technologies to organize, present and communicate information to address a range of audiences, purposes and genres.
<b>C101.4</b>	Explain the relationships among language, knowledge and power including social, cultural, historical and economic issues related to information, writing and technology.
<b>C101.5</b>	Demonstrate the role of a variety of technologies/ media in accessing, retrieving, managing and communicating information.

**MA6151-Mathematics-I [C102]**

<b>C102.1</b>	Find the eigen values and eigen vectors to diagonalise and reduce a matrix to quadratic form
<b>C102.2</b>	Check the converges, diverges of infinite series
<b>C102.3</b>	Obtain the evaluate and envelopes of a given curves by means of radius and centre of curvature
<b>C102.4</b>	Calculate the maxima and minima value functions of two variables
<b>C102.5</b>	Find the area of plain curves and volume of solid using double and triple integrals

**PH6151-Engineering Physics-I [C103]**

<b>C103.1</b>	Classify the Bravais lattices and different types of crystal structures and growth technique.
<b>C103.2</b>	Demonstrate the properties of elasticity and heat transfer through objects.
<b>C103.3</b>	Explain black body radiation, properties of matter waves and Schrodinger wave equations.
<b>C103.4</b>	Illustrate the acoustic requirements, production and application of ultrasonics.
<b>C103.5</b>	Examine the characteristics of laser and optical fiber.

**CY6151 -Engineering Chemistry – I (C104)**

C104.1	Classify the polymers and their utility in the industries and describe the techniques of polymerization & properties of polymers.
C104.2	Relate various thermodynamic functions such as enthalpy, entropy, free energy and their importance and equilibrium constant and its significance.
C104.3	Characterize the photophysical processes such as fluorescence and phosphorescence and various components of UV & IR spectrophotometer.
C104.4	Analyze the phase transitions of one component and two component systems and the types of alloys and their application in industries.
C104.5	Describe the synthesis, characteristics and the applications of nano materials.

**GE6151-Computer Programming-[C105]**

C105.1	Explain the basic organization of computers, the number systems and write the pseudo code for algorithms and flow chart.
C105.2	Develop 'C' programming fundamentals, looping statements and solve problems.
C105.3	Design 'C' programs for arrays and strings.
C105.4	Use functions with pass by value and reference, pointers in programs.
C105.5	Develop codings in 'C' for structures and unions with storage classes and preprocessor.

**GE6152- Engineering Graphics [C106]**

C106.1	Construct the conic sections and special curves and outline their practical applications and sketch the orthographic views from pictorial views and models
C106.2	Apply the principles of orthographic projections of points in all quadrants, lines and planes in first quadrant.
C106.3	Draw the projections of simple solids like prisms, pyramids, cylinder and cone and obtain the traces of plane figures
C106.4	Design the sectional views of solids like cube, prisms, pyramids, cylinders & cones and Development of its lateral surfaces
C106.5	Apply the principles of isometric projection and perspective projection of simple solids and truncated prisms, pyramids, cone and cylinders

**GE6161 – Computer Practices Laboratory – (C107)**

C107.1	Prepare data using MS-word & Excel to visualize graphs, charts in MS-Excel.
C107.2	Outline the given problem using flowchart and to program using Switch case & Control structures.
C107.3	Develop the code using decision making & looping statements.
C107.4	Apply passing parameters using Arrays & Functions.
C107.5	Use structure and Union for a given database and to bring out the importance of Unions over structure.

**GE6162 – Engineering Practices Laboratory -- (C108)**

C108.1	Demonstrate wiring for a simple residential house, identify the ratings of various appliances like Fluorescent tube, incandescent lamp, etc.
C108.2	Calculate the different Electrical quantities, measure the energy consumption using single phase energy meter.
C108.3	Measure the resistance to earth of an electrical equipment, analyze AC signal parameters using CRO.
C108.4	Verify the Truth tables of Logic gates AND, OR, EOR and NOT, generate clock signal using suitable gates.
C108.5	Develop soldering in a PCB, measure ripple factor of Half Wave Rectifier and Full Wave Rectifier.

**GE6163 - Physics and Chemistry Laboratory – I (C109)**

C109.1	Evaluate the wavelength of spectral lines using spectrometer, the wavelength of laser, particle size, acceptance angle of an optical fiber using semiconductor diode laser and the thickness of a thin wire through interference fringes using Air wedge apparatus.
C109.2	Appraise the velocity of sound and compressibility of the liquid using ultrasonic interferometer and thermal conductivity for bad conductors using Lee's disc apparatus.
C109.3	Determine the DO content in water sample by winkler's method and molecular weight of polymer by Ostwald viscometer.
C109.4	Find the strength of an acid using pH meter and conductometer.
C109.5	Estimate the amount of weak and strong acids in a mixture by conductometer.

**HS6251-Technical English-II [C110]**

C110.1	speak clearly, confidently, comprehensibly, and communicate with one or many listeners using appropriate communicative strategies
C110.2	Write cohesively and coherently and flawlessly avoiding grammatical errors, using a wide vocabulary range, organizing their ideas logically on a topic.
C110.3	Read different genres of texts adopting various reading strategies.
C110.4	listen/view and comprehend different spoken discourses/excerpts in different accents
C110.5	Recognize, understand, and analyze the context within which language, information, and knowledge are produced, managed, organized, and disseminated.

**MA6251-Mathematics-II - [C111]**

C111.1	Find solenoidal, irrotational vectors and explain the concepts of Green's, Gauss divergence, Stokes theorem to evaluate, single double and triple integrals
C111.2	Obtain the P.I. of Cauchy and Legendre Equation, explain the method of variation of parameters and solve simultaneous linear equations
C111.3	evaluate Laplace Transforms of periodic functions and solve the ODE using Inverse Laplace Transform
C111.4	Recall the properties of analytic functions for verifying C-R equations and determine Bilinear Transformation
C111.5	Expand functions of two variables as Taylor's and Laurent's series and evaluate Contour integrals using Cauchy's Integral formula

**PH6251 – Engineering Physics–II – [C112]**

C112.1	Illustrate classical and quantum free electron theory and calculate carrier concentration in metals.
C112.2	Describe the carrier concentration in semi conductors and identify the p-type and n-type semi conductor using hall effect.
C112.3	Classify the different types of magnetic and super conducting materials.
C112.4	Explain the dielectrics, types of polarization, losses and breakdown.
C112.5	Discuss the properties, preparation and applications of metallic alloys, SMA, nano materials, NLO, Bio-materials.

**CY6251 – Engineering Chemistry –II – [C113]**

C113.1	Explain the problems of using hard water in boilers and the methods of treatment of water for boiler use.
C113.2	Design the electrochemical cells and to identify the types of corrosion and the methods of preventing.
C113.3	Illustrate the methods of harnessing energy from non-conventional energy sources.
C113.4	Classify various engineering materials and their importance.
C113.5	Relate the significance of solid, liquid and gaseous fuels and to calculate the calorific values of fuels and the requirement of air for combustion in furnaces.

**GE6251- Basic Civil and Mechanical Engineering - [C114]**

C114.1	Explain the working principles of various power plants and differentiate the pumps and turbines.
C114.2	State the functions of IC engine and classify the various types of boilers.
C114.3	Apply the principles of vapour absorption and compression systems and Explain the Operation of air conditioner.
C114.4	Apply the principles of surveying and use various measurements for surveying and study about various engineering materials and leveling instruments.
C114.5	Classify the types of bridges, foundation, floorings, roofs, plasters and R.C.C structural members and state the purpose of dam.

**EE 6201 – Circuit Theory – (C115)**

C115.1	Apply Kirchoff's current and voltage law to simple circuits and Solve complex circuits using Mesh & Nodal Methods.
C115.2	Apply Network theorems to solve simple and complex linear circuits.
C115.3	Solve the Series and Parallel resonance circuit, analyze the performance of single & double tuned circuits.
C115.4	Develop the Transient response of RLC circuits using Laplace Transform, explain the characteristics of two port networks.
C115.5	Explain three phase balanced and unbalanced star, delta network.

**GE6262 - Physics and Chemistry Laboratory – II-[C116]**

C116.1	Appraise the Young's modulus of the beam by uniform and non uniform bending method, the moment of inertia and Rigidity Modulus for thin wire using Torsion Pendulum.
C116.2	Use Poiseuille's method for determining the coefficient of viscosity of the liquid.
C116.3	Evaluate the refractive index of spectral lines for determining the dispersive power of a prism.
C116.4	Determine the type, amount of alkalinity, hardness in a given water sample and evaluate the amount of copper using EDTA method
C116.5	Examine the potentiometric redox titration and Conductometric precipitation titration.



**GE6263-Computer Programming Laboratory-[C117]**

C117.1	Explain UNIX Operating system and usage of file system.
C117.2	Apply Shell Commands for a given task using filter and pipe commands.
C117.3	Develop and implement the Shell scripts in VI editor.
C117.4	Develop C Program on Unix environment.
C117.5	Apply File handling in C to copy, merge and display the given file.

**EE 6211 – Electric Circuits Laboratory – (C118)**

C118.1	Apply KCL, KVL and Network Theorems to Simple and Complex circuits.
C118.2	Demonstrate the working of CRO and Determine the Time Constant of RC circuit.
C118.3	Determine frequency response of RLC circuits and Use MATLAB to simulate series, parallel resonant circuit, low pass, high pass filter.
C118.4	Use MATLAB to simulate three phase balanced, unbalanced circuit and Measure power in three phase circuits by two wattmeter methods.
C118.5	Determine h-parameters of Two port networks and Calibrate single phase energy meter

**MA6351- Transforms and Partial Differential Equations[C201]**

C201.1	Solve First, Second order homogeneous and non homogeneous partial differential equations
C201.2	Find the Fourier series of a given function satisfying Dirichlet's condition.
C201.3	Apply Fourier series to solve one dimensional wave, one and two dimensional heat equations.
C201.4	Determine Fourier transform for a given function and use them to evaluate certain definite Integrals
C201.5	Determine z transforms of standard functions and use them to solve difference equations

**EE6301-Digital Logic Circuits-[C202]**

C202.1	List the various types of number system and compare the digital logic families.
C202.2	Apply K –Map for simplification and implementation of combinational logic circuit.
C202.3	Explain the synchronous Sequential logic circuits and draw the block diagram of Shift Registers.
C202.4	Design asynchronous sequential circuits and describe the operation of Programmable Logic Devices.
C202.5	Develop the VHDL coding for combinational and Sequential logic circuits.

**EE6302-Electromagnetic Theory – (C203)**

C203.1	Explain the different coordinate systems, and apply Gauss's law
C203.2	Interpret the concepts of Electrostatic fields and apply boundary conditions on Electrostatic field
C203.3	Develop concepts of Magnetostatic fields and apply boundary conditions.
C203.4	Analyze the Maxwell's equations for electromagnetic fields
C203.5	Derive Electromagnetic wave equation and apply the Poynting expression.

**GE6351 – Environmental Science and Engineering (C204)**

C204.1	Define Environment, ecosystem and biodiversity, classify types of ecosystems and outline the impacts to biodiversity.
C204.2	Define pollution, classify its types, analyze the causes and suggest control measures for pollution.
C204.3	Outline various natural resources; explain causes and impacts of destruction of resources.
C204.4	List various social issues related to land, water and energy; summarize the concerning government acts and rules to overcome these problems.
C204.5	Interpret population explosion and variation among nations, show the impacts of over population and illustrate the methods to mitigate the same.

**EC6202 - Electronic Devices and Circuits – [C205]**

C205.1	Draw the characteristics of various types of Diodes, design half and full wave Rectifiers.
C205.2	Compare the different configurations of BJT, draw its characteristics.
C205.3	Calculate the FET parameters, draw its frequency response characteristics.
C205.4	Design Amplifier circuits and draw frequency response characteristics.
C205.5	Develop the parameters of feedback amplifier circuit, describe different types of oscillator circuits.

**EE 6303 – Linear Integrated Circuits & Applications– (C206)**

C206.1	Explain the procedure for the fabrication of IC
C206.2	Summarize the DC & AC characteristics of Operational amplifier.
C206.3	Discuss the applications of Operational amplifier
C206.4	Describe the internal functional blocks of special ICs like Timer and PLL.
C206.5	Classify types of voltage regulators and describe the special ICs.

**EC6361 - Electronics Laboratory – [C207]**

C207.1	Find the breakdown voltage of Diode, draw the V-I characteristics of BJT.
C207.2	Draw the equivalent circuit of JFET and develop the saw tooth waveform generation using UJT
C207.3	Design the Common Emitter amplifier and draw the V-I characteristics of photo diode & photo transistor
C207.4	Compare the theoretical and practical frequency value of oscillators and measure the ripple factor of rectifier
C207.5	Show the frequency response of filters, design the multivibrators

**EE 6311 – Linear and Digital Integrated Circuits Laboratory– (C208)**

C208.1	Apply Boolean functions to implement adder, subtractor circuits and convert Excess 3 to BCD, Binary to Gray code and vice versa
C208.2	Test Parity generator and checker and Design encoder decoder circuits
C208.3	Demonstrate 4 bit synchronous, asynchronous counter and Shift registers.
C208.4	Illustrate multiplexer demultiplexer circuit and apply 555 timer in Monostable and Astable operation.
C208.5	Apply OP-AMP to construct Adder, comparator, differentiator, Integrator and describe VCO, PLL characteristics.

**MA6459-Numerical Methods-[C209]**

C209.1	Determine the solution of algebraic and transcendental system of linear equations
C209.2	To interpolate the values of unknown functions using Newton's Formula
C209.3	Estimate the numerical values of the derivatives and integrals of unknown function
C209.4	Solve first and second order initial value problem
C209.5	Solve Numerically boundary value problem

**EE6401-Electrical Machines-I- [C210]**

C210.1	Describe the coupled coil calculate the self and mutually induced emf
C210.2	Analyze the operation of transformer in different loading condition
C210.3	Explain the concept of field energy and co-energy in single and multiple excited systems
C210.4	Demonstrate the construction of D.C machines and operation of DC Generator
C210.5	Derive the performance equation of D.C motor under various load condition and analyze the braking system

**CS6456-Object Oriented Programming-[C211]**

C211.1	Explain the key attributes of C++ like native types and statements and implement ADT.
C211.2	Develop object oriented programs using polymorphism and data abstraction concepts.
C211.3	Design templates, construct generics and to handle exceptions.
C211.4	Develop the concept of java in creating classes, objects using arrays and control statements.
C211.5	Create packages, handle exceptions and develop multi-threaded programs.

**EE 6402 – Transmission and Distribution – (C212)**

C212.1	Identify the basic elements of the electric power system, generation, transmission, distribution and describe the role played by each element.
C212.2	Compute the losses, efficiency and parameters of the Transmission line.
C212.3	Analyze the Performance of Transmission Lines.
C212.4	Solve the voltage distribution in insulator strings, cables and methods to improve the same.
C212.5	Design overhead lines both Mechanical and electrical aspects using Sag calculation.

**EE6403-Discrete Time Systems and Signal Processing-[C213]**

C213.1	Classify the different types of signals and systems and Explain the sampling process of continuous time signal.
C213.2	Apply z-transform and inverse Z transform and analyze discrete time systems.
C213.3	Apply Radix-2 Decimation in Time (DIT) and Decimation in Frequency (DIF)FFT Algorithm to Compute Discrete Fourier Transform.
C213.4	Explain different types of Infinite Impulse Response (IIR) filters and Finite Impulse Response (FIR) filters.
C213.5	Explain various architectures of Digital signal processors.

**EE6404– Measurements and Instrumentation-(C214)**

C214.1	Describe the basic functional block elements in Different measuring Instruments and the errors in the measurement system.
C214.2	Select the suitable instrument for measuring different electrical and magnetic parameters.
C214.3	Design a suitable Bridge circuit to determine the values of various resistor, inductor and capacitor.
C214.4	Explain the construction and working principle of various types of storage and display devices and compare them.
C214.5	Compare the various types of transducers and explain the function of different blocks involved in data acquisition systems.

**CS 6461- Object Oriented programming Laboratory-[C215]**

C215.1	Design C++ programs using functions, classes with objects, member functions and constructors.
C215.2	Develop operator and function overloading and run time polymorphism using C++.
C215.3	Develop file handling techniques in C++ for sequential and random access also use Java code for strings.
C215.4	Construct packages and interfaces in Java.
C215.5	Create threads in Java and handle predefined and user defined exceptions.

**EE6411-Electrical Machines Laboratory-I- [C216]**

C216.1	Analyze the characteristics of DC shunt generator DC compound generator and calculate critical resistance and critical speed
C216.2	Examine load characteristics of DC shunt, series and compound motor and identify its maximum efficiency operating point
C216.3	Predict the efficiency of DC shunt machine in different methods
C216.4	Explain the load characteristics of single phase and three phase transformer , separate the different losses and to find the efficiency
C216.5	Predetermine the equivalent circuit parameters of single phase transformer in two different methods and compare the results

### EE 6501 – Power System Analysis-[C301]

C301.1	Explain the operation of various power system components, Draw the per unit diagram and form the Y-bus matrix for the power system.
C301.2	Develop the power flow equation for power system problems and Determine the line flows using G-S, N-R and F-D method
C301.3	Illustrate the types of faults and their effects, Calculate the fault currents for symmetrical fault condition.
C301.4	Draw the sequence network for L-G, L-L and L-L-G fault of the power system and Determine the fault current incase of L-G, L-L and D-L-G fault
C301.5	Explain the concept of power system stability, Analyze the stability of single machine infinite bus system.

### EE 6502 – Microprocessors and Microcontrollers – (C302)

C302.1	Describe the basic Architecture of 8085 Microprocessor and working of all blocks of the processor, IO and memory interfacing with necessary timing diagrams.
C302.2	Classify the instructions with the help of Addressing modes of 8085 with necessary programs.
C302.3	Explain the basic Architecture of 8051 Microcontroller with working of various blocks of the controller like Interrupts, Timer, IO ports etc. with necessary timing diagram and compare the programming concepts with 8085.
C302.4	Analyze the architecture of various Interfacing Devices like 8255 PPI, 8259 PIC, 8251 USART, 8279, 8253, ADC and DAC and Programming of all the Interfacing IC's.
C302.5	Apply the knowledge of programming concepts of 8051 Microcontroller for various applications like keyboard display interface, servo motor etc

### ME 6701 – Power Plant Engineering – (C303)

C303.1	Draw the layout of modern coal power plant and list the various components used in thermal power plant.
C303.2	Identify the components of diesel and gas turbine power plants and construct the integrated gasifier based combined cycle systems.
C303.3	Describe the layout of subsystems of various nuclear power plants and express safety measures for nuclear power plants.
C303.4	Distinguish different hydroelectric power plants and construct various renewable energy power plants such as wind, tidal, PV, solar, thermal, geo thermal, biogas and fuel cell.
C303.5	Calculate the per unit cost of electrical energy based on Power tariff, load factor, demand factor, diversity factor and plant safety factor.

**EE6503 - Power Electronics - [C304]**

C304.1	Explain the significance of switching devices and its application to power converters and demonstrate the triggering circuit and snubber circuits.
C304.2	Compare the operation of two, three Pulse Converters and draw output waveforms with and without source and load inductance.
C304.3	Classify the operation of Choppers and outline the application of SMPS.
C304.4	Analyze the operation of single phase and three phase Inverters with and without PWM techniques.
C304.5	Illustrate the operation of AC voltage controller and cycloconverter and its application.

**EE6504-Electrical Machines-II-[C305]**

C305.1	Draw the constructional details and explain the performance of salient and non – salient type synchronous generators.
C305.2	Draw and explain the Principle of operation and performance of synchronous motor.
C305.3	Draw and describe the construction, principle of operation and performance of induction machines.
C305.4	Describe the starting and speed control of three-phase induction motors.
C305.5	Explain the construction, principle of operation and performance of single phase induction motors and special machines.

**IC6501- Control systems – (C306)**

C306.1	Discuss the use of transfer function models for analysis of physical systems and the control system components.
C306.2	Analyze the time response of systems and steady state error.
C306.3	Use the basic knowledge in obtaining the open loop and closed-loop frequency responses of systems.
C306.4	Explain the stability analysis and types of compensators.
C306.5	Describe the state variable representation of physical systems and the effect of state feedback.

**EE6511- Control and Instrumentation Laboratory – (C307)**

C307.1	Determine the characteristics of P, PI and PID controllers experimentally and analyze the stability of the control system by (i) Bode plot (ii) Root Locus Plot and (iii) Nyquist plot using MATLAB.
C307.2	Compute the transfer function of a Field controlled DC motor experimentally and Design the Lag, Lead and Lag-Lead Compensators for the given specifications and hook up it using RC networks.
C307.3	Draw the transient response of Position Control system experimentally, Determine the Characteristics of Synchro-Transmitter- Receiver and Use the MATLAB for the Simulation of Control Systems.
C307.4	Calculate the unknown Capacitance, Inductance and Resistance using AC and DC Bridges experimentally and Analyze the Dynamics of Sensors/Transducers (a) Temperature (b) Pressure (c) Displacement (d) Optical (e) Strain and (f) Flow.
C307.5	Measure the Power and Energy experimentally; Analyze the Signal Conditioning units (a) Instrumentation Amplifier (b) ADC and DACs and Use the MATLAB for Process Simulation.

**GE6563- Communication Skills – Laboratory based – (C308)**

C308.1	Apply appropriate communication skills across settings, purposes and audiences.
C308.2	Demonstrate knowledge of communication theory and applications.
C308.3	Practice critical thinking to develop innovative and well-founded perspectives related to the students emphasis. Build and maintain healthy and effective relationships.
C308.4	Use technology to communicate effectively in various settings and contexts.
C308.5	Demonstrate appropriate and professional ethical behavior.

**EE6512-Electrical Machines Laboratory-II - [C309]**

C309.1	Determine the voltage regulation of three phase alternator in different methods and compare the results
C309.2	Determine the voltage regulation of salient pole synchronous machine and find negative & zero sequence components
C309.3	Explain the V and inverted V characteristics of three phase synchronous machine at different load condition
C309.4	Determine and pre determine performance characteristics of three phase induction motor
C309.5	Determine and pre determine performance characteristics of single phase induction motor

### **EC6651-Communication Engineering - (C310)**

C310.1	Explain the operation of Amplitude Modulation , draw the frequency spectrum and vector representation of AM
C310.2	Compare the different methods of QPSK, BFSK and GMSK
C310.3	Analyze how information is transmitted to receiver using the Huffman coding
C310.4	Discuss about the various types of multiple access techniques
C310.5	Distinguish between INTELSAT and INSAT

### **EE6601– Solid State Drives – (C311)**

C311.1	Classify the various types of drives and load torque characteristics and Apply the multi quadrant dynamics in hoist load system.
C311.2	Analyze the operation of steady state analysis of single phase and three phase fully controlled converter and Chopper fed separately excited dc motor drives and discuss the various control strategies of converter.
C311.3	Explain the operation and characteristics of various methods of solid state speed control of induction motor.
C311.4	Describe the operation of various modes of V/f control of synchronous motor drives and different types of permanent magnet synchronous motor drives.
C311.5	Design a current and speed controller and develop the transfer function for DC motor, load and converter, closed loop control with current and speed feedback.

### **EE 6602 – Embedded Systems – (C312)**

C312.1	Analyze the basic build process of embedded systems, structural units in embedded processor and selection of processor and memory devices depending upon the applications.
C312.2	Classify the types of I/O device ports and buses and different interfaces for data transfer.
C312.3	Model the Embedded Product Development Life Cycle (EDLC) by using different techniques like state machine model, sequential program model and concurrent model
C312.4	Analyze the basic concept of Real Time Operating Systems and plan to scheduling of different task and compare the features of different types of Real Time Operating Systems
C312.5	Apply the knowledge of programming concepts of Embedded Systems for various applications like Washing Machine automotive and Smart Card System applications



### **EE 6603 – Power System Operation and Control - (C313)**

C313.1	Analyze the various load characteristics with load curve and load duration curve.
C313.2	Describe modeling of power-frequency dynamics and design power-frequency controller
C313.3	Explain the modeling of reactive power-voltage interaction and the control actions
C313.4	Solve economic dispatch problems and unit commitment problems in power systems
C313.5	Explain the need of computer controls to energy management using SCADA

### **EE 6604 - Design of Electrical Machines [C314]**

C314.1	Compare Electrical Engineering materials; determine heat dissipation due to Conduction, convection and radiation.
C314.2	Calculate mmf for slots and teeths, apparent flux density, main dimensions and winding details of DC machines.
C314.3	Design core, yoke, winding and cooling system of transformers.
C314.4	Develop output equation of AC machines, design stator and rotor of induction machines.
C314.5	Design stator and rotor of synchronous machines analyze their thermal behavior, design field systems for turbo alternators.

### **EE6002-Power System Transients - (C315E3)**

C315E3.1	Explain the concept of transients and Compute the solution of transient current equation for RL and RLC system.
C315E3.2	Illustrate the importance of switching transients, Explain the concept of resistance switching, load switching and capacitance switching.
C315E3.3	Explain the concept of lightning mechanism, Describe the interaction between lightning and power system
C315E3.4	Apply the concept of reflection and refraction, Draw the Bewley Lattice diagram for different systems.
C315E3.5	Analyze the concept of short line (or) Kilometric fault and justify the EMTP for transient computation.

### **EE6611-Power Electronics and Drives Laboratory – (C316)**

C316.1	Draw the VI characteristics of SCR and generate the Gate Pulse using R, RC and UJT.
C316.2	Plot the characteristics of MOSFET and IGBT
C316.3	Simulate a single phase AC to DC half and fully controlled converter.
C316.4	Draw the output response of step up and step down MOSFET based chopper and simulate a single phase IGBT based PWM inverter.
C316.5	Plot the output response of AC voltage controller and simulate the Power Electronic Circuits.

### **EE 6612 – Microprocessors and Microcontrollers Laboratory – (C317)**

C317.1	Predict the smallest/ largest number from a given array and to Perform various mathematical operations using 8085 processor
C317.2	Convert the given analog input to digital value and to control the traffic signals using 8085 programming
C317.3	Develop coding to display the given word using keyboard and display controller and for serial communication
C317.4	Manipulate the basic operations involving jumps and loops using 8051 Microcontroller and to interface stepper motor and other devices
C317.5	Design circuits for implementing real time applications

### **EE 6613 – Presentation Skills and Technical Seminar – (C318)**

C318.1	Present seminar in the field of electrical and electronics engineering subjects studied.
C318.2	Solve objective type questions in the field of electrical and electronics engineering.
C318.3	Communicate effectively, the subjects learned in the form of seminar presentation.
C318.4	Communicate effectively, the modern trends in the field of electrical and electronics engineering.
C318.5	Answer effectively during technical interviews.

### **EE6701- High Voltage Engineering- (C401)**

C401.1	Identify the causes of over voltage and its effects in power system.
C401.2	Classify the breakdown Mechanisms in Solid, Liquid, gases and Composite dielectrics
C401.3	Design different type of Generating circuit for high voltage D.C and high voltage A.C
C401.4	Measure A.C and D.C high voltage and current using appropriate method
C401.5	Test the transformer ,insulator , circuit breakers, surge diverters and cables also discuss the insulation coordination

### **EE6702- Protection and Switchgear - [C402]**

C402.1	Summarize the causes and effects of faults in power system and explain the necessity of protection in power system.
C402.2	Describe the operation of electromagnetic relays and draw their characteristic curves.
C402.3	List out the various faults that can occur on alternator, transformer, busbar and transmission line and select the suitable protection schemes.
C402.4	Synthesize the static relays using comparators and explain numerical relays.
C402.5	Derive the expression for RRRV, critical resistance value and compare the various types of circuit breakers.

### **EE6703-Special Electrical Machines - [C403]**

C403.1	Explain the necessity to improve the saliency of synchronous reluctance motor and its characteristics
C403.2	Compare the various methods of excitation of different types of stepper motor and its driver circuits
C403.3	Describe the operation of switched reluctance motor with and without sensors
C403.4	Explain the electronic commutation of permanent magnet brushless D.C. motors and develop the torque equation.
C403.5	Develop the expression for emf and torque of permanent magnet synchronous motors and discuss power controller for permanent magnet synchronous motors.

### **MG6851-Principles of Management - [C404]**

C404.1	Describe the basic of management and its types, skills, management roles, types of business organizations and current trends in business.
C404.2	Explain the nature and purpose of planning , types, objective of planning and decision process
C404.3	Compare the different organization structures, Authorities and responsibilities, Human resource management and training and development.
C404.4	Estimate the individual and group behavior, motivation, job satisfaction, types and theories of leadership, communication and IT.
C404.5	Apply the knowledge using the various System and process of controlling, budgetary and non-budgetary control techniques, use of computers and IT in Management control, reporting.

### **EI 6704 – Biomedical Instrumentation – (C405E2)**

C405E2.1	Identify the functions of human nervous system and describe the basic components of biomedical system.
C405E2.2	Illustrate the measurement of non-electrical parameters in human body system.
C405E2.3	Apply different electrodes and amplifiers in physiological measurements (EEG, ECG, EMG etc.)
C405E2.4	Explain the basic principles of imaging techniques and patient monitoring system.
C405E2.5	Describe the functions of life assisting and therapeutic equipments

### **EE6008 – Micro Controller Based System Design – [C406E4]**

C406E4.1	Describe the basic architecture of PIC16cxx and apply the instruction set for simple operations.
C406E4.2	Explain about the PIC micro controllers interrupts and write the interrupt programs
C406E4.3	Apply the program to interface I/O devices with controller like LCD, Keyboard, and Sensors etc.,
C406E4.4	Develop simple applications using ARM assembly language programs
C406E4.5	Analyze ARM Organization and ARM Coprocessor interface

### EE 6711 – Power System Simulation Laboratory – [C407]

C407.1	Determine the bus impedance and admittance matrices using C and MATLAB
C407.2	Apply numerical methods for solving load flow problems and verify using C and MATLAB
C407.3	Analyze various faults occurring in power system and simulate the faults using PSCAD.
C407.4	Analyze small signal stability of Single Machine Infinite Bus (SMIB) system and draw the swing curve using AUPOWER Lab and MATLAB.
C407.5	Generate the coding for economic dispatch problems and load frequency dynamics problems using MATLAB.

### EE6712 -Comprehension- [C408]

C408.1	Describe the basic concepts of electrical and electronics subjects.
C408.2	Solve objective type questions in the field of electrical and electronics engineering
C408.3	Review, prepare and present technological developments
C408.4	Analyze the modern trends in the field of electrical and electronics engineering.
C408.5	Answer effectively during technical interviews.

### EE6801-Electric Energy Generation, Utilization and Conservation – [C409]

C409.1	Evaluate tractive effort for the propulsion of train, name the traction motors, list the traction motor control, track equipment and collection gear.
C409.2	Categorize different light sources and design various illumination systems for the indoor lighting schemes, factory lighting, halls, outdoor lighting schemes, flood lighting, street lighting.
C409.3	Compare the different methods of electric heating and types of electric welding.
C409.4	Estimate average solar radiation and illustrate the physical principles of the conversion of solar radiation into heat.
C409.5	Analyze aerodynamic forces acting on the blade and draw basic components of a WECS.

### EE 6009 – Power Electronics for Renewable Energy Systems – (C410E1)

C410E1.1	Discuss and analyze the various types of renewable energy sources
C410E1.2	Analyze the performance of IG, PMSG, SCIG and DFIG
C410E1.3	Design different power converters namely AC to DC, DC to DC and AC to AC converters for renewable energy systems.
C410E1.4	Analyze various operating modes of wind electrical generators and solar energy systems.
C410E1.5	Develop maximum power point tracking algorithms.

### **GE6757-Total Quality Management - [C411E2]**

C411E2.1	Describe the basic of Basic concepts of TQM and its need , Contributions of Deming, Juran and Crosby , Customer focus, Costs of quality.
C411E2.2	Explain the Leadership ,Quality Councils , Employee involvement, Teamwork, Quality circles , Performance appraisal , PDCA cycle, 5S, Kaizen, Supplier partnership.
C411E2.3	Compare the different tools of quality, New management tools , Six sigma, Bench marking.
C411E2.4	Estimate the TQM using Control Charts, Taguchi quality loss function , TPM - Concepts, improvement needs and Performance measures.
C411E2.5	Apply the knowledge using the various System using ISO 9000 - ISO 9001-2008 , Elements, Documentation, Quality Auditing - QS 9000 - ISO 14000 – Concepts etc.

### **EE6811 – Project work [C412]**

C412.1	Apply the fundamentals of mathematics, science and engineering knowledge to identify , formulate , design and investigate complex engineering problems of electrical and electronics engineering and allied applications .
C412.2	Apply appropriate techniques and modern engineering hardware and software tools in electrical and electronics engineering and allied applications.
C412.3	Apply reasoning informed by the contextual knowledge to assess societal , health, safety, legal and cultural issues with societal and environmental context , applying ethical principles in the field of electrical and electronics engineering and allied applications.
C412.4	Function effectively as an individual and as a member or leader in diverse teams in multidisciplinary settings and make effective presentation, and communicate effectively.
C412.5	Demonstrate the understanding of the engineering and management principles in multidisciplinary environments to engage in lifelong learning in the broadest context of technological change.

**K.L.N. COLLEGE OF ENGINEERING**

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Mapping of Course with POs and PSOs**

Course Code	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
C101	-	1	-	-	-	-	1	-	2	2	-	1	1	1	1
C102	2	2	-	-	2	-	-	-	-	-	-	1	2	1	-
C103	2	2	-	-	-	-	-	-	-	-	-	1	1	-	-
C104	2	2	-	-	-	-	-	-	-	-	-	1	1	-	-
C105	2	3	-	-	1	-	-	-	-	-	-	1	1	1	-
C106	1	2	-	-	-	1	-	-	-	1	-	-	1	-	1
C107	1	3	-	-	-	-	-	-	1	-	-	1	1	1	-
C108	1	1	1	-	1	-	-	-	1	-	-	1	1	1	-
C109	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C110	-	1	-	-	-	-	1	-	2	2	-	1	1	1	1
C111	2	-	-	2	-	-	-	-	2	-	-	1	1	1	-
C112	2	2	-	-	-	-	-	-	-	-	-	1	1	-	-
C113	2	2	-	-	-	-	-	-	-	-	-	1	1	-	-
C114	2	1	1	-	-	1	2	-	-	-	-	-	1	-	1
C115	3	2	1	1	1	-	-	-	-	-	-	-	2	-	-
C116	3	-	-	-	-	-	-	-	-	-	-	-	1	-	-
C117	1	-	2	-	2	-	-	-	1	-	-	-	1	1	-
C118	3	1	2	-	1	1	-	-	2	-	-	-	2	1	-
C201	2	2	-	1	-	-	-	-	-	-	-	-	1	-	-
C202	2	2	2	1	-	-	-	-	-	-	-	-	2	-	-
C203	3	3	1	1	-	-	-	-	-	-	-	-	2	-	-
C204	-	-	-	-	-	3	1	1	1	-	-	3	-	1	1
C205	2	2	2	2	-	1	-	-	-	-	-	-	2	-	-
C206	2	1	1	-	-	1	-	-	-	-	-	1	1	-	-
C207	2	1	2	3	1	-	-	-	2	-	-	-	2	1	-
C208	2	-	1	-	-	1	-	-	2	-	-	-	1	1	-
C209	3	3	-	2	3	2	-	-	-	-	-	-	2	1	1
C210	3	2	-	1	1	-	-	-	-	-	-	-	1	-	-
C211	2	1	2	2	2	-	-	-	-	-	-	-	2	1	-
C212	3	3	-	1	-	2	2	-	-	-	-	-	2	-	1
C213	3	2	2	-	1	-	-	-	-	-	-	1	2	1	-
C214	2	1	1	-	-	-	-	-	-	-	-	-	1	-	-
C215	2	2	2	2	1	-	-	-	1	-	-	-	2	1	-
C216	2	-	-	3	1	-	-	-	1	-	-	-	1	1	-
C301	2	3	-	2	1	1	1	-	-	-	-	-	2	-	-
C302	2	2	2	-	1	-	-	-	-	-	-	-	2	-	-
C303	3	-	2	-	-	2	2	-	-	-	-	-	1	-	1
C304	3	2	1	-	2	-	-	-	-	-	-	-	2	1	-
C305	2	3	1	3	-	-	-	-	-	-	-	-	2	-	-
C306	3	2	3	1	-	-	-	-	2	-	-	-	2	1	-
C307	3	1	2	3	2	-	-	-	2	-	-	-	2	1	-
C308	-	-	1	1	1	1	3	1	1	2	1	1	-	-	1
C309	2	2	1	3	-	-	-	-	1	-	-	-	2	-	-
C310	3	2	1	1	2	1	1	-	-	-	1	-	2	1	1
C311	3	1	-	1	-	-	-	-	-	-	-	-	2	-	-
C312	2	1	1	1	1	-	-	-	-	-	-	-	1	-	-
C313	3	2	1	2	1	-	-	-	-	-	-	-	2	-	-
C314	3	3	3	-	2	-	-	-	-	-	-	-	2	1	-
C315E1	3	2	-	-	1	-	1	-	-	-	-	-	1	-	-
C316	2	1	1	1	1	-	-	-	2	-	-	-	1	1	-

C317	2	2	2	3	1	-	-	-	1	-	-	-	2	1	-
C318	1	2	2	3	-	-	-	-	3	1	-	-	2	1	-
C401	1	1	-	2	-	2	-	-	-	-	-	-	1	-	1
C402	3	2	1	-	-	1	1	-	-	-	-	-	2	-	1
C403	3	2	-	-	1	-	-	-	-	-	-	-	1	-	-
C404	-	-	-	3	-	2	2	-	1	-	3	3	1	1	1
C405E2	3	-	-	-	1	-	1	-	-	-	-	-	1	-	-
C406E3	2	1	1	1	1	-	-	-	-	-	-	2	1	2	-
C407	3	2	1	3	1	-	-	-	-	-	-	-	2	-	-
C408	1	-	2	3	-	1	3	2	1	-	1	2	2	1	1
C409	3	2	2	-	-	1	1	-	-	-	1	-	2	-	1
C410E4	3	3	-	-	-	2	2	2	-	-	-	-	2	2	1
C411E5	-	-	-	1	-	1	1	2	1	1	2	3	1	1	1
C412	2	2	1	2	2	2	2	1	1	1	2	2	2	2	2

**Table:1 Course attainment (2014-2018 Batch)**

<b>COURSE</b>	<b>Attainment Level</b>	<b>COURSE</b>	<b>Attainment Level</b>	<b>COURSE</b>	<b>Attainment Level</b>	<b>COURSE</b>	<b>Attainment Level</b>
<b>C101</b>	3	<b>C201</b>	0.89	<b>C301</b>	1.56	<b>C401</b>	1.09
<b>C102</b>	0.9	<b>C202</b>	1.16	<b>C302</b>	0.95	<b>C402</b>	1.13
<b>C103</b>	1.17	<b>C203</b>	1.11	<b>C303</b>	1.47	<b>C403</b>	1.26
<b>C104</b>	1.17	<b>C204</b>	0.93	<b>C304</b>	0.99	<b>C404</b>	1.77
<b>C105</b>	1.04	<b>C205</b>	1.41	<b>C305</b>	1.39	<b>C405E2</b>	1.57
<b>C106</b>	0.99	<b>C206</b>	0.92	<b>C306</b>	1.03	<b>C406E3</b>	1.86
<b>C107</b>	2.56	<b>C207</b>	2.94	<b>C307</b>	3	<b>C407</b>	3
<b>C108</b>	1.96	<b>C208</b>	3	<b>C308</b>	3	<b>C408</b>	2.74
<b>C109</b>	1.48	<b>C209</b>	1.54	<b>C309</b>	2.96	<b>C409</b>	1.14
<b>C110</b>	1.56	<b>C210</b>	1.1	<b>C310</b>	0.87	<b>C410E4</b>	1.05
<b>C111</b>	1.23	<b>C211</b>	0.76	<b>C311</b>	0.99	<b>C411E5</b>	1.18
<b>C112</b>	1.22	<b>C212</b>	1.16	<b>C312</b>	1.08	<b>C412</b>	3
<b>C113</b>	1.27	<b>C213</b>	1.14	<b>C313</b>	1.47		
<b>C114</b>	2.03	<b>C214</b>	1.38	<b>C314</b>	1.06		
<b>C115</b>	2.48	<b>C215</b>	3	<b>C315E1</b>	1.51		
<b>C116</b>	1.56	<b>C216</b>	3	<b>C316</b>	3		
<b>C117</b>	2.88			<b>C317</b>	3		
<b>C118</b>	3			<b>C318</b>	2.87		



**Table:2 Course attainment (2014-2018 Batch) – Subject Name wise**

S.NO.	Code	Subject Name	CO	Att. Level
1	HS6151	Technical English - I	C101	3
2	MA6151	Mathematics - I	C102	0.9
3	PH6151	Engineering Physics - I	C103	1.17
4	CY6151	Engineering Chemistry - I	C104	1.17
5	GE6151	Computer Programming	C105	1.04
6	GE6152	Engineering Graphics	C106	0.99
7	GE6161	Computer Practices Laboratory	C107	2.56
8	GE6162	Engineering Practices Laboratory	C108	1.96
9	GE6163	Physics and Chemistry Laboratory - I	C109	1.48
10	HS6251	Technical English - II	C110	1.56
11	MA6251	Mathematics - II	C111	1.23
12	PH6251	Engineering Physics - II	C112	1.22
13	CY6251	Engineering Chemistry - II	C113	1.27
14	GE6251	Basic Civil and Mechanical Engineering	C114	2.03
15	EE6201	Circuit Theory	C115	2.48
16	GE6262	Physics and Chemistry Laboratory - II	C116	1.56
17	GE6263	Computer Programming Laboratory	C117	2.88
18	EE6211	Electric Circuits Laboratory	C118	3
19	MA6351	Transforms and Partial Differential Equations	C201	0.89
20	EE6301	Digital Logic Circuits	C202	1.16
21	EE6302	Electromagnetic Theory	C203	1.11
22	GE6351	Environmental Science and Engineering	C204	0.93
23	EC6202	Electronic Devices and Circuits	C205	1.41
24	EE6303	Linear Integrated Circuits and Applications	C206	0.92
25	EC6361	Electronics Laboratory	C207	2.94
26	EE6311	Linear and Digital Integrated Circuits Laboratory	C208	3
27	MA6459	Numerical Methods	C209	1.54
28	EE6401	Electrical Machines - I	C210	1.1
29	CS6456	Object Oriented Programming	C211	0.76
30	EE6402	Transmission and Distribution	C212	1.16
31	EE6403	Discrete Time Systems and Signal Processing	C213	1.14
32	EE6404	Measurements and Instrumentation	C214	1.38
33	CS6461	Object Oriented Programming Laboratory	C215	3
34	EE6411	Electrical Machines Laboratory - I	C216	3
35	EE6501	Power System Analysis	C301	1.56
36	EE6502	Microprocessors and Microcontrollers	C302	0.95
37	ME6701	Power Plant Engineering	C303	1.47
38	EE6503	Power Electronics	C304	0.99
39	EE6504	Electrical Machines - II	C305	1.39
40	IC6501	Control Systems	C306	1.03
41	EE6511	Control and Instrumentation Laboratory	C307	3
42	GE6674	Communication and Soft Skills- Laboratory Based	C308	3

43	EE6512	Electrical Machines Laboratory - II	C309	2.96
44	EC6651	Communication Engineering	C310	0.87
45	EE6601	Solid State Drives	C311	0.99
46	EE6602	Embedded Systems	C312	1.08
47	EE6603	Power System Operation and Control	C313	1.47
48	EE6604	Design of Electrical Machines	C314	1.06
49	EE6002	Power System Transients	C315E1	1.51
50	EE6611	Power Electronics and Drives Laboratory	C316	3
51	EE6612	Microprocessors and Microcontrollers Laboratory	C317	3
52	EE6613	Presentation Skills and Technical Seminar	C318	2.87
53	EE6701	High Voltage Engineering	C401	1.09
54	EE6702	Protection and Switchgear	C402	1.13
55	EE6703	Special Electrical Machines	C403	1.26
56	MG6851	Principles of Management	C404	1.77
57	EE6005	Power Quality	C405E2	1.57
58	EE6008	Microcontroller Based System Design	C406E3	1.86
59	EE6711	Power System Simulation Laboratory	C407	3
60	EE6712	Comprehension	C408	2.74
61	EE6801	Electric Energy Generation, Utilization and Conservation	C409	1.14
62	EE6009	Power Electronics for Renewable Energy Systems	C410E4	1.05
63	GE6757	Total Quality Management	C411E5	1.18
64	EE6811	Project Work	C412	3

**Table:3 Course Attainment Comparison**

COURSE	Subject	2014-2018	2013-2017	2012-2016	2011-2015	2010-2014	2009-2013
C101	TE-I	3	1.59	0.96	1.64	1.48	1.12
C102	M-I	0.9	2.91	1.56	1.07	1.13	0.56
C103	EPhy-I	1.17	1.56	0.63	1.06	2.2	0.72
C104	EChe-I	1.17	1.78	0.36	1.19	1.54	1.44
C105	CP	1.04	1.82	1.38	0.9	2.08	0.32
C106	EG	0.99	2.5	1.38	1.9	2.6	2.44
C107	CP Lab	2.56	3	1.8	1.8	3	3
C108	EP Lab	1.96	2.96	2.4	2.2	3	2.2
C109	Phy Che Lab - I	1.48	2.04				
C110	TE-II	1.56	3	0.53	1.64	2.81	0.96
C111	M-II	1.23	2.04	1.82	0.74	0.51	0.48
C112	EPhy-II	1.22	2.78	0.42	1.08	1.88	1.08
C113	EChe-II	1.27	1.44	0.28	0.77	1.65	0.4
C114	BCME	2.03	3	0.85	0.72	2.14	2.08
C115	CT	2.48	1.78	0.1	0.38	2.02	1
C116	Phy Che Lab -II	1.56	2.52	0.8	1.2	2	1
C117	CP Lab	2.88	3	1	1.4	3	1.2
C118	EC Lab	3	3	3	2.4	1.2	2.4
C201	TPDE	0.89	1.07	2.07	0.54	0.69	0.8
C202	DLC	1.16	0.89	0.93	0.19	0.72	0.66
C203	EMT	1.11	0.92	1.06	0.79	2.09	1.03
C204	EVS	0.93	1.5	1.05	0.59	1.81	0.61
C205	EDC	1.41	1.23	1.47	0.13	1.7	0.3
C206	LIC	0.92	1.28	1.39	0.19	0.62	1.02
C207	Electronics Lab	2.94	3	3	3	2.6	0.6
C208	LIC Lab	3	3	3	2.4	2.6	1.6
C209	NM	1.54	1.77	1.4	2.28	0.46	1.32
C210	EM-I	1.1	1.33	1.78	0.43	1.92	1.45
C211	OOP	0.76	1.16	0.95	2.58	0.69	1.4
C212	TD	1.16	1.38	1.38	1.41	1.74	1.32
C213	DTSSP	1.14	1.25	0.93	1.26	0.16	2.08
C214	MI	1.38	1.73	1.75	0.76	1.49	1.45
C215	OOP Lab	3	1.28	2.52	2.4	1.4	2.2
C216	EM Lab-I	3	2.88	2	2.6	3	3
C301	PSA	1.56	1.69	1.32	1.42	0.43	1.26
C302	MPMC	0.95	0.94	0.96	1.42	0.53	0.37
C303	PPE	1.47	2.43	2.24	1.03	2.81	2.47
C304	PE	0.99	1.5	1.13	1.41	1.62	1.54
C305	EM -II	1.39	0.95	0.6	1.52	1.3	1.18

<b>C306</b>	CS	1.03	1.21	1.8672	1	0.38	1.03
<b>C307</b>	CS Lab	3	2.03	3	2.2	2	3
<b>C308</b>	Comm/ Soft skills Lab	3	3	1.56	0.8	1.2	0
<b>C309</b>	EM Lab - II	2.96	2.96	3	3	1.8	2.6
<b>C310</b>	CE	0.87	1.69	1.35	1.01	0.16	0.96
<b>C311</b>	SSD	0.99	2.83	2.21	2.1	0.97	2.49
<b>C312</b>	Embedded	1.08	2.81			2.36	
<b>C313</b>	PSOC	1.47	1.44	2.05	2.14	2.42	2.06
<b>C314</b>	DEM	1.06	2.12	1.88	1.75	0.59	0.89
<b>C315E1</b>	PST	1.51	1.52	2.96	2.38	3	1.29
<b>C316</b>	PED Lab	3	2.99	3	3	1.8	3
<b>C317</b>	MPMC Lab	3	3	2.94	3	3	1.8
<b>C318</b>	PSTS Lab	2.87	3	3	3	0.59	
<b>C401</b>	HVE	1.09	2.16	1.04	1.63	1.63	2.2
<b>C402</b>	PSG	1.13	1.8	1.73	2.06	2.04	2.15
<b>C403</b>	SEM	1.26	1.93	2.39	1.53	1.98	2.6
<b>C404</b>	POM	1.77	3	2.04	2.67	2.04	
<b>C405E2</b>	PQ	1.57	1.86	2.86	2.59	3	2.58
<b>C406E3</b>	MBSD	1.86	1.03				
<b>C407</b>	PSS Lab	3	2.8	2.52	2.52	3	3
<b>C408</b>	Compre	2.74	2.98	3	3	3	
<b>C409</b>	EEGUC	1.14	2.38	1.34	2.42	2.53	1.03
<b>C410E4</b>	PERES	1.05	2.68			1.84	1.84
<b>C411E5</b>	TQM	1.18	1.27				3
<b>C412</b>	Project	3	3	3	3	3	2.2

**Table 4: PO Attainment 2014-2018 Batch (Mapped without Weightage)**

Course	Attainment Level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	3	-	3	-	-	-	-	3	-	3	3	-	3
C102	0.9	0.9	0.9	-	-	0.9	-	-	-	-	-	-	0.9
C103	1.17	1.17	1.17	-	-	-	-	-	-	-	-	-	1.17
C104	1.17	1.17	1.17	-	-	-	-	-	-	-	-	-	1.17
C105	1.04	1.04	1.04	-	-	1.04	-	-	-	-	-	-	1.04
C106	0.99	0.99	0.99	-	-	-	0.99	-	-	-	0.99	-	-
C107	2.56	2.56	2.56	-	-	-	-	-	-	2.56	-	-	2.56
C108	1.96	1.96	1.96	1.96	-	1.96	-	-	-	1.96	-	-	1.96
C109	1.48	-	-	-	-	-	-	-	-	-	-	-	-
C110	1.56	-	1.56	-	-	-	-	1.56	-	1.56	1.56	-	1.56
C111	1.23	1.23	-	-	1.23	-	-	-	-	1.23	-	-	1.23
C112	1.22	1.22	1.22	-	-	-	-	-	-	-	-	-	1.22
C113	1.27	1.27	1.27	-	-	-	-	-	-	-	-	-	1.27
C114	2.03	2.03	2.03	2.03	-	-	2.03	2.03	-	-	-	-	-
C115	2.48	2.48	2.48	2.48	2.48	2.48	-	-	-	-	-	-	-
C116	1.56	1.56	-	-	-	-	-	-	-	-	-	-	-
C117	2.88	2.88	-	2.88	-	2.88	-	-	-	2.88	-	-	-
C118	3	3	3	3	-	3	3	-	-	3	-	-	-
C201	0.89	0.89	0.89	-	0.89	-	-	-	-	-	-	-	-
C202	1.16	1.16	1.16	1.16	1.16	-	-	-	-	-	-	-	-
C203	1.11	1.11	1.11	1.11	1.11	-	-	-	-	-	-	-	-
C204	0.93	-	-	-	-	-	0.93	0.93	0.93	0.93	-	-	0.93
C205	1.41	1.41	1.41	1.41	1.41	-	1.41	-	-	-	-	-	-
C206	0.92	0.92	0.92	0.92	-	-	0.92	-	-	-	-	-	0.92
C207	2.94	2.94	2.94	2.94	2.94	2.94	-	-	-	2.94	-	-	-
C208	3	3	-	3	-	-	3	-	-	3	-	-	-
C209	1.54	1.54	1.54	-	1.54	1.54	1.54	-	-	-	-	-	-
C210	1.1	1.1	1.1	-	1.1	1.1	-	-	-	-	-	-	-
C211	0.76	0.76	0.76	0.76	0.76	0.76	-	-	-	-	-	-	-
C212	1.16	1.16	1.16	-	1.16	-	1.16	1.16	-	-	-	-	-
C213	1.14	1.14	1.14	1.14	-	1.14	-	-	-	-	-	-	1.14
C214	1.38	1.38	1.38	1.38	-	-	-	-	-	-	-	-	-
C215	3	3	3	3	3	3	-	-	-	3	-	-	-
C216	3	3	-	-	3	3	-	-	-	3	-	-	-
C301	1.56	1.56	1.56	-	1.56	1.56	1.56	1.56	-	-	-	-	-
C302	0.95	0.95	0.95	0.95	-	0.95	-	-	-	-	-	-	-
C303	1.47	1.47	-	1.47	-	-	1.47	1.47	-	-	-	-	-
C304	0.99	0.99	0.99	0.99	-	0.99	-	-	-	-	-	-	-
C305	1.39	1.39	1.39	1.39	1.39	-	-	-	-	-	-	-	-
C306	1.03	1.03	1.03	1.03	1.03	-	-	-	-	1.03	-	-	-
C307	3	3	3	3	3	3	-	-	-	3	-	-	-
C308	3	-	-	3	3	3	3	3	3	3	3	3	3
C309	2.96	2.96	2.96	2.96	2.96	-	-	-	-	2.96	-	-	-
C310	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	-	-	-	0.87	-

C311	0.99	0.99	0.99	-	0.99	-	-	-	-	-	-	-	-
C312	1.08	1.08	1.08	1.08	1.08	1.08	-	-	-	-	-	-	-
C313	1.47	1.47	1.47	1.47	1.47	1.47	-	-	-	-	-	-	-
C314	1.06	1.06	1.06	1.06	-	1.06	-	-	-	-	-	-	-
C315E1	1.51	1.51	1.51	-	-	1.51	-	1.51	-	-	-	-	-
C316	3	3	3	3	3	3	-	-	-	3	-	-	-
C317	3	3	3	3	3	3	-	-	-	3	-	-	-
C318	2.87	2.87	2.87	2.87	2.87	-	-	-	-	2.87	2.87	-	-
C401	1.09	1.09	1.09	-	1.09	-	1.09	-	-	-	-	-	-
C402	1.13	1.13	1.13	1.13	-	-	1.13	1.13	-	-	-	-	-
C403	1.26	1.26	1.26	-	-	1.26	-	-	-	-	-	-	-
C404	1.77	-	-	-	1.77	-	1.77	1.77	-	1.77	-	1.77	1.77
C405E2	1.57	1.57	-	-	-	1.57	-	1.57	-	-	-	-	-
C406E3	1.86	1.86	1.86	1.86	1.86	1.86	-	-	-	-	-	-	1.86
C407	3	3	3	3	3	3	-	-	-	-	-	-	-
C408	2.74	2.74	-	2.74	2.74	-	2.74	2.74	2.74	2.74	-	2.74	2.74
C409	1.14	1.14	1.14	1.14	-	-	1.14	1.14	-	-	-	1.14	-
C410E4	1.05	1.05	1.05	-	-	-	1.05	1.05	1.05	-	-	-	-
C411E5	1.18	-	-	-	1.18	-	1.18	1.18	1.18	1.18	1.18	1.18	1.18
C412	3	3	3	3	3	3	3	3	3	3	3	3	3

PO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>Obtained</b>	97.01	84.12	70.18	62.64	57.92	34.98	30.67	11.9	56.61	15.6	13.7	33.62
<b>Actual</b>	57	51	36	33	30	21	18	6	23	7	7	20
<b>Direct Attainment</b>	1.7	1.65	1.95	1.9	1.93	1.67	1.7	1.98	2.46	2.23	1.96	1.68
<b>Indirect Attainment</b>	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
<b>Overall Attainment</b>	1.96	1.92	2.16	2.12	2.14	1.93	1.96	2.18	2.56	2.38	2.16	1.94
<b>Target</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

**\*Overall Attainment = (0.8\*Direct Attainment + 0.2\*Indirect Attainment)**

**Table 5: PSO Attainment 2014-2018 Batch (Mapped without Weightage)**

<b>Course</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
C101	3	3	3
C102	0.9	0.9	-
C103	1.17	-	-
C104	1.17	-	-
C105	1.04	1.04	-
C106	0.99	-	0.99
C107	2.56	2.56	-
C108	1.96	1.96	-
C109	1.48	-	-
C110	1.56	1.56	1.56
C111	1.23	1.23	-
C112	1.22	-	-
C113	1.27	-	-
C114	2.03	-	2.03
C115	2.48	-	-
C116	1.56	-	-
C117	2.88	2.88	-
C118	3	3	-
C201	0.89	-	-
C202	1.16	-	-
C203	1.11	-	-
C204	-	0.93	0.93
C205	1.41	-	-
C206	0.92	-	-
C207	2.94	2.94	-
C208	3	3	-
C209	1.54	1.54	1.54
C210	1.1	-	-
C211	0.76	0.76	-
C212	1.16	-	1.16
C213	1.14	1.14	-
C214	1.38	-	-
C215	3	3	-
C216	3	3	-
C301	1.56	-	-
C302	0.95	-	-
C303	1.47	-	1.47
C304	0.99	0.99	-
C305	1.39	-	-
C306	1.03	1.03	-
C307	3	3	-
C308	-	-	3
C309	2.96	-	-
C310	0.87	0.87	0.87
C311	0.99	-	-

C312	1.08	-	-
C313	1.47	-	-
C314	1.06	1.06	-
C315E1	1.51	-	-
C316	3	3	-
C317	3	3	-
C318	2.87	2.87	-
C401	1.09	-	1.09
C402	1.13	-	1.13
C403	1.26	-	-
C404	1.77	1.77	1.77
C405E2	1.57	-	-
C406E3	1.86	1.86	-
C407	3	-	-
C408	2.74	2.74	2.74
C409	1.14	-	1.14
C410E4	1.05	1.05	1.05
C411E5	1.18	1.18	1.18
C412	3	3	3

<b>PSO ATTAINMENT</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>Obtained</b>	106	61.86	29.65
<b>Actual</b>	62	31	18
<b>Direct Attainment</b>	1.71	2	1.65
<b>Indirect Attainment</b>	2.98	2.98	2.98
<b>Overall Attainment</b>	1.96	2.2	1.92
<b>Target</b>	<b>3</b>	<b>3</b>	<b>3</b>

**\*Overall Attainment = (0.8\*Direct Attainment + 0.2\*Indirect Attainment)**



**Table 6: PO Attainment 2014-2018 Batch (Mapped with Weightage)**

Course	Attainment Level	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C101	3	-	3	-	-	-	-	3	-	6	6	-	3
C102	0.9	1.8	1.8	-	-	1.8	-	-	-	-	-	-	0.9
C103	1.17	2.34	2.34	-	-	-	-	-	-	-	-	-	1.17
C104	1.17	2.34	2.34	-	-	-	-	-	-	-	-	-	1.17
C105	1.04	2.08	3.12	-	-	1.04	-	-	-	-	-	-	1.04
C106	0.99	0.99	1.98	-	-	-	0.99	-	-	-	0.99	-	-
C107	2.56	2.56	7.68	-	-	-	-	-	-	2.56	-	-	2.56
C108	1.96	1.96	1.96	1.96	-	1.96	-	-	-	1.96	-	-	1.96
C109	1.48	-	-	-	-	-	-	-	-	-	-	-	-
C110	1.56	-	1.56	-	-	-	-	1.56	-	3.12	3.12	-	1.56
C111	1.23	2.46	-	-	2.46	-	-	-	-	2.46	-	-	1.23
C112	1.22	2.44	2.44	-	-	-	-	-	-	-	-	-	1.22
C113	1.27	2.54	2.54	-	-	-	-	-	-	-	-	-	1.27
C114	2.03	4.06	2.03	2.03	-	-	2.03	4.06	-	-	-	-	-
C115	2.48	7.44	4.96	2.48	2.48	2.48	-	-	-	-	-	-	-
C116	1.56	4.68	-	-	-	-	-	-	-	-	-	-	-
C117	2.88	2.88	-	5.76	-	5.76	-	-	-	2.88	-	-	-
C118	3	9	3	6	-	3	3	-	-	6	-	-	-
C201	0.89	1.78	1.78	-	0.89	-	-	-	-	-	-	-	-
C202	1.16	2.32	2.32	2.32	1.16	-	-	-	-	-	-	-	-
C203	1.11	3.33	3.33	1.11	1.11	-	-	-	-	-	-	-	-
C204	0.93	-	-	-	-	-	2.79	0.93	0.93	0.93	-	-	2.79
C205	1.41	2.82	2.82	2.82	2.82	-	1.41	-	-	-	-	-	-
C206	0.92	1.84	0.92	0.92	-	-	0.92	-	-	-	-	-	0.92
C207	2.94	5.88	2.94	5.88	8.82	2.94	-	-	-	5.88	-	-	-
C208	3	6	-	3	-	-	3	-	-	6	-	-	-
C209	1.54	4.62	4.62	-	3.08	4.62	3.08	-	-	-	-	-	-
C210	1.1	3.3	2.2	-	1.1	1.1	-	-	-	-	-	-	-
C211	0.76	1.52	0.76	1.52	1.52	1.52	-	-	-	-	-	-	-
C212	1.16	3.48	3.48	-	1.16	-	2.32	2.32	-	-	-	-	-
C213	1.14	3.42	2.28	2.28	-	1.14	-	-	-	-	-	-	1.14
C214	1.38	2.76	1.38	1.38	-	-	-	-	-	-	-	-	-
C215	3	6	6	6	6	3	-	-	-	3	-	-	-
C216	3	6	-	-	9	3	-	-	-	3	-	-	-
C301	1.56	3.12	4.68	-	3.12	1.56	1.56	1.56	-	-	-	-	-
C302	0.95	1.9	1.9	1.9	-	0.95	-	-	-	-	-	-	-
C303	1.47	4.41	-	2.94	-	-	2.94	2.94	-	-	-	-	-
C304	0.99	2.97	1.98	0.99	-	1.98	-	-	-	-	-	-	-
C305	1.39	2.78	4.17	1.39	4.17	-	-	-	-	-	-	-	-
C306	1.03	3.09	2.06	3.09	1.03	-	-	-	-	2.06	-	-	-
C307	3	9	3	6	9	6	-	-	-	6	-	-	-
C308	3	-	-	3	3	3	3	9	3	3	6	3	3
C309	2.96	5.92	5.92	2.96	8.88	-	-	-	-	2.96	-	-	-
C310	0.87	2.61	1.74	0.87	0.87	1.74	0.87	0.87	-	-	-	0.87	-

C311	0.99	2.97	0.99	-	0.99	-	-	-	-	-	-	-	-
C312	1.08	2.16	1.08	1.08	1.08	1.08	-	-	-	-	-	-	-
C313	1.47	4.41	2.94	1.47	2.94	1.47	-	-	-	-	-	-	-
C314	1.06	3.18	3.18	3.18	-	2.12	-	-	-	-	-	-	-
C315E1	1.51	4.53	3.02	-	-	1.51	-	1.51	-	-	-	-	-
C316	3	6	3	3	3	3	-	-	-	6	-	-	-
C317	3	6	6	6	9	3	-	-	-	3	-	-	-
C318	2.87	2.87	5.74	5.74	8.61	-	-	-	-	8.61	2.87	-	-
C401	1.09	1.09	1.09	-	2.18	-	2.18	-	-	-	-	-	-
C402	1.13	3.39	2.26	1.13	-	-	1.13	1.13	-	-	-	-	-
C403	1.26	3.78	2.52	-	-	1.26	-	-	-	-	-	-	-
C404	1.77	-	-	-	5.31	-	3.54	3.54	-	1.77	-	5.31	5.31
C405E2	1.57	4.71	-	-	-	1.57	-	1.57	-	-	-	-	-
C406E3	1.86	3.72	1.86	1.86	1.86	1.86	-	-	-	-	-	-	3.72
C407	3	9	6	3	9	3	-	-	-	-	-	-	-
C408	2.74	2.74	-	5.48	8.22	-	2.74	8.22	5.48	2.74	-	2.74	5.48
C409	1.14	3.42	2.28	2.28	-	-	1.14	1.14	-	-	-	1.14	-
C410E4	1.05	3.15	3.15	-	-	-	2.1	2.1	2.1	-	-	-	-
C411E5	1.18	-	-	-	1.18	-	1.18	1.18	2.36	1.18	1.18	2.36	3.54
C412	3	6	6	3	6	6	6	6	3	3	3	6	6

PO ATTAINMENT	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
<b>Obtained</b>	213.56	152.14	105.82	131.04	74.46	47.92	52.63	16.87	84.11	23.16	21.42	48.98
<b>Actual</b>	130	96	55	62	40	30	28	9	34	10	11	29
<b>Direct Attainment</b>	1.64	1.58	1.92	2.11	1.86	1.6	1.88	1.87	2.47	2.32	1.95	1.69
<b>Indirect Attainment</b>	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98
<b>Overall Attainment</b>	1.91	1.86	2.13	2.28	2.08	1.88	2.1	2.09	2.57	2.45	2.16	1.95
<b>Target</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

\*Overall Attainment = (0.8\*Direct Attainment + 0.2\*Indirect Attainment)

**Table 7: PSO Attainment 2014-2018 Batch (Mapped with Weightage)**

<b>Course</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
C101	3	3	3
C102	1.8	0.9	-
C103	1.17	-	-
C104	1.17	-	-
C105	1.04	1.04	-
C106	0.99	-	0.99
C107	2.56	2.56	-
C108	1.96	1.96	-
C109	1.48	-	-
C110	1.56	1.56	1.56
C111	1.23	1.23	-
C112	1.22	-	-
C113	1.27	-	-
C114	2.03	-	2.03
C115	4.96	-	-
C116	1.56	-	-
C117	2.88	2.88	-
C118	6	3	-
C201	0.89	-	-
C202	2.32	-	-
C203	2.22	-	-
C204	-	0.93	0.93
C205	2.82	-	-
C206	0.92	-	-
C207	5.88	2.94	-
C208	3	3	-
C209	3.08	1.54	1.54
C210	1.1	-	-
C211	1.52	0.76	-
C212	2.32	-	1.16
C213	2.28	1.14	-
C214	1.38	-	-
C215	6	3	-
C216	3	3	-
C301	3.12	-	-
C302	1.9	-	-
C303	1.47	-	1.47
C304	1.98	0.99	-
C305	2.78	-	-
C306	2.06	1.03	-
C307	6	3	-
C308	-	-	3
C309	5.92	-	-
C310	1.74	0.87	0.87
C311	1.98	-	-

C312	1.08	-	-
C313	2.94	-	-
C314	2.12	1.06	-
C315E1	1.51	-	-
C316	3	3	-
C317	6	3	-
C318	5.74	2.87	-
C401	1.09	-	1.09
C402	2.26	-	1.13
C403	1.26	-	-
C404	1.77	1.77	1.77
C405E2	1.57	-	-
C406E3	1.86	3.72	-
C407	6	-	-
C408	5.48	2.74	2.74
C409	2.28	-	1.14
C410E4	2.1	2.1	1.05
C411E5	1.18	1.18	1.18
C412	6	6	6

<b>PSO ATTAINMENT</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
<b>Obtained</b>	160.8	67.77	32.65
<b>Actual</b>	93	34	19
<b>Direct Attainment</b>	1.73	1.99	1.72
<b>Indirect Attainment</b>	2.98	2.98	2.98
<b>Overall Attainment</b>	1.98	2.19	1.97
<b>Target</b>	<b>3</b>	<b>3</b>	<b>3</b>

**\*Overall Attainment = (0.8\*Direct Attainment + 0.2\*Indirect Attainment)**

**Table:8 Program Outcomes (PO) Attainment Comparison**

<b>PO</b>	<b>2009-2013</b>	<b>2010-2014</b>	<b>2011-2015</b>	<b>2012-2016</b>	<b>2013-2017</b>	<b>2014-2018</b>
PO1	1.71	1.77	1.7	2.02	1.34	1.96
PO2	1.65	1.73	1.7	1.99	1.45	1.92
PO3	1.68	1.84	1.82	2.17	1.7	2.16
PO4	1.91	1.91	2.224	2.16	1.46	2.12
PO5	1.77	1.78	1.89	2.22	1.87	2.14
PO6	1.81	1.91	1.95	2.04	1.84	1.93
PO7	1.65	1.96	1.98	1.91	1.74	1.96
PO8	1.93	2.36	2.25	2.42	2.1	2.18
PO9	1.82	2.13	2.37	2.53	1.99	2.56
PO10	1.77	2.28	2.22	2.22	2.03	2.38
PO11	2.08	2.09	2.5	2.31	2.02	2.16
PO12	1.52	1.96	1.9	1.77	1.96	1.94

**Table:9 Program Specific Outcomes (PSO) Attainment Comparison**

<b>PO</b>	<b>2009-2013</b>	<b>2010-2014</b>	<b>2011-2015</b>	<b>2012-2016</b>	<b>2013-2017</b>	<b>2014-2018</b>
PSO1	1.7	1.78	1.82	2	1.7	1.96
PSO2	1.77	1.94	2.14	2.24	2.34	2.2
PSO3	1.82	2.14	2.08	1.89	2.23	1.92

**Table:10 Indirect Attainment of POs**

POs	Indirect Attainment Level			
	2014-2018 Batch			
	Exit Survey (in %)	Survey Attainment Level	Co-Curricular attainment level	Indirect Attainment
1	95.18	3	2.8	2.98
2	95.45	3	2.8	2.98
3	96.42	3	2.8	2.98
4	96.42	3	2.8	2.98
5	94.47	3	2.8	2.98
6	95.45	3	2.8	2.98
7	94.96	3	2.8	2.98
8	95.61	3	2.8	2.98
9	94.96	3	2.8	2.98
10	95.28	3	2.8	2.98
11	94.31	3	2.8	2.98
12	94.31	3	2.8	2.98
13	95.45	3	2.8	2.98
14	96.42	3	2.8	2.98
15	96.42	3	2.8	2.98

**Co-curricular Attainment:**

Co-curricular Attainment =  $(0.8 * \text{Mini project attainment} + 0.2 * \text{Events attended attainment})$

**Note:** Mini Project Attainment = 95.98% →3 | Events Attended Attainment = 78.05% →2

**Indirect Attainment:**

Indirect Attainment =  $(0.9 * \text{Exit Survey Attainment} + 0.1 * \text{Co-curricular Attainment})$

**K.L.N. College of Engineering  
Graduation Survey**

**Dept: *EEE* Batch: 2014 -2018**

<b>Nof Entry : 123</b>		
<b>Sl.No.</b>	<b>Question</b>	<b>%</b>
1	Based on your work experiences since obtaining your undergraduate degree in EEE, what is your impression of the overall quality of your educational experiences that you received at the EEE Programme in KLNCE?	95.93
2.	Ability to apply knowledge of differential and integral calculus, matrices, transforms techniques and Numerical techniques (PO-1), (PSO-1)	94.80
3.	Ability to apply knowledge of Material Science and Chemical Science (PO-1),(PSO-1)	95.77
4.	Ability to apply basic concepts of Civil and Mechanical Engineering (PO- 1),(PSO-1)	94.96
5.	Ability to design and conduct experiments on Electrical Machines, Analog and Digital Circuits (PO- 4),(PSO-1)	95.45
6.	Ability to design system like controller circuits, component or process to meet desired needs (PO-3),(PSO-1)	96.42
7.	Ability to function as a team and to co-ordinate the activities (PO-9),(PSO-2)	96.42
8.	Ability to identify, formulate and solve problems of Power Systems Engineering / Power Electronics Circuits (PO-2),(PSO-1)	94.47
9.	Ability to apply ethical principles and commit to professional ethics and responsibilities (PO-8),(PSO-3)	95.45
10.	Ability to communicate effectively (PO-10),(PSO-3)	94.96
11.	Ability to apply knowledge to access societal, health, safety, legal and cultural issues relevant to the professional engineering practice (PO-6),(PSO-3)	95.61
12.	Ability to engage in independent and lifelong learning in the context of technological change (PO-12),(PSO-2)	94.96
13.	Ability to apply the knowledge of the modern electrical engineering tools such as MATLAB / ETAP / PSCAD / PSIM / PSPICE / Power World Simulator (PO-5),(PSO-2)	95.28
14.	Ability to demonstrate the knowledge of Engineering and Management principles to your own work / as a member or leader in a team to manage projects (PO-11),(PSO-3)	94.31
15.	Ability to demonstrate the knowledge of professional engineering solutions in societal and environmental context for sustainable development (PO-7),(PSO-3)	94.31
<b>Total Average</b>		<b>95.27</b>

<b>Your Score</b>				
<b>Poor</b>	<b>Satisfactory</b>	<b>Good</b>	<b>Very Good</b>	<b>Excellent</b>

**K.L.N. COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**Details of Marks entered for Exit Survey by Students 2014 -2018 BATCH**

S. No	Record No.	Mail ID of the Student	a1 1	a1 2	a1 3	a1 4	a1 5	a2 1	a2 2	a2 3	a2 4	a2 5	a3 1	a3 2	a3 3	a3 4	a3 5	total (75)	%
1.	18836	saiganga97@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
2.	18838	nnaveenkumar902@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
3.	18839	muthupandialagu@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
4.	19099	rubankennedy2910@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
5.	19100	arunachalam2207@gmail.com	5	5	5	5	4	5	5	5	3	5	5	3	4	4	4	67	89.33
6.	19101	vijaysaravana.vs@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
7.	19102	immanjosh5414@gmail.com	5	5	5	5	5	5	4	5	5	5	4	5	5	4	5	72	96
8.	19103	abinayabalamurugan8@gmail.com	5	5	5	5	4	5	5	5	5	5	5	5	4	4	5	72	96
9.	19104	divyabalu3484@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
10.	19105		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
11.	19106		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
12.	19107	iamsrinivasanks97@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
13.	19108	krishnakanth101107@gmail.com	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	60	80
14.	19109	hemchandkumar04@gmail.com	3	5	5	5	5	4	4	4	4	4	4	4	4	4	4	63	84
15.	19110	mjothilingam234@gmail.com	4	5	5	5	5	4	4	4	0	0	0	0	0	0	0	36	48
16.	19111	keerthickumar112@gmail.com	4	5	4	4	4	4	5	4	5	4	5	4	5	4	5	66	88
17.	19112	vvggkarthick@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
18.	19113	laxman190904@gmail.com	4	4	3	4	4	4	5	4	5	4	5	4	4	4	5	63	84
19.	19114	vignesh26111996@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
20.	19115	ajithgj6563@gmail.com	4	4	4	4	4	4	2	2	5	5	5	5	5	5	5	63	84
21.	19116	vickneshdharan@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
22.	19117	kiru24121996@gmail.com	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	60	80
23.	19118		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
24.	19119	gowsike227@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
25.	19120	vishnujg94@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
26.	19121	asmibrahim5@gmail.com	5	4	5	4	5	5	5	4	5	4	4	4	5	4	4	67	89.33
27.	19122	sidrisahmed18@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100



28.	19123	rajaramkumar1301@gmail.com	4	4	4	3	4	4	4	5	5	5	4	4	4	5	5	64	85.3 3
29.	19124	sureshkumarjose@gmail.com	5	4	5	4	4	5	5	4	5	5	5	5	4	5	5	70	93.3 3
30.	19125	ksskranjith@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
31.	19126	rrsathishkumar1996@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
32.	19127	jananiemuruganandham@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
33.	19128	priyasundaram1516@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
34.	19129	jeevadhanush18@gmail.com	4	5	5	4	5	4	5	4	4	4	4	4	4	4	4	64	85.3 3
35.	19130	jones11597@gmail.com	5	4	5	5	4	4	5	4	3	5	4	5	4	4	3	64	85.3 3
36.	19131	thalapathiananth111@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
37.	19132	vijayapandi1996@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
38.	19133	prabhak074@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
39.	19134	malathi3597@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
40.	19135	vivs1989.vrs@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
41.	20223		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
42.	20289		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
43.	20290	nandhuu1596@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
44.	20294	ponmanipriya.97@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
45.	20296	preethipasri@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
46.	20297	mkeerthanamanoharan@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
47.	20299		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
48.	20300		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
49.	20301		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
50.	20302		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
51.	20303		5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
52.	20305	bpraveenkumarbe@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
53.	20306	sarathibala55@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
54.	20309	manimaran02.mm@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
55.	20316	naveenaravind88@gmail.com	1	2	3	4	5	5	4	3	2	1	1	2	3	4	5	45	60
56.	20319	jkbsundari@gmail.com	5	4	4	4	4	5	5	5	5	5	5	5	5	5	5	71	94.6 7
57.	20320	nive,dheva02@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
58.	20321	maduchandru2796@gmail.com	5	5	5	5	5	5	4	4	4	5	5	5	5	5	4	71	94.6

																			7
59.	20322	akishore98081997@gmail.com	5	4	5	4	3	5	4	4	5	5	5	5	3	5	5	67	89.3 3
60.	20323	maxmathi108@gmail.com	5	5	5	5	5	5	5	5	5	4	5	5	5	4	5	73	97.3 3
61.	20324	muthukumar8695@gmail.com	5	4	5	4	5	5	5	5	5	5	5	5	5	5	5	73	97.3 3
62.	20327	kubernath1997@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
63.	20330	manirathinameee@gmail.com	4	3	3	2	2	2	5	2	3	4	5	5	5	5	5	55	73.3 3
64.	20331	krishnakumar301095@gmail.com	4	3	4	4	4	4	4	4	4	4	3	3	5	5	5	60	80
65.	20332	mohamedrelwan@gmail.com	5	5	5	5	5	5	5	5	5	5	4	5	4	4	4	71	94.6 7
66.	20333	meenambigaip1997@gmail.com	5	4	5	5	5	5	5	4	5	4	5	4	4	4	5	69	92
67.	20334	karthiuck7116@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
68.	20335	rsmani540@gmail.com	5	5	5	5	5	5	5	4	5	5	5	5	5	5	4	73	97.3 3
69.	20336	balagganesh23@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
70.	20337	pradeep31297@gmail.com	5	5	5	5	5	5	5	5	5	5	5	4	4	4	5	72	96
71.	20338	bhavishyan123@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
72.	20339	vdkarthickbabu@gmail.com.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
73.	20354	a.sujitha.1997@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
74.	20355	swathikailango1310@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
75.	20356	vasuglistendream@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
76.	20357	yuvanaganesan97@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
77.	20358	mrivickyvignesh96@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
78.	20359	thaiyalnayagisubbiahganesh@gmail.com	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	74	98.6 7
79.	20360	vivethasri22@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
80.	20361	ramyask44@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
81.	20362	kannanvishali1@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
82.	20363	kavithashankar69123@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
83.	20364	rubasri234@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
84.	20365	suriyakumarsuriya12@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
85.	20366	saravanarsv@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
86.	20367	mskumar720@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
87.	20368	sudharsanmssj@gmail.com	2	3	3	3	3	2	3	2	3	3	3	3	2	2	2	39	52

88.	20369	suriyaprakash397@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
89.	20370	rajapriyabe15@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
90.	20371	priyankaviswaramsri@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
91.	20372	sujith00513@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
92.	20373	hassani97@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
93.	20374	vadivu.arasan.kannan@gmail.com	4	3	4	4	3	4	4	3	4	3	4	4	4	3	4	55	73.3 3
94.	20375	sivapradeepkumar6@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
95.	20376	ksaravana540@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
96.	20377	bmy.yogesh@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
97.	20378	rajiksrk@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
98.	20379	vivekchandran2012@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
99.	20380	arysyuvaraj@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
100.	20381	balaji.arun97@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
101.	20382	duraimurugan.eee96@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
102.	20383	parthichithambaram26@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
103.	20384	aravindgokulkrishnan@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
104.	20385	ajith8457@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
105.	20386	jrhari135@gmail.com	4	5	3	4	5	5	5	4	5	4	5	4	5	4	4	66	88
106.	20387	joel.ashwin32@gmail.com	5	4	4	4	4	4	4	5	4	4	4	4	4	4	4	62	82.6 7
107.	20388	gayathirc95@gmail.com	5	4	5	5	4	5	4	5	5	5	5	5	5	5	5	72	96
108.	20389	preethy2097@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
109.	20390	alifrojamohammed@gmail.com	5	5	4	4	5	5	5	5	4	5	5	5	5	5	5	72	96
110.	20391	akash142070@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
111.	20392	Banupriyakln@gmail.com	5	4	4	4	4	5	5	5	5	5	5	5	5	0	0	61	81.3 3
112.	20393	balamurugan9621@gmail.com	5	4	4	5	4	4	4	2	4	4	3	4	5	5	4	61	81.3 3
113.	20399	dsooriyan@gmail.com	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	74	98.6 7
114.	20400	booma5797@gmail.com	4	4	4	4	4	4	4	4	4	5	4	4	4	4	4	61	81.3 3
115.	20401	devichansri@gmail.com	5	4	5	4	4	5	4	5	4	4	5	4	5	5	5	68	90.6 7
116.	20404	ajithvasan23@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
117.	20405	ajithkumark9524@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100

118	20406	binob17@gmail.com	3	3	3	3	5	5	5	5	5	5	5	5	5	5	5	0	62	82.6 7
119	20407	gauthammariappan7@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
120	20408	sachinchandru1996@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100
121	20409	anandhlakshmanan96@gmail.com	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	61	81.3 3	
122	20410	hemanath1504@outlook.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100	
123	20411	dhineshwerks96@gmail.com	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	75	100	

### Questions for Exit Survey

Question No.	Questions
q1	Based on your work experiences since obtaining your undergraduate degree in EEE, what is your impression of the overall quality of your educational experiences that you received at the EEE Programme in KLNCE?
q2.	Ability to apply knowledge of differential and integral calculus, matrices, transforms techniques and Numerical techniques (PO-1), (PSO-1)
q3.	Ability to apply knowledge of Material Science and Chemical Science (PO-1),(PSO-1)
q4.	Ability to apply basic concepts of Civil and Mechanical Engineering (PO- 1),(PSO-1)
q5.	Ability to design and conduct experiments on Electrical Machines, Analog and Digital Circuits (PO-4),(PSO-1)
q6.	Ability to design system like controller circuits, component or process to meet desired needs (PO-3),(PSO-1)
q7.	Ability to function as a team and to co-ordinate the activities (PO-9),(PSO-2)
q8.	Ability to identify, formulate and solve problems of Power Systems Engineering / Power Electronics Circuits (PO-2),(PSO-1)
q9.	Ability to apply ethical principles and commit to professional ethics and responsibilities (PO-8),(PSO-3)
q10.	Ability to communicate effectively (PO-10),(PSO-3)
q11.	Ability to apply knowledge to access societal, health, safety, legal and cultural issues relevant to the professional engineering practice (PO-6),(PSO-3)
q12.	Ability to engage in independent and lifelong learning in the context of technological change (PO-12),(PSO-2)
q13.	Ability to apply the knowledge of the modern electrical engineering tools such as MATLAB / ETAP / PSCAD / PSIM / PSPICE / Power World Simulator (PO-5),(PSO-2)
q14.	Ability to demonstrate the knowledge of Engineering and Management principles to your own work / as a member or leader in a team to manage projects (PO-11),(PSO-3)
q15.	Ability to demonstrate the knowledge of professional engineering solutions in societal and environmental context for sustainable development (PO-7),(PSO-3)

Average Total = 71.46

Average % = 95.27% → 3 Attained

**K.L.N. COLLEGE OF ENGINEERING**

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**Details of Students participated in Inter and Intra College Events 2014 – 2018 BATCH**

S. No	Roll No.	Name of the Student	I Year			II Year			III Year			IV Year			Internal (I)	External (E)	Total (T)
			I	E	T	I	E	T	I	E	T	I	E	T			
1	142009	ABINAYA B			0			0	1	1	2	2	2	4	3	3	6
2	142308	AJITH S			0			0			0		3	3	0	3	3
3	142022	AJITH KUMAR M			0			0			0	1	1	2	1	1	2
4	142112	AJITHKUMAR G J			0		1	1	1	1	2	2	1	3	3	3	6
5	142070	AKASH M			0			0			0	1	1	2	1	1	2
6	142306	ANANTH L			0			0			0		7	7	0	7	7
7	142063	ARAVIND GOKUL KRISHNA G			0			0			0	1		1	1	0	1
8	142301	BAGAM PRIYAL S			0			0	1	1	2	4	2	6	5	3	8
9	142034	BALAJI A			0		2	2	3	1	4	4		4	7	3	10
10	142040	BALAMURUGAN M			0			0			0	1	1	2	1	1	2
11	142071	BANUPRIYA M			0			0			0	2	3	5	2	3	5
12	142101	BHAVISHYAN RA			0		1	1	3	1	4	4	1	5	7	3	10
13	142017	BINO G			0			0	2	2	4	3	1	4	5	3	8
14	142045	BOOMA M			0			0			0	3	1	4	3	1	4
15	142302	DEVIPPRIYA V	2		2	1	2	3		1	1	3	2	5	6	5	11
16	142072	DHARMASOORIYAN B			0			0			0			0	0	0	0
17	142111	DHINESHWER K S			0			0			0		1	1	0	1	1
18	142059	DIVYA B			0	1	3	4		1	1	3	2	5	4	6	10
19	142050	DURAIMURUGAN P			0			0			0		1	1	0	1	1
20	142309	GAYATHRI R			0			0		1	1	3	2	5	3	3	6
21	142056	GOWSIKE S G			0	2	1	3		1	1	3	2	5	5	4	9
22	142058	GOWTHAM M			0		1	1			0	2		2	2	1	3
23	142004	HARI PREETHY R			0		1	1	2	1	3	8	3	11	10	5	15
24	142106	HARIHARASUDHAN J R			0		4	4	1	1	2	2	2	4	3	7	10
25	142104	HEMANATH O P			0		1	1	3	1	4	2	2	4	5	4	9
26	142011	HEMCHAND KUMAR S			0			0	1		1	1	2	3	2	2	4
27	142041	IBRAHIM A S M			0			0			0	1	1	2	1	1	2
28	142024	IDRIS AHAMED S			0		1	1			0	2	1	3	2	2	4
29	142026	IMMANUVEL J		1	1		2	2			0	1	1	2	1	4	5
30	142008	JANANIE M			0			0	2	1	3	5	2	7	7	3	10
31	142038	JOEL ASHWIN A			0		1	1			0			0	0	1	1

32	142032	JONES RAJ S			0		0	1		1		2	2	1	2	3
33	152915	AJITHKUMAR K			0		0			0	1		1	1	0	1
34	152923	ARUNACHALAM J			0		0			0	1		1	1	0	1
35	152920	BALA CHANDER R			0		0			0		1	1	0	1	1
36	152922	BALA MURUGAN P			0		0			0			0	0	0	0
37	152916	CHITHAMBARAM P			0	1	1			0	2	1	3	2	2	4
38	152901	JAWAHAR K			0		0			0	1		1	1	0	1
39	152928	JEEVA A			0		0			0	1		1	1	0	1
40	162401	RAMKUMAR R			0		0			0	1		1	1	0	1
41	162402	ALIF ROJA A			0		0	1		1	4	1	5	5	1	6
42	142001	JOTHILINGAM M			0		0			0	3		3	3	0	3
43	142012	KAMALIKA S			0		0			0	2	2	4	2	2	4
44	142057	KANAGALAKSHMI B			0		0			0	2	2	4	2	2	4
45	142035	KARTHICK A			0		0			0	2	1	3	2	1	3
46	142047	KARTHICK G			0		0			0	1		1	1	0	1
47	142108	KARTHICK BABU V D			0	2	2			0	1	1	2	1	3	4
48	142013	KARTHICKA J			0		0			0	3	1	4	3	1	4
49	142036	KARTHIKASUNDARI S			0		0	1	2	3	3	1	4	4	3	7
50	142031	KIRUBA BABU B S			0	1	1			0	1	1	2	1	2	3
51	142074	KRISHNAKANTH			0		0			0	1		1	1	0	1
52	142044	KRISHNAVENISHRI R			0		0	1	2	3	1	1	2	2	3	5
53	142107	KUBERNATH S			0	1	1			0			0	0	1	1
54	142029	LAKSHMANAN V			0	1	1	1		1	2	1	3	3	2	5
55	142016	MADUMITHA C			0		0		1	1	4	1	5	4	2	6
56	142051	MALATHI T	1	1			0	2	2	4	1	5	6	3	8	11
57	142110	MANIKANDAN R S			0	1	1	1		1		1	1	1	2	3
58	142066	MEENAMBIGAI P	1	1		1	1	2	2	4	3	3	6	5	7	12
59	142073	MOHAMEDRELWAN R			0		0			0			0	0	0	0
60	142027	MUTHU KUMAR E			0		0			0			0	0	0	0
61	142067	KEERTHANA M			0	1	1		1	1	2	1	3	2	3	5
62	142030	NANDHINI R S			0	1	1	1	3	4	2	1	3	3	5	8
63	142061	NAVEENKUMAR M			0		0			0			0	0	0	0
64	142037	NEVEDHAA DEVI K			0	1	1		2	2	1		1	1	3	4
65	142064	NIVETHA N			0	1	1		1	1	3		3	3	2	5
66	142010	PANDISELVI N			0	1	1			0	2	3	5	2	4	6
67	142025	PARTHASARATHI P			0	1	1			0	1	1	2	1	2	3
68	142303	PONBALAMURUGAN M			0	1	1	2		1	1	3	2	5	4	8

69	142039	PONMANIPRIYA S			0		1	1	1	4	5	3	1	4	4	6	10
70	142020	PRABHAKARAN G			0			0		1	1	2	2	4	2	3	5
71	142028	PRADEEP KUMAR R			0		2	2		1	1	2	2	4	2	5	7
72	142042	PRAVEENKUMAR B			0		1	1			0			0	0	1	1
73	142048	PREETHIPASRI B			0		1	1		2	2	1	1	2	1	4	5
74	152921	KEERTHICK KUMAR T R			0			0			0	1		1	1	0	1
75	152912	KISHORE A			0			0			0	1	1	2	1	1	2
76	152919	KRISHNAKUMAR P			0			0			0	3		3	3	0	3
77	152905	MANIMARAN S			0			0			0	1		1	1	0	1
78	152925	MANIRATHINAM C			0			0			0			0	0	0	0
79	152910	MATHIVANAN M			0		1	1			0	1		1	1	1	2
80	152924	MUTHUPANDI D			0			0			0	1		1	1	0	1
81	152902	NAVEENKUMAR N			0			0			0	1	1	2	1	1	2
82	142003	PRIYANKA S			0			0	2		2	2	4	6	4	4	8
83	142068	RAJAPRIYA R			0			0	2		2	2	3	5	4	3	7
84	142053	RAMYA S K			0		1	1	3	6	9	3	1	4	6	8	14
85	142007	RANJITH K			0		2	2		1	1	1	2	3	1	5	6
86	142305	RIBU HASSINI S			0		1	1		3	3	2	4	6	2	8	10
87	142307	RUBA SRI U			0			0		1	1	1	1	2	1	2	3
88	142023	SAIGANGA G V			0		2	2			0	2	2	4	2	4	6
89	142055	SARAVANA KUMAR R			0	1	2	3	2	6	8	2	1	3	5	9	14
90	142046	SARAVANAKUMAR S			0			0		1	1	1		1	1	1	2
91	142052	SATHISHKUMAR M			0			0	1	2	3	2	2	4	3	4	7
92	142103	SATHISHKUMAR R R			0	1	1	2	1	3	4	1	2	3	3	6	9
93	142021	SHEEBA JOSELINE S			0			0			0	2	2	4	2	2	4
94	142018	SRINIVASAN K S			0		2	2			0	2	2	4	2	4	6
95	142043	SUDHARSAN M			0		2	2		1	1	1	1	2	1	4	5
96	142065	SUJITHA A			0			0			0	1	2	3	1	2	3
97	142060	SUJITHKUMAR D			0		1	1			0	1	1	2	1	2	3
98	142006	SURIYAKUMAR V			0			0	1	4	5	2	2	4	3	6	9
99	142304	SURIYAPRAKASH B			0		2	2		1	1		1	1	0	4	4
100	142014	SWATHIKA I L			0		1	1		3	3	3	2	5	3	6	9
101	142015	THAIYAL NAYAGI S G			0			0	1	2	3	4	3	7	5	5	10
102	142069	THALAPATHI PRABAKARAN V			0			0			0	1		1	1	0	1
103	142054	VADIVARASAN K			0		1	1		1	1		1	1	0	3	3
104	142062	VASUMATHI K			0		1	1	1	3	4	2	1	3	3	5	8
105	142019	VELAMMAL S			0		1	1	1	3	4	4	1	5	5	5	10



106	142005	VIGNESHWARAN M			0		1	1		1	1	2	3	5	2	5	7
107	142033	VISHALI C K			0			0		4	4	5	1	6	5	5	10
108	142105	VISHNU VARDHAN J G			0	1	1	2	1	2	3	5	2	7	7	5	12
109	142002	VIVEK RAM S			0			0	1	4	5	2	1	3	3	5	8
110	142102	VIVETHA SRI B G			0		1	1		1	1	3	4	7	3	6	9
111	142311	YOGA RAJIK K			0			0		2	2	2	1	3	2	3	5
112	142310	YUVANA SHREE MURUGA PRIYA G			0		1	1			0	1	1	2	1	2	3
113	142109	YUVARAJASRINIVASAN A R			0		2	2	1	3	4	1	4	5	2	9	11
114	152909	RAFIC BASHA S			0			0		1	1	2		2	2	1	3
115	152918	RUBAN KENNEDY D			0			0			0	2		2	2	0	2
116	152911	SIVA PRADEEPKUMAR S			0			0			0	1	1	2	1	1	2
117	152904	THAMODHARAN P			0	1	2	3			0	3	2	5	4	4	8
118	152908	VIJAY A			0			0			0	1		1	1	0	1
119	152913	VIJAY B			0			0		1	1	1		1	1	1	2
120	152917	VIJAYAPANDI D			0			0			0	1		1	1	0	1
121	152906	VIGNESH S			0			0			0	1		1	1	0	1
122	152914	VIVEK C			0			0		1	1	1		1	1	1	2
123	<b>152927</b>	YOGESHWARAN B			0			0		1	1	1		1	1	1	2
			I	5	II	79	III	152	IV	364	274	326	600				

**Attainment Calculation:**

Number of Students participated in Inter College Events	274
Number of Students participated in Intra College Events	326
Number of Students participated more than <b>two</b> Events ( $\geq 2$ )	96
Percentage of Students participated more than <b>two</b> Events	<b>78.05%</b>
Attainment Level	<b>2</b>

**K.L.N. COLLEGE OF ENGINEERING**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**MINI PROJECT CONTEST-[2014-2018 BATCH]**

S.No.	Roll	Name	22.8.15 to 24.8.15	27.2.16	26.8.16	21.2.17 to 23.2.17	16.10.17
			15-16 Odd	15-16 Even	16-17 Odd	16-17 Even	17-18 Odd
1	142009	ABINAYA B	80	80	80	95	95
2	142308	AJITH S	85	80	85	90	0
3	142022	AJITH KUMAR M	90	80	45	90	85
4	142112	AJITHKUMAR G J	85	88	75	90	85
5	142070	AKASH M	85	84	45	80	85
6	142306	ANANTH L	80	84	45	80	85
7	142063	ARAVIND GOKUL KRISHNA G	85	80	85	90	85
8	142301	BAGAM PRIYAL S	80	80	80	95	95
9	142034	BALAJI A	85	88	75	90	0
10	142040	BALAMURUGAN M	85	80		80	0
11	142071	BANUPRIYA M	85	80	80	80	90
12	142101	BHAVISHYAN RA	94	88	75	90	0
13	142017	BINO G	85	80	88	80	0
14	142045	BOOMA M	80	80	75	80	90
15	142302	DEVIPPRIYA V	80	80	80	80	90
16	142072	DHARMASOORIYAN B	85	84	45	80	85
17	142111	DHINESHWER K S	80	80	88	80	0
18	142059	DIVYA B	96	80	82	80	85
19	142050	DURAIMURUGAN P	90	80		80	0
20	142309	GAYATHRI R	96	80	75	80	90
21	142056	GOWSIKE S G	85	80	82	80	85
22	142058	GOWTHAM M	85	80	60	80	0
23	142004	HARI PREETHY R	96	80	82	80	90
24	142106	HARIHARASUDHAN J R	75	84	88	80	0
25	142104	HEMANATH O P	94	88	75	90	0
26	142011	HEMCHAND KUMAR S	80	88	75	90	85
27	142041	IBRAHIM A S M	90	80	50	90	90
28	142024	IDRIS AHAMED S	80	92	80	90	90
29	142026	IMMANUVEL J	99	72	85	90	90
30	142008	JANANIE M	85	80	82	95	95
31	142038	JOEL ASHWIN A	90	80	50	90	90
32	142032	JONES RAJ S	80	88	75	90	85
33	152915	AJITHKUMAR K	80	80	75	90	0
34	152923	ARUNACHALAM J	80	80	88	90	85

35	152920	BALA CHANDER R	85	80		80	0
36	152922	BALA MURUGAN P	90	80	60	80	0
37	152916	CHITHAMBARAM P	80	80	60	80	85
38	152901	JAWAHAR K	90	80		80	0
39	152928	JEEVA A	90	80	60	80	0
40	162401	RAMKUMAR R	80	0	60	80	0
41	162402	ALIF ROJA A	80	0	80	95	95
42	142001	JOTHILINGAM M	80	92	80	90	90
43	142012	KAMALIKA S	80	80	83	80	85
44	142057	KANAGALAKSHMI B	80	80	75	80	85
45	142035	KARTHICK A	80	88	75	90	0
46	142047	KARTHICK G	90	80	50	90	90
47	142108	KARTHICK BABU V D	99	72	85	90	0
48	142013	KARTHICKA J	80	80	75	80	90
49	142036	KARTHIKASUNDARI S	80	80	80	80	90
50	142031	KIRUBA BABU B S	80	92	80	80	90
51	142074	KRISHNAKANTH	80	92	80	90	90
52	142044	KRISHNAVENISHRI R	80	80	83	80	85
53	142107	KUBERNATH S	85	80	86	90	90
54	142029	LAKSHMANAN V	80	100	86	80	90
55	142016	MADUMITHA C	80	80	80	80	90
56	142051	MALATHI T	80	80	83	80	90
57	142110	MANIKANDAN R S	99	100	86	80	0
58	142066	MEENAMBIGAI P	80	80	83	80	90
59	142073	MOHAMEDRELWAN R	80	80	86	90	90
60	142027	MUTHU KUMAR E	85	80	80	80	90
61	142067	KEERTHANA M	85	80	80	80	90
62	142030	NANDHINI R S	85	80	75	80	90
63	142061	NAVEENKUMAR M	85	76	80	80	0
64	142037	NEVEDHAA DEVI K	85	60	82	90	90
65	142064	NIVETHA N	85	60	80	90	90
66	142010	PANDISELVI N	85	80	80	80	90
67	142025	PARTHASARATHI P	85	76	92	90	85
68	142303	PONBALAMURUGAN M	80	76	92	90	85
69	142039	PONMANIPRIYA S	80	80	75	80	90
70	142020	PRABHAKARAN G	80	76	92	90	85
71	142028	PRADEEP KUMAR R	86	72	92	90	85
72	142042	PRAVEENKUMAR B	85	80	85	80	90
73	142048	PREETHIPASRI B	80	60	80	80	90
74	152921	KEERTHICK KUMAR T R	90	80	50	90	90
75	152912	KISHORE A	80	88	80	90	85
76	152919	KRISHNAKUMAR P	85	80	80	80	90

77	152905	MANIMARAN S	80	100	85	90	0
78	152925	MANIRATHINAM C	90	80	80	90	85
79	152910	MATHIVANAN M	80	80	80	90	85
80	152924	MUTHUPANDI D	80	100	85	80	0
81	152902	NAVEENKUMAR N	80	100	80	90	90
82	142003	PRIYANKA S	80	60	85	95	85
83	142068	RAJAPRIYA R	85	92	85	95	85
84	142053	RAMYA S K	85	80	75	80	90
85	142007	RANJITH K	86	84	80	80	85
86	142305	RIBU HASSINI S	85	84	82	90	100
87	142307	RUBA SRI U	85	84	85	90	100
88	142023	SAIGANGA G V	86	100	80	90	85
89	142055	SARAVANA KUMAR R	80	88	75	95	90
90	142046	SARAVANAKUMAR S	80	88	50	80	90
91	142052	SATHISHKUMAR M	80	80	75	95	0
92	142103	SATHISHKUMAR R R	80	88	85	80	90
93	142021	SHEEBA JOSELINE S	85	84	85	90	85
94	142018	SRINIVASAN K S	75	100	80	90	85
95	142043	SUDHARSAN M	85	84	80	80	0
96	142065	SUJITHA A	85	92	85	90	85
97	142060	SUJITHKUMAR D	80	88	80	80	85
98	142006	SURIYAKUMAR V	80	88	75	95	90
99	142304	SURIYAPRAKASH B	85	84	80	80	0
100	142014	SWATHIKA I L	85	84	82	90	100
101	142015	THAIYAL NAYAGI S G	85	92	90	90	100
102	142069	THALAPATHI PRABAKARAN V	80	80	50	80	90
103	142054	VADIVARASAN K	75	80	80	80	0
104	142062	VASUMATHI K	85	80	75	80	90
105	142019	VELAMMAL S	85	92	90	90	85
106	142005	VIGNESHWARAN M	80	80	90	80	85
107	142033	VISHALI C K	85	84	90	90	85
108	142105	VISHNU VARDHAN J G	80	84	85	80	90
109	142002	VIVEK RAM S	80	88	75	95	0
110	142102	VIVETHA SRI B G	85	80	85	90	90
111	142311	YOGA RAJIKA K	85	84	90	90	85
112	142310	YUVANA SHREE MURUGA PRIYA G	80	80	85	90	90
113	142109	YUVARAJASRINIVASAN A R	75	84	80	80	90
114	152909	RAFIC BASHA S	80	80	80	80	90
115	152918	RUBAN KENNEDY D	80	100	90	90	85
116	152911	SIVA PRADEEPAKUMAR S	80	88	80	80	85
117	152904	THAMODHARAN P	80	80	90	90	85
118	152908	VIJAY A	80	84	50	90	85
119	152913	VIJAY B	90	80	80	80	90

120	152917	VIJAYAPANDI D	90	80	80	80	90
121	152906	VIGNESH S	86	80	90	90	85
122	152914	VIVEK C	85	80	50	80	90
123	<b>152927</b>	YOGESHWARAN B	80	80	80	80	90
<b>Total Participated</b>			123	121	119	123	96
<b>Students &gt;= 75 Marks</b>			123	114	102	123	96
<b>%</b>			100	94.21	85.71	100	100
<b>Attainment</b>			3	3	3	3	3

**Attainment (Average) = 3**

**Table: 11 Course Outcome Attainment – Courses with low (<1) attainment (2014 – 2018)**

S. No.	Course Code	Course Name	Attainment Obtained	Observations	Action Plan
1.	C211	Object Oriented Programming	0.76	Performance in CITs and AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
2.	C310	Communication Engineering	0.87	Performance in few CITs and AU is low.	1. Change of books suggested. 2. AU solved paper will be given.
3.	C201	Transforms and Partial Differential Equations	0.89	Performance of lateral entry students in CITs, AU are not satisfactory.	1. Slow learners were identified. Special coaching classes are planned and conducted to them.
4.	C102	Mathematics - I	0.9	Performance of lateral entry students in CITs, AU are not satisfactory.	1. Slow learners were identified. Special coaching classes are planned and conducted to them.
5.	C206	Linear Integrated Circuits and Applications	0.92	Performance in few CITs and AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
6.	C204	Environmental Science and Engineering	0.93	Performance in AU is low.	Presentation methodology will be improved.
7.	C302	Microprocessors and Microcontrollers	0.95	Performance in AU is low.	1. Important AU questions will be solved and supplied. 2. Retest will be conducted regularly.
8.	C106	Engineering Graphics	0.99	Performance in few CITs and AU is low.	More practice will be given in solving problems.
9.	C304	Power Electronics	0.99	Performance in few CITs and AU is low.	1. Important AU questions will be solved and supplied.
10.	C311	Solid State Drives	0.99	Performance in few CITs and AU is low.	2. Retest will be conducted regularly.

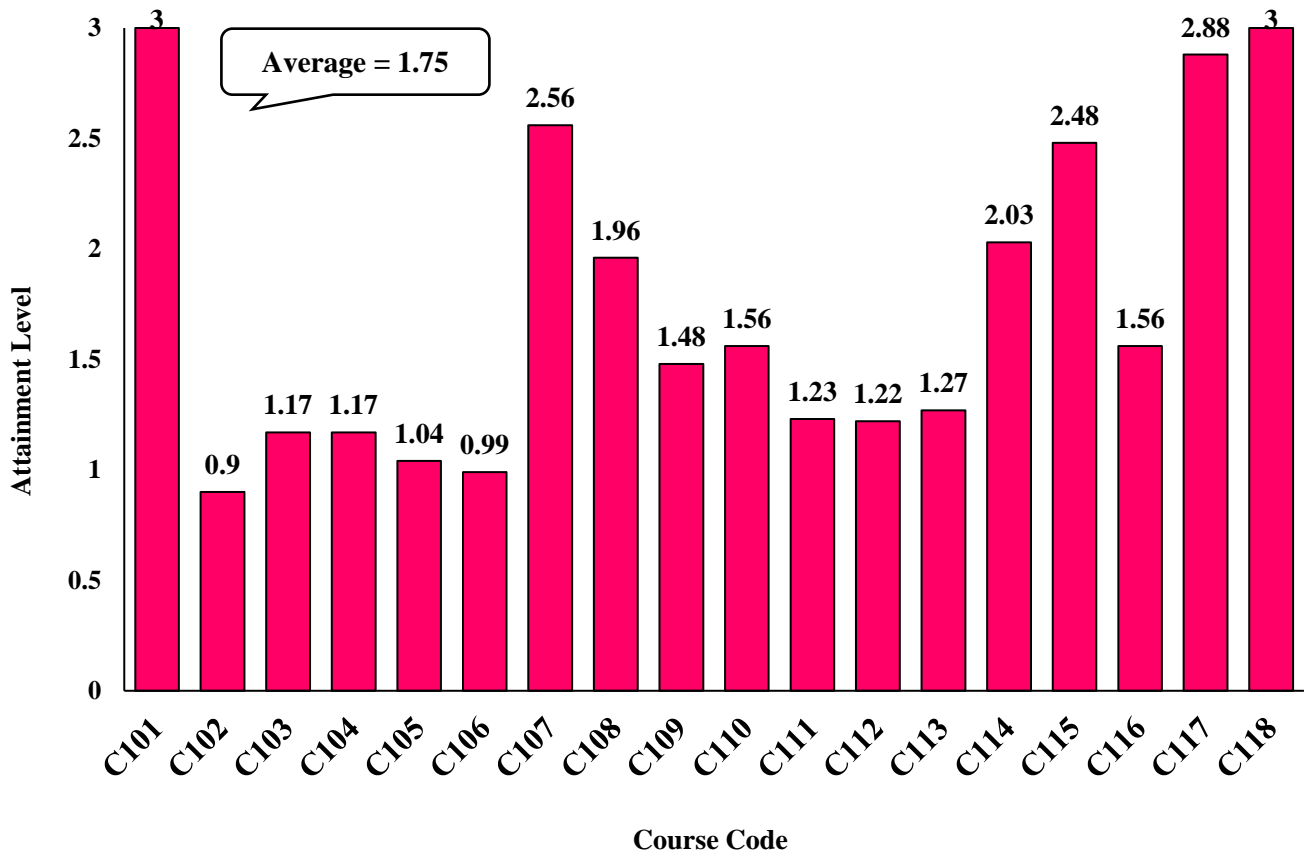
**POs Attainment Levels and Actions for improvement – CAY (2014 – 2018 batch)**

<b>POs</b>	<b>Target Level</b>	<b>Attainment Level</b>	<b>Observations</b>
<b>PO1: Engineering knowledge:</b> Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
<b>PO1</b>	3	1.96	Poor performance in Anna University examination in first year and third year observed.
<b>Action 1:</b> Remedial classes are planned for students failed in Internal test. Special Coaching classes are planned for first year students. <b>Action 2:</b> Students counseling planned. <b>Action 3:</b> Additional classes are planned for Digital Logic circuits. <b>Action 4:</b> Answering Techniques in University examination is to be stressed. <b>Action 5:</b> Assignments satisfying different learning level is planned. <b>Action 6:</b> Bridge courses are planned.			
<b>PO2: Problem analysis:</b> Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
<b>PO2</b>	3	1.92	Poor performance in Anna University examination in first year and third year observed.
<b>Action 1:</b> Remedial classes are planned for students failed in internal test. <b>Action 2:</b> Workshop on Digital Logic Circuits and Linear Integrated Circuits are planned. <b>Action 3:</b> Special classes are planned for problematic subjects.			
<b>PO3: Design/development of solutions:</b> Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
<b>PO3</b>	3	2.16	Attainment is Marginal
<b>Action 1:</b> Remedial classes are planned for poor students.			
<b>PO4: Conduct investigations of complex problems:</b> Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
<b>PO4</b>	3	2.12	Attainment is marginal
---			
<b>PO5: Modern tool usage:</b> Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.			
<b>PO5</b>	3	2.14	Attainment is marginal.
<b>Action 1:</b> Quizzes and Seminars are planned <b>Action 2:</b> Mini Project contest is planned <b>Action 3:</b> Content beyond experiment using modern tool / technique is planned in the laboratory.			
<b>PO6 : The engineer and society:</b> Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
<b>PO6</b>	3	1.93	Attainment is slightly low. Need to provide more workshops and seminars.
<b>Action 1:</b> Mini Project contest, Paper publication in seminar and conferences.			

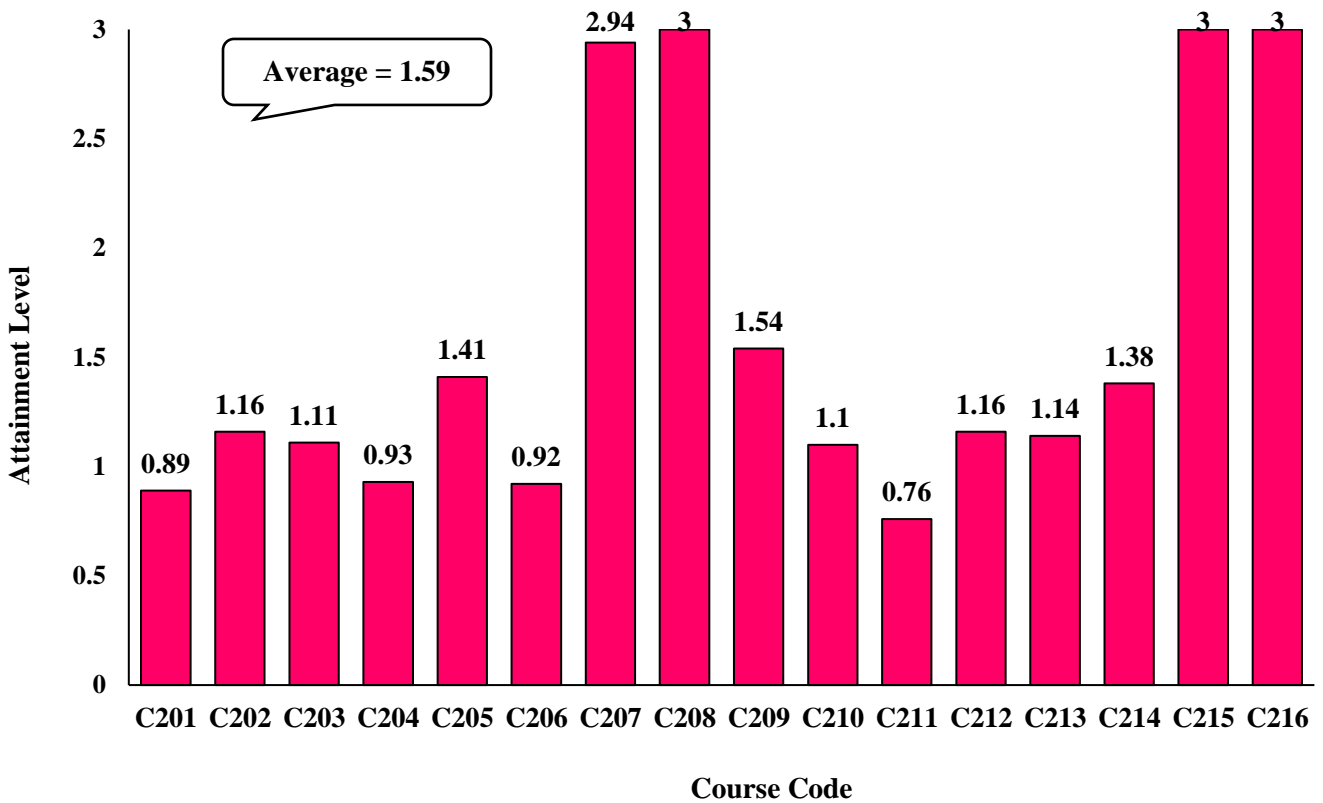
<b>PO7: Environment and sustainability:</b> Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.			
<b>PO7</b>	3	1.96	Attainment is marginal
----			
<b>PO8: Ethics:</b> Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
<b>PO8</b>	3	2.18	Attainment is marginal
----			
<b>PO9: Individual and team work:</b> Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
<b>PO9</b>	3	2.56	Attainment is marginal
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<b>PO10 : Communication:</b> Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			
<b>PO10</b>	3	2.38	Attainment is marginal
----			
<b>PO11 : Project management and finance:</b> Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			
<b>PO11</b>	3	2.16	Attainment is marginal
---			
<b>PO12: Life-long learning:</b> Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.			
<b>PO12</b>	3	1.94	Attainment is marginal
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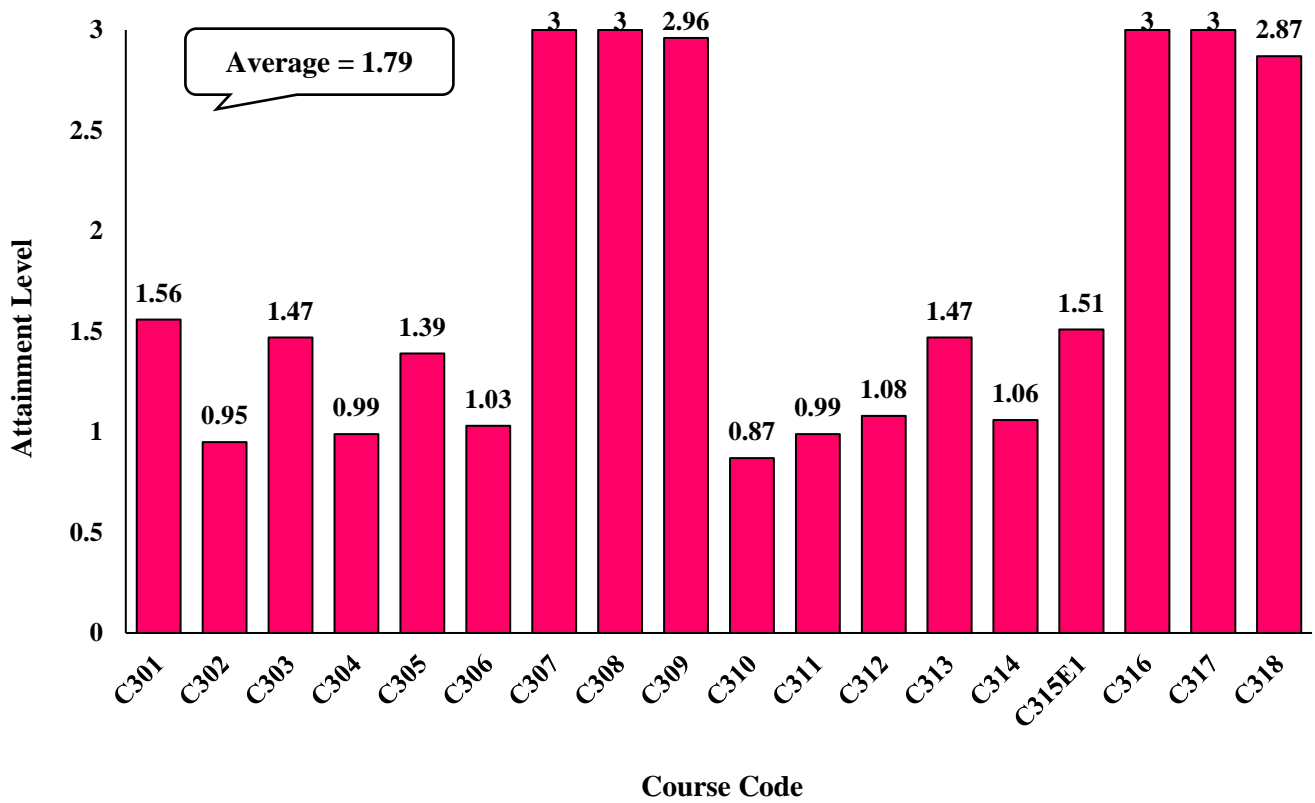
**Graph 1: CO Attainment – First Year (2014 – 2018 Batch)**



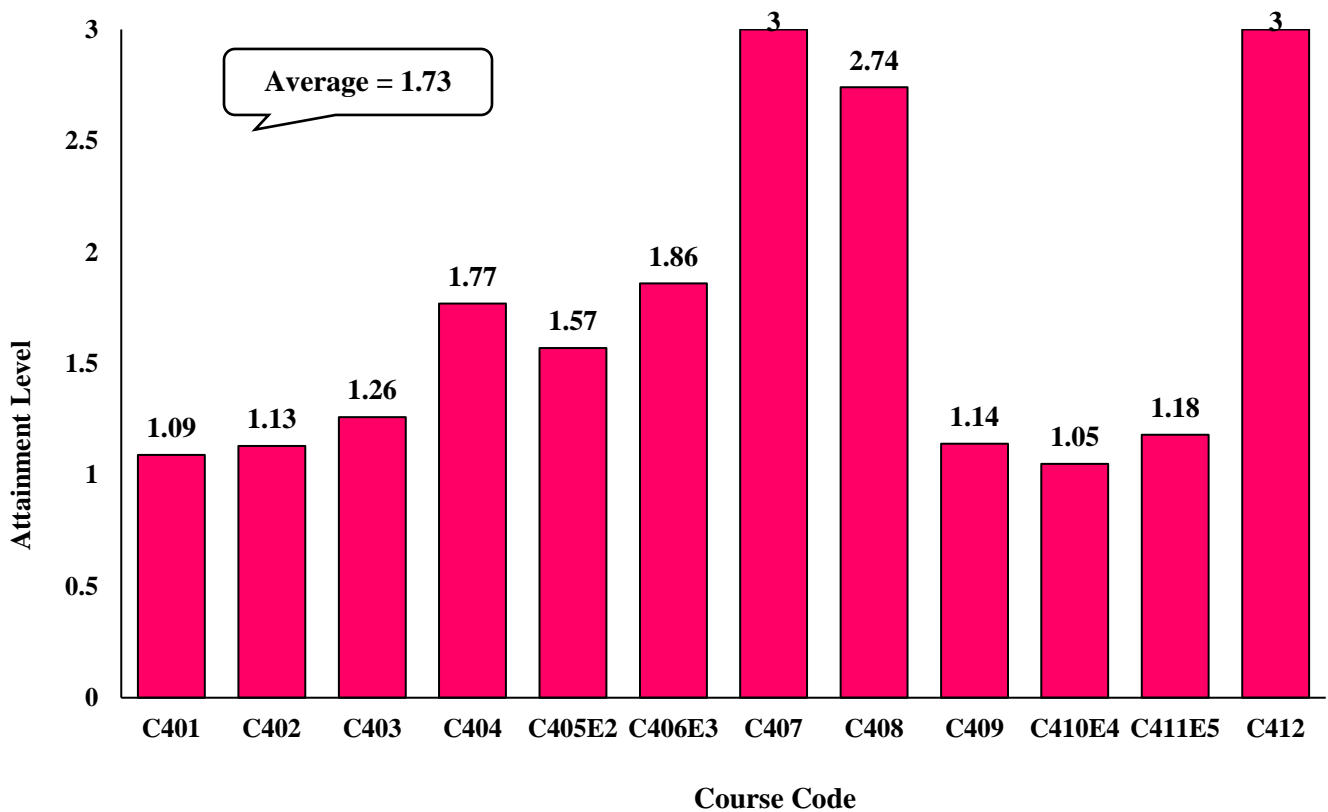
**Graph 2: CO Attainment – Second Year (2014 – 2018 Batch)**



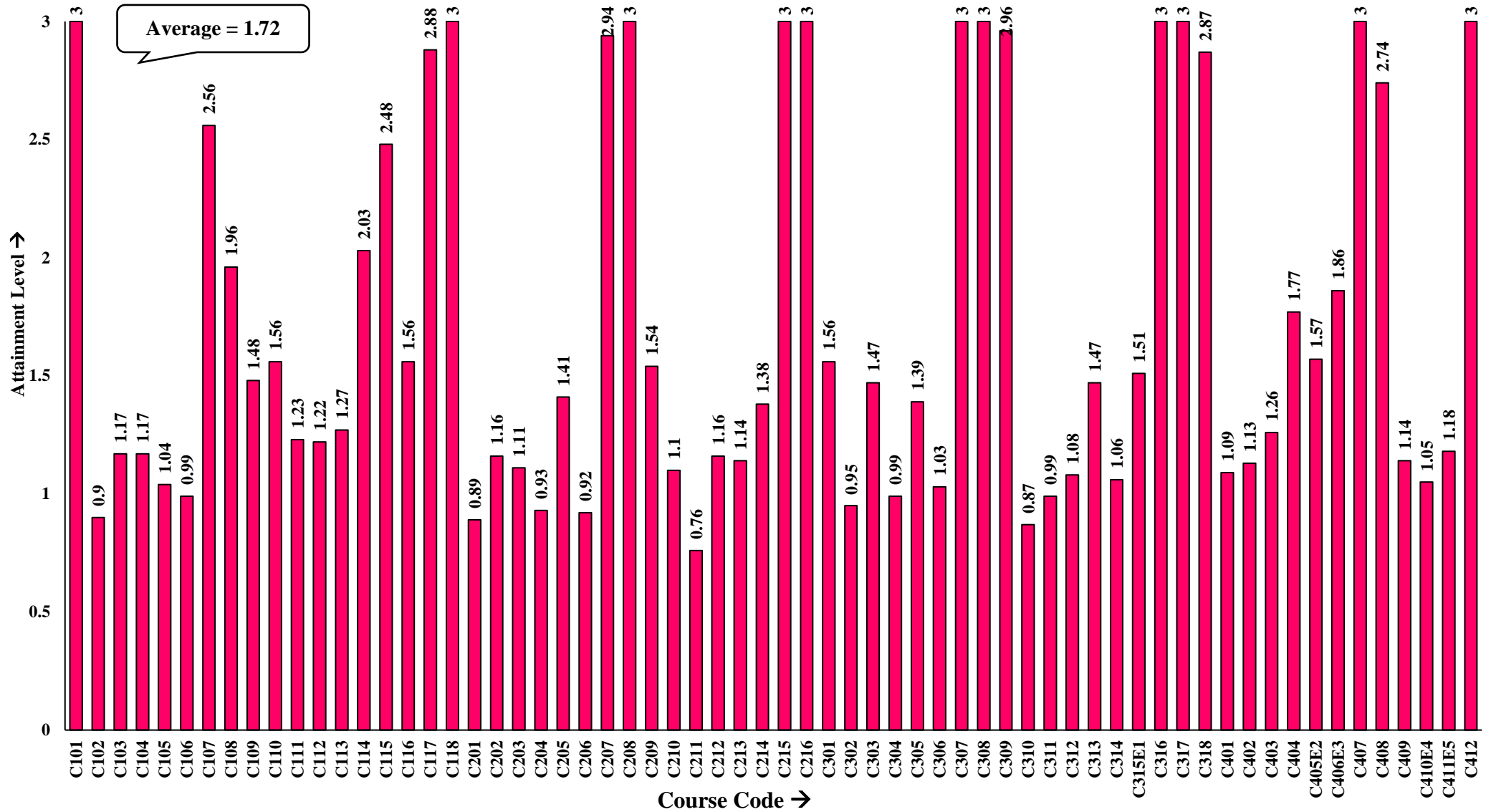
**Graph 3: CO Attainment – Third Year (2014 – 2018 Batch)**



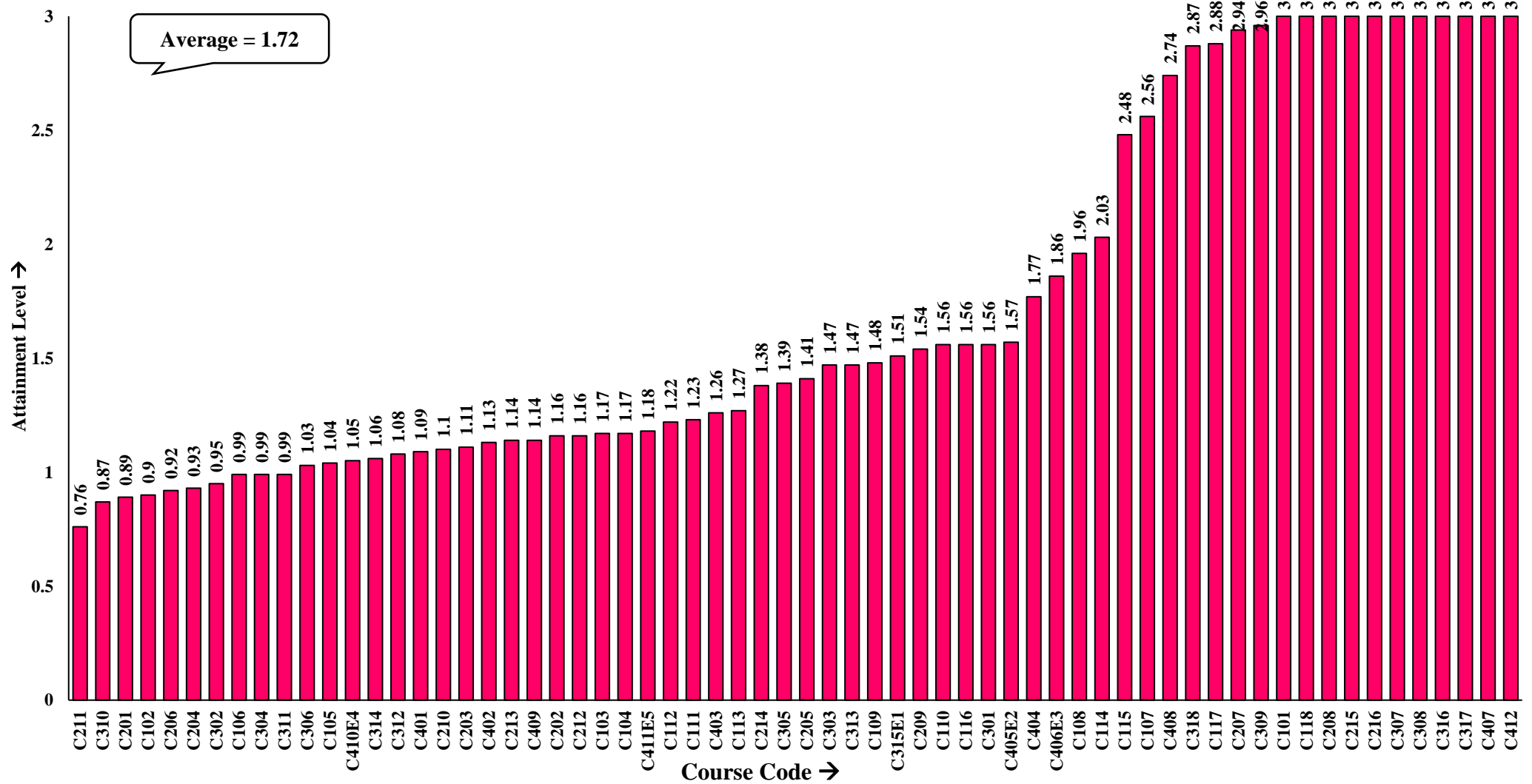
**Graph 4: CO Attainment – Final Year (2014 – 2018 Batch)**



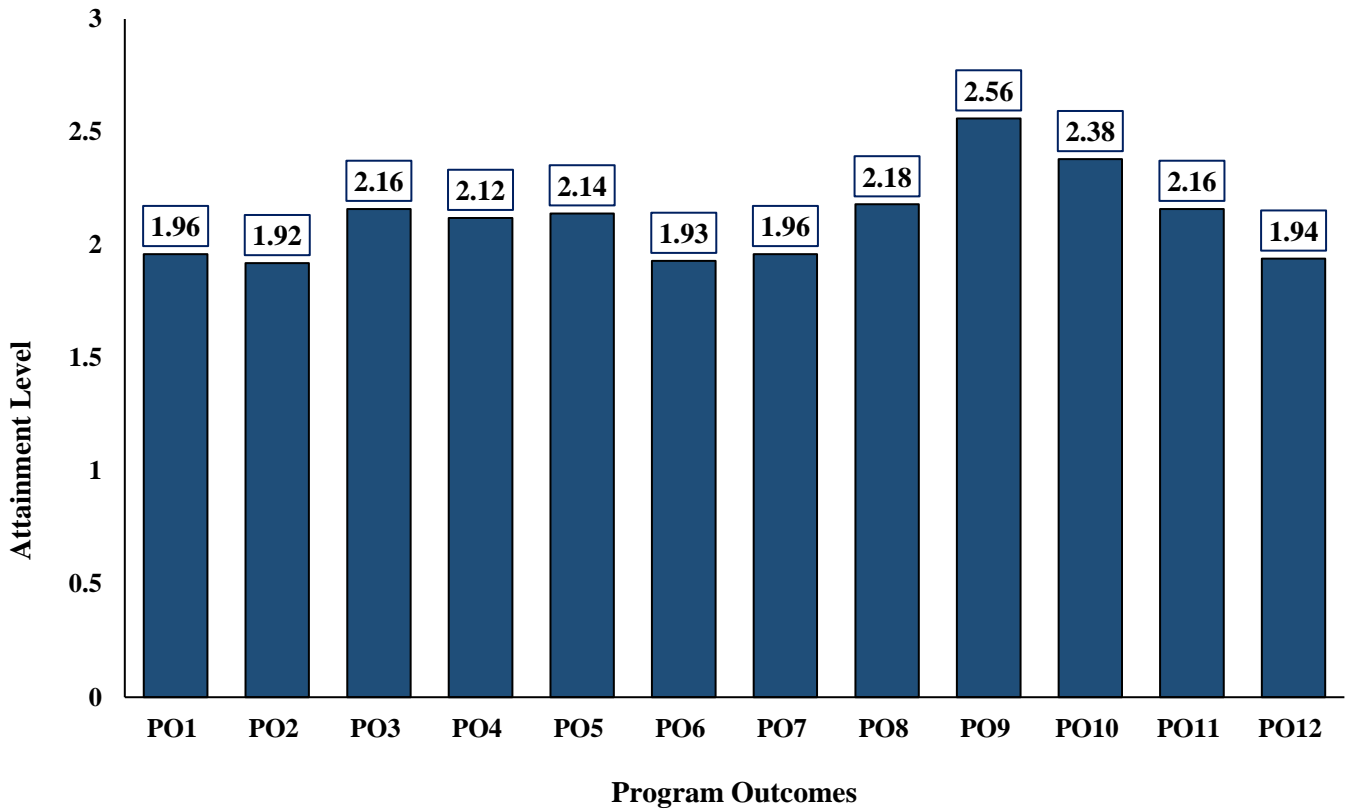
**Graph 5: CO Attainment – Consolidated (2014 – 2018 Batch)**



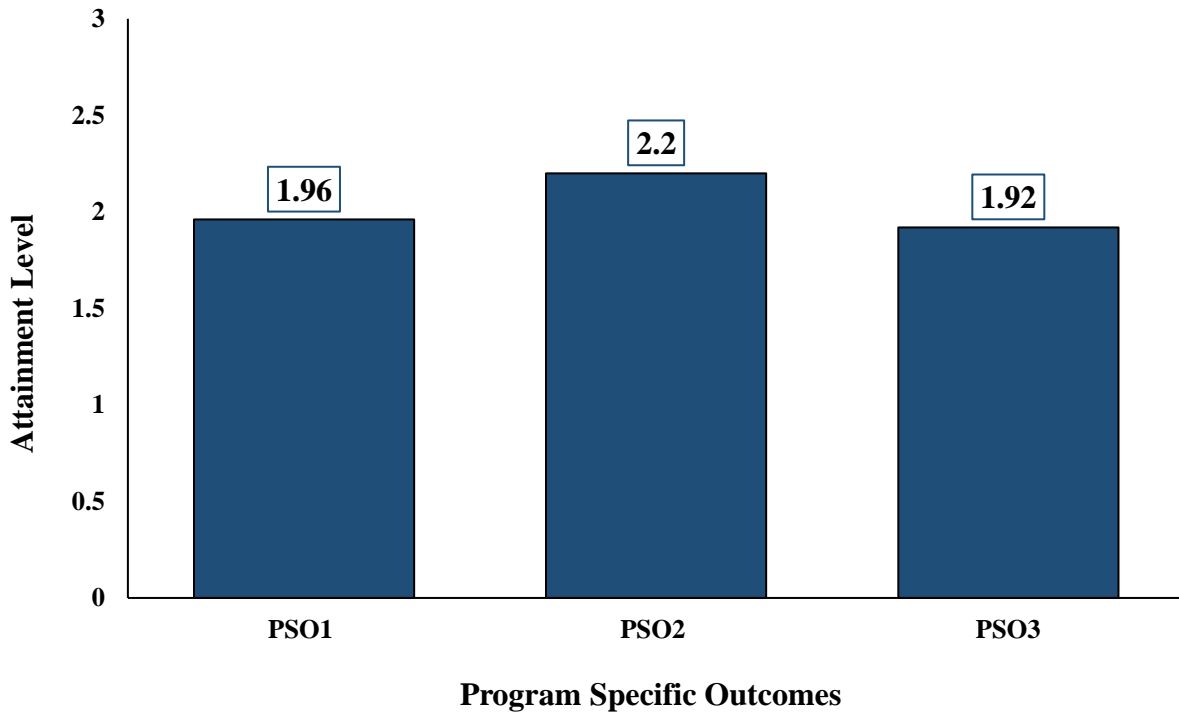
**Graph 6: CO Attainment – Consolidated - Ascending (2014 – 2018 Batch)**



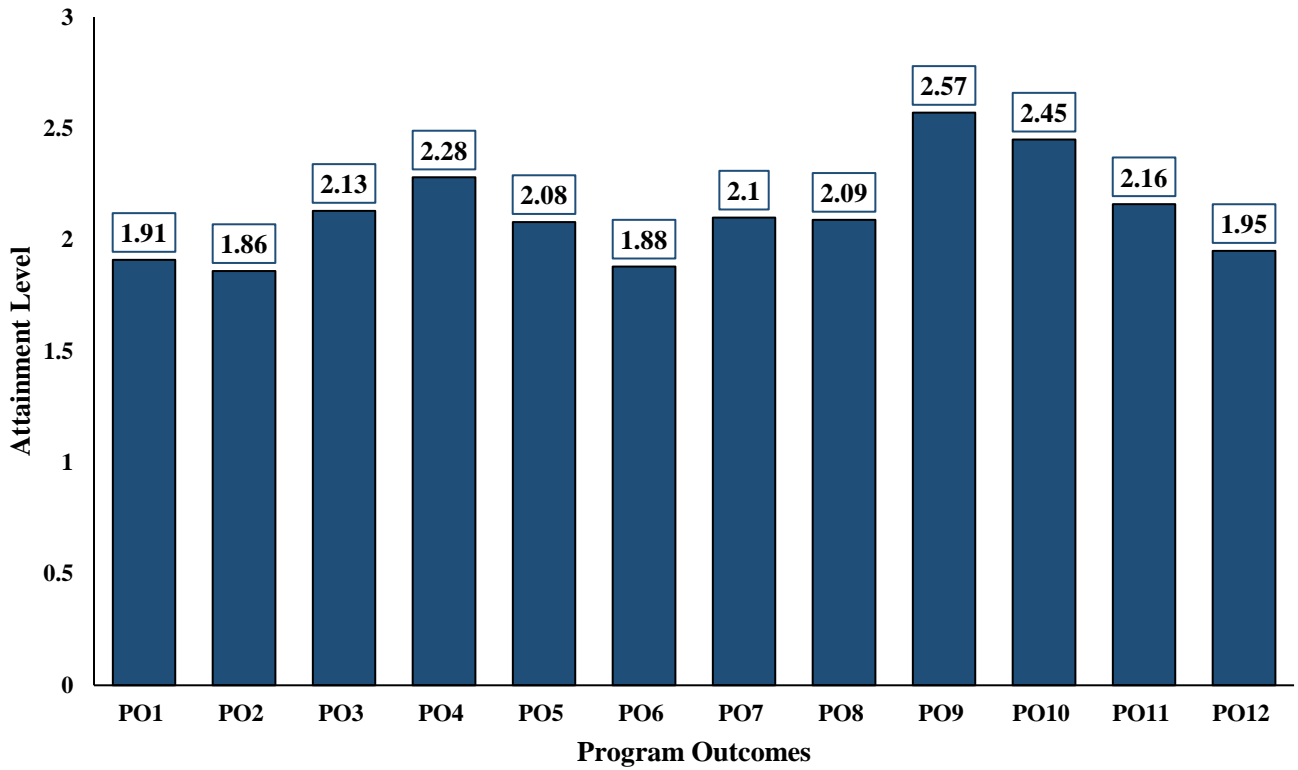
**Graph 7: PO Attainment – Without Weightage (2014 – 2018 Batch)**



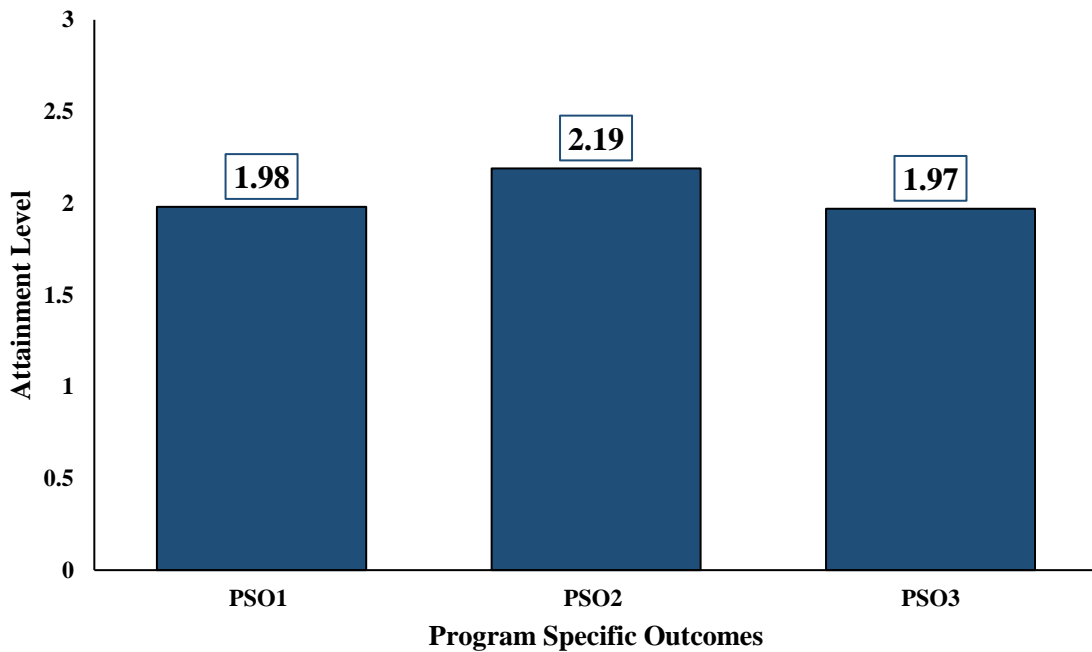
**Graph 8: PSO Attainment – Without Weightage (2014 – 2018 Batch)**



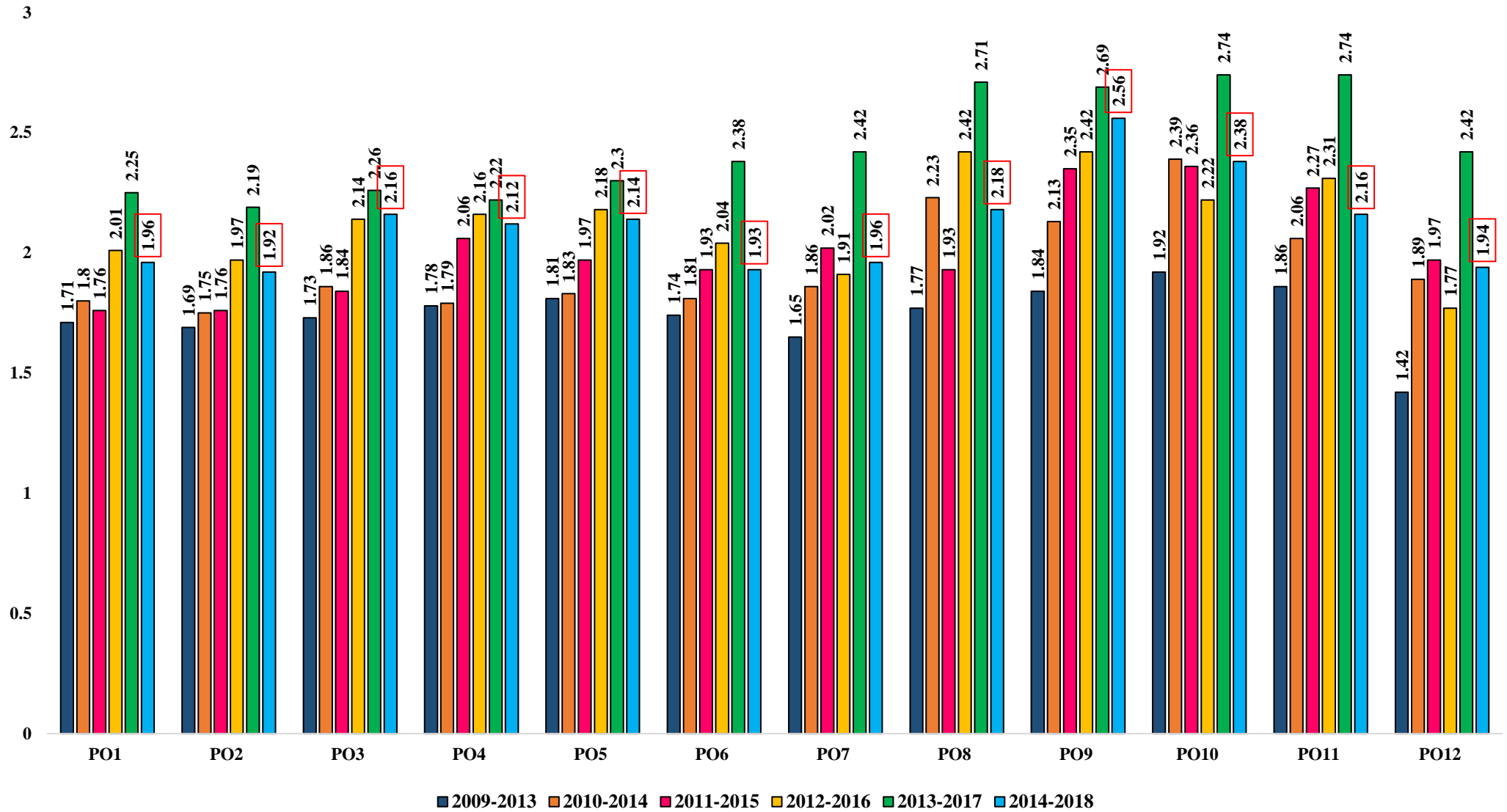
**Graph 9: PO Attainment – With Weightage (2014 – 2018 Batch)**



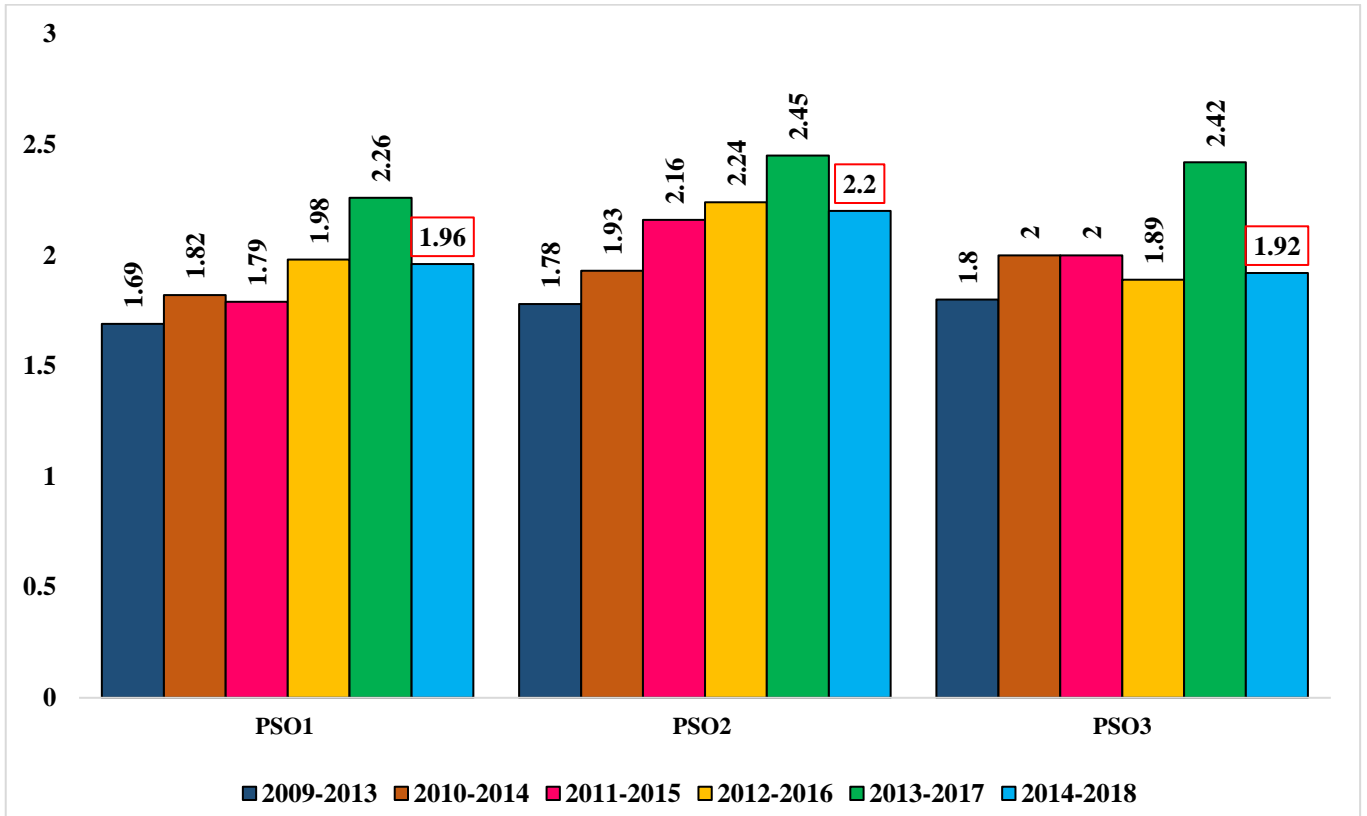
**Graph 10: PSO Attainment – With Weightage (2014 – 2018 Batch)**



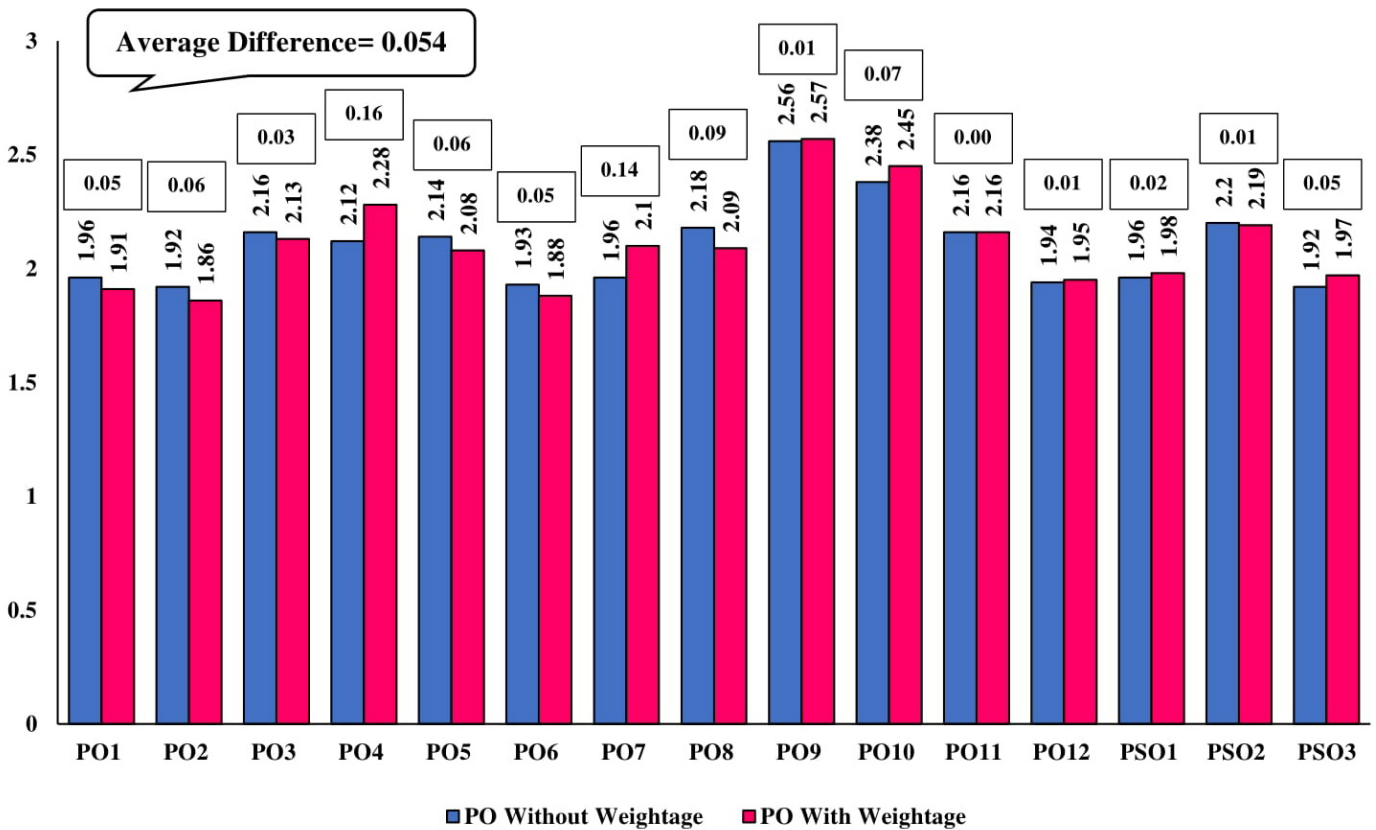
**Graph 11: PO Attainment – Comparison**



**Graph 12: PSO Attainment – Comparison**



**Graph 13: PO, PSO Attainment – With and Without Weightage Comparison**





**KLNCE/B.E - EEE – 2014-2018 Batch – Course: HS6151 Technical English -I: C101**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignments			AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	142009	73	73	89	89	87	95	95	100	70
2	142308	78	78	91	91	88	100	90	90	70
3	142022	70	70	70	70	69	95	100	100	70
4	142112	81	81	92	92	87	100	95	95	80
5	142070	89	89	86	86	78	100	100	95	70
6	142306	73	73	77	77	75	100	90	95	50
7	142063	79	79	78	78	92	100	100	90	50
8	142301	80	80	94	94	70	95	95	95	90
9	142034	86	86	90	90	85	100	95	100	80
10	142040	74	74	79	79	68	100	100	95	50
11	142071	72	72	89	89	85	100	95	100	70
12	142101	89	89	91	91	78	100	95	90	80
13	142017	70	70	A	A	81	95	95	95	70
14	142045	78	78	91	91	71	95	95	100	80
15	142302	81	81	74	74	79	95	90	100	70
16	142072	80	80	81	81	70	100	95	100	60
17	142111	86	86	92	92	73	95	100	95	70
18	142059	83	83	81	81	71	100	90	95	70
19	142050	77	77	73	73	69	95	95	100	80
20	142309	84	84	93	93	89	100	95	90	80
21	142056	76	76	82	82	79	95	100	95	80
22	142058	79	79	72	72	67	100	100	95	70
23	142004	90	90	94	94	92	100	100	100	80
24	142106	76	76	70	70	77	100	100	90	50
25	142104	72	72	75	75	73	100	100	95	70
26	142011	78	78	90	90	85	95	100	100	70
27	142041	77	77	93	93	83	100	100	100	80
28	142024	80	80	89	89	82	100	95	100	80
29	142026	80	80	75	75	82	100	90	100	60
30	142008	89	89	97	97	90	95	100	100	90
31	142038	77	77	97	97	92	100	100	100	90
32	142032	77	77	95	95	71	100	90	100	80
33	142001	79	79	81	81	70	100	100	100	70
34	142012	79	79	92	92	81	100	95	100	90
35	142057	80	80	94	94	84	100	100	100	70
36	142035	78	78	A	A	90	100	95	100	70
37	142047	79	79	94	94	90	100	90	100	80
38	142108	88	88	89	89	81	100	100	90	80
39	142013	72	72	91	91	82	100	95	100	70
40	142036	87	87	94	94	89	100	95	95	80
41	142067	79	79	86	86	88	100	100	95	80
42	142031	70	70	91	91	80	95	90	100	50
43	142074	71	71	72	72	69	100	95	100	80
44	142044	80	80	94	94	88	100	100	95	50

45	142107	72	72	76	76	80	100	95	90	70
46	142029	73	73	74	74	72	100	95	100	70
47	142016	88	88	93	93	92	95	100	100	70
48	142051	72	72	86	86	76	95	95	100	60
49	142110	75	75	74	74	70	95	100	95	70
50	142066	79	79	80	80	79	100	100	95	70
51	142073	78	78	85	85	72	100	100	100	70
52	142027	71	71	76	76	73	100	100	100	70
53	142030	91	91	93	93	88	100	90	100	80
54	142061	75	75	91	91	80	100	100	95	70
55	142037	90	90	90	90	90	100	95	95	70
56	142064	82	82	92	92	94	100	100	90	80
57	142010	87	87	91	91	89	100	95	100	80
58	142025	70	70	84	84	78	100	95	95	70
59	142303	74	74	89	89	82	95	100	100	70
60	142039	85	85	94	94	90	100	100	95	90
61	142020	76	76	92	92	90	95	100	95	80
62	142028	70	70	90	90	90	100	95	100	80
63	142042	70	70	78	78	80	95	90	100	50
64	142048	76	76	90	90	86	100	90	100	80
65	142003	89	89	96	96	93	100	100	100	70
66	142068	70	70	84	84	75	100	100	95	80
67	142053	74	74	78	78	75	95	95	100	50
68	142007	82	82	89	89	86	100	100	100	70
69	142305	76	76	80	80	94	100	95	100	80
70	142307	80	80	87	87	78	100	90	95	80
71	142023	76	76	80	80	80	100	100	100	70
72	142055	80	80	89	89	90	95	100	95	70
73	142046	70	70	75	75	78	100	95	100	0
74	142052	75	75	83	83	81	100	95	100	70
75	142103	80	80	78	78	80	95	95	100	80
76	142021	86	86	94	94	91	95	100	95	80
77	142018	70	70	75	75	75	100	100	95	80
78	142043	81	81	82	82	89	95	95	100	80
79	142065	70	70	78	78	78	95	100	90	50
80	142060	70	70	78	78	79	100	95	100	70
81	142006	80	80	93	93	91	100	100	95	70
82	142304	70	70	76	76	76	95	95	100	70
83	142014	84	84	89	89	90	100	95	100	70
84	142015	90	90	92	92	88	95	95	100	80
85	142069	70	70	70	70	75	100	100	95	60
86	142054	70	70	70	70	75	95	95	100	50
87	142062	87	87	90	90	88	100	100	95	80
88	142019	75	75	86	86	89	95	95	100	70
89	142005	90	90	88	88	89	100	100	100	80
90	142033	93	93	96	96	95	100	95	100	90
91	142105	81	81	87	87	75	95	95	95	70
92	142002	91	91	94	94	93	100	100	100	80
93	142102	77	77	88	88	90	95	95	95	80
94	142311	88	88	92	92	95	100	95	95	70

95	142310	86	86	95	95	92	100	95	90	80
96	142109	70	70	83	83	75	95	100	95	80

<b>Benchmark: % of Students secured <math>\geq 60</math> marks in CITs, <math>\geq 80</math> in assignment and <math>\geq C(7)</math> grade in AU</b>									
Total: 96	CIT					Assignments			CIT
	CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	96	96	94	94	96	96	96	96	81
%	100%	100%	100%	100%	100%	100%	100%	100%	84.38%
Level Obtained	3	3	3	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

Survey	C101.1	C101.2	C101.3	C101.4	C101.5
Obtained %	85.59	87.06	82.45	83.71	82.53
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C101:**

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C101.1	3	3	3	3	3	3	3
C101.2	3	3	3	3	3	3	3
C101.3	3	3	3	3	3	3	3
C101.4	3	3	3	3	3	3	3
C101.5	3	3	3	3	3	3	3
<b>C101</b>							<b>3</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C101.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C101.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C101.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C101.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C101.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C101 = \frac{C101.1 + C101.2 + C101.3 + C101.4 + C101.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: MA6151 Mathematics -I: C102**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment		AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	
1	142009	83	83	86	86	100	100	100	80
2	142308	39	39	43	43	76	100	100	50
3	142022	67	67	30	30	88	100	100	50
4	142112	50	50	61	61	100	100	100	50
5	142070	27	27	21	21	52	100	100	50
6	142306	11	11	10	10	84	100	100	50
7	142063	50	50	8	8	76	100	100	50
8	142301	81	81	77	77	92	100	100	50
9	142034	77	77	56	56	92	100	100	50
10	142040	85	85	56	56	88	100	100	60
11	142071	53	53	25	25	58	100	100	50
12	142101	70	70	39	39	90	100	100	60
13	142017	57	57	33	33	86	100	100	50
14	142045	79	79	67	67	84	100	100	50
15	142302	53	53	35	35	84	100	100	50
16	142072	43	43	46	46	50	100	100	50
17	142111	39	39	11	11	64	100	100	50
18	142059	65	65	75	75	92	100	100	50
19	142050	74	74	58	58	86	100	100	50
20	142309	69	69	66	66	88	100	100	50
21	142056	73	73	40	40	84	100	100	50
22	142058	31	31	37	37	86	100	100	50
23	142004	52	52	66	66	96	100	100	70
24	142106	53	53	14	14	70	100	100	50
25	142104	33	33	19	19	84	100	100	50
26	142011	81	81	87	87	100	100	100	50
27	142041	91	91	67	67	100	100	100	90
28	142024	91	91	76	76	64	100	100	50
29	142026	95	95	58	58	86	100	100	80
30	142008	99	99	95	95	100	100	100	100
31	142038	64	64	60	60	100	100	100	70
32	142032	98	98	79	79	100	100	100	50
33	142001	89	89	100	100	88	100	100	90
34	142012	88	88	88	88	64	100	100	70
35	142057	89	89	A	A	98	100	100	80
36	142035	76	76	50	50	92	100	100	50
37	142047	86	86	77	77	100	100	100	50
38	142108	50	50	60	60	100	100	100	50
39	142013	100	100	83	83	92	100	100	70
40	142036	76	76	72	72	88	100	100	50
41	142067	66	66	73	73	72	100	100	70
42	142031	75	75	83	83	72	100	100	50
43	142074	39	39	33	33	90	100	100	80
44	142044	87	87	80	80	76	100	100	50

45	142107	55	55	52	52	100	100	100	70
46	142029	84	84	74	74	62	100	100	70
47	142016	99	99	66	66	98	100	100	60
48	142051	96	96	76	76	100	100	100	50
49	142110	40	40	1	1	46	100	100	60
50	142066	59	59	65	65	84	100	100	50
51	142073	56	56	44	44	54	100	100	50
52	142027	73	73	51	51	78	100	100	50
53	142030	52	52	83	83	100	100	100	60
54	142061	50	50	6	6	80	100	100	0
55	142037	72	72	91	91	100	100	100	70
56	142064	50	50	35	35	100	100	100	50
57	142010	70	70	78	78	48	100	100	50
58	142025	84	84	60	60	80	100	100	70
59	142303	56	56	78	78	100	100	100	50
60	142039	80	80	93	93	88	100	100	70
61	142020	78	78	79	79	92	100	100	60
62	142028	92	92	51	51	100	100	100	80
63	142042	62	62	94	94	100	100	100	70
64	142048	58	58	89	89	84	100	100	50
65	142003	90	90	93	93	96	100	100	90
66	142068	50	50	35	35	40	100	100	50
67	142053	30	30	66	66	48	100	100	50
68	142007	40	40	74	74	80	100	100	50
69	142305	44	44	65	65	100	100	100	50
70	142307	70	70	25	25	92	100	100	50
71	142023	62	62	50	50	88	100	100	50
72	142055	86	86	80	80	92	100	100	70
73	142046	38	38	31	31	32	100	100	0
74	142052	50	50	93	93	48	100	100	50
75	142103	50	50	63	63	68	100	100	50
76	142021	84	84	68	68	92	100	100	50
77	142018	62	62	50	50	72	100	100	50
78	142043	74	74	72	72	76	100	100	50
79	142065	24	24	50	50	48	100	100	50
80	142060	32	32	50	50	84	100	100	50
81	142006	88	88	92	92	100	100	100	70
82	142304	6	6	29	29	48	100	100	50
83	142014	66	66	64	64	56	100	100	50
84	142015	98	98	99	99	92	100	100	80
85	142069	18	18	19	19	84	100	100	50
86	142054	42	42	20	20	80	100	100	50
87	142062	30	30	51	51	88	100	100	50
88	142019	54	54	50	50	96	100	100	50
89	142005	68	68	86	86	52	100	100	80
90	142033	78	78	84	84	92	100	100	70
91	142105	22	22	A	A	88	100	100	50
92	142002	84	84	94	94	100	100	100	60
93	142102	66	66	50	50	76	100	100	50
94	142311	52	52	50	50	92	100	100	50

95	142310	50	50	50	50	80	100	100	50
96	142109	14	14	38	38	84	100	100	50

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment and $\geq C(7)$ grade in AU								
Total: 96	CIT					Assignments		AU
	CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	
Count	53	53	50	50	82	96	96	25
%	55.21%	55.21%	53.19%	53.19%	85.42%	100%	100%	26.04%
Level Obtained	0	0	0	0	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C102.1	C102.2	C102.3	C102.4	C102.5
Obtained %	90.62	77.73	78.99	81.86	78.71
Obtained Level	3	2	2	3	2
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C102:**

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C102.1	0	3	0.9	0	0.36	3	0.89
C102.2	0	3	0.9	0	0.36	2	0.69
C102.3	0	3	0.9	0	0.36	2	0.69
C102.4	0	3	0.9	0	0.36	3	0.89
C102.5	3	-	3	0	1.2	2	1.36
<b>C102</b>							<b>0.9</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C102.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C102.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C102.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C102.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C102.5	AU Exam	[1*Internal Test]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C102 = \frac{C102.1 + C102.2 + C102.3 + C102.4 + C102.5}{5} = 0.9$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: PH6151 Engineering Physics -I: C103**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	
1	142009	99	99	89	89	100	100	100	80
2	142308	71	71	58	58	72	100	100	50
3	142022	85	85	65	65	80	100	100	50
4	142112	90	90	88	88	92	100	100	50
5	142070	62	62	72	72	72	100	100	50
6	142306	13	13	14	14	44	100	100	0
7	142063	21	21	59	59	46	100	100	0
8	142301	94	94	89	89	96	100	100	70
9	142034	92	92	74	74	88	100	100	70
10	142040	89	89	72	72	72	100	100	50
11	142071	71	71	71	71	92	100	100	50
12	142101	96	96	96	96	96	80	80	70
13	142017	91	91	A	A	96	100	100	60
14	142045	86	86	89	89	88	100	100	60
15	142302	50	50	73	73	82	100	100	60
16	142072	37	37	55	55	72	100	100	0
17	142111	63	63	41	41	68	100	100	50
18	142059	90	90	88	88	90	100	100	80
19	142050	89	89	80	80	72	100	100	60
20	142309	71	71	97	97	100	100	100	70
21	142056	61	61	78	78	88	100	100	50
22	142058	47	47	24	24	78	100	100	50
23	142004	100	100	87	87	100	100	100	70
24	142106	50	50	30	30	60	100	100	50
25	142104	76	76	43	43	86	80	80	50
26	142011	90	90	96	96	98	100	100	50
27	142041	96	96	90	90	90	100	100	70
28	142024	94	94	89	89	92	100	100	70
29	142026	90	90	78	78	92	100	100	70
30	142008	83	83	100	100	100	100	100	70
31	142038	94	94	50	50	80	80	80	50
32	142032	93	93	84	84	92	80	80	50
33	142001	86	86	81	81	92	100	100	60
34	142012	83	83	90	90	92	100	100	70
35	142057	87	87	84	84	100	100	100	60
36	142035	92	92	A	A	94	100	100	50
37	142047	96	96	90	90	94	100	100	70
38	142108	45	45	68	68	66	100	100	50
39	142013	89	89	78	78	80	100	100	60
40	142036	81	81	62	62	100	100	100	50
41	142067	86	86	86	86	86	80	80	70
42	142031	89	89	82	82	88	100	100	50
43	142074	57	57	64	64	78	100	100	70
44	142044	85	85	85	85	74	100	100	50

45	142107	92	92	89	89	84	100	100	70
46	142029	86	86	79	79	86	100	100	50
47	142016	87	87	93	93	94	100	100	50
48	142051	83	83	82	82	80	100	100	50
49	142110	38	38	28	28	80	100	100	70
50	142066	84	84	84	84	96	100	100	50
51	142073	76	76	82	82	74	100	100	50
52	142027	40	40	80	80	70	80	80	50
53	142030	95	95	86	86	92	100	100	70
54	142061	88	88	57	57	58	100	100	0
55	142037	99	99	78	78	96	100	100	50
56	142064	95	95	72	72	A	100	100	50
57	142010	94	94	93	93	92	100	100	70
58	142025	85	85	73	73	70	100	100	50
59	142303	70	70	80	80	70	80	80	50
60	142039	88	88	79	79	86	100	100	60
61	142020	89	89	74	74	72	100	100	70
62	142028	77	77	56	56	78	100	100	60
63	142042	52	52	59	59	58	80	80	50
64	142048	83	83	63	63	70	80	80	50
65	142003	100	100	98	98	94	100	100	80
66	142068	94	94	79	79	70	100	100	50
67	142053	83	83	72	72	76	100	100	50
68	142007	84	84	71	71	42	100	100	70
69	142305	84	84	52	52	74	100	100	50
70	142307	90	90	60	60	80	100	100	50
71	142023	90	90	74	74	40	100	100	50
72	142055	90	90	93	93	80	100	100	60
73	142046	56	56	29	29	28	100	100	50
74	142052	90	90	53	53	84	80	80	70
75	142103	83	83	77	77	86	100	100	50
76	142021	92	92	75	75	86	100	100	70
77	142018	87	87	55	55	52	100	100	50
78	142043	87	87	83	83	52	100	100	50
79	142065	70	70	46	46	84	80	80	50
80	142060	82	82	73	73	74	100	100	50
81	142006	72	72	81	81	78	80	80	70
82	142304	68	68	40	40	32	80	80	50
83	142014	90	90	82	82	88	100	100	70
84	142015	97	97	91	91	90	100	100	70
85	142069	59	59	51	51	32	80	80	50
86	142054	42	42	42	42	32	80	80	50
87	142062	97	97	88	88	88	100	100	50
88	142019	96	96	86	86	90	100	100	50
89	142005	91	91	93	93	86	100	100	80
90	142033	96	96	97	97	84	80	80	80
91	142105	77	77	56	56	70	100	100	50
92	142002	96	96	97	97	94	100	100	60
93	142102	95	95	41	41	66	100	100	60
94	142311	82	82	77	77	88	100	100	50



95	142310	90	90	71	71	A	100	100	60
96	142109	79	79	65	65	32	100	100	70

<b>Benchmark: % of Students secured <math>\geq 60</math> marks in CITs, <math>\geq 80</math> in assignment and <math>\geq C(7)</math> grade in AU</b>								
Total: 96	CIT					Assignments		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO4	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	
Count	82	82	71	71	81	96	96	30
%	85.42%	85.42%	75.53%	75.53%	86.17%	100%	100%	31.25%
Level Obtained	3	3	2	2	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C103.1	C103.2	C103.3	C103.4	C103.5
Obtained %	85.68	76.69	66.13	63.6	60.96
Obtained Level	3	2	1	1	1
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C103:**

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C103.1	3	3	3	0	1.2	3	1.56
C103.2	3	-	3	0	1.2	2	1.36
C103.3	2	-	2	0	0.8	1	0.84
C103.4	2	3	2.3	0	0.92	1	0.94
C103.5	3	-	3	0	1.2	1	1.16
<b>C103</b>							<b>1.17</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C103.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C103.2	AU Exam	[1*Internal Test]
C103.3	AU Exam	[1*Internal Test]
C103.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C103.5	AU Exam	[1*Internal Test]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C103 = \frac{C103.1 + C103.2 + C103.3 + C103.4 + C103.5}{5} = 1.17$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: CY6151 Engineering Chemistry -I: C104**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment		AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	
1	142009	92	92	90	90	89	100	100	A
2	142308	66	66	55	55	89	100	100	E
3	142022	63	63	53	53	66	100	100	E
4	142112	74	74	60	60	60	100	80	C
5	142070	60	60	55	55	74	100	100	E
6	142306	55	55	19	19	60	100	100	E
7	142063	53	53	55	55	55	100	100	E
8	142301	93	93	84	84	53	100	100	C
9	142034	72	72	53	53	93	100	100	B
10	142040	58	58	57	57	70	100	100	C
11	142071	69	69	59	59	58	100	100	E
12	142101	89	89	92	92	69	100	100	B
13	142017	84	84	A	A	89	60	100	C
14	142045	82	82	80	80	84	100	100	E
15	142302	65	65	67	67	82	100	100	E
16	142072	54	54	50	50	62	100	100	E
17	142111	49	49	A	A	53	90	80	E
18	142059	80	80	88	88	80	100	100	B
19	142050	82	82	59	59	82	100	100	E
20	142309	77	77	78	78	67	80	100	A
21	142056	66	66	70	70	66	100	100	B
22	142058	58	58	35	35	58	100	100	E
23	142004	87	87	81	81	87	100	100	C
24	142106	48	48	35	35	55	100	80	E
25	142104	60	60	42	42	58	100	100	E
26	142011	87	87	92	92	84	100	100	C
27	142041	91	91	81	81	88	100	100	B
28	142024	75	75	66	66	75	100	100	C
29	142026	85	85	71	71	85	100	100	B
30	142008	92	92	85	85	90	100	100	B
31	142038	65	65	73	73	65	90	100	E
32	142032	90	90	86	86	90	100	100	C
33	142001	78	78	82	82	71	100	100	C
34	142012	81	81	90	90	81	100	100	C
35	142057	82	82	90	90	82	100	100	D
36	142035	80	80	A	A	79	100	100	C
37	142047	77	77	74	74	54	100	100	B
38	142108	54	54	52	52	86	100	100	E
39	142013	86	86	78	78	72	100	100	C
40	142036	72	72	80	80	86	100	100	B
41	142067	75	75	78	78	59	80	100	B
42	142031	86	86	83	83	59	60	100	E
43	142074	59	59	50	50	92	80	100	B
44	142044	92	92	80	80	71	100	100	C

45	142107	71	71	87	87	91	100	100	C
46	142029	91	91	74	74	90	90	100	B
47	142016	90	90	83	83	78	100	100	C
48	142051	77	77	75	75	65	100	100	E
49	142110	33	33	43	43	50	100	100	E
50	142066	83	83	63	63	81	100	100	D
51	142073	78	78	66	66	88	100	100	E
52	142027	68	68	66	66	51	100	60	E
53	142030	88	88	80	80	80	80	80	E
54	142061	63	63	68	68	68	60	80	C
55	142037	96	96	83	83	83	100	80	B
56	142064	82	82	79	79	79	80	60	C
57	142010	84	84	60	60	60	80	80	C
58	142025	71	71	57	57	57	80	60	E
59	142303	72	72	67	67	67	80	100	D
60	142039	76	76	78	78	78	100	100	C
61	142020	50	50	67	67	67	80	80	C
62	142028	83	83	56	56	56	100	60	E
63	142042	51	51	52	52	52	80	100	E
64	142048	69	69	56	56	56	100	100	D
65	142003	100	100	87	87	87	100	100	B
66	142068	76	76	67	67	67	80	100	E
67	142053	88	88	58	58	58	100	60	E
68	142007	50	50	50	50	50	60	80	E
69	142305	54	54	70	70	70	80	80	E
70	142307	81	81	52	52	52	100	80	C
71	142023	50	50	60	60	60	100	100	E
72	142055	83	83	94	94	94	80	60	A
73	142046	25	25	50	50	50	60	80	E
74	142052	52	52	65	65	65	80	80	D
75	142103	69	69	50	50	50	80	60	E
76	142021	93	93	62	62	62	100	100	C
77	142018	58	58	74	74	74	100	100	C
78	142043	69	69	65	65	65	80	60	E
79	142065	59	59	21	21	21	100	100	E
80	142060	64	64	73	73	73	80	100	E
81	142006	87	87	80	80	80	80	60	C
82	142304	39	39	50	50	50	60	60	E
83	142014	86	86	73	73	73	80	100	C
84	142015	100	100	86	86	86	100	100	C
85	142069	54	54	59	59	59	60	60	E
86	142054	31	31	40	40	40	80	60	E
87	142062	74	74	71	71	71	100	100	E
88	142019	98	98	60	60	60	100	100	D
89	142005	90	90	64	64	64	80	80	C
90	142033	95	95	91	91	91	100	80	D
91	142105	50	50	50	50	50	100	80	E
92	142002	86	86	89	89	89	100	100	B
93	142102	69	69	81	81	81	100	80	E
94	142311	79	79	77	77	77	80	100	D

95	142310	100	100	54	54	54	80	100	B
96	142109	50	50	29	29	29	60	60	A

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment and $\geq C(7)$ grade in AU								
<b>Total: 96</b>	<b>CIT</b>					<b>Assignments</b>		<b>AU</b>
	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>	<b>CO2</b>	<b>CO4</b>	
	<b>CIT1</b>	<b>CIT2</b>	<b>CIT3</b>	<b>CIT4</b>	<b>CIT5</b>	<b>A1</b>	<b>A2</b>	
Count	72	72	61	61	68	88	83	47
%	75%	75%	65.59%	65.59%	70.83%	91.67%	86.46%	48.96%
Level Obtained	2	2	1	1	2	3	3	0

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C104.1</b>	<b>C104.2</b>	<b>C104.3</b>	<b>C104.4</b>	<b>C104.5</b>
<b>Obtained %</b>	<b>90.4</b>	<b>87.57</b>	<b>81.85</b>	<b>83</b>	<b>80.83</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C104:**

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
<b>C104.1</b>	2	-	2	0	0.8	3	1.24
<b>C104.2</b>	2	3	2.3	0	0.92	3	1.34
<b>C104.3</b>	1	-	1	0	0.4	3	0.92
<b>C104.4</b>	1	3	1.6	0	0.64	3	1.11
<b>C104.5</b>	2	-	2	0	0.8	3	1.24
<b>C104</b>							<b>1.17</b>

**Formula for Attainment Calculations:**

CO	<b>Attainment = (0.6*AU + 0.4*IA)</b>	
	<b>External Assessment (AU)</b>	<b>Internal Assessment (IA)</b>
<b>C104.1</b>	AU Exam	[1*Internal Test]
<b>C104.2</b>	AU Exam	[0.7*Internal Test + 0.3*Assignment]
<b>C104.3</b>	AU Exam	[1*Internal Test]
<b>C104.4</b>	AU Exam	[0.7*Internal Test + 0.3*Assignment]
<b>C104.5</b>	AU Exam	[1*Internal Test]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C104 = \frac{C104.1 + C104.2 + C104.3 + C104.4 + C104.5}{5} = 1.17$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE6151 Computer Programming: C105**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	
1	142009	82	82	84	84	94	80	80	B
2	142308	50	50	60	60	70	90	90	E
3	142022	60	60	54	54	65	80	80	E
4	142112	50	50	64	64	96	90	90	E
5	142070	24	24	50	50	70	80	90	E
6	142306	28	28	26	26	13	70	80	E
7	142063	12	12	50	50	50	90	90	E
8	142301	70	70	88	88	85	90	90	D
9	142034	50	50	68	68	85	90	90	D
10	142040	28	28	64	64	60	90	90	C
11	142071	26	26	50	50	80	90	80	E
12	142101	74	74	70	70	88	90	90	C
13	142017	66	66	80	80	87	90	90	E
14	142045	66	66	70	70	90	90	90	E
15	142302	38	38	56	56	70	90	90	E
16	142072	30	30	82	82	35	90	80	E
17	142111	50	50	64	64	54	90	90	E
18	142059	60	60	80	80	80	90	90	D
19	142050	60	60	50	50	85	90	90	E
20	142309	82	82	82	82	90	90	80	D
21	142056	64	64	50	50	80	90	90	E
22	142058	10	10	36	36	60	80	90	E
23	142004	66	66	92	92	93	90	90	D
24	142106	26	26	60	60	60	90	90	D
25	142104	28	28	50	50	65	80	90	E
26	142011	74	74	88	88	86	80	90	E
27	142041	80	80	62	62	76	70	90	C
28	142024	68	68	94	94	86	80	70	B
29	142026	76	76	82	82	88	90	90	E
30	142008	88	88	96	96	98	80	90	C
31	142038	32	32	70	70	65	90	90	D
32	142032	62	62	86	86	80	90	90	C
33	142001	76	76	94	94	94	80	80	D
34	142012	76	76	100	100	92	70	80	C
35	142057	60	60	86	86	86	90	90	E
36	142035	50	50	40	40	85	90	90	E
37	142047	56	56	94	94	80	90	90	C
38	142108	50	50	70	70	77	90	90	E
39	142013	77	77	72	72	88	90	90	E
40	142036	62	62	58	58	86	90	90	D
41	142067	50	50	82	82	87	90	90	D
42	142031	70	70	94	94	80	90	90	C
43	142074	50	50	60	60	50	70	90	D
44	142044	64	64	92	92	94	90	90	C

45	142107	68	68	60	60	80	90	90	E
46	142029	84	84	78	78	89	90	90	D
47	142016	66	66	74	74	72	80	80	C
48	142051	80	80	84	84	86	80	70	E
49	142110	50	50	50	50	60	70	90	D
50	142066	70	70	82	82	75	90	90	E
51	142073	60	60	76	76	A	90	90	E
52	142027	50	50	64	64	55	90	90	D
53	142030	68	68	83	83	86	100	100	C
54	142061	51	51	50	50	75	100	100	E
55	142037	84	84	78	78	A	100	100	B
56	142064	52	52	73	73	92	100	100	E
57	142010	50	50	63	63	80	100	100	D
58	142025	50	50	52	52	85	100	100	E
59	142303	53	53	66	66	92	100	100	E
60	142039	70	70	74	74	88	100	100	C
61	142020	77	77	68	68	90	100	100	B
62	142028	70	70	80	80	90	100	100	B
63	142042	24	24	31	31	75	100	100	E
64	142048	59	59	77	77	90	100	100	A
65	142003	88	88	93	93	92	100	100	B
66	142068	50	50	50	50	87	100	100	D
67	142053	50	50	62	62	87	100	100	D
68	142007	52	52	62	62	85	100	100	B
69	142305	50	50	73	73	89	100	100	C
70	142307	50	50	61	61	88	100	100	E
71	142023	50	50	50	50	87	100	100	E
72	142055	66	66	71	71	95	100	100	D
73	142046	18	18	21	21	80	100	100	UA
74	142052	28	28	74	74	91	100	100	E
75	142103	68	68	59	59	86	100	100	D
76	142021	50	50	77	77	90	100	100	E
77	142018	61	61	60	60	93	100	100	E
78	142043	31	31	52	52	90	100	100	E
79	142065	30	30	30	30	86	100	100	E
80	142060	50	50	62	62	92	100	100	D
81	142006	86	86	80	80	98	100	100	C
82	142304	22	22	31	31	85	100	100	E
83	142014	50	50	64	64	90	100	100	E
84	142015	81	81	91	91	93	100	100	B
85	142069	28	28	23	23	85	100	100	E
86	142054	14	14	17	17	85	100	100	E
87	142062	50	50	62	62	92	100	100	D
88	142019	50	50	59	59	91	100	100	E
89	142005	51	51	69	69	95	100	100	D
90	142033	82	82	93	93	97	100	100	C
91	142105	50	50	A	A	88	100	100	E
92	142002	86	86	87	87	97	100	100	C
93	142102	59	59	66	66	95	100	100	E
94	142311	64	64	58	58	91	100	100	E

95	142310	52	52	60	60	93	100	100	E
96	142109	31	31	51	51	91	100	100	D

<b>Benchmark: % of Students secured <math>\geq 60</math> marks in CITs, <math>\geq 80</math> in assignment and <math>\geq C(7)</math> grade in AU</b>								
Total: 96	CIT					Assignments		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	
Count	44	44	67	67	88	91	94	25
%	45.83%	45.83%	70.53%	70.53%	93.62%	94.79%	97.92%	26.04%
Level Obtained	0	0	2	2	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C105.1	C105.2	C105.3	C105.4	C105.5
Obtained %	87.53	80.71	77.21	78.54	74
Obtained Level	3	3	2	2	2
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C105:**

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C105.1	0	3	0.9	0	0.36	3	0.89
C105.2	0	3	0.9	0	0.36	3	0.89
C105.3	2	-	2	0	0.8	2	1.04
C105.4	2	-	2	0	0.8	2	1.04
C105.5	3	-	3	0	1.2	2	1.36
<b>C105</b>							<b>1.04</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C105.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C105.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C105.3	AU Exam	[1*Internal Test]
C105.4	AU Exam	[1*Internal Test]
C105.5	AU Exam	[1*Internal Test]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C105 = \frac{C105.1 + C105.2 + C105.3 + C105.4 + C105.5}{5} = 1.04$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE6152 Engineering Graphics: C106**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	
1	142009	72	72	72	72	82	100	100	100	100	100	A
2	142308	66	66	8	8	43	100	100	100	80	70	D
3	142022	82	82	50	50	50	100	100	100	100	100	C
4	142112	92	92	60	60	60	100	100	100	100	100	C
5	142070	52	52	4	4	19	100	100	80	80	70	E
6	142306	54	54	4	4	0	100	100	100	80	60	D
7	142063	26	26	12	12	14	70	70	100	80	60	E
8	142301	64	64	52	52	42	100	100	100	100	100	C
9	142034	70	70	28	28	50	100	100	100	100	100	D
10	142040	58	58	50	50	50	100	100	100	100	90	E
11	142071	72	72	12	12	23	100	100	100	100	90	E
12	142101	78	78	20	20	42	100	100	100	100	100	C
13	142017	56	56	36	36	57	100	100	90	100	80	C
14	142045	60	60	34	34	41	100	100	100	100	100	A
15	142302	60	60	60	60	38	100	100	100	80	80	E
16	142072	8	8	82	82	48	60	70	70	100	100	E
17	142111	32	32	22	22	32	100	100	100	100	100	E
18	142059	50	50	62	62	85	100	100	100	70	70	C
19	142050	60	60	74	74	50	100	100	100	100	100	C
20	142309	60	60	54	54	24	100	100	100	100	100	D
21	142056	44	44	74	74	56	100	70	100	100	100	E
22	142058	38	38	54	54	45	100	80	100	100	100	C
23	142004	86	86	64	64	55	100	100	100	100	100	C
24	142106	88	88	56	56	70	100	100	100	100	100	C
25	142104	60	60	4	4	31	100	100	100	100	100	E
26	142011	78	78	62	62	54	100	100	100	100	100	D
27	142041	94	94	58	58	80	100	100	100	100	100	B
28	142024	84	84	54	54	55	100	100	100	100	100	B
29	142026	80	80	58	58	70	100	100	100	100	100	E
30	142008	92	92	72	72	86	100	100	100	100	100	B
31	142038	86	86	A	A	22	100	100	100	100	100	E
32	142032	80	80	28	28	54	100	100	100	100	100	B
33	142001	66	66	80	80	56	100	100	100	100	100	C
34	142012	72	72	74	74	51	100	100	100	100	100	C
35	142057	90	90	56	56	74	100	100	100	100	100	C
36	142035	50	50	16	16	39	100	100	100	100	100	E
37	142047	80	80	50	50	60	100	100	100	100	100	C
38	142108	88	88	36	36	35	100	100	100	100	100	C
39	142013	52	52	60	60	42	100	100	100	100	100	C
40	142036	80	80	50	50	78	100	100	100	100	100	C
41	142067	88	88	74	74	52	100	100	100	100	100	E
42	142031	78	78	58	58	60	100	100	100	100	100	E
43	142074	50	50	50	50	43	100	90	100	100	100	E
44	142044	94	94	82	82	70	100	100	100	100	100	E



45	142107	82	82	56	56	59	100	100	100	100	100	C
46	142029	88	88	60	60	66	100	100	100	100	100	D
47	142016	54	54	68	68	35	100	90	100	100	100	E
48	142051	60	60	50	50	41	100	100	100	100	100	C
49	142110	66	66	24	24	52	100	100	100	100	100	C
50	142066	92	92	72	72	56	100	100	100	100	100	B
51	142073	76	76	50	50	53	100	100	100	100	100	E
52	142027	70	70	58	58	29	100	100	100	100	100	B
53	142030	78	78	74	74	23	100	100	100	100	100	D
54	142061	56	56	52	52	30	90	90	90	100	90	C
55	142037	62	62	58	58	60	100	90	100	90	100	B
56	142064	80	80	14	14	50	90	80	90	100	80	D
57	142010	66	66	62	62	53	100	90	100	100	100	C
58	142025	88	88	52	52	55	100	90	80	90	100	E
59	142303	90	90	70	70	56	100	100	100	100	100	D
60	142039	74	74	70	70	65	90	90	100	100	90	B
61	142020	82	82	50	50	30	100	90	100	100	100	B
62	142028	88	88	92	92	81	100	90	90	100	90	B
63	142042	80	80	84	84	56	80	100	100	90	100	E
64	142048	90	90	52	52	50	100	90	100	100	100	E
65	142003	86	86	84	84	57	100	90	90	100	90	C
66	142068	70	70	60	60	54	100	90	100	90	90	B
67	142053	66	66	50	50	60	100	90	100	100	100	E
68	142007	50	50	82	82	40	100	90	100	100	100	A
69	142305	54	54	12	12	A	100	90	100	90	90	E
70	142307	64	64	24	24	4	100	90	90	100	100	E
71	142023	90	90	64	64	53	100	90	100	100	100	A
72	142055	80	80	70	70	59	100	100	100	90	100	A
73	142046	44	44	52	52	28	100	100	100	100	90	A
74	142052	60	60	54	54	30	100	100	90	100	100	C
75	142103	76	76	62	62	61	90	100	100	100	80	B
76	142021	66	66	50	50	34	100	100	90	90	90	C
77	142018	82	82	72	72	79	100	100	100	100	70	C
78	142043	54	54	10	10	12	100	100	80	90	100	E
79	142065	54	54	50	50	54	90	90	100	100	90	E
80	142060	56	56	50	50	50	90	90	90	100	80	D
81	142006	88	88	78	78	50	80	100	90	100	80	B
82	142304	50	50	52	52	31	100	90	60	100	70	E
83	142014	56	56	50	50	38	100	90	100	100	100	C
84	142015	72	72	54	54	70	100	100	90	100	90	D
85	142069	44	44	12	12	10	90	100	100	100	100	E
86	142054	34	34	10	10	12	90	100	100	100	90	E
87	142062	52	52	52	52	50	100	100	100	90	80	B
88	142019	56	56	50	50	20	100	100	100	100	80	B
89	142005	78	78	50	50	50	100	100	100	100	100	B
90	142033	88	88	70	70	61	100	100	90	90	100	B
91	142105	64	64	52	52	30	100	100	100	100	100	D
92	142002	86	86	58	58	70	90	100	90	90	90	D
93	142102	70	70	52	52	50	100	90	100	100	100	C
94	142311	76	76	10	10	25	90	90	100	100	90	E

95	142310	74	74	74	74	61	100	100	90	100	100	C
96	142109	34	34	52	52	52	100	100	80	90	90	D

Total = 96	CIT					Assignments					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	
Count	68	68	34	34	23	94	93	94	95	89	52
%	70.83%	70.83%	35.79%	35.79%	24.21%	94.92%	96.88%	97.92%	98.96%	92.71%	54.17%
Level Obtained	2	2	0	0	0	3	3	3	3	3	0
% of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment and $\geq C(7)$ grade in AU											

### Attainment Calculation:

### Survey:

Survey	C106.1	C106.2	C106.3	C106.4	C106.5
Obtained %	88.18	85	81.4	75.69	74.88
Obtained Level	3	3	3	2	2
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C106:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C106.1	2	3	2.3	0	0.92	3	1.34
C106.2	2	3	2.3	0	0.92	3	1.34
C106.3	0	3	0.9	0	0.36	3	0.89
C106.4	0	3	0.9	0	0.36	2	0.69
C106.5	0	3	0.9	0	0.36	2	0.69
<b>C106</b>							<b>0.99</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C106.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C106.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C106.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C106.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C106.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C106 = \frac{C106.1 + C106.2 + C106.3 + C106.4 + C106.5}{5} = 0.99$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE6161 Computer Practices Lab: C107**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	Model					AU
		CO1	CO2	CO3	CO4	CO5	
		M	M	M	M	M	
1	142009	99	99	99	99	99	A
2	142308	92	92	92	92	92	A
3	142022	100	100	100	100	100	A
4	142112	90	90	90	90	90	S
5	142070	90	90	90	90	90	B
6	142306	80	80	80	80	80	B
7	142063	82	82	82	82	82	B
8	142301	99	99	99	99	99	S
9	142034	99	99	99	99	99	A
10	142040	90	90	90	90	90	A
11	142071	94	94	94	94	94	A
12	142101	99	99	99	99	99	S
13	142017	99	99	99	99	99	A
14	142045	100	100	100	100	100	A
15	142302	94	94	94	94	94	A
16	142072	80	80	80	80	80	A
17	142111	85	85	85	85	85	B
18	142059	99	99	99	99	99	S
19	142050	99	99	99	99	99	A
20	142309	100	100	100	100	100	S
21	142056	99	99	99	99	99	S
22	142058	84	84	84	84	84	S
23	142004	100	100	100	100	100	S
24	142106	90	90	90	90	90	A
25	142104	92	92	92	92	92	S
26	142011	99	99	99	99	99	S
27	142041	99	99	99	99	99	S
28	142024	100	100	100	100	100	S
29	142026	100	100	100	100	100	S
30	142008	100	100	100	100	100	S
31	142038	95	95	95	95	95	S
32	142032	98	98	98	98	98	S
33	142001	100	100	100	100	100	S
34	142012	99	99	99	99	99	S
35	142057	99	99	99	99	99	S
36	142035	96	96	96	96	96	A
37	142047	90	90	90	90	90	S
38	142108	94	94	94	94	94	S
39	142013	99	99	99	99	99	A
40	142036	99	99	99	99	99	S
41	142067	70	70	70	70	70	S
42	142031	95	95	95	95	95	A
43	142074	84	84	84	84	84	S
44	142044	99	99	99	99	99	S

45	142107	96	96	96	96	96	S
46	142029	98	98	98	98	98	S
47	142016	92	92	92	92	92	S
48	142051	95	95	95	95	95	S
49	142110	85	85	85	85	85	A
50	142066	97	97	97	97	97	A
51	142073	88	88	88	88	88	A
52	142027	90	90	90	90	90	A
53	142030	70	70	70	70	70	A
54	142061	70	70	70	70	70	B
55	142037	91	91	91	91	91	S
56	142064	70	70	70	70	70	A
57	142010	70	70	70	70	70	A
58	142025	91	91	91	91	91	A
59	142303	91	91	91	91	91	S
60	142039	87	87	87	87	87	S
61	142020	75	75	75	75	75	A
62	142028	86	86	86	86	86	S
63	142042	70	70	70	70	70	B
64	142048	87	87	87	87	87	A
65	142003	96	96	96	96	96	S
66	142068	90	90	90	90	90	S
67	142053	70	70	70	70	70	A
68	142007	70	70	70	70	70	A
69	142305	91	91	91	91	91	S
70	142307	86	86	86	86	86	S
71	142023	70	70	70	70	70	A
72	142055	91	91	91	91	91	B
73	142046	70	70	70	70	70	B
74	142052	75	75	75	75	75	B
75	142103	70	70	70	70	70	A
76	142021	70	70	70	70	70	A
77	142018	92	92	92	92	92	A
78	142043	70	70	70	70	70	B
79	142065	70	70	70	70	70	B
80	142060	70	70	70	70	70	B
81	142006	95	95	95	95	95	S
82	142304	70	70	70	70	70	B
83	142014	90	90	90	90	90	B
84	142015	99	99	99	99	99	S
85	142069	70	70	70	70	70	B
86	142054	70	70	70	70	70	B
87	142062	70	70	70	70	70	A
88	142019	88	88	88	88	88	S
89	142005	80	80	80	80	80	A
90	142033	91	91	91	91	91	B
91	142105	91	91	91	91	91	A
92	142002	98	98	98	98	98	S
93	142102	70	70	70	70	70	A
94	142311	82	82	82	82	82	S

95	142310	70	70	70	70	70	A
96	142109	70	70	70	70	70	S

Total = 96	Model					AU
	CO1	CO2	CO3	CO4	CO5	
	M	M	M	M	M	
Count	72	72	72	72	72	79
%	75%	75%	75%	75%	75%	82.29%
Level Obtained	2	2	2	2	2	3
% of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record and $\geq A(9)$ grade in AU						

### Attainment Calculation:

### Survey:

Survey	C107.1	C107.2	C107.3	C107.4	C107.5
Obtained %	85.79	83.21	79.05	78.31	72.4
Obtained Level	3	3	2	2	2
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C107:

Course	Internal Test(M)		IA	AU Exam	Direct Attainment	Survey	Overall attainment
C107.1	2		2	3	2.6	3	2.68
C107.2	2		2	3	2.6	3	2.68
C107.3	2		2	3	2.6	2	2.48
C107.4	2		2	3	2.6	2	2.48
C107.5	2		2	3	2.6	2	2.48
<b>C107</b>							<b>2.56</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C107.1	AU Exam	[1*Internal Test]
C107.2	AU Exam	[1*Internal Test]
C107.3	AU Exam	[1*Internal Test]
C107.4	AU Exam	[1*Internal Test]
C107.5	AU Exam	[1*Internal Test]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C107 = \frac{C107.1 + C107.2 + C107.3 + C107.4 + C107.5}{5} = 2.56$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE6162 Engineering Practices Lab: C108**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	Model					AU
		CO1	CO2	CO3	CO4	CO5	
		M	M	M	M	M	
1	142009	88	88	88	88	88	S
2	142308	81	81	81	81	81	B
3	142022	78	78	78	78	78	A
4	142112	85	85	85	85	85	B
5	142070	80	80	80	80	80	C
6	142306	78	78	78	78	78	C
7	142063	79	79	79	79	79	B
8	142301	91	91	91	91	91	B
9	142034	83	83	83	83	83	A
10	142040	79	79	79	79	79	B
11	142071	87	87	87	87	87	A
12	142101	90	90	90	90	90	S
13	142017	80	80	80	80	80	B
14	142045	89	89	89	89	89	A
15	142302	90	90	90	90	90	A
16	142072	77	77	77	77	77	B
17	142111	82	82	82	82	82	B
18	142059	89	89	89	89	89	A
19	142050	79	79	79	79	79	B
20	142309	88	88	88	88	88	S
21	142056	82	82	82	82	82	A
22	142058	81	81	81	81	81	A
23	142004	98	98	98	98	98	A
24	142106	78	78	78	78	78	B
25	142104	85	85	85	85	85	B
26	142011	87	87	87	87	87	A
27	142041	92	92	92	92	92	A
28	142024	89	89	89	89	89	A
29	142026	88	88	88	88	88	S
30	142008	92	92	92	92	92	S
31	142038	78	78	78	78	78	A
32	142032	85	85	85	85	85	A
33	142001	86	86	86	86	86	A
34	142012	90	90	90	90	90	B
35	142057	87	87	87	87	87	A
36	142035	85	85	85	85	85	B
37	142047	87	87	87	87	87	A
38	142108	82	82	82	82	82	A
39	142013	89	89	89	89	89	A
40	142036	87	87	87	87	87	A
41	142067	90	90	90	90	90	A
42	142031	90	90	90	90	90	B
43	142074	75	75	75	75	75	A
44	142044	96	96	96	96	96	B

45	142107	79	79	79	79	79	A
46	142029	80	80	80	80	80	A
47	142016	91	91	91	91	91	A
48	142051	89	89	89	89	89	B
49	142110	83	83	83	83	83	S
50	142066	88	88	88	88	88	A
51	142073	80	80	80	80	80	B
52	142027	79	79	79	79	79	A
53	142030	95	95	95	95	95	S
54	142061	90	90	90	90	90	C
55	142037	85	85	85	85	85	A
56	142064	95	95	95	95	95	A
57	142010	90	90	90	90	90	B
58	142025	90	90	90	90	90	A
59	142303	85	85	85	85	85	A
60	142039	86	86	86	86	86	A
61	142020	85	85	85	85	85	A
62	142028	85	85	85	85	85	A
63	142042	90	90	90	90	90	A
64	142048	90	90	90	90	90	A
65	142003	90	90	90	90	90	B
66	142068	95	95	95	95	95	A
67	142053	85	85	85	85	85	A
68	142007	90	90	90	90	90	A
69	142305	90	90	90	90	90	B
70	142307	90	90	90	90	90	B
71	142023	89	89	89	89	89	B
72	142055	90	90	90	90	90	S
73	142046	85	85	85	85	85	A
74	142052	90	90	90	90	90	C
75	142103	88	88	88	88	88	S
76	142021	86	86	86	86	86	A
77	142018	92	92	92	92	92	A
78	142043	90	90	90	90	90	B
79	142065	92	92	92	92	92	C
80	142060	85	85	85	85	85	B
81	142006	90	90	90	90	90	A
82	142304	90	90	90	90	90	B
83	142014	90	90	90	90	90	A
84	142015	93	93	93	93	93	A
85	142069	85	85	85	85	85	C
86	142054	85	85	85	85	85	C
87	142062	90	90	90	90	90	A
88	142019	95	95	95	95	95	A
89	142005	90	90	90	90	90	A
90	142033	85	85	85	85	85	A
91	142105	90	90	90	90	90	A
92	142002	90	90	90	90	90	A
93	142102	85	85	85	85	85	B
94	142311	90	90	90	90	90	B

95	142310	90	90	90	90	90	B
96	142109	90	90	90	90	90	S

Total: 96	Model					AU
	CO1	CO2	CO3	CO4	CO5	
	M	M	M	M	M	
Count	85	85	85	85	85	61
%	88.54%	88.54%	88.54%	88.54%	88.54%	63.54%
Level Obtained	3	3	3	3	3	1
% of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record and $\geq A(9)$ grade in AU						

### Attainment Calculation:

### Survey:

Survey	C108.1	C108.2	C108.3	C108.4	C108.5
Obtained %	88.18	84.86	81.4	75.68	74.88
Obtained Level	3	3	3	2	2
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C108:

Course	Internal Test(M)		IA	AU Exam	Direct Attainment	Survey	Overall attainment
C108.1	3		3	1	1.8	3	2.04
C108.2	3		3	1	1.8	3	2.04
C108.3	3		3	1	1.8	3	2.04
C108.4	3		3	1	1.8	2	1.84
C108.5	3		3	1	1.8	2	1.84
<b>C108</b>							<b>1.96</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C108.1	AU Exam	[1*Internal Test]
C108.2	AU Exam	[1*Internal Test]
C108.3	AU Exam	[1*Internal Test]
C108.4	AU Exam	[1*Internal Test]
C108.5	AU Exam	[1*Internal Test]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C108 = \frac{C108.1 + C108.2 + C108.3 + C108.4 + C108.5}{5} = 1.96$$



**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE6163 Physics & Chemistry Lab: C109**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	Model					AU
		CO1	CO2	CO3	CO4	CO5	
		M	M	M	M	M	
1	142009	88	88	88	88	88	S
2	142308	84	84	84	84	84	B
3	142022	93	93	93	93	93	A
4	142112	87	87	87	87	87	S
5	142070	87	87	87	87	87	B
6	142306	80	80	80	80	80	C
7	142063	81	81	81	81	81	D
8	142301	97	97	97	97	97	A
9	142034	94	94	94	94	94	A
10	142040	88	88	88	88	88	S
11	142071	92	92	92	92	92	A
12	142101	96	96	96	96	96	S
13	142017	94	94	94	94	94	A
14	142045	88	88	88	88	88	A
15	142302	94	94	94	94	94	A
16	142072	83	83	83	83	83	D
17	142111	79	79	79	79	79	B
18	142059	85	85	85	85	85	S
19	142050	89	89	89	89	89	S
20	142309	86	86	86	86	86	A
21	142056	92	92	92	92	92	S
22	142058	89	89	89	89	89	C
23	142004	87	87	87	87	87	A
24	142106	83	83	83	83	83	D
25	142104	94	94	94	94	94	A
26	142011	87	87	87	87	87	B
27	142041	89	89	89	89	89	S
28	142024	88	88	88	88	88	A
29	142026	88	88	88	88	88	A
30	142008	87	87	87	87	87	S
31	142038	90	90	90	90	90	B
32	142032	91	91	91	91	91	S
33	142001	89	89	89	89	89	S
34	142012	92	92	92	92	92	A
35	142057	89	89	89	89	89	S
36	142035	89	89	89	89	89	A
37	142047	84	84	84	84	84	A
38	142108	85	85	85	85	85	B
39	142013	94	94	94	94	94	A
40	142036	92	92	92	92	92	S
41	142067	84	84	84	84	84	A
42	142031	81	81	81	81	81	B
43	142074	91	91	91	91	91	A
44	142044	87	87	87	87	87	C

45	142107	88	88	88	88	88	S
46	142029	86	86	86	86	86	S
47	142016	90	90	90	90	90	A
48	142051	81	81	81	81	81	C
49	142110	87	87	87	87	87	S
50	142066	93	93	93	93	93	A
51	142073	84	84	84	84	84	C
52	142027	82	82	82	82	82	S
53	142030	81	81	81	81	81	A
54	142061	79	79	79	79	79	C
55	142037	86	86	86	86	86	C
56	142064	92	92	92	92	92	B
57	142010	88	88	88	88	88	A
58	142025	96	96	96	96	96	B
59	142303	87	87	87	87	87	A
60	142039	86	86	86	86	86	S
61	142020	92	92	92	92	92	A
62	142028	92	92	92	92	92	S
63	142042	77	77	77	77	77	C
64	142048	80	80	80	80	80	C
65	142003	95	95	95	95	95	S
66	142068	85	85	85	85	85	B
67	142053	86	86	86	86	86	B
68	142007	77	77	77	77	77	B
69	142305	79	79	79	79	79	C
70	142307	86	86	86	86	86	C
71	142023	84	84	84	84	84	B
72	142055	88	88	88	88	88	A
73	142046	72	72	72	72	72	D
74	142052	83	83	83	83	83	B
75	142103	81	81	81	81	81	C
76	142021	89	89	89	89	89	A
77	142018	91	91	91	91	91	A
78	142043	84	84	84	84	84	B
79	142065	84	84	84	84	84	C
80	142060	83	83	83	83	83	B
81	142006	87	87	87	87	87	A
82	142304	80	80	80	80	80	C
83	142014	86	86	86	86	86	A
84	142015	91	91	91	91	91	S
85	142069	92	92	92	92	92	B
86	142054	86	86	86	86	86	C
87	142062	90	90	90	90	90	A
88	142019	88	88	88	88	88	B
89	142005	80	80	80	80	80	B
90	142033	86	86	86	86	86	B
91	142105	78	78	78	78	78	C
92	142002	91	91	91	91	91	A
93	142102	84	84	84	84	84	B
94	142311	87	87	87	87	87	C

95	142310	91	91	91	91	91	S
96	142109	84	84	84	84	84	A

Total: 96	Model					AU
	CO1	CO2	CO3	CO4	CO5	
	M	M	M	M	M	
Count	89	89	89	89	89	54
%	92.71%	92.71%	92.71%	92.71%	92.71%	56.25%
Level Obtained	3	3	3	3	3	0
% of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record and $\geq A(9)$ grade in AU						

**Attainment Calculation:**

**Survey:**

Survey	C109.1	C109.2	C109.3	C109.4	C109.5
Obtained %	78.2	81.29	80	80.54	75.87
Obtained Level	2	3	3	3	2
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C109:**

Course	Internal Test(M)		IA	AU Exam	Direct Attainment	Survey	Overall attainment
C109.1	3		3	0	1.2	2	1.36
C109.2	3		3	0	1.2	3	1.56
C109.3	3		3	0	1.2	3	1.56
C109.4	3		3	0	1.2	3	1.56
C109.5	3		3	0	1.2	2	1.36
<b>C109</b>							<b>1.48</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C109.1	AU Exam	[1*Internal Test]
C109.2	AU Exam	[1*Internal Test]
C109.3	AU Exam	[1*Internal Test]
C109.4	AU Exam	[1*Internal Test]
C109.5	AU Exam	[1*Internal Test]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C109 = \frac{C109.1 + C109.2 + C109.3 + C109.4 + C109.5}{5} = 1.48$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: HS6251 Technical English -II: C110**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignments			AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	142009	82	82	86	86	74	100	100	95	B
2	142308	68	68	72	72	66	90	95	100	C
3	142022	65	65	61	61	58	100	95	95	E
4	142112	69	69	68	68	62	100	95	100	C
5	142070	64	64	54	54	77	100	95	95	E
6	142306	62	62	59	59	58	95	100	100	C
7	142063	65	65	68	68	72	100	95	100	D
8	142301	84	84	86	86	66	100	95	100	B
9	142034	69	69	80	80	84	95	100	100	D
10	142040	65	65	59	59	62	100	95	100	C
11	142071	68	68	72	72	72	100	95	100	E
12	142101	72	72	87	87	A	100	100	100	B
13	142017	70	70	81	81	68	100	100	100	E
14	142045	65	65	88	88	64	100	95	100	E
15	142302	64	64	77	77	72	95	95	100	C
16	142072	63	63	59	59	62	100	95	100	E
17	142111	65	65	79	79	66	100	95	100	D
18	142059	74	74	84	84	72	100	100	100	C
19	142050	64	64	59	59	66	90	100	100	D
20	142309	82	82	85	85	72	90	95	100	C
21	142056	76	76	71	71	70	95	100	95	E
22	142058	68	68	61	61	65	100	95	100	E
23	142004	83	83	89	89	84	100	100	100	B
24	142106	65	65	55	55	58	100	95	100	D
25	142104	70	70	78	78	74	95	95	100	C
26	142011	70	70	85	85	78	95	100	100	E
27	142041	76	76	78	78	74	100	95	100	C
28	142024	65	65	83	83	72	100	100	100	D
29	142026	78	78	88	88	72	95	95	100	E
30	142008	86	86	87	87	84	100	100	95	B
31	142038	71	71	76	76	86	95	95	100	C
32	142032	75	75	85	85	86	90	100	100	E
33	142001	68	68	85	85	64	100	100	100	C
34	142012	69	69	86	86	82	100	100	95	B
35	142057	69	69	88	88	66	100	95	95	B
36	142035	68	68	75	75	66	95	100	100	D
37	142047	78	78	75	75	76	95	100	100	A
38	142108	68	68	82	82	72	100	90	100	C
39	142013	72	72	82	82	70	95	100	100	C
40	142036	70	70	84	84	74	95	100	100	D
41	142067	86	86	86	86	70	100	90	100	C
42	142031	78	78	84	84	70	90	100	95	E
43	142074	64	64	68	68	66	95	100	100	C
44	142044	70	70	85	85	84	95	100	100	E

45	142107	70	70	74	74	64	95	95	100	D
46	142029	65	65	82	82	66	95	100	100	C
47	142016	72	72	87	87	78	95	100	100	E
48	142051	65	65	77	77	66	90	100	95	E
49	142110	66	66	80	80	72	100	90	100	C
50	142066	78	78	87	87	70	100	90	100	D
51	142073	68	68	80	80	58	95	100	100	E
52	142027	68	68	64	64	54	90	100	100	E
53	142030	80	80	86	86	82	95	100	100	B
54	142061	70	70	76	76	82	90	95	100	E
55	142037	86	86	89	89	84	95	95	100	D
56	142064	78	78	84	84	86	100	95	100	B
57	142010	82	82	92	92	68	95	100	100	D
58	142025	72	72	86	86	66	95	100	100	E
59	142303	73	73	82	82	74	95	95	100	C
60	142039	86	86	91	91	78	100	100	100	B
61	142020	70	70	88	88	74	95	100	100	B
62	142028	72	72	85	85	72	100	100	100	C
63	142042	68	68	76	76	58	100	100	100	E
64	142048	76	76	86	86	78	90	100	100	B
65	142003	88	88	92	92	84	100	100	95	B
66	142068	76	76	82	82	72	100	95	100	E
67	142053	A	A	74	74	76	95	100	95	E
68	142007	70	70	86	86	68	100	95	100	C
69	142305	93	93	88	88	80	100	100	100	B
70	142307	83	83	77	77	A	95	100	100	E
71	142023	78	78	86	86	66	100	100	100	D
72	142055	77	77	90	90	76	95	100	100	C
73	142046	68	68	62	62	56	95	100	100	E
74	142052	77	77	82	82	74	95	100	100	D
75	142103	73	73	84	84	66	95	90	100	E
76	142021	92	92	88	88	70	100	95	100	C
77	142018	72	72	74	74	66	95	95	100	E
78	142043	72	72	89	89	74	90	100	100	E
79	142065	68	68	83	83	60	100	90	100	E
80	142060	70	70	70	70	74	100	95	95	E
81	142006	71	71	88	88	A	100	100	95	C
82	142304	70	70	62	62	68	90	100	100	E
83	142014	88	88	84	84	A	95	100	100	C
84	142015	85	85	90	90	88	95	100	100	A
85	142069	64	64	71	71	52	100	95	100	E
86	142054	64	64	61	61	54	95	100	95	E
87	142062	86	86	88	88	86	95	100	100	B
88	142019	72	72	84	84	84	100	95	100	D
89	142005	76	76	82	82	80	100	100	95	D
90	142033	91	91	90	90	74	90	100	100	B
91	142105	70	70	73	73	72	95	100	95	D
92	142002	71	71	90	90	80	100	100	100	D
93	142102	77	77	81	81	76	95	100	100	E
94	142311	80	80	82	82	79	95	90	100	E

95	142310	90	90	82	82	74	90	90	100	B
96	142109	72	72	85	85	54	95	90	100	C

% of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment and $\geq C$ (7) grade in AU									
Total: 96	CIT					Assignments			CIT
	CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	95	95	90	90	82	96	96	96	44
%	100%	100%	93.75%	93.75%	89.13%	100%	100%	100%	45.83%
Level Obtained	3	3	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C110.1	C110.2	C110.3	C110.4	C110.5
Obtained %	95.07	93.7	92.61	92.33	94
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C110:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C110.1	3	3	3	0	1.2	3	1.56
C110.2	3	3	3	0	1.2	3	1.56
C110.3	3	3	3	0	1.2	3	1.56
C110.4	3	3	3	0	1.2	3	1.56
C110.5	3	3	3	0	1.2	3	1.56
<b>C110</b>							<b>1.56</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C110.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C110.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C110.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C110.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C110.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C110 = \frac{C110.1 + C110.2 + C110.3 + C110.4 + C110.5}{5} = 1.56$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: MA6251 Mathematics -II: C111**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment		AU
		CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	
1	142009	98	98	78	78	96	100	100	A
2	142308	54	54	32	32	52	100	100	E
3	142022	78	78	62	62	100	100	100	E
4	142112	82	82	64	64	68	100	100	E
5	142070	32	32	30	30	36	100	100	E
6	142306	94	94	22	22	20	100	100	E
7	142063	30	30	34	34	56	100	100	E
8	142301	82	82	96	96	100	100	100	B
9	142034	82	82	70	70	64	100	100	B
10	142040	90	90	50	50	64	100	100	B
11	142071	50	50	A	A	50	100	100	E
12	142101	62	62	54	54	A	100	100	C
13	142017	54	54	50	50	52	100	100	E
14	142045	68	68	78	78	88	100	100	B
15	142302	40	40	70	70	64	100	100	E
16	142072	72	72	14	14	60	100	100	E
17	142111	2	2	28	28	52	100	100	E
18	142059	92	92	92	92	100	100	100	C
19	142050	70	70	50	50	80	100	100	C
20	142309	94	94	78	78	100	100	100	A
21	142056	66	66	72	72	96	100	100	E
22	142058	56	56	4	4	56	100	100	E
23	142004	82	82	92	92	100	100	100	B
24	142106	50	50	26	26	52	100	100	E
25	142104	16	16	24	24	32	100	100	E
26	142011	80	80	30	30	92	100	100	C
27	142041	90	90	58	58	60	100	100	B
28	142024	94	94	68	68	96	100	100	A
29	142026	96	96	84	84	84	100	100	C
30	142008	96	96	100	100	100	100	100	A
31	142038	80	80	58	58	52	100	100	C
32	142032	84	84	50	50	96	100	100	C
33	142001	98	98	84	84	96	100	100	S
34	142012	88	88	72	72	100	100	100	A
35	142057	84	84	86	86	100	100	100	B
36	142035	70	70	58	58	92	100	100	C
37	142047	96	96	50	50	56	100	100	D
38	142108	70	70	36	36	44	100	100	E
39	142013	92	92	70	70	88	100	100	B
40	142036	82	82	70	70	88	100	100	C
41	142067	80	80	86	86	100	100	100	B
42	142031	96	96	58	58	96	100	100	E
43	142074	40	40	26	26	52	100	100	A
44	142044	90	90	80	80	68	100	100	E

45	142107	54	54	50	50	64	100	100	D
46	142029	72	72	72	72	84	100	100	C
47	142016	94	94	60	60	96	100	100	B
48	142051	80	80	58	58	84	100	100	E
49	142110	34	34	12	12	36	100	100	E
50	142066	84	84	50	50	68	100	100	C
51	142073	80	80	34	34	60	100	100	E
52	142027	54	54	12	12	20	100	100	B
53	142030	88	88	80	80	96	100	100	C
54	142061	30	30	A	A	80	100	100	UA
55	142037	56	56	88	88	96	100	100	C
56	142064	66	66	50	50	92	100	100	E
57	142010	62	62	60	60	100	100	100	E
58	142025	62	62	78	78	92	100	100	C
59	142303	92	92	62	62	84	100	100	B
60	142039	94	94	80	80	68	100	100	A
61	142020	86	86	52	52	40	100	100	C
62	142028	94	94	84	84	72	100	100	B
63	142042	A	A	66	66	88	100	100	D
64	142048	92	92	78	78	96	100	100	A
65	142003	100	100	A	A	100	100	100	B
66	142068	64	64	70	70	100	100	100	C
67	142053	64	64	62	62	96	100	100	C
68	142007	90	90	52	52	52	100	100	D
69	142305	54	54	12	12	76	100	100	E
70	142307	54	54	A	A	A	100	100	E
71	142023	62	62	52	52	60	100	100	D
72	142055	88	88	80	80	76	100	100	E
73	142046	78	78	30	30	36	100	100	E
74	142052	82	82	84	84	60	100	100	B
75	142103	70	70	50	50	80	100	100	C
76	142021	94	94	78	78	100	100	100	B
77	142018	82	82	38	38	88	100	100	E
78	142043	80	80	34	34	72	100	100	E
79	142065	86	86	74	74	100	100	100	C
80	142060	66	66	56	56	84	100	100	E
81	142006	84	84	52	52	A	100	100	B
82	142304	68	68	36	36	92	100	100	D
83	142014	70	70	22	22	88	100	100	C
84	142015	100	100	98	98	96	100	100	A
85	142069	54	54	40	40	60	100	100	E
86	142054	60	60	28	28	72	100	100	D
87	142062	74	74	66	66	96	100	100	E
88	142019	92	92	70	70	96	100	100	C
89	142005	94	94	80	80	96	100	100	B
90	142033	94	94	88	88	92	100	100	C
91	142105	70	70	50	50	40	100	100	E
92	142002	90	90	66	66	92	100	100	S
93	142102	70	70	64	64	88	100	100	E
94	142311	90	90	50	50	80	100	100	C



95	142310	90	90	64	64	88	100	100	D
96	142109	74	74	50	50	68	100	100	A

<b>Benchmark: % of Students secured <math>\geq 60</math> marks in CITs, <math>\geq 80</math> in assignment and <math>\geq C</math> (7) grade in AU</b>								
Total: 96	CIT					Assignments		CIT
	CO1	CO2	CO3	CO4	CO5	CO1,2	CO3,4	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	
Count	76	76	46	46	73	96	96	53
%	80%	80%	50%	50%	78.49%	100%	100%	55.21%
Level Obtained	3	3	0	0	2	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C111.1	C111.2	C111.3	C111.4	C111.5
Obtained %	85.34	86.09	83.4	84.17	83.73
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C111:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C111.1	3	3	3	0	1.2	3	1.56
C111.2	3	3	3	0	1.2	3	1.56
C111.3	0	3	0.9	0	0.36	3	0.89
C111.4	0	3	0.9	0	0.36	3	0.89
C111.5	2	-	2	0	0.8	3	1.24
<b>C111</b>							<b>1.23</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C111.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C111.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C111.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C111.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C111.5	AU Exam	[1*Internal Test]

### Overall Attainment:

$$C111 = \frac{C111.1 + C111.2 + C111.3 + C111.4 + C111.5}{5} = 1.23$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: PH6251 Engineering Physics -II: C112**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	
1	142009	80	98	90	96	93	100	100	100	100	100	B
2	142308	36	64	40	60	72	96	96	90	100	100	E
3	142022	80	92	24	92	82	96	96	100	100	100	D
4	142112	72	74	38	98	92	100	100	80	100	100	E
5	142070	62	78	30	78	78	96	96	100	90	100	E
6	142306	46	76	0	64	72	96	96	100	100	100	E
7	142063	44	14	14	56	70	92	92	100	100	100	E
8	142301	100	98	72	94	96	100	100	90	80	100	B
9	142034	80	88	88	90	92	96	96	100	80	100	E
10	142040	90	78	40	92	73	100	100	100	90	100	E
11	142071	82	58	90	72	90	92	92	100	90	100	C
12	142101	98	100	92	98	95	100	100	100	100	100	S
13	142017	68	64	50	90	80	100	100	100	90	100	E
14	142045	72	74	78	84	98	96	96	100	100	100	E
15	142302	84	84	44	92	94	96	96	90	100	100	E
16	142072	68	34	72	70	72	100	100	100	80	100	E
17	142111	96	32	48	46	70	100	100	100	100	100	E
18	142059	96	94	98	78	96	100	100	100	100	100	A
19	142050	94	90	72	92	98	100	100	100	100	100	E
20	142309	86	90	92	98	95	88	88	90	100	100	B
21	142056	78	96	24	88	84	92	92	100	100	100	C
22	142058	38	40	26	56	74	96	96	100	100	100	E
23	142004	44	8	14	58	70	100	100	100	100	100	C
24	142106	44	56	56	48	94	100	100	90	80	100	E
25	142104	56	84	64	88	76	96	96	100	100	80	E
26	142011	86	80	48	86	80	100	100	100	90	100	B
27	142041	70	74	68	98	88	100	100	100	100	100	B
28	142024	100	88	80	78	90	96	96	100	100	100	C
29	142026	96	94	98	98	98	96	96	90	100	90	C
30	142008	90	66	90	70	80	100	100	100	100	100	B
31	142038	88	96	76	90	90	96	96	100	80	100	E
32	142032	92	96	64	98	90	100	100	100	100	100	E
33	142001	100	94	92	100	98	100	100	80	100	80	E
34	142012	90	88	90	96	98	92	92	100	100	100	A
35	142057	70	82	44	64	71	100	100	80	90	80	B
36	142035	84	58	92	84	86	96	96	100	90	100	E
37	142047	28	74	38	92	92	100	100	100	100	100	D
38	142108	94	96	88	88	98	100	100	90	100	100	E
39	142013	78	86	92	88	94	100	100	100	100	90	C
40	142036	76	78	48	98	90	100	100	100	90	100	C
41	142067	72	94	72	82	64	90	100	100	100	100	B
42	142031	76	78	48	98	90	90	100	100	100	80	E
43	142074	90	58	76	94	86	100	100	100	100	100	C
44	142044	72	94	72	82	64	100	100	90	80	100	E

45	142107	68	98	74	76	94	100	100	100	100	100	C
46	142029	21	80	32	80	82	100	100	100	100	80	A
47	142016	96	98	90	98	98	100	100	80	90	100	E
48	142051	64	88	92	52	94	100	96	100	90	100	U
49	142110	10	66	64	54	72	96	92	100	100	100	B
50	142066	80	90	52	98	94	92	100	100	100	100	C
51	142073	92	74	64	80	94	100	100	80	100	100	E
52	142027	6	70	24	66	74	92	92	80	100	100	B
53	142030	88	96	54	78	66	90	90	100	100	100	B
54	142061	48	88	8	32	66	80	80	100	100	100	UA
55	142037	90	92	82	92	58	100	100	100	100	100	B
56	142064	48	92	72	56	64	100	100	100	100	100	E
57	142010	A	A	76	76	64	90	90	100	100	100	E
58	142025	84	88	68	56	72	90	90	100	100	100	E
59	142303	66	56	36	72	60	100	100	100	100	100	C
60	142039	88	96	92	88	68	100	100	100	100	100	C
61	142020	84	62	68	66	68	90	90	100	100	100	C
62	142028	88	76	72	72	44	90	90	100	100	100	B
63	142042	78	62	46	66	44	90	90	100	100	100	E
64	142048	82	56	42	28	54	90	90	100	100	100	E
65	142003	90	94	92	90	84	100	100	100	100	100	C
66	142068	84	68	30	74	70	90	90	100	100	100	E
67	142053	84	72	44	54	68	90	90	100	100	100	E
68	142007	48	84	16	38	66	90	90	100	100	100	C
69	142305	48	92	32	86	74	100	100	100	100	100	E
70	142307	58	86	30	80	56	100	100	100	100	100	E
71	142023	78	72	58	64	48	100	100	100	100	100	E
72	142055	92	78	74	78	60	90	90	100	100	100	A
73	142046	40	30	4	32	36	90	90	100	100	100	UA
74	142052	82	88	54	72	62	90	90	100	100	100	D
75	142103	68	82	48	62	64	80	80	100	100	100	C
76	142021	76	92	84	76	70	100	100	100	100	100	C
77	142018	56	54	28	92	60	90	90	100	100	100	E
78	142043	64	80	24	50	62	80	80	100	100	100	E
79	142065	52	50	42	50	60	90	90	100	100	100	U
80	142060	76	58	0	60	78	90	90	100	100	100	E
81	142006	80	64	76	74	0	90	90	100	100	100	E
82	142304	62	76	20	48	64	80	80	100	100	100	E
83	142014	38	94	82	38	A	90	90	100	100	100	C
84	142015	90	88	84	92	A	100	100	100	100	100	B
85	142069	60	62	26	52	52	90	90	100	100	100	E
86	142054	36	48	10	48	36	80	80	100	100	100	E
87	142062	80	86	86	72	72	90	90	100	100	100	E
88	142019	76	78	68	82	58	100	100	100	100	100	D
89	142005	92	92	80	74	44	100	100	100	100	100	D
90	142033	88	84	76	86	62	100	100	100	100	100	C
91	142105	52	62	60	34	52	90	90	100	100	100	E
92	142002	90	92	92	82	56	90	90	100	100	100	D
93	142102	76	80	56	66	70	90	90	100	100	100	E
94	142311	66	52	40	70	48	100	100	100	100	100	C

95	142310	86	86	76	76	66	100	100	100	100	100	C
96	142109	80	72	72	70	68	100	100	100	100	100	B

<b>Benchmark: % of Students secured <math>\geq 60</math> marks in CITs, <math>\geq 80</math> in assignment and <math>\geq C</math> (7) grade in AU</b>											
Total: 96	CIT					Assignments					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	
Count	73	78	51	75	79	96	96	96	96	96	41
%	76.84%	82.11%	53.13%	78.13%	84.04%	100%	100%	100%	100%	100%	42.71%
Level Obtained	2	3	0	2	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C112.1	C112.2	C112.3	C112.4	C112.5
Obtained %	80.23	80	78.85	78.22	78.18
Obtained Level	3	3	2	2	2
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C112:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C112.1	2	3	2.3	0	0.92	3	1.34
C112.2	3	3	3	0	1.2	3	1.56
C112.3	0	3	0.9	0	0.36	2	0.69
C112.4	2	3	2.3	0	0.92	2	1.14
C112.5	3	3	3	0	1.2	2	1.36
<b>C112</b>							<b>1.22</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C112.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C112.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C112.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C112.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C112.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C112 = \frac{C112.1 + C112.2 + C112.3 + C112.4 + C112.5}{5} = 1.22$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: CY6251 Engineering Chemistry -II: C113**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
1	142009	96	60	86	82	88	90	100	100	A
2	142308	36	80	66	46	64	80	100	80	E
3	142022	76	56	90	68	50	40	100	100	E
4	142112	56	64	76	50	56	80	80	90	E
5	142070	50	50	72	60	28	90	80	100	E
6	142306	74	36	30	32	34	40	100	80	E
7	142063	60	52	66	42	50	80	100	80	E
8	142301	84	88	72	84	94	90	100	100	C
9	142034	84	76	94	86	64	60	80	100	B
10	142040	50	42	78	72	42	80	100	100	C
11	142071	92	84	60	80	68	90	90	100	C
12	142101	94	90	88	90	86	100	40	100	A
13	142017	60	61	58	66	64	80	100	100	C
14	142045	73	88	76	82	88	90	100	100	C
15	142302	76	76.5	78	82	80	90	100	100	C
16	142072	80	52	62	54	26	80	100	100	E
17	142111	52	64	52	76	50	80	100	100	E
18	142059	90	92	92	90	82	90	100	100	B
19	142050	54	72	92	78	50	80	80	100	E
20	142309	92	94	90	92	86	90	100	100	A
21	142056	90	80	88	72	70	90	100	100	E
22	142058	52	30	44	64	52	80	100	100	E
23	142004	96	82	94	84	86	80	100	100	B
24	142106	34	28	46	40	30	80	100	80	E
25	142104	68	54	78	62	64	80	100	100	D
26	142011	88	60	82	86	50	90	100	100	C
27	142041	90	78	86	40	62	90	100	100	C
28	142024	68	56	40	66	64	90	100	100	C
29	142026	66	56	92	92	62	90	100	100	C
30	142008	96	86	94	90	82	90	100	100	A
31	142038	78	58	92	64	54	80	80	100	C
32	142032	76	84	94	76	72	90	100	100	C
33	142001	86	86	68	64	82	80	100	100	D
34	142012	96	94	92	92	94	90	100	100	A
35	142057	86	90	98	78	96	90	100	100	C
36	142035	80	50	90	66	76	80	100	100	E
37	142047	80	60	82	72	64	80	100	100	E
38	142108	60	20	86	46	64	80	80	100	E
39	142013	88	70	88	68	88	90	100	100	B
40	142036	62	72	78	78	78	90	100	100	D
41	142067	84	44	96	96	52	80	100	90	C
42	142031	88	62	60	90	90	90	100	100	E
43	142074	60	64	78	62	64	80	80	100	B
44	142044	90	80	80	82	90	90	100	100	E

45	142107	68	54	82	64	64	90	100	100	D
46	142029	86	90	72	78	76	90	100	100	B
47	142016	88	82	82	86	94	90	100	100	B
48	142051	90	52	88	76	80	90	100	100	E
49	142110	22	40	62	44	52	80	80	80	E
50	142066	90	70	90	76	82	90	100	100	E
51	142073	72	56	74	90	64	80	100	100	E
52	142027	28	16	74	36	A	80	40	80	E
53	142030	82	82	64	72	74	80	80	100	C
54	142061	56	44	58	42	36	80	80	80	E
55	142037	100	100	58	100	88	80	100	90	B
56	142064	80	42	96	100	96	80	100	100	C
57	142010	70	38	72	76	76	100	80	100	E
58	142025	88	76	60	92	72	100	80	100	E
59	142303	64	70	88	36	62	80	100	90	E
60	142039	100	96	80	88	100	100	100	100	B
61	142020	70	60	76	60	88	100	80	100	C
62	142028	64	52	100	84	88	80	80	100	C
63	142042	92	50	68	42	60	80	80	100	D
64	142048	68	56	92	66	82	100	80	100	D
65	142003	100	100	100	96	88	100	100	90	B
66	142068	A	A	70	30	60	80	80	80	E
67	142053	76	50	64	36	64	80	80	70	E
68	142007	38	62	50	50	30	80	80	90	C
69	142305	44	64	54	86	68	80	100	90	E
70	142307	54	52	72	40	88	100	80	90	E
71	142023	58	52	92	68	72	80	100	100	C
72	142055	96	58	82	94	68	100	100	100	A
73	142046	14	10	28	22	16	80	80	90	E
74	142052	60	46	58	42	76	100	100	100	A
75	142103	20	28	44	24	56	80	80	70	E
76	142021	82	78	76	70	72	80	100	100	E
77	142018	42	40	86	46	68	100	100	90	E
78	142043	72	60	A	A	50	80	100	90	E
79	142065	18	18	32	16	30	80	80	70	E
80	142060	36	20	62	80	52	80	80	70	E
81	142006	64	44	68	68	A	80	80	100	E
82	142304	52	64	14	24	44	80	80	90	E
83	142014	94	70	90	64	64	100	100	100	C
84	142015	100	92	100	88	100	100	100	100	B
85	142069	40	32	64	38	12	80	80	70	E
86	142054	32	12	48	24	27	80	80	70	E
87	142062	42	62	72	70	84	80	100	100	E
88	142019	72	68	88	76	80	100	100	100	E
89	142005	54	78	56	64	78	100	100	100	E
90	142033	76	68	78	92	84	100	100	100	C
91	142105	62	48	70	30	50	80	80	90	E
92	142002	100	96	96	92	84	100	100	100	B
93	142102	44	28	52	86	80	100	100	100	E
94	142311	56	48	64	84	76	80	80	100	D

95	142310	80	74	80	76	84	80	100	90	C
96	142109	12	40	52	54	50	80	80	90	A

<b>Benchmark</b> :% of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment and $\geq C$ (7) grade in AU									
Total = 96	CIT					Assignments			CIT
	CO1	CO2	CO3	CO4	CO5	CO2	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	
Count	67	52	76	68	67	93	94	90	43
%	70.53%	54.74%	80%	71.58%	70.83%	71.28%	96.88%	97.92	44.79%
Level Obtained	2	0	3	2	2	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C113.1	C113.2	C113.3	C113.4	C113.5
Obtained %	89.4	87.08	86.31	85.13	83.87
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C113:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C113.1	2	-	2	0	0.8	3	1.24
C113.2	0	3	0.9	0	0.36	3	0.89
C113.3	3	-	3	0	1.2	3	1.56
C113.4	2	3	2.3	0	0.92	3	1.34
C113.5	2	3	2.3	0	0.92	3	1.34
<b>C113</b>							<b>1.27</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C113.1	AU Exam	[1*Internal Test]
C113.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C113.3	AU Exam	[1*Internal Test]
C113.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C113.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C113 = \frac{C113.1 + C113.2 + C113.3 + C113.4 + C113.5}{5} = 1.27$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE6251 Basic Civil and Mechanical Engineering: C114**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	
1	142009	84	76	92	88	84	80	90	80	90	90	B
2	142308	48	24	88	48	64	50	70	70	70	50	D
3	142022	76	36	48	20	68	60	70	90	70	80	B
4	142112	64	44	76	32	60	70	80	80	70	80	B
5	142070	36	16	76	84	52	50	70	90	60	60	E
6	142306	64	24	48	44	44	50	60	50	70	80	E
7	142063	36	24	44	20	60	60	70	50	60	80	E
8	142301	84	64	88	76	84	90	80	90	90	70	B
9	142034	88	52	92	84	80	80	80	80	80	80	C
10	142040	60	40	80	80	76	80	90	70	50	90	D
11	142071	64	40	68	88	72	50	70	90	80	60	B
12	142101	88	72	84	40	76	80	80	70	80	80	C
13	142017	52	60	92	64	68	60	70	90	80	70	C
14	142045	76	48	76	80	88	80	70	80	90	80	C
15	142302	72	48	76	72	84	90	80	90	90	80	B
16	142072	32	32	52	0	32	50	70	50	60	80	E
17	142111	80	12	60	48	60	60	70	90	50	80	E
18	142059	88	72	84	92	72	80	60	80	80	90	B
19	142050	76	76	76	80	84	90	50	80	80	60	B
20	142309	88	92	76	84	68	90	70	90	90	90	B
21	142056	76	48	72	72	68	90	70	70	70	80	C
22	142058	64	36	48	20	64	60	80	80	70	70	E
23	142004	68	60	92	88	68	90	80	90	80	90	B
24	142106	60	8	52	16	68	50	80	60	70	80	E
25	142104	84	64	36	20	88	60	70	80	60	90	C
26	142011	68	68	60	48	64	70	90	80	90	90	B
27	142041	72	52	80	52	68	70	80	90	80	90	C
28	142024	84	68	84	36	44	50	60	70	80	80	C
29	142026	72	72	88	68	68	80	80	90	90	90	C
30	142008	88	84	84	84	80	90	70	90	80	90	A
31	142038	84	84	68	48	84	80	90	80	80	70	C
32	142032	72	40	84	64	64	70	90	80	60	80	B
33	142001	68	60	72	36	68	70	90	80	80	90	B
34	142012	84	64	88	80	68	60	90	90	70	70	C
35	142057	68	56	76	76	56	80	80	80	80	90	A
36	142035	76	24	A	A	68	70	90	80	80	90	C
37	142047	84	68	76	64	60	70	60	80	90	70	D
38	142108	44	8	68	24	68	50	60	80	70	80	E
39	142013	68	60	68	84	68	70	80	90	80	80	B
40	142036	72	80	48	68	76	80	90	80	70	80	C
41	142067	68	16	64	100	52	70	70	80	60	70	C
42	142031	64	64	76	60	72	60	70	90	70	80	C
43	142074	64	52	64	52	64	80	80	90	90	80	B
44	142044	76	64	72	80	68	90	90	80	90	80	C



45	142107	72	40	84	48	80	80	60	80	70	80	C
46	142029	72	80	72	52	84	70	90	90	80	60	C
47	142016	76	64	88	80	84	80	80	80	80	70	D
48	142051	72	88	72	64	52	90	80	70	80	80	C
49	142110	72	60	40	32	76	60	70	70	80	80	C
50	142066	88	56	84	80	52	60	80	90	80	80	C
51	142073	60	48	80	80	68	70	90	60	90	70	E
52	142027	60	0	72	28	A	50	60	80	90	70	B
53	142030	88	88	92	84	84	70	80	70	70	70	B
54	142061	48	76	24	48	52	70	70	60	60	70	D
55	142037	92	64	92	88	76	80	70	80	80	80	A
56	142064	84	68	84	88	60	70	80	80	80	70	B
57	142010	84	76	72	92	68	70	80	70	80	70	E
58	142025	84	64	76	80	72	90	80	80	80	80	C
59	142303	68	48	76	84	84	70	70	70	70	80	C
60	142039	88	92	80	88	88	70	80	70	80	80	A
61	142020	96	80	76	84	68	70	80	80	70	70	B
62	142028	88	80	72	76	80	80	90	80	80	80	B
63	142042	44	72	76	60	52	60	70	70	70	70	C
64	142048	80	64	76	92	72	80	80	70	70	80	C
65	142003	96	88	96	92	80	90	90	80	80	90	B
66	142068	84	28	80	76	62	70	80	70	60	70	B
67	142053	84	60	80	84	66	70	70	80	70	80	D
68	142007	72	68	56	68	56	70	70	80	60	60	C
69	142305	96	44	92	56	80	70	70	80	80	70	B
70	142307	A	A	68	80	76	70	70	70	70	80	B
71	142023	96	64	76	96	72	80	70	70	70	70	C
72	142055	100	92	96	92	96	70	70	80	80	70	A
73	142046	44	16	64	40	52	70	60	80	60	70	E
74	142052	80	52	84	88	64	90	70	80	80	70	C
75	142103	56	44	A	A	64	70	70	60	70	70	C
76	142021	100	68	84	92	80	80	80	90	70	80	B
77	142018	76	44	80	44	48	70	70	80	80	80	E
78	142043	36	36	56	76	44	60	70	70	70	70	C
79	142065	24	0	52	32	72	80	70	80	60	80	E
80	142060	64	52	44	92	72	70	80	70	70	80	D
81	142006	92	52	72	88	A	80	70	80	70	80	B
82	142304	68	48	48	64	60	60	80	70	70	70	E
83	142014	88	40	84	88	A	70	70	60	80	70	C
84	142015	92	84	96	92	A	80	90	80	80	90	B
85	142069	32	28	48	72	64	70	60	70	60	70	E
86	142054	32	8	4	20	64	60	60	70	70	60	C
87	142062	28	24	92	92	84	80	70	70	70	80	A
88	142019	80	88	88	88	80	70	80	70	80	80	A
89	142005	64	64	88	72	52	70	80	80	80	70	B
90	142033	92	80	84	92	84	80	80	70	80	80	B
91	142105	76	24	A	A	60	60	60	70	70	60	C
92	142002	92	80	92	92	64	90	80	90	90	80	A
93	142102	68	44	72	84	52	70	70	80	70	70	A
94	142311	76	60	84	72	80	80	80	80	70	70	B

95	142310	72	40	80	64	76	70	70	70	70	70	B
96	142109	68	32	28	60	56	70	70	60	80	70	B

Benchmark :% of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment and $\geq C(7)$ grade in AU											
Total: 96	CIT					Assignments					CIT
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	
Count	80	48	75	65	75	37	47	61	50	56	74
%	84.21%	50.53%	80.65%	70%	81.52%	38.54%	48.96%	63.54%	52.08%	58.33%	77.08%
Level Obtained	3	0	3	0	3	0	0	1	0	0	2

### Attainment Calculation:

#### Survey:

Survey	C114.1	C114.2	C114.3	C114.4	C114.5
Obtained %	86.42	83.14	85.14	80.16	78.44
Obtained Level	3	3	3	3	2
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C114:

Course	Internal Test	Assign.	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C114.1	3	0	2.1	2	2.04	3	2.23
C114.2	0	0	0	2	1.2	3	1.56
C114.3	3	1	2.4	2	2.16	3	2.33
C114.4	2	0	1.4	2	1.76	3	2.01
C114.5	3	0	2.1	2	2.04	2	2.03
<b>C114</b>							<b>2.03</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C114.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C114.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C114.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C114.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C114.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C114 = \frac{C114.1 + C114.2 + C114.3 + C114.4 + C114.5}{5} = 2.03$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6201 Circuit Theory: C115**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO5	CO1	CO4	CO1	CO4	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
1	142009	100	96	92	92	100	100	90	90	80	90	80	90	100	100	100	100	100	A
2	142308	68	48	80	84	100	90	80	90	80	80	80	90	100	100	100	100	100	C
3	142022	48	72	88	88	100	90	80	90	80	80	80	90	100	100	100	100	100	D
4	142112	72	84	88	80	100	80	80	90	80	80	80	90	100	100	100	100	100	B
5	142070	32	8	68	68	100	90	80	90	80	80	80	90	100	100	100	100	100	E
6	142306	40	20	12	0	88	90	80	90	80	80	90	90	100	100	100	100	100	E
7	142063	76	24	72	28	100	80	80	90	80	90	90	80	100	100	100	100	100	D
8	142301	80	96	92	96	100	90	90	90	80	90	90	80	100	100	100	100	100	B
9	142034	84	80	92	84	88	90	90	90	80	90	90	80	100	100	100	100	100	C
10	142040	28	72	84	92	100	90	80	90	80	90	90	80	100	100	100	100	100	E
11	142071	76	40	80	84	100	90	80	90	80	90	80	80	100	100	100	100	100	B
12	142101	100	80	92	96	100	80	80	90	80	80	80	80	100	100	100	100	100	A
13	142017	24	76	92	80	80	80	80	90	80	80	80	90	100	100	100	100	100	D
14	142045	80	68	88	92	100	80	80	90	80	80	80	90	100	100	100	100	100	S
15	142302	68	72	92	80	100	80	80	90	80	80	80	90	100	100	100	100	100	C
16	142072	28	72	72	4	88	80	60	90	80	80	90	90	100	100	100	100	100	D
17	142111	32	8	40	72	100	80	80	90	80	80	90	90	100	100	100	100	100	E
18	142059	80	100	92	92	100	80	80	90	80	90	90	90	100	100	100	100	100	B
19	142050	72	52	88	88	100	60	60	90	80	90	80	80	100	100	100	100	100	C
20	142309	76	80	92	92	100	90	80	90	80	90	80	80	100	100	100	100	100	A
21	142056	84	76	96	96	100	90	90	90	80	90	80	80	100	100	100	100	100	C
22	142058	40	72	72	48	88	80	80	90	80	90	80	80	100	100	100	100	100	C
23	142004	100	100	92	96	100	90	90	90	80	80	80	80	100	100	100	100	100	C
24	142106	72	28	52	76	100	80	80	90	80	80	90	80	100	100	100	100	100	E
25	142104	72	76	88	80	100	80	80	90	80	80	90	90	100	100	100	100	100	D
26	142011	100	80	92	88	100	80	80	90	80	80	90	90	100	100	100	100	100	C
27	142041	92	96	88	88	100	80	80	90	80	80	90	90	100	100	100	100	100	A
28	142024	72	56	92	88	88	80	80	90	80	90	90	90	100	100	100	100	100	B
29	142026	68	68	96	96	100	80	80	90	80	90	80	80	100	100	100	100	100	B
30	142008	100	100	92	92	100	90	90	90	80	90	80	80	100	100	100	100	100	A
31	142038	92	92	92	88	100	80	80	90	80	90	80	80	100	100	100	100	100	B
32	142032	88	96	84	72	88	80	80	90	80	90	80	80	100	100	100	100	100	C
33	142001	96	96	88	88	100	80	80	90	80	80	80	80	100	100	100	100	100	B
34	142012	92	88	92	96	96	80	80	90	80	80	90	80	100	100	100	100	100	A
35	142057	80	88	84	88	100	80	80	90	80	80	90	80	100	100	100	100	100	B
36	142035	68	40	88	84	100	80	80	90	80	80	90	80	100	100	100	100	100	B
37	142047	88	92	80	84	100	80	80	90	80	80	90	80	100	100	100	100	100	B
38	142108	28	72	80	76	100	80	80	90	80	90	90	80	100	100	100	100	100	B
39	142013	80	92	88	88	100	80	80	90	80	90	80	80	100	100	100	100	100	A
40	142036	100	80	96	84	100	80	80	90	80	90	80	80	100	100	100	100	100	C
41	142067	88	92	92	92	100	80	80	90	80	90	80	80	100	100	100	100	100	C
42	142031	24	76	80	80	88	80	80	90	80	90	80	90	100	100	100	100	100	C
43	142074	84	80	92	96	88	80	80	90	80	80	80	90	100	100	100	100	100	B

44	142044	96	96	72	84	100	80	80	90	80	80	90	90	100	100	100	100	100	B
45	142107	96	96	80	76	100	80	80	90	80	80	90	90	100	100	100	100	100	B
46	142029	100	96	92	88	100	80	80	90	80	80	90	90	100	100	100	100	100	A
47	142016	80	52	84	88	100	80	80	90	80	80	90	90	100	100	100	100	100	A
48	142051	32	64	88	84	100	80	80	90	80	90	90	90	100	100	100	100	100	D
49	142110	72	68	88	88	100	80	80	90	80	90	80	80	100	100	100	100	100	C
50	142066	88	72	88	88	100	80	80	90	80	90	80	80	100	100	100	100	100	B
51	142073	36	32	60	72	A	80	80	90	80	90	80	80	100	100	100	100	100	U
52	142027	76	88	96	92	60	90	90	90	80	90	80	80	100	100	100	100	100	C
53	142030	64	80	96	96	72	90	90	90	90	80	90	90	100	100	100	100	100	B
54	142061	60	76	A	A	68	90	70	70	70	70	70	70	100	100	100	100	100	E
55	142037	72	100	92	100	60	90	90	90	80	80	80	80	100	100	100	100	100	B
56	142064	52	76	96	96	80	80	90	90	90	70	70	80	100	100	100	100	100	B
57	142010	68	60	100	96	60	90	80	90	70	80	70	80	100	100	100	100	100	B
58	142025	76	76	96	100	96	90	90	90	90	80	80	80	100	100	100	100	100	D
59	142303	84	68	64	80	60	90	90	90	90	90	90	90	100	100	100	100	100	B
60	142039	100	96	96	100	64	100	90	90	90	90	90	90	100	100	100	100	100	A
61	142020	76	92	80	80	60	90	90	90	90	80	80	90	100	100	100	100	100	D
62	142028	56	48	84	76	100	100	90	90	90	80	90	90	100	100	100	100	100	B
63	142042	88	64	84	100	100	90	90	90	80	80	90	90	100	100	100	100	100	C
64	142048	76	80	96	96	64	90	90	90	90	80	80	80	100	100	100	100	100	D
65	142003	100	100	100	100	100	90	90	90	90	90	90	90	100	100	100	100	100	A
66	142068	56	60	76	68	68	90	90	90	80	70	80	80	100	100	100	100	100	B
67	142053	68	84	64	88	68	90	90	90	70	80	80	80	100	100	100	100	100	C
68	142007	48	76	100	100	64	80	90	90	70	90	80	80	100	100	100	100	100	C
69	142305	16	88	92	92	60	90	80	90	70	80	80	80	100	100	100	100	100	C
70	142307	52	72	96	16	60	90	80	80	70	80	70	70	100	100	100	100	100	C
71	142023	80	82	100	100	100	90	90	90	90	80	90	80	100	100	100	100	100	B
72	142055	92	96	92	96	92	90	90	90	90	90	90	80	100	100	100	100	100	A
73	142046	24	60	A	A	84	90	80	70	70	70	70	80	100	100	100	100	100	D
74	142052	60	80	80	52	60	90	90	80	70	90	80	70	100	100	100	100	100	B
75	142103	68	76	72	68	60	90	80	80	70	70	80	90	100	100	100	100	100	A
76	142021	96	96	92	88	80	90	90	90	90	90	80	80	100	100	100	100	100	B
77	142018	60	84	100	84	60	90	90	90	90	80	90	80	100	100	100	100	100	E
78	142043	92	88	72	40	100	80	80	70	80	70	70	70	100	100	100	100	100	E
79	142065	44	60	44	28	60	90	80	70	70	70	80	80	100	100	100	100	100	C
80	142060	48	96	88	44	96	90	80	80	70	80	70	80	100	100	100	100	100	C
81	142006	76	88	84	84	A	100	90	90	90	90	80	80	100	100	100	100	100	B
82	142304	48	80	56	64	80	90	70	70	70	70	70	70	100	100	100	100	100	C
83	142014	68	92	52	52	60	90	80	80	70	70	80	80	100	100	100	100	100	C
84	142015	72	92	100	100	64	100	90	90	90	90	90	90	100	100	100	100	100	A
85	142069	44	60	76	68	92	90	80	80	70	70	80	80	100	100	100	100	100	C
86	142054	56	64	28	20	92	90	80	70	70	70	70	80	100	100	100	100	100	C
87	142062	56	80	88	92	60	90	90	80	90	80	80	80	100	100	100	100	100	B
88	142019	52	96	92	96	64	90	100	90	90	90	90	80	100	100	100	100	100	E
89	142005	76	92	64	84	60	90	90	90	90	70	80	70	100	100	100	100	100	A
90	142033	84	88	100	100	68	90	90	100	90	80	80	80	100	100	100	100	100	B
91	142105	64	88	92	88	92	90	90	80	70	70	80	80	100	100	100	100	100	C
92	142002	92	100	100	100	68	90	90	90	90	90	80	80	100	100	100	100	100	C
93	142102	52	76	72	68	64	90	80	80	70	80	90	80	100	100	100	100	100	C

94	142311	84	76	98	100	68	90	90	80	80	70	70	80	100	100	100	100	100	C
95	142310	96	88	92	96	60	90	90	90	90	80	80	90	100	100	100	100	100	C
96	142109	76	72	68	84	96	90	80	80	70	70	80	80	100	100	100	100	100	A

Benchmark: % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment and $\geq C(7)$ grade in AU   L – Level   Total=96																			
	CIT					Assignments			Survey		Quiz		Tutorial					AU	
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO5	CO1	CO4	CO1	CO4	CO1	CO2	CO3	CO4	CO5		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5		
%	71.88	84.46	92.55	88.3	100	98.96	95.83	93.75	100	100	100	100	100	100	100	100	100	100	79.17
L	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2

**Attainment Calculation:**

**Survey:**

Survey	C115.1	C115.2	C115.3	C115.4	C115.5
Obtained %	94.07	90.48	89.03	88.35	89.84
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C115:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C115.1	2	-	3	3	3	2.4	2	2.16	3	2.33
C115.2	3	3	-	-	3	3	2	2.4	3	2.52
C115.3	3	3	-	-	3	3	2	2.4	3	2.52
C115.4	3	-	3	3	3	3	2	2.4	3	2.52
C115.5	3	3	-	-	3	3	2	2.4	3	2.52
<b>C115</b>										<b>2.48</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C115.1	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]
C115.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C115.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C115.4	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]
C115.5	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C115 = \frac{C115.1 + C115.2 + C115.3 + C115.4 + C115.5}{5} = 2.48$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE6262 Physics and Chemistry Lab: C116**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	Model					AU
		CO1	CO2	CO3	CO4	CO5	
		M	M	M	M	M	
1	142009	94	94	94	94	94	S
2	142308	86	86	86	86	86	C
3	142022	87	87	87	87	87	C
4	142112	92	92	92	92	92	A
5	142070	80	80	80	80	80	C
6	142306	83	83	83	83	83	C
7	142063	81	81	81	81	81	C
8	142301	92	92	92	92	92	A
9	142034	95	95	95	95	95	A
10	142040	91	91	91	91	91	B
11	142071	85	85	85	85	85	B
12	142101	94	94	94	94	94	S
13	142017	83	83	83	83	83	C
14	142045	92	92	92	92	92	B
15	142302	91	91	91	91	91	B
16	142072	90	90	90	90	90	C
17	142111	84	84	84	84	84	C
18	142059	94	94	94	94	94	S
19	142050	87	87	87	87	87	D
20	142309	87	87	87	87	87	B
21	142056	89	89	89	89	89	S
22	142058	87	87	87	87	87	A
23	142004	87	87	87	87	87	S
24	142106	95	95	95	95	95	B
25	142104	88	88	88	88	88	C
26	142011	91	91	91	91	91	B
27	142041	88	88	88	88	88	S
28	142024	93	93	93	93	93	B
29	142026	93	93	93	93	93	B
30	142008	89	89	89	89	89	S
31	142038	85	85	85	85	85	C
32	142032	94	94	94	94	94	B
33	142001	92	92	92	92	92	S
34	142012	92	92	92	92	92	S
35	142057	91	91	91	91	91	B
36	142035	95	95	95	95	95	B
37	142047	95	95	95	95	95	B
38	142108	84	84	84	84	84	B
39	142013	93	93	93	93	93	A
40	142036	92	92	92	92	92	A
41	142067	87	87	87	87	87	A
42	142031	89	89	89	89	89	B
43	142074	86	86	86	86	86	S

44	142044	96	96	96	96	96	D
45	142107	84	84	84	84	84	A
46	142029	86	86	86	86	86	A
47	142016	90	90	90	90	90	A
48	142051	88	88	88	88	88	D
49	142110	84	84	84	84	84	S
50	142066	94	94	94	94	94	B
51	142073	90	90	90	90	90	B
52	142027	86	86	86	86	86	S
53	142030	88	88	88	88	88	S
54	142061	86	86	86	86	86	C
55	142037	88	88	88	88	88	A
56	142064	88	88	88	88	88	A
57	142010	87	87	87	87	87	B
58	142025	87	87	87	87	87	A
59	142303	88	88	88	88	88	A
60	142039	93	93	93	93	93	A
61	142020	88	88	88	88	88	B
62	142028	89	89	89	89	89	A
63	142042	84	84	84	84	84	B
64	142048	95	95	95	95	95	C
65	142003	96	96	96	96	96	S
66	142068	94	94	94	94	94	A
67	142053	84	84	84	84	84	A
68	142007	83	83	83	83	83	B
69	142305	93	93	93	93	93	S
70	142307	89	89	89	89	89	B
71	142023	91	91	91	91	91	B
72	142055	96	96	96	96	96	C
73	142046	80	80	80	80	80	C
74	142052	93	93	93	93	93	B
75	142103	83	83	83	83	83	A
76	142021	88	88	88	88	88	A
77	142018	89	89	89	89	89	B
78	142043	85	85	85	85	85	C
79	142065	82	82	82	82	82	C
80	142060	85	85	85	85	85	C
81	142006	88	88	88	88	88	A
82	142304	82	82	82	82	82	C
83	142014	88	88	88	88	88	B
84	142015	91	91	91	91	91	A
85	142069	85	85	85	85	85	E
86	142054	82	82	82	82	82	B
87	142062	89	89	89	89	89	A
88	142019	94	94	94	94	94	B
89	142005	86	86	86	86	86	C
90	142033	91	91	91	91	91	A
91	142105	93	93	93	93	93	B
92	142002	91	91	91	91	91	S
93	142102	87	87	87	87	87	C

94	142311	88	88	88	88	88	B
95	142310	88	88	88	88	88	A
96	142109	82	82	82	82	82	B

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq A(9)$ grade in AU   L – Level   C- Count						
Total 96	Model					AU
	CO1	CO2	CO3	CO4	CO5	
	M	M	M	M	M	
C	96	96	96	96	96	41
%	100	100	100	100	100	42.71
L	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C116.1	C116.2	C116.3	C116.4	C116.5
Obtained %	88	87.67	86.02	85.94	87.25
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C116:

Course	Internal Test	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C116.1	3	3	0	1.2	3	1.56
C116.2	3	3	0	1.2	3	1.56
C116.3	3	3	0	1.2	3	1.56
C116.4	3	3	0	1.2	3	1.56
C116.5	3	3	0	1.2	2	1.56
C116						<b>1.56</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C116.1	AU Exam	[1*Model]
C116.2	AU Exam	[1*Model]
C116.3	AU Exam	[1*Model]
C116.4	AU Exam	[1*Model]
C116.5	AU Exam	[1*Model]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C116 = \frac{C116.1 + C116.2 + C116.3 + C116.4 + C116.5}{5} = 1.56$$



**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE6263 Computer Programming Lab: C117**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	94	85	90		75	95	100	72	95		80	90	90	95	95	S
2	142308	86	75	80		70	80	95	67	95		60	85	100	80	89	A
3	142022	100	65	85		80	90		65	92	90	90	95	100	70	88	A
4	142112	96	65	90		70	90	80	80	95		70	85	100	65	85	S
5	142070	96	75	80		85	90	100	85	90		60	75	86	75	85	B
6	142306	100	85	95		85	95	90	85	95		55	85	87	70	70	B
7	142063	90	80	80	90	75	85		86	95		55	90	98	75	75	B
8	142301	95	85	90		75	95	100	87	92		95	90	75	95	95	S
9	142034	90	80	85		80	85		89	95	100	85	95	86	95	95	S
10	142040	90	80	95		75	85	100	72	92		75	85	88	75	75	A
11	142071	82	85	80	84	75	95		89	95	84	85	85	87	85	85	A
12	142101	90	90	90		80	95	90	88	90		85	100	96	90	90	S
13	142017	80	75	80		75	85	90	90	85		70	95	100	80	80	A
14	142045	100	85	85		85	95		90	95	90	90	90	89	90	90	S
15	142302	90	75	85		75	90		70	95	90	70	85	100	80	80	A
16	142072	90	65	80		55	95	100	65	90		60	90	89	75	75	A
17	142111	90	65	85		50	85	100	67	88		70	85	89	70	65	A
18	142059	100	75	90		70	95	80	90	88		70	95	100	80	75	A
19	142050	90	75	85		55	95		75	95	100	90	90	70	80	75	A
20	142309	93	75	90		75	95	100	67	98		95	90	100	90	90	S
21	142056	90	75	90		70	95	80	97	98		90	95	90	80	80	S
22	142058	90	65	85		55	95	100	80	95		85	90	80	75	75	A
23	142004	93	85	90		70	95	90	97	95		100	95	100	90	90	S
24	142106	90	75	85		65	90	100	87	90	92	95	95		95	95	A
25	142104	100	70	90		80	85	90	95	93		85	95	80	70	70	A
26	142011	66	75	95	96	60	85	80	65	93		60	100	70	95	95	S
27	142041	90	65	85		40	90	100	75	93		85	100	80	95	95	A
28	142024	75	75	95		60	85	90	77	93		85	90	100	85	85	S
29	142026	100	65	90		45	95	92	85	95		90	100	90	95	95	S
30	142008	90	75	90	96	70	95	100	77	85		90	95	90	100	100	S
31	142038	78	70	90		45	80	100	65	93		85	90	80	95	95	A
32	142032	66	55	90	90	75	95	85	65	93		85	90	86	95	95	A
33	142001	100	65	85		60	90	90	87	95		90	90	70	95	95	A
34	142012	100	75	90		85	95	90	80	98		100	90	80	90	90	S
35	142057	100	80	90		75	95	90	62	93		90	95	86	100	100	S
36	142035	100	65	90		55	100	88	67	93		85	85	100	95	95	A
37	142047	91	75	65		45	85	90	62	95		90	95	100	85	85	S
38	142108	98	85	85		50	90	92	60	93	100	85	80		90	90	A
39	142013	90	70	90		75	90	80	77	93		95	90	100	100	100	S
40	142036	100	85	90	90	75	95		70	93	90	95	100		95	95	S
41	142067	90	65	85		70	95	90	62	95		85	90	96	85	85	A
42	142031	85	60	90	90	65	80		57	95		90	90	96	85	85	B
43	142074	90	75	95		85	90	90	57	95		95	95	96	95	95	S
44	142044	100	95	95		70	90	91	60	93		85	90	90	85	85	A

45	142107	95	80	95	88	50	85		67	98		90	100	100	80	80	S
46	142029	95	90	90		85	90	92	67	93		100	95	95	95	95	S
47	142016	95	75	95		85	90	85	72	88		95	100	100	100	100	S
48	142051	88	85	95	90	65	85	81	75	93		100	95	91	95	95	S
49	142110	80	85	90		80	100	100	75	93		85	90	89	85	85	S
50	142066	90	85	90		65	90	90	62	85		85	95	90	85	85	A
51	142073	80	70	95		65	90	90	60	90	95	85	90		85	85	A
52	142027	100	70	100		70	90	75	60	100	100	70	90		70	90	S
53	142030		70	90	100	70	90		70	90	75	70	80	98	70	80	S
54	142061	100	50	90		70	90	90	40	90	63	50	90		50	90	B
55	142037	100	60	80		70	90	75	80	80	100	50	90		50	90	S
56	142064		80	90	100	70	90	76	60	80		50	90	100	60	90	A
57	142010	100	70	90		80	90	95	60	90		60	90	98	60	90	A
58	142025	95	70	80		70	90		70	90	90	70	90	98	70	90	A
59	142303	100	80	80		80	100	98	80	90		80	90	98	80	90	S
60	142039	95	80	90		80	90	98	90	80	100	80	90		80	80	S
61	142020	95	70	90		70	80	98	70	90		70	90	98	70	90	A
62	142028	100	70	90		70	80	95	70	90		70	90	93	70	90	S
63	142042	90	60	90		70	90	95	70	90		80	80	90	70	90	S
64	142048	100	80	80		80	90	100	80	90	76	80	90		80	90	S
65	142003	100	90	80		80	80	100	90	90	98	80	90		80	90	S
66	142068		80	90	100	80	80	88	50	90		60	90	83	50	80	S
67	142053		70	90	100	90	80	98	70	90		70	90	88	70	80	S
68	142007		60	90	100	50	80		60	80	88	50	90	93	60	90	A
69	142305		60	90	100	60	90	90	60	90	88	50	90		50	90	A
70	142307	100	70	90		70	90	86	60	90		60	90	93	50	80	A
71	142023		80	80	100	80	90	93	70	80		70	80	95	70	80	S
72	142055	95	70	80		80	90	95	80	80		70	80	93	70	90	S
73	142046		60	90	90	70	80	75	60	90	100	60	80		60	100	A
74	142052	95	70	90		70	80	100	60	90		60	80	85	60	90	A
75	142103		60	90	100	70	80	100	50	90	75	50	90		50	90	A
76	142021	100	70	90		70	80	90	70	90		70	90	100	70	90	S
77	142018		80	90	100	80	90	100	70	100	95	70	100		70	90	S
78	142043	100	70	90		70	90	78	60	90	100	60	90		60	80	A
79	142065		60	90	100	60	90	100	50	90	75	50	90		50	90	A
80	142060	100	60	90		60	90	70	50	90		50	90	100	50	90	A
81	142006		60	90	80	60	90		70	90	80	80	80	100	80	90	S
82	142304	100	60	90		60	80	100	50	90	98	60	90		60	90	A
83	142014	100	60	90		60	90	95	50	80		50	90	75	60	90	S
84	142015	100	70	90		70	90	100	80	90	90	90	90		80	90	S
85	142069		50	90	100	60	90	95	50	90		50	90	75	50	90	A
86	142054	100	50	90		60	90	93	50	80	75	50	90		50	90	B
87	142062		60	90	95	60	90	100	70	90		70	90	75	70	90	A
88	142019	100	70	90		70	90	100	80	90	80	80	90		80	90	S
89	142005	100	70	80		80	90	80	80	90	100	80	90		80	90	A
90	142033		60	80	100	60	90	90	80	90	95	80	90		80	80	S
91	142105	100	70	90		70	90	100	70	90		70	80	75	70	80	A
92	142002		80	90	100	80	90	78	80	90	100	80	80		80	80	S
93	142102	100	60	90		60	90	100	70	80		50	90	80	60	90	A
94	142311	100	70	90		70	90	85	70	80	100	70	90		70	90	S

95	142310	100	70	80		60	80	100	60	80		60	80	75	60	90	A
96	142109		50	90	100	70	80	78	60	90	100	60	90		60	90	S

**Benchmark:** % of Students secured  $\geq 80$  marks in Model,  $\geq 70$  in Viva,  $\geq 80$  in Record  $\geq A(9)$  grade in AU | L – Level | C- Count | P – Total Present

	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	79	96	96	26	96	96	82	96	96	35	96	96	71	96	96	96
C	75	66	95	26	64	96	74	56	96	29	69	95	62	74	87	96
%	95	69	98.96	100	66.67	100	90.24	58.33	100	82.86	71.88	98.96	87.32	77.08	90.63	100
L	3	1	3	3	1	3	3	0	3	3	2	3	3	2	3	3

### Attainment Calculation:

#### Survey:

Survey	C117.1	C117.2	C117.3	C117.4	C117.5
Obtained %	91.47	89.41	88.63	89.32	88.69
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

#### Course Outcome Attainment – C117:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C117.1	3	1	3	3	3	2.6	3	2.84
C117.2	3	1	3	3	3	2.6	3	2.84
C117.3	3	0	3	3	3	2.4	3	2.76
C117.4	3	2	3	3	3	2.8	3	2.92
C117.5	3	2	3	3	3	2.8	3	2.92
C117								<b>2.88</b>

#### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C117.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C117.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C117.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C117.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C117.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

#### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C117 = \frac{C117.1 + C117.2 + C117.3 + C117.4 + C117.5}{5} = 2.88$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6211 Electric Circuits Lab: C118**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009		80	90	99	80	90		80	90		80	90		80	90	S
2	142308		70	90		70	90	95	70	90		70	90		70	90	B
3	142022		80	90		80	90		80	90	99	80	90		80	90	B
4	142112		70	90		70	90		70	90		70	90	95	70	90	A
5	142070		80	90		80	90	95	80	90		80	90		80	90	C
6	142306	80	70	90		70	90		70	90		70	90		70	90	B
7	142063		80	90		80	90	90	80	90		80	90		80	90	A
8	142301		70	90		70	90		70	90	99	70	90		70	90	A
9	142034		80	90		80	90		80	90		80	90	99	80	90	A
10	142040	99	70	90		70	90		70	90		70	90		70	90	A
11	142071		80	90	99	80	90		80	90		80	90		80	90	A
12	142101	99	70	90		70	90		70	90		70	90		70	90	S
13	142017		80	90	99	80	90		80	90		80	90		80	90	A
14	142045	99	70	90		70	90		70	90		70	90		70	90	S
15	142302		80	90		80	90	99	80	90		80	90		80	90	S
16	142072		70	90		70	90		70	90	80	70	90		70	90	B
17	142111		80	90		80	90		80	90		80	90	95	80	90	A
18	142059		70	90	99	70	90		70	90		70	90		70	90	S
19	142050		80	90	99	80	90		80	90		80	90		80	90	A
20	142309		70	90		70	90	99	70	90		70	90		70	90	S
21	142056		80	90	99	80	90		80	90		80	90		80	90	S
22	142058		70	90		70	90	95	70	90		70	90		70	90	A
23	142004	99	80	90		80	90		80	90		80	90		80	90	S
24	142106		70	90		70	90		70	90	95	70	90		70	90	A
25	142104		80	90		80	90		80	90		80	90	95	80	90	A
26	142011	99	70	90		70	90		70	90		70	90		70	90	A
27	142041		80	90	99	80	90		80	90		80	90		80	90	S
28	142024	99	70	90		70	90		70	90		70	90		70	90	S
29	142026		80	90	99	80	90		80	90		80	90		80	90	S
30	142008	99	70	90		70	90		70	90		70	90		70	90	S
31	142038		80	90	99	80	90		80	90		80	90		80	90	S
32	142032	99	70	90		70	90		70	90		70	90		70	90	A
33	142001		80	90		80	90		80	90	95	80	90		80	90	S
34	142012		70	90		70	90		70	90		70	90	99	70	90	S
35	142057		80	90		80	90		80	90	99	80	90		80	90	S
36	142035		70	90		70	90		70	90		70	90	99	70	90	A
37	142047	99	80	90		80	90		80	90		80	90		80	90	S
38	142108		70	90	99	70	90		70	90		70	90		70	90	A
39	142013		80	90		80	90	99	80	90		80	90		80	90	A
40	142036		70	90		70	90		70	90	99	70	90		70	90	S
41	142067		80	90		80	90		80	90		80	90	99	80	90	A
42	142031		70	90		70	90		70	90	99	70	90		70	90	S
43	142074		80	90		80	90	99	80	90		80	90		80	90	S
44	142044		70	90	99	70	90		70	90		70	90		70	90	S

45	142107	99	80	90		80	90		80	90		80	90		80	90	A
46	142029		70	90	99	70	90		70	90		70	90		70	90	S
47	142016		80	90		80	90	99	80	90		80	90		80	90	S
48	142051	99	70	90		70	90		70	90		70	90		70	90	A
49	142110		80	90	99	80	90		80	90		80	90		80	90	A
50	142066		70	90		70	90	99	70	90		70	90		70	90	S
51	142073		80	90		80	90		80	90		80	90	95	70	90	A
52	142027	98	70	90		80	90		80	90		80	90		80	90	A
53	142030		80	90	94	90	90		70	90		90	90		70	90	S
54	142061	88	70	90		80	90		80	90		70	90		80	90	A
55	142037		80	90	92	70	90		90	90		80	90		70	90	A
56	142064	96	70	90		80	90		80	90		90	90		80	90	A
57	142010	96	80	90		70	90		70	90		70	90		70	90	A
58	142025		70	90	90	80	90		80	90		80	90		80	90	A
59	142303	97	80	90		90	90		90	90		90	90		80	90	S
60	142039		70	90	95	80	90		70	90		70	90		70	90	S
61	142020		80	90		70	90	93	80	90		80	90		90	90	A
62	142028		70	90		80	90		90	90	91	90	90		80	90	S
63	142042		80	90		90	90		80	90		70	90	90	70	90	S
64	142048		70	90	95	80	90		70	90		80	90		80	90	A
65	142003	90	80	90		70	90		80	90		90	90		90	90	S
66	142068		70	90		80	90		90	90	96	70	90		70	90	S
67	142053	90	80	90		90	90		70	90		80	90		80	90	S
68	142007		70	90		80	90	97	80	90		90	90		90	90	S
69	142305		80	90		90	90		90	90		70	90	91	80	90	S
70	142307		70	90	92	80	90		80	90		80	90		80	90	B
71	142023	94	80	90		70	90		70	90		70	90		70	90	S
72	142055		70	90		80	90	96	80	90		80	90		80	90	S
73	142046		80	90		70	90		90	90	90	90	90		90	90	C
74	142052		70	90		80	90		80	90		80	90	88	80	90	A
75	142103	86	80	90		70	90		70	90		70	90		70	90	S
76	142021		70	90	92	80	90		80	90		80	90		80	90	A
77	142018		80	90		70	90	96	90	90		90	90		90	90	S
78	142043		70	90		80	90		80	90	85	80	90		80	90	B
79	142065		80	90		80	90		70	90		70	90	90	70	90	A
80	142060		70	90	84	70	90		80	90		80	90		80	90	A
81	142006	96	80	90		80	90		90	90		90	90		70	90	S
82	142304		70	90		80	90	86	80	90		80	90		80	90	A
83	142014		80	90		70	90		70	90	92	70	90		70	90	A
84	142015	94	70	90		80	90		80	90		80	90		70	90	S
85	142069		80	90	92	80	90		90	90		90	90		80	90	C
86	142054		70	90		70	90	84	80	90		80	90		80	90	B
87	142062		80	90		80	90		70	90		70	90	90	70	90	A
88	142019	96	70	90		80	90		80	90		80	90		80	90	A
89	142005		80	90		70	90	92	70	90		70	90		70	90	A
90	142033		70	90	96	80	90		70	90		70	90		70	90	S
91	142105		80	90		70	90		80	90	90	80	90		80	90	B
92	142002		70	90		70	90		70	90		70	90	92	70	90	A
93	142102	94	80	90		80	90		80	90		80	90		80	90	S
94	142311		70	90	94	70	90		80	90		80	90		80	90	A

95	142310		80	90		80	90		70	90	94	70	90		70	90	S
96	142109	90	70	90		70	90		70	90		70	90		70	90	S

**Benchmark:** % of Students secured  $\geq 80$  marks in Model,  $\geq 70$  in Viva,  $\geq 80$  in Record  $\geq A(9)$  grade in AU | L – Level | C- Count | P – Total Present

	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	26	96	96	24	96	96	17	96	96	15	96	96	14	96	96	96
C	26	96	96	24	96	96	17	96	96	15	96	96	14	96	96	96
%	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

### Attainment Calculation:

### Survey:

Survey	C118.1	C118.2	C118.3	C118.4	C118.5
Obtained %	89.99	89.35	90.07	88.18	89.04
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C118:

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C118.1	3	3	3	3	3	3	3	3
C118.2	3	3	3	3	3	3	3	3
C118.3	3	3	3	3	3	3	3	3
C118.4	3	3	3	3	3	3	3	3
C118.5	3	3	3	3	3	3	3	3
C118								3

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C118.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C118.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C118.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C118.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C118.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C118 = \frac{C118.1 + C118.2 + C118.3 + C118.4 + C118.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: MA6351 Transforms and Partial Differential Equations: C201**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment					Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	T1	T2	T3	T4	T5	
1	142001	100	84	100	100	100	100	100	100	100	100	100	100	100	100	100	A
2	142002	96	94	92	100	0	100	100	100	100	100	100	100	100	100	100	C
3	142003	100	100	92	100	100	100	100	100	100	100	100	100	100	100	100	B
4	142004	100	68	55	35	100	100	100	100	100	100	100	100	100	100	100	D
5	142005	96	68	96	80	96	100	100	100	100	100	100	100	100	100	100	E
6	142006	94	90	94	82	72	100	100	100	100	100	100	100	100	100	100	B
7	142007	76	88	50	70	80	100	100	100	100	100	100	100	100	100	100	C
8	142008	100	100	86	74	100	100	100	100	100	100	100	100	100	100	100	C
9	142009	100	99	67	61	80	100	100	100	100	100	100	100	100	100	100	B
10	142010	20	22	70	76	72	100	100	100	100	100	100	100	100	100	100	U
11	142011	66	66	34	51	50	100	100	100	100	100	100	100	100	100	100	C
12	142012	100	100	52	45	82	100	100	100	100	100	100	100	100	100	100	B
13	142013	100	80	76	42	80	100	100	100	100	100	100	100	100	100	100	C
14	142014	64	60	80	84	56	100	100	100	100	100	100	100	100	100	100	E
15	142015	96	88	94	94	96	100	100	100	100	100	100	100	100	100	100	B
16	142016	80	100	76	61	100	100	100	100	100	100	100	100	100	100	100	D
17	142017	100	60	21	39	100	100	100	100	100	100	100	100	100	100	100	E
18	142018	44	80	74	74	96	100	100	100	100	100	100	100	100	100	100	E
19	142019	88	80	64	60	44	100	100	100	100	100	100	100	100	100	100	D
20	142020	60	80	70	66	32	100	100	100	100	100	100	100	100	100	100	E
21	142021	90	94	80	92	92	100	100	100	100	100	100	100	100	100	100	B
22	142022	60	56	38	49	56	100	100	100	100	100	100	100	100	100	100	D
23	142023	72	64	70	78	68	100	100	100	100	100	100	100	100	100	100	C
24	142024	80	60	64	80	68	100	100	100	100	100	100	100	100	100	100	C
25	142025	60	68	76	76	96	100	100	100	100	100	100	100	100	100	100	C
26	142026	100	28	86	52	98	100	100	100	100	100	100	100	100	100	100	C
27	142027	18	6	6	16	24	100	100	100	100	100	100	100	100	100	100	E
28	142028	56	80	100	96	76	100	100	100	100	100	100	100	100	100	100	C
29	142029	100	60	41	29	56	100	100	100	100	100	100	100	100	100	100	E
30	142030	64	60	76	84	92	100	100	100	100	100	100	100	100	100	100	E
31	142031	78	100	62	22	50	100	100	100	100	100	100	100	100	100	100	D
32	142032	62	100	34	61	100	100	100	100	100	100	100	100	100	100	100	D
33	142033	90	98	0	0	0	100	100	100	100	100	100	100	100	100	100	D
34	142034	60	50	0	0	64	100	100	100	100	100	100	100	100	100	100	C
35	142035	78	78	1	6	50	100	100	100	100	100	100	100	100	100	100	B
36	142036	60	100	45	39	64	100	100	100	100	100	100	100	100	100	100	B
37	142037	80	84	90	94	92	100	100	100	100	100	100	100	100	100	100	B
38	142038	52	100	20	16	64	100	100	100	100	100	100	100	100	100	100	E
39	142039	80	92	76	80	92	100	100	100	100	100	100	100	100	100	100	B
40	142040	80	56	16	0	56	100	100	100	100	100	100	100	100	100	100	E
41	142041	100	44	83	36	80	100	100	100	100	100	100	100	100	100	100	C
42	142042	60	44	66	70	80	100	100	100	100	100	100	100	100	100	100	C
43	142043	84	80	68	60	50	100	100	100	100	100	100	100	100	100	100	E
44	142044	80	84	20	16	64	100	100	100	100	100	100	100	100	100	100	C
45	142045	100	84	72	61	56	100	100	100	100	100	100	100	100	100	100	C

46	142046	30	42	40	44	28	100	100	100	100	100	100	100	100	100	100	E
47	142047	29	25	48	38	52	100	100	100	100	100	100	100	100	100	100	C
48	142048	80	88	66	66	84	100	100	100	100	100	100	100	100	100	100	B
49	142050	80	44	44	45	92	100	100	100	100	100	100	100	100	100	100	E
50	142051	80	64	65	67	94	100	100	100	100	100	100	100	100	100	100	A
51	142052	82	98	70	70	100	100	100	100	100	100	100	100	100	100	100	A
52	142053	60	72	62	78	76	100	100	100	100	100	100	100	100	100	100	E
53	142054	24	40	50	50	8	100	100	100	100	100	100	100	100	100	100	E
54	142055	84	100	94	90	72	100	100	100	100	100	100	100	100	100	100	C
55	142056	80	24	38	61	92	100	100	100	100	100	100	100	100	100	100	B
56	142057	60	84	72	48	80	100	100	100	100	100	100	100	100	100	100	C
57	142058	27	25	0	16	40	100	100	100	100	100	100	100	100	100	100	U
58	142059	80	79	86	55	80	100	100	100	100	100	100	100	100	100	100	A
59	142060	50	62	60	56	24	100	100	100	100	100	100	100	100	100	100	C
60	142061	2	10	0	0	12	100	100	100	100	100	100	100	100	100	100	U
61	142062	60	64	88	80	80	100	100	100	100	100	100	100	100	100	100	E
62	142063	10	8	0	0	60	100	100	100	100	100	100	100	100	100	100	U
63	142064	60	56	64	60	52	100	100	100	100	100	100	100	100	100	100	E
64	142065	72	68	64	72	96	100	100	100	100	100	100	100	100	100	100	E
65	142066	100	56	86	62	68	100	100	100	100	100	100	100	100	100	100	C
66	142067	96	96	96	92	92	100	100	100	100	100	100	100	100	100	100	B
67	142068	60	80	60	84	56	100	100	100	100	100	100	100	100	100	100	D
68	142069	32	24	50	58	8	100	100	100	100	100	100	100	100	100	100	E
69	142070	0	0	0	10	50	100	100	100	100	100	100	100	100	100	100	U
70	142071	40	20	28	13	50	100	100	100	100	100	100	100	100	100	100	UA
71	142072	56	20	0	32	36	100	100	100	100	100	100	100	100	100	100	E
72	142073	50	50	10	51	0	100	100	100	100	100	100	100	100	100	100	C
73	142074	50	50	20	50	16	100	100	100	100	100	100	100	100	100	100	E
74	142101	80	76	72	55	56	100	100	100	100	100	100	100	100	100	100	C
75	142102	74	74	88	80	76	100	100	100	100	100	100	100	100	100	100	D
76	142103	62	30	44	80	50	100	100	100	100	100	100	100	100	100	100	C
77	142104	60	52	28	26	68	100	100	100	100	100	100	100	100	100	100	U
78	142105	64	76	76	40	52	100	100	100	100	100	100	100	100	100	100	E
79	142106	50	50	25	25	0	100	100	100	100	100	100	100	100	100	100	E
80	142107	70	46	8	72	28	100	100	100	100	100	100	100	100	100	100	E
81	142108	56	80	34	41	16	100	100	100	100	100	100	100	100	100	100	U
82	142109	40	32	4	40	50	100	100	100	100	100	100	100	100	100	100	U
83	142110	20	24	0	0	40	100	100	100	100	100	100	100	100	100	100	E
84	142111	50	50	10	25	54	100	100	100	100	100	100	100	100	100	100	U
85	142112	60	80	59	25	68	100	100	100	100	100	100	100	100	100	100	D
86	142301	84	100	76	68	100	100	100	100	100	100	100	100	100	100	100	C
87	142302	56	80	55	16	50	100	100	100	100	100	100	100	100	100	100	E
88	142303	60	64	80	76	76	100	100	100	100	100	100	100	100	100	100	D
89	142304	56	64	64	68	64	100	100	100	100	100	100	100	100	100	100	C
90	142305	24	20	80	68	100	100	100	100	100	100	100	100	100	100	100	E
91	142306	52	50	0	0	28	100	100	100	100	100	100	100	100	100	100	U
92	142307	40	44	66	70	92	100	100	100	100	100	100	100	100	100	100	C
93	142308	50	50	7	26	80	100	100	100	100	100	100	100	100	100	100	E
94	142309	60	20	48	48	72	100	100	100	100	100	100	100	100	100	100	B
95	142310	74	70	84	80	76	100	100	100	100	100	100	100	100	100	100	E



96	142311	76	84	84	76	68	100	100	100	100	100	100	100	100	100	100	E
97	152901	4	0	7	10	0	100	100	100	100	100	100	100	100	100	100	U
98	152902	20	32	20	20	4	100	100	100	100	100	100	100	100	100	100	U
99	152903	12	4	13	38	4	100	100	100	100	100	100	100	100	100	100	U
100	152904	24	32	28	40	60	100	100	100	100	100	100	100	100	100	100	U
101	152905	35	25	0	35	20	100	100	100	100	100	100	100	100	100	100	U
102	152906	4	8	12	20	40	100	100	100	100	100	100	100	100	100	100	U
103	152907	60	20	7	16	50	100	100	100	100	100	100	100	100	100	100	U
104	152908	22	22	16	16	8	100	100	100	100	100	100	100	100	100	100	U
105	152909	12	8	40	44	50	100	100	100	100	100	100	100	100	100	100	E
106	152910	12	56	31	32	20	100	100	100	100	100	100	100	100	100	100	E
107	152911	0	4	8	20	0	100	100	100	100	100	100	100	100	100	100	E
108	152912	16	20	36	12	0	100	100	100	100	100	100	100	100	100	100	U
109	152913	18	38	28	40	28	100	100	100	100	100	100	100	100	100	100	E
110	152914	0	0	4	16	0	100	100	100	100	100	100	100	100	100	100	U
111	152915	18	50	36	44	32	100	100	100	100	100	100	100	100	100	100	U
112	152916	60	12	48	39	24	100	100	100	100	100	100	100	100	100	100	E
113	152917	14	18	0	0	24	100	100	100	100	100	100	100	100	100	100	U
114	152918	18	6	24	40	8	100	100	100	100	100	100	100	100	100	100	U
115	152919	0	8	4	12	0	100	100	100	100	100	100	100	100	100	100	U
116	152920	8	12	0	20	16	100	100	100	100	100	100	100	100	100	100	U
117	152921	50	6	0	39	50	100	100	100	100	100	100	100	100	100	100	E
118	152922	10	46	32	20	12	100	100	100	100	100	100	100	100	100	100	U
119	152923	4	16	40	40	32	100	100	100	100	100	100	100	100	100	100	E
120	152924	30	30	59	55	16	100	100	100	100	100	100	100	100	100	100	E
121	152925	8	8	0	7	20	100	100	100	100	100	100	100	100	100	100	U
122	152926	10	22	20	52	0	100	100	100	100	100	100	100	100	100	100	UA
123	152927	12	8	0	26	0	100	100	100	100	100	100	100	100	100	100	U
124	152928	12	16	60	40	28	100	100	100	100	100	100	100	100	100	100	U

<b>Benchmark: % of Students secured <math>\geq 60</math> marks in CITs, <math>\geq 80</math> in assignment, <math>\geq 65</math> in Tutorial and <math>\geq C(7)</math> grade in AU   L – Level, C-Count</b>																
	CIT					Assignment					Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	T1	T2	T3	T4	T5	
C	69	60	54	49	58	124	124	124	124	124	124	124	124	124	124	44
%	55.65	48.39	43.55	39.52	46.77	100	100	100	100	100	100	100	100	100	100	35.48
L	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C201.1	C201.2	C201.3	C201.4	C201.5
Obtained %	91.63	92.05	93.28	89.57	88.38
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C201:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C201.1	0	3				0.9	0	0.36	3	0.89
C201.2	0	3				0.9	0	0.36	3	0.89
C201.3	0	3				0.9	0	0.36	3	0.89
C201.4	0	3				0.9	0	0.36	3	0.89
C201.5	0	3				0.9	0	0.36	2	0.89
<b>C201</b>										0.89

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C201.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C201.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C201.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C201.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C201.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C201 = \frac{C201.1 + C201.2 + C201.3 + C201.4 + C201.5}{5} = 0.89$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6301 Digital Logic Circuits: C202**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO1	CO5	CO2	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
1	142009	60	92	64	84	96	100	100	100	100	100	100	100	100	100	100	100	100	A
2	142308	28	88	28	72	70	100	100	100	100	100	100	100	100	100	100	100	100	E
3	142022	0	0	60	80	80	100	100	100	100	100	100	100	100	100	100	100	100	D
4	142112	56	88	88	72	76	100	100	100	100	100	100	100	100	100	100	100	100	E
5	142070	0	12	56	56	66	100	100	100	100	0	100	100	100	0	100	100	100	U
6	142306	36	68	0	32	84	100	100	100	100	100	100	100	100	100	100	100	100	U
7	142063	20	36	24	24	66	100	100	100	100	0	100	100	100	100	100	100	100	U
8	142301	72	88	84	88	98	100	100	100	100	100	100	100	100	100	100	100	100	B
9	142034	76	84	80	72	88	100	100	100	100	100	100	100	100	100	100	100	100	E
10	142040	48	76	48	56	66	100	100	100	100	0	100	100	100	100	100	100	100	E
11	142071	68	76	32	68	92	100	100	100	100	100	100	100	0	100	100	100	100	U
12	142101	68	36	84	80	92	100	100	100	100	0	100	100	100	100	100	100	0	B
13	142017	60	64	32	72	88	100	100	100	100	100	100	100	100	100	100	100	100	E
14	142045	96	84	A	A	92	100	100	100	100	100	100	100	100	100	100	100	100	B
15	142302	46	88	84	72	86	100	100	100	100	100	100	100	100	100	100	100	100	C
16	142072	48	52	44	36	80	100	100	100	100	100	100	100	100	100	100	100	100	E
17	142111	16	12	28	44	72	100	100	100	100	100	100	100	100	100	100	100	100	U
18	142059	64	72	80	92	96	100	100	100	100	100	100	100	100	100	100	100	100	C
19	142050	76	24	76	84	80	100	100	100	100	100	100	100	100	100	100	100	100	C
20	142309	84	88	56	80	92	100	100	100	100	100	100	100	100	0	100	100	100	C
21	142056	56	84	48	76	92	100	100	100	100	100	100	100	100	100	100	100	100	E
22	142058	36	80	44	56	76	100	100	100	100	100	100	100	100	100	100	100	100	U
23	142004	64	68	84	76	92	100	100	100	100	100	100	100	100	100	100	100	100	D
24	142106	68	32	72	4	70	100	100	100	100	100	100	100	100	100	100	100	100	U
25	142104	76	24	56	48	80	100	100	100	100	0	100	100	100	100	100	100	100	U
26	142011	60	44	24	8	88	100	100	100	100	100	100	100	100	100	100	100	100	C
27	142041	60	40	60	64	68	100	100	100	0	100	100	100	100	100	0	100	100	C
28	142024	60	48	56	80	76	100	100	100	100	100	100	100	0	100	100	100	100	C
29	142026	72	84	52	92	92	100	100	100	100	100	100	100	100	100	100	100	100	D
30	142008	80	36	88	92	96	100	100	100	100	100	100	100	100	100	100	100	100	A
31	142038	84	48	52	52	92	100	100	100	0	100	100	100	100	100	100	0	100	C
32	142032	60	64	88	80	100	100	100	100	100	100	100	100	100	100	100	100	100	C
33	142001	80	96	84	92	92	100	100	100	100	0	100	100	100	100	100	100	100	B
34	142012	40	96	80	76	96	100	100	100	100	100	100	100	100	100	100	100	100	B
35	142057	96	84	A	A	100	100	100	100	100	100	100	100	100	100	100	100	100	C
36	142035	60	48	44	76	84	100	100	100	100	100	100	100	100	100	100	100	100	D
37	142047	40	100	96	28	76	100	100	100	100	100	0	100	100	100	0	100	100	D
38	142108	76	40	76	28	88	100	100	100	100	100	100	100	100	100	100	100	100	D
39	142013	84	76	68	72	80	100	100	100	100	100	100	100	100	100	100	100	100	C
40	142036	56	56	86	80	92	100	100	100	100	100	100	100	100	100	100	100	100	C
41	142031	68	92	64	80	92	100	100	100	100	100	100	100	100	0	100	100	100	E
42	142074	28	84	52	60	84	100	100	100	100	100	100	100	100	100	100	100	100	U
43	142044	92	88	A	A	96	100	100	100	100	100	100	100	100	100	100	100	100	E
44	142107	84	100	44	56	84	100	100	100	100	100	0	100	100	100	0	100	100	E
45	142029	76	80	80	68	80	100	100	100	100	100	100	100	0	100	100	100	100	E
46	142016	88	100	A	A	96	100	100	100	100	100	100	100	100	100	100	100	100	E
47	142051	92	84	A	A	92	100	100	100	100	100	100	100	100	100	100	100	100	E
48	142110	18	84	64	36	72	100	100	100	100	100	100	100	100	100	100	100	100	E
49	142066	84	80	56	76	88	100	100	100	100	100	100	100	100	0	100	100	100	D
50	142073	72	76	48	60	50	100	100	100	100	100	100	100	0	100	100	100	100	U
51	142027	68	68	8	36	60	100	100	100	0	100	100	100	100	100	100	100	100	U
52	142067	96	88	76	72	96	100	100	100	100	100	100	100	100	100	100	100	100	U

53	142030	72	88	80	60	92	100	100	100	100	100	100	100	100	100	100	100	100	B
54	142061	24	8	4	4	72	100	100	100	100	100	100	100	100	0	100	100	100	U
55	142037	68	92	76	88	84	100	100	100	100	100	100	100	100	100	100	100	100	B
56	142064	56	88	68	72	84	100	100	100	100	100	100	100	0	100	0	100	100	D
57	142010	84	88	A	A	88	100	100	100	100	0	100	100	100	100	100	100	100	E
58	142025	80	96	72	92	88	100	100	100	100	100	100	100	100	100	100	100	100	C
59	142303	100	68	56	72	92	100	100	100	100	100	100	100	100	100	100	100	100	B
60	142039	84	84	84	96	88	100	100	100	100	100	100	100	100	100	100	100	100	B
61	142020	92	84	48	84	84	100	100	100	100	100	100	100	100	100	100	100	100	D
62	142028	76	80	80	48	88	100	100	100	100	100	100	100	100	100	100	100	100	E
63	142042	68	96	52	48	88	100	100	100	100	100	100	100	100	100	100	100	100	E
64	142048	84	92	80	88	92	100	100	100	100	100	100	100	100	100	100	100	100	E
65	142003	96	96	84	88	92	100	100	100	100	100	100	100	100	100	100	100	100	B
66	142068	84	96	64	80	72	100	100	100	100	100	100	100	100	100	100	100	100	E
67	142053	80	92	68	92	88	100	100	100	100	100	100	100	100	100	100	100	100	C
68	142007	44	96	72	52	88	100	100	100	100	100	100	100	100	100	100	100	100	E
69	142305	96	76	64	76	72	100	100	100	100	100	100	100	100	100	100	100	100	E
70	142307	84	88	52	92	68	100	100	100	100	100	100	100	100	100	100	100	100	D
71	142023	84	88	80	80	92	100	100	100	100	100	100	100	100	100	100	100	100	C
72	142055	76	84	84	84	92	100	100	100	100	100	100	0	100	100	100	100	0	B
73	142046	24	68	44	36	72	100	100	100	100	100	100	100	100	100	100	100	100	U
74	142052	68	84	52	76	84	100	100	100	100	100	100	100	100	100	100	100	100	A
75	142103	52	48	80	48	76	100	100	100	100	100	100	100	100	0	100	100	100	A
76	142021	88	96	72	84	88	100	100	100	100	100	100	100	100	100	100	100	100	C
77	142018	48	76	36	24	84	100	100	100	100	100	100	100	100	0	100	100	100	D
78	142043	88	96	68	40	92	100	100	100	100	100	100	0	100	100	100	100	0	E
79	142065	84	76	68	68	88	100	100	100	100	100	100	100	0	100	100	100	100	U
80	142060	56	68	60	84	84	100	100	100	0	100	100	100	100	100	100	100	100	E
81	142006	88	96	76	76	92	100	100	100	100	100	100	100	100	100	100	100	100	A
82	142304	76	76	52	64	80	100	100	100	100	100	100	100	100	0	100	100	100	E
83	142014	84	84	68	68	92	100	100	100	100	100	100	100	100	0	100	100	100	E
84	142015	96	92	84	92	92	100	100	100	100	100	100	100	100	100	100	100	100	E
85	142069	44	20	44	68	92	100	100	100	100	100	100	100	0	100	100	100	100	E
86	142054	40	72	20	40	84	100	100	100	100	100	100	100	100	100	100	100	100	C
87	142062	76	40	92	64	92	100	100	100	100	100	100	100	100	100	100	100	100	A
88	142019	88	76	52	84	92	100	100	100	100	100	100	0	100	100	100	100	0	B
89	142005	80	92	76	84	92	100	100	100	100	0	100	0	100	100	100	100	100	B
90	142033	100	96	A	A	A	100	100	100	100	100	100	100	100	0	0	0	0	B
91	142105	68	64	36	72	84	100	100	100	100	100	100	100	100	100	100	100	100	D
92	142002	84	96	64	80	92	100	100	100	100	100	100	100	100	100	100	100	100	C
93	142102	76	72	64	88	92	100	100	100	100	100	100	100	100	100	100	100	100	D
94	142311	80	76	68	60	92	100	100	100	100	100	100	100	100	100	100	100	100	C
95	142310	68	64	52	68	92	100	100	100	100	100	100	100	100	0	100	100	100	C
96	142109	76	68	60	56	88	100	100	100	100	0	100	100	100	100	100	100	100	E
97	152915	48	60	52	48	72	100	100	100	100	0	100	100	100	100	0	100	100	U
98	152907	64	68	40	68	72	100	100	100	100	100	100	0	100	100	100	100	100	B
99	152923	52	56	52	60	36	100	100	100	100	100	100	100	100	100	100	100	100	E
100	152920	40	60	8	72	92	100	100	100	0	0	100	100	100	100	100	0	100	B
101	152922	36	52	32	48	84	100	100	100	100	100	100	100	100	0	0	100	100	U
102	152916	54	92	76	56	66	100	100	100	100	100	100	100	100	100	100	100	100	D
103	152926	36	48	36	44	80	100	100	100	100	100	100	100	100	100	100	100	100	U
104	152901	0	0	84	16	20	100	100	100	0	100	100	100	100	100	100	0	100	C
105	152928	8	72	36	40	88	100	100	100	100	100	100	100	100	100	100	100	100	E
106	152921	24	80	A	A	50	100	100	100	100	100	0	100	100	100	0	100	100	B
107	152912	56	32	28	28	72	100	100	100	100	100	100	100	100	100	100	100	100	U
108	152919	8	8	20	20	52	100	100	100	100	100	100	100	100	100	100	100	100	U
109	152905	12	72	64	44	96	100	100	100	100	100	100	100	100	100	100	100	100	E
110	152925	0	0	52	56	50	100	100	100	100	100	100	100	100	100	100	100	100	C

111	152910	56	68	80	60	72	100	100	100	100	100	100	100	100	100	100	100	100	100	E
112	152903	24	80	40	36	67	100	100	100	100	100	100	0	0	0	100	100	100	100	C
113	152924	50	72	40	40	66	100	100	100	100	100	100	100	100	100	100	100	100	100	D
114	152902	60	72	24	20	72	100	100	100	100	100	100	100	100	100	100	100	100	100	E
115	152909	28	68	68	32	84	100	100	100	100	100	100	100	100	100	100	100	100	100	E
116	152918	36	72	36	36	72	100	100	100	100	100	100	100	100	100	100	100	100	100	U
117	152911	44	84	24	0	72	100	100	100	100	100	100	100	100	100	100	100	100	100	E
118	152904	76	52	56	68	92	100	100	100	0	100	100	100	100	100	100	0	100	100	C
119	152906	48	16	48	52	88	100	100	100	100	100	100	100	100	100	100	100	100	100	C
120	152908	16	40	60	40	80	100	100	100	100	100	100	100	100	100	100	100	100	100	E
121	152913	20	28	24	0	76	100	100	100	100	100	100	100	100	100	100	100	100	100	U
122	152917	8	8	40	32	88	100	100	100	100	100	100	100	100	100	100	100	100	100	U
123	152914	0	8	28	16	72	100	100	100	100	100	100	0	100	100	100	100	100	0	U
124	152927	32	12	20	24	50	100	100	100	100	100	100	100	100	100	100	100	100	100	B

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU   L – Level, C-Count																		
	CIT					Assignments			Survey		Quiz		Tutorial					AU
	CO1 CIT1	CO2 CIT2	CO3 CIT3	CO4 CIT4	CO5 CIT5	CO1 A1	CO2 A2	CO3 A3	CO1 S1	CO5 S2	CO2 Q1	CO5 Q2	CO1 T1	CO2 T2	CO3 T3	CO4 T4	CO5 T5	
C	73	89	58	68	116	124	124	124	117	113	121	117	116	116	112	119	118	49
%	58.87	71.77	50	58.62	94.31	100	100	100	94.35	91.13	97.58	94.35	93.55	93.55	90.32	95.97	95.16	39.52
L	0	2	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C202.1	C202.2	C202.3	C202.4	C202.5
Obtained %	92.21	94.68	87.77	86.67	85
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C202:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C202.1	0	3	3	-	3	1.2	0	0.48	3	0.98
C202.2	2	3	-	3	3	2.4	0	0.96	3	1.37
C202.3	0	3	-	-	3	1.2	0	0.48	3	0.98
C202.4	0	-	-	-	3	0.9	0	0.36	3	0.89
C202.5	3	-	3	3	3	3	0	1.2	3	1.56
<b>C202</b>										<b>1.16</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C202.1	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Seminars + 0.2*Tutorial]
C202.2	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Quiz + 0.2*Tutorial]
C202.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C202.4	AU Exam	[0.7*Internal Test + 0.3*Tutorial]
C202.5	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C202 = \frac{C202.1 + C202.2 + C202.3 + C202.4 + C202.5}{5} = 1.16$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6302 Electromagnetic Theory: C203**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
1	142009	60	56	80	68	92	60	70	70	80	80	80	80	100	90	90	90	90	A
2	142308	20	60	40	60	50	100	100	100	80	80	80	80	80	80	80	80	80	B
3	142022	40	60	88	52	76	60	70	70	70	80	80	80	80	70	70	80	70	C
4	142112	44	60	56	60	84	60	80	80	70	80	80	80	80	70	70	80	70	C
5	142070	36	40	20	8	8	100	100	100	90	90	80	80	80	70	70	80	70	U
6	142306	30	30	30	10	0	60	70	70	70	60	70	80	90	70	70	70	70	E
7	142063	20	40	40	40	72	60	70	70	70	70	70	80	70	70	60	70	70	U
8	142301	52	60	96	80	100	80	80	80	80	70	70	70	90	80	70	70	70	C
9	142034	48	60	76	72	96	90	90	90	80	90	80	70	90	80	70	70	70	B
10	142040	40	44	72	80	52	100	100	100	90	90	90	80	70	60	60	60	60	C
11	142071	28	40	24	16	68	60	70	70	80	70	70	70	60	70	70	70	60	E
12	142101	44	40	88	80	100	100	100	100	80	90	80	70	60	70	70	60	70	A
13	142017	60	40	84	80	100	60	70	80	70	80	70	80	60	70	70	70	60	B
14	142045	40	60	52	60	92	60	70	80	80	90	80	70	70	70	70	70	60	C
15	142302	34	34	90	78	100	100	100	100	90	80	80	80	70	70	70	80	70	B
16	142072	30	30	48	60	16	70	80	80	80	70	70	80	70	70	70	80	70	U
17	142111	44	56	72	68	80	100	100	100	80	80	80	70	70	70	70	60	70	U
18	142059	44	40	98	94	100	80	80	80	80	90	80	70	70	70	70	60	70	B
19	142050	24	36	84	92	68	60	70	70	80	80	80	80	60	60	70	60	70	B
20	142309	48	44	74	82	100	100	100	100	80	80	80	80	90	80	70	80	90	C
21	142056	36	20	72	84	96	60	70	70	70	80	80	80	60	70	70	70	60	B
22	142058	34	34	44	60	60	60	80	80	70	80	80	80	60	70	70	70	60	E
23	142004	72	60	52	80	100	100	100	100	90	90	80	80	90	60	70	70	70	C
24	142106	24	36	48	60	36	60	70	70	70	60	70	80	60	70	70	80	70	E
25	142104	32	44	64	88	52	60	70	70	70	70	70	80	60	80	70	80	70	U
26	142011	84	80	50	50	100	80	80	80	80	70	70	70	80	80	80	70	70	A
27	142041	48	60	82	78	76	90	90	90	80	90	80	70	90	90	90	80	70	A
28	142024	72	68	84	88	96	100	100	100	90	90	90	80	90	90	70	80	70	C
29	142026	60	40	76	84	100	60	70	70	80	70	70	70	70	90	70	70	90	D
30	142008	68	72	68	80	100	100	100	100	80	90	80	70	90	90	70	70	90	A
31	142038	22	38	56	60	100	60	70	80	70	80	70	80	60	90	90	90	80	D
32	142032	92	68	74	86	100	60	70	80	80	90	80	70	60	70	70	70	70	C
33	142001	84	76	100	100	100	100	100	100	90	80	80	80	90	80	70	70	70	S
34	142012	56	40	64	84	100	70	80	80	80	70	70	80	70	90	70	70	70	A
35	142057	44	60	12	20	100	100	100	100	80	80	80	70	90	70	70	80	70	B
36	142035	36	52	64	84	84	80	80	80	80	90	80	70	70	70	70	80	70	D
37	142047	44	80	64	72	92	100	100	100	90	90	90	90	90	80	70	70	80	A
38	142108	40	44	60	64	96	100	100	100	90	80	80	80	90	80	70	80	70	U
39	142013	36	52	80	72	96	90	90	90	80	80	80	70	80	80	80	80	70	C
40	142036	30	42	64	84	84	90	90	90	70	80	70	80	80	80	70	70	80	C
41	142067	16	84	88	84	88	100	100	100	100	100	90	10	100	100	100	100	100	B
42	142031	0	0	60	88	100	70	80	80	70	80	70	70	70	70	70	70	80	C
43	142074	34	42	64	68	84	60	70	70	70	60	70	70	60	70	80	80	70	C
44	142044	48	68	48	64	100	100	100	100	90	90	90	90	90	80	80	70	80	C
45	142107	40	72	56	80	100	60	70	70	80	90	80	70	60	70	80	70	80	E
46	142029	56	56	60	96	92	80	90	90	90	80	80	70	70	70	80	70	80	C
47	142016	48	40	96	96	100	100	100	100	90	90	90	80	90	80	70	80	70	C
48	142051	64	68	64	96	100	60	70	70	70	80	70	70	60	70	80	70	80	B
49	142110	32	40	40	60	64	80	90	90	70	80	70	80	70	70	80	70	70	C
50	142066	20	40	68	52	100	80	90	90	70	80	70	80	70	80	70	80	70	C
51	142073	40	32	80	84	60	60	70	70	70	70	70	80	60	70	80	70	80	C
52	142027	28	32	64	76	60	100	100	100	70	80	70	70	90	70	70	80	70	U
53	142030	80	28	72	84	92	95	100	100	100	100	100	90	100	100	100	100	100	A
54	142061	0	0	4	16	8	90	90	90	100	100	80	80	100	100	100	100	100	U
55	142037	80	36	72	88	80	80	100	100	100	100	80	80	100	100	100	100	100	A

56	142064	48	52	72	32	84	100	100	100	100	100	80	80	100	100	100	100	100	C
57	142010	A	A	72	28	76	100	100	100	100	100	70	80	100	100	100	100	100	B
58	142025	72	28	80	80	84	100	100	100	100	100	100	90	100	100	100	100	100	A
59	142303	36	24	64	64	72	100	100	100	100	100	100	80	100	100	100	100	100	C
60	142039	80	28	76	80	92	100	100	100	100	100	80	80	100	100	100	90	100	C
61	142020	36	8	64	84	92	100	100	100	100	100	70	80	100	100	100	100	100	C
62	142028	24	44	48	52	96	100	100	100	100	100	90	90	100	100	100	100	100	B
63	142042	16	12	76	80	92	100	100	100	100	100	90	80	100	100	100	100	100	E
64	142048	52	4	64	52	80	100	100	100	100	100	90	90	100	100	100	100	100	E
65	142003	80	84	80	88	92	100	100	100	100	100	80	70	100	90	100	100	100	B
66	142068	72	36	92	48	92	100	100	100	100	100	90	90	100	80	70	100	100	C
67	142053	16	16	64	76	88	100	100	100	100	100	90	100	100	80	90	100	90	A
68	142007	8	4	64	56	96	100	100	100	100	100	90	100	100	100	100	100	100	B
69	142305	72	68	76	84	84	100	100	100	100	100	100	90	100	100	100	100	100	B
70	142307	44	64	76	76	68	100	100	100	100	100	100	100	100	90	100	100	100	E
71	142023	60	44	80	80	60	100	100	100	100	100	80	70	100	90	100	100	100	C
72	142055	84	64	80	88	88	100	100	100	100	100	80	70	100	100	100	100	100	A
73	142046	8	0	16	44	12	80	100	100	90	90	90	80	100	100	100	100	100	U
74	142052	48	52	68	32	84	90	100	100	100	100	80	90	100	100	100	100	100	A
75	142103	32	0	40	48	68	90	100	100	90	90	80	80	100	100	100	100	100	E
76	142021	80	56	88	88	84	100	100	100	100	100	80	90	100	100	100	100	100	A
77	142018	8	24	36	80	60	100	90	100	100	90	90	100	100	100	100	100	90	C
78	142043	4	8	48	56	72	100	100	100	100	90	80	80	90	80	70	80	90	E
79	142065	16	28	24	4	84	100	100	100	100	90	80	80	100	90	100	100	100	U
80	142060	20	0	68	64	72	100	100	100	100	100	90	100	100	90	100	100	100	C
81	142006	68	32	56	72	96	100	100	100	100	100	90	80	100	100	100	100	100	A
82	142304	8	0	40	60	60	100	100	100	100	90	80	70	100	100	100	100	100	E
83	142014	20	28	68	32	80	100	100	100	100	100	80	70	100	90	100	100	100	B
84	142015	76	64	88	96	96	100	100	100	100	100	90	100	100	100	100	100	100	S
85	142069	44	64	60	80	72	100	100	100	100	100	90	80	100	100	100	100	100	D
86	142054	4	0	32	28	76	100	100	90	100	100	70	60	100	100	100	100	100	E
87	142062	76	40	92	92	92	100	80	100	100	100	70	70	100	100	100	100	100	A
88	142019	44	12	76	88	88	100	100	100	100	100	90	90	100	100	100	100	100	B
89	142005	44	60	80	88	84	100	100	100	100	100	90	80	100	100	100	100	100	B
90	142033	44	32	A	A	80	100	100	100	100	100	70	70	100	100	100	100	100	A
91	142105	44	60	60	72	50	100	100	100	100	100	90	70	100	100	100	100	100	C
92	142002	36	80	72	88	96	100	90	100	100	100	60	50	100	100	100	100	100	A
93	142102	48	20	44	88	96	100	100	100	100	100	70	70	100	100	100	100	100	C
94	142311	36	12	72	76	92	100	100	100	100	100	70	60	100	100	100	100	100	D
95	142310	4	24	72	64	68	100	90	100	100	100	90	90	100	100	100	100	100	C
96	142109	12	24	64	68	84	100	90	100	100	100	90	80	90	80	90	90	100	U
97	152915	0	0	44	56	52	100	80	100	100	100	60	40	100	100	100	100	100	E
98	152907	32	32	24	24	64	80	90	90	60	60	70	70	70	70	60	70	60	E
99	152923	1	0	4	40	64	90	100	100	100	90	30	20	100	100	100	100	100	U
100	152920	20	44	50	50	80	70	70	70	60	60	60	70	70	60	70	70	60	U
101	152922	0	0	0	40	72	100	100	100	80	80	90	80	100	90	100	90	100	U
102	152916	32	32	50	50	88	70	70	70	60	50	60	60	70	70	60	60	70	E
103	152926	0	0	0	56	60	100	90	100	100	90	40	20	100	100	100	100	100	E
104	152901	24	36	0	76	0	60	60	60	60	70	60	70	60	80	70	80	70	E
105	152928	0	12	36	80	76	90	100	100	90	100	50	30	100	100	100	100	100	E
106	152921	20	40	25	25	32	60	70	70	60	50	60	70	60	70	60	70	60	U
107	152912	0	0	44	56	88	90	100	100	90	90	70	80	90	80	100	100	100	E
108	152919	0	0	8	20	24	90	100	100	80	80	70	80	100	90	100	80	100	U
109	152905	36	32	0	0	28	60	70	70	50	60	50	60	60	70	80	80	70	U
110	152925	32	40	0	0	96	70	70	70	50	60	70	70	70	70	60	70	70	U
111	152910	32	32	40	60	80	60	70	70	60	60	70	70	60	60	60	70	60	E
112	152903	32	36	48	52	16	60	70	70	50	60	50	60	60	70	70	70	80	U
113	152924	30	30	30	70	72	60	90	90	60	50	60	70	60	70	60	70	70	E
114	152902	4	0	16	32	52	100	100	100	100	100	70	60	100	80	70	70	60	U
115	152909	60	48	44	56	80	80	100	100	100	90	90	90	100	100	100	100	100	E
116	152918	0	0	44	56	92	90	100	100	100	100	60	40	100	80	100	90	80	U

117	152911	0	0	60	40	50	90	100	100	90	90	90	80	100	100	90	90	90	U
118	152904	20	18	68	52	52	100	90	100	100	100	90	90	100	100	100	100	100	D
119	152906	0	24	44	56	80	100	90	100	100	100	80	90	100	90	90	80	90	U
120	152908	8	4	32	68	68	90	100	100	100	90	60	50	90	80	70	80	80	U
121	152913	4	4	64	36	28	90	100	100	90	90	70	60	100	100	100	100	100	U
122	152917	4	28	36	68	84	90	100	100	100	100	80	70	100	90	100	90	100	E
123	152914	0	0	12	0	56	100	100	100	80	80	70	50	90	100	90	100	100	U
124	152927	32	32	24	16	0	60	70	70	50	60	60	70	60	70	60	70	70	U

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C(7)$  grade in AU |

L – Level, C-Count

	CIT					Assignments			Survey		Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
C	24	28	70	79	102	91	97	101	113	111	109	108	103	119	115	118	113	68
%	19.51	22.76	56.91	64.23	82.26	73.39	78.23	81.45	91.13	89.52	87.9	87.1	83.06	95.97	92.74	95.16	91.13	54.84
L	0	0	0	1	3	2	2	3	3	3	3	3	3	3	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C203.1	C203.2	C203.3	C203.4	C203.5
Obtained %	89.95	86.53	86.96	92.07	86.38
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C203:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C203.1	0	2	-	-	3	1	0	0.4	3	0.92
C203.2	0	2	-	-	3	1	0	0.4	3	0.92
C203.3	0	3	-	-	3	1.2	0	0.48	3	0.98
C203.4	1	-	3	3	3	1.8	0	0.72	3	1.18
C203.5	3	-	3	3	3	3	0	1.2	3	1.56
<b>C203</b>										<b>1.11</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C203.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C203.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C203.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C203.4	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]
C203.5	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C203 = \frac{C203.1 + C203.2 + C203.3 + C203.4 + C203.5}{5} = 1.11$$



**KLNCE/B.E - EEE – 2014-2018 Batch – Course:GE6351 Environmental Science and Engineering: C204**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO5	CO1	CO5	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	142009	96	96	100	42	96	100	100	100	100	100	100	100	B
2	142308	40	40	70	19	64	100	90	90	90	90	90	90	C
3	142022	68	68	85	26	64	90	90	100	90	90	100	100	D
4	142112	82	82	85	26	76	90	90	90	90	90	90	90	C
5	142072	24	24	59	8	20	50	50	80	80	80	80	80	U
6	142306	16	16	7	6	44	50	50	80	80	80	80	80	E
7	142063	70	70	59	15	52	90	90	90	80	80	80	80	B
8	142301	92	92	89	38	96	100	100	100	100	100	100	100	A
9	142034	80	80	70	36	96	100	100	100	100	100	100	100	B
10	142040	64	64	37	57	80	90	90	90	100	100	100	100	B
11	142071	64	64	30	57	92	90	90	90	90	90	90	90	C
12	142101	88	88	85	42	92	90	90	90	100	100	100	100	A
13	142017	80	80	22	43	88	90	90	100	90	90	90	90	C
14	142045	96	96	44	68	100	100	100	100	100	100	100	100	B
15	142302	54	54	41	60	96	90	90	100	100	100	100	100	B
16	142072	4	4	19	19	32	50	50	80	100	100	100	100	U
17	142111	52	52	33	36	68	50	50	80	100	100	100	100	D
18	142059	98	98	41	57	100	100	100	100	90	90	90	90	A
19	142050	44	44	15	32	96	50	50	60	80	80	80	80	B
20	142309	54	54	85	38	80	100	90	90	80	80	80	80	A
21	142056	90	90	37	51	96	100	90	90	90	90	90	90	B
22	142058	52	52	0	32	68	60	60	80	60	60	100	100	E
23	142004	88	88	44	60	100	90	90	90	90	90	100	100	B
24	142106	22	22	15	9	64	50	50	60	80	80	90	90	U
25	142104	86	86	44	57	96	90	90	90	90	90	100	100	C
26	142011	62	62	33	45	68	90	90	90	100	100	90	90	C
27	142041	74	74	93	34	88	90	90	90	100	100	90	90	D
28	142024	86	86	89	25	76	90	90	90	100	100	90	90	C
29	142026	90	90	85	26	92	90	90	90	100	100	90	90	C
30	142008	86	86	44	72	100	100	100	100	100	100	100	100	S
31	142038	96	96	81	43	100	100	100	100	100	100	100	100	A
32	142032	72	72	93	32	96	100	90	100	90	90	100	90	C
33	142001	56	56	52	26	92	90	90	100	90	100	90	100	D
34	142012	92	92	96	42	100	90	90	100	100	100	100	100	B
35	142057	70	70	41	51	88	90	90	100	90	90	90	90	B
36	142035	38	38	44	36	68	50	50	80	80	80	90	90	D
37	142047	76	76	52	28	96	90	90	90	90	90	90	90	C
38	142108	84	84	89	43	96	90	90	90	90	90	100	100	D
39	142013	96	96	96	32	96	100	90	90	100	100	90	90	C
40	142036	72	72	44	68	92	100	90	100	100	90	90	90	B
41	142031	A	A	89	45	92	100	50	50	100	100	80	80	B
42	142074	72	72	56	11	88	100	50	50	80	80	100	100	E
43	142044	86	86	41	45	92	90	90	90	90	90	80	80	B
44	142107	44	44	85	13	84	90	90	90	90	90	90	90	E
45	142029	62	62	48	32	92	90	90	90	90	90	100	90	C

46	142016	96	96	41	70	96	90	90	90	90	90	100	100	B
47	142051	72	72	26	42	92	90	90	90	90	90	90	90	E
48	142110	58	58	63	25	64	80	80	90	80	80	80	80	U
49	142066	80	80	89	42	96	80	80	90	80	80	80	80	B
50	142073	72	72	78	28	64	80	80	90	90	90	90	90	B
51	142027	16	16	22	15	48	50	50	80	80	80	100	80	U
52	152901	42	42	0	17	44	50	50	80	100	80	80	80	C
53	152903	14	14	7	4	92	50	50	80	80	80	80	80	U
54	152910	10	10	33	6	36	50	50	80	80	80	80	80	E
55	152905	0	0	15	6	24	50	50	80	80	80	80	80	U
56	152907	38	38	81	4	68	50	50	80	80	80	80	80	E
57	152916	22	22	37	4	56	50	50	80	80	80	80	80	D
58	152920	48	48	30	36	92	50	50	80	80	80	80	80	E
59	152921	26	26	33	23	28	50	50	80	80	80	80	80	E
60	152924	6	6	19	21	72	50	50	80	80	80	80	80	E
61	152925	4	4	30	4	60	50	50	80	80	80	80	80	U
62	152927	26	26	22	6	80	50	50	80	80	80	80	80	D
63	142067	80	80	100	100	100	100	100	100	100	100	100	100	A
64	142030	78	78	98	98	100	100	100	100	100	100	100	100	C
65	142061	38	38	84	84	92	90	90	90	100	100	90	90	C
66	142037	80	80	98	98	100	90	90	90	100	100	90	90	S
67	142064	80	80	98	98	100	100	100	100	100	100	90	90	B
68	142010	76	76	98	98	100	100	100	100	100	100	100	100	B
69	142025	80	80	86	86	92	90	90	100	100	100	90	90	C
70	142303	78	78	90	90	40	90	90	100	100	100	90	90	C
71	142039	90	90	98	98	100	100	100	100	100	100	100	100	B
72	142020	82	82	90	90	100	100	100	100	100	100	100	100	A
73	142028	76	76	96	96	80	100	100	100	100	100	90	90	C
74	142042	32	32	50	50	44	90	90	100	100	100	90	90	D
75	142048	90	90	84	84	96	90	90	100	100	100	90	90	C
76	142003	92	92	96	96	100	100	100	100	100	100	90	90	A
77	142068	76	76	92	92	72	90	90	100	100	100	90	90	D
78	142053	70	70	94	94	52	90	90	100	100	100	90	90	B
79	142007	76	76	72	72	96	90	90	100	100	100	90	90	C
80	142305	90	90	100	100	100	90	90	100	100	100	90	90	A
81	142307	82	82	98	98	100	100	100	100	100	100	100	100	C
82	142023	84	84	82	82	88	90	90	100	100	100	90	90	B
83	142055	94	94	98	98	96	100	100	100	100	100	100	100	S
84	142046	0	0	30	30	24	80	80	100	90	90	90	90	E
85	142052	50	50	48	48	92	50	50	100	80	80	80	80	B
86	142103	82	82	68	68	88	90	90	100	90	90	100	100	B
87	142021	98	98	100	100	100	100	100	100	100	100	100	100	A
88	142018	40	40	58	58	56	80	80	100	90	90	90	90	E
89	142043	60	60	60	60	96	90	90	100	90	90	90	90	C
90	142065	32	32	56	56	40	80	80	100	100	100	100	100	U
91	142060	34	34	64	64	92	50	50	100	100	100	80	80	C
92	142006	90	90	92	92	96	90	90	100	100	100	90	90	C
93	142304	34	34	54	54	52	80	80	100	100	100	90	90	E
94	142014	88	88	96	96	96	90	90	100	100	100	90	90	B
95	142015	98	98	98	98	100	100	100	100	100	100	90	90	B

96	142069	62	62	46	46	36	90	90	100	100	100	90	90	U
97	142054	34	34	32	32	40	50	50	100	100	100	80	80	U
98	142062	96	96	100	100	100	90	90	100	100	100	80	80	A
99	142019	94	94	98	98	96	90	90	90	90	90	90	90	A
100	142005	90	90	98	98	88	100	100	90	100	100	90	90	B
101	142033	86	86	94	94	100	100	100	100	100	100	100	100	B
102	142105	64	64	70	70	92	90	90	100	90	90	90	90	E
103	142002	88	88	98	98	96	90	100	100	100	100	90	90	A
104	142102	64	64	94	94	100	90	90	100	100	100	90	90	C
105	142311	90	90	98	98	100	90	90	100	100	100	90	90	B
106	142310	96	96	98	98	100	100	100	100	100	100	90	90	A
107	142109	64	64	58	58	20	90	90	100	100	100	90	90	C
108	152902	32	32	48	48	60	50	50	100	100	100	80	80	E
109	152904	80	80	60	60	40	50	50	100	80	80	80	80	E
110	152906	72	72	74	74	72	50	50	80	80	80	80	80	U
111	152909	46	46	56	56	76	50	50	80	80	80	50	50	E
112	152911	34	34	26	26	56	50	50	80	80	80	50	50	U
113	152912	54	54	38	38	68	50	50	80	80	80	50	50	E
114	152913	36	36	22	22	48	50	50	80	80	80	50	50	D
115	152908	30	30	34	34	28	50	50	80	80	80	50	50	U
116	152914	50	50	58	58	44	50	50	80	80	80	50	50	U
117	152917	14	14	4	4	12	50	50	80	90	90	90	90	U
118	152918	20	20	14	14	60	50	50	80	90	90	90	90	U
119	152919	4	4	18	18	8	50	50	80	100	100	100	100	U
120	152922	28	28	42	42	56	50	50	80	90	90	90	90	E
121	152915	38	38	20	20	36	50	50	80	80	80	50	50	U
122	152923	36	36	14	14	48	50	50	80	80	80	50	50	E
123	152926	50	50	18	18	68	50	50	80	80	80	50	50	E

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU													
L – Level, C-Count													
	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO5	CO1	CO5	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
C	73	73	60	44	93	84	82	119	122	122	114	114	72
%	60	60	48.78	35.77	75.61	68.29	66.67	96.75	99.19	99.19	92.68	92.68	58.54
L	1	1	0	0	2	1	1	3	3	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C204.1	C204.2	C204.3	C204.4	C204.5
Obtained %	93.95	92.7	91.91	92.93	91.77
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C204:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C204.1	1	1	3	-		1.2	0	0.48	3	0.98
C204.2	1	1	-	-		1	0	0.4	3	0.92
C204.3	0	-	-	-		0	0	0	3	0.6
C204.4	0	-	-	3		0.6	0	0.24	3	0.79
C204.5	2	3	3	3		2.4	0	0.96	3	1.37
<b>C204</b>										<b>0.93</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C204.1	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C204.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C204.3	AU Exam	[1*Internal Test]
C204.4	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C204.5	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.1*Seminars + 0.1*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C204 = \frac{C204.1 + C204.2 + C204.3 + C204.4 + C204.5}{5} = 0.93$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: C6202 Electronic Devices and Circuits: C205**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO3	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
1	142009	84	80	24	88	88	100	100	100	100	100	100	100	100	100	100	100	100	B
2	142308	60	16	68	88	76	100	100	100	100	100	100	100	100	100	100	100	100	E
3	142022	88	72	32	92	76	100	100	100	100	100	100	100	100	100	100	100	100	D
4	142112	76	56	32	80	84	100	100	100	100	100	100	100	100	100	100	100	100	E
5	142070	44	36	52	84	72	100	100	100	100	0	100	100	100	0	100	100	100	U
6	142306	56	32	32	44	44	100	100	100	100	100	100	100	100	100	100	100	100	U
7	142063	32	32	28	56	80	100	100	100	100	0	100	100	100	100	100	100	100	U
8	142301	80	68	72	84	88	100	100	100	100	100	100	100	100	100	100	100	100	B
9	142034	76	64	92	92	84	100	100	100	100	100	100	100	100	100	100	100	100	C
10	142040	52	52	88	80	56	100	100	100	100	0	100	100	100	100	100	100	100	E
11	142071	60	40	68	92	72	100	100	100	100	100	100	100	0	100	100	100	100	U
12	142101	80	80	96	88	88	100	100	100	100	0	100	100	100	100	100	100	0	D
13	142017	72	80	92	92	72	100	100	100	100	100	100	100	100	100	100	100	100	C
14	142045	72	76	44	96	80	100	100	100	100	100	100	100	100	100	100	100	100	E
15	142302	60	48	72	84	72	100	100	100	100	100	100	100	100	100	100	100	100	E
16	142072	24	36	40	92	72	100	100	100	100	100	100	100	100	100	100	100	100	U
17	142111	48	36	32	40	72	100	100	100	100	100	100	100	100	100	100	100	100	U
18	142059	84	72	84	96	88	100	100	100	100	100	100	100	100	100	100	100	100	C
19	142050	72	48	68	92	84	100	100	100	100	100	100	100	100	100	100	100	100	C
20	142309	48	52	96	88	84	100	100	100	100	100	100	100	100	0	100	100	100	C
21	142056	88	80	72	68	80	100	100	100	100	100	100	100	100	100	100	100	100	D
22	142058	76	40	76	80	80	100	100	100	100	100	100	100	100	100	100	100	100	U
23	142004	96	84	92	80	88	100	100	100	100	100	100	100	100	100	100	100	100	E
24	142106	52	48	76	80	84	100	100	100	100	100	100	100	100	100	100	100	100	E
25	142104	76	48	80	80	76	100	100	100	100	0	100	100	100	100	100	100	100	E
26	142011	72	60	32	92	80	100	100	100	100	100	100	100	100	100	100	100	100	U
27	142041	88	72	36	88	84	100	100	100	0	100	100	100	100	0	100	0	100	E
28	142024	72	80	60	92	88	100	100	100	100	100	100	100	0	100	100	100	100	C
29	142026	76	76	60	88	88	100	100	100	100	100	100	100	100	100	100	100	100	D
30	142008	80	72	88	96	88	100	100	100	100	100	100	100	100	100	100	100	100	C
31	142038	52	36	80	80	84	100	100	100	0	100	100	100	100	100	100	0	100	U
32	142032	72	48	88	92	84	100	100	100	100	100	100	100	100	100	100	100	100	C
33	142001	76	80	32	90	88	100	100	100	100	0	100	100	100	100	100	100	100	E
34	142012	92	80	80	88	88	100	100	100	100	100	100	100	100	100	100	100	100	C
35	142057	68	80	52	96	88	100	100	100	100	100	100	100	100	100	100	100	100	E
36	142035	76	84	40	92	88	100	100	100	100	100	100	100	100	100	100	100	100	E
37	142047	68	44	72	92	92	100	100	100	100	100	0	100	100	100	0	100	100	E
38	142108	36	48	32	68	84	100	100	100	100	100	100	100	100	100	100	100	100	E
39	142013	76	76	68	84	88	100	100	100	100	100	100	100	100	100	100	100	100	A
40	142036	80	56	88	96	88	100	100	100	100	100	100	100	100	100	100	100	100	D
41	142031	76	40	72	96	80	100	100	100	100	100	100	100	100	0	100	100	100	D
42	142074	76	36	40	84	80	100	100	100	100	100	100	100	100	100	100	100	100	E
43	142044	84	60	92	88	88	100	100	100	100	100	100	100	100	100	100	100	100	E
44	142107	84	24	52	84	88	100	100	100	100	100	0	100	100	100	0	100	100	B
45	142029	68	76	56	84	80	100	100	100	100	100	100	100	0	100	100	100	100	D
46	142016	92	68	32	96	88	100	100	100	100	100	100	100	100	100	100	100	100	E
47	142051	84	48	44	84	88	100	100	100	100	100	100	100	100	100	100	100	100	C
48	142110	68	48	56	60	72	100	100	100	100	100	100	100	100	100	100	100	100	C
49	142066	68	68	40	92	84	100	100	100	100	100	100	100	100	0	100	100	100	E
50	142073	68	40	52	96	72	100	100	100	100	100	100	100	0	100	100	100	100	E
51	142027	32	0	52	84	84	100	100	100	0	100	100	100	100	100	100	100	100	C
52	142067	100	96	96	96	96	100	100	90	90	90	90	100	90	90	100	90	90	U
53	142030	100	96	80	92	96	90	100	90	90	90	90	100	90	90	90	90	90	E
54	142061	80	80	12	2	96	90	90	100	90	90	90	100	90	90	100	90	90	U
55	142037	96	96	96	88	96	100	100	100	100	90	90	100	100	90	90	90	90	B
56	142064	78	96	60	80	96	90	100	90	100	90	90	100	90	90	90	90	90	D
57	142010	100	96	96	96	96	100	100	90	100	90	100	100	100	90	90	90	90	C
58	142025	96	84	92	72	96	100	90	90	90	90	90	100	90	90	90	90	90	C

59	142303	84	68	80	86	76	0	0	90	90	90	90	100	90	90	100	90	90	B
60	142039	100	96	96	96	96	100	100	100	90	90	90	100	90	90	90	90	90	C
61	142020	100	96	80	64	92	90	90	0	90	90	90	100	90	90	90	90	90	D
62	142028	96	80	92	94	96	100	90	90	90	90	90	100	90	90	90	90	90	U
63	142042	96	80	96	24	96	100	90	90	90	90	90	100	90	90	90	90	90	E
64	142048	72	92	40	40	96	100	100	90	90	90	90	100	100	90	90	90	90	E
65	142003	100	96	96	92	96	100	100	100	90	90	90	100	90	100	90	90	90	D
66	142068	100	96	96	92	96	100	100	100	90	100	90	100	90	100	90	90	90	E
67	142053	96	92	92	96	96	100	100	100	100	90	90	100	90	90	90	100	90	C
68	142007	96	100	92	88	96	100	90	90	90	90	100	100	90	90	90	90	90	C
69	142305	88	40	92	94	80	100	100	90	90	90	90	100	90	90	100	90	90	E
70	142307	100	96	92	68	96	100	100	100	90	90	90	100	90	90	100	90	90	E
71	142023	100	96	96	96	96	100	90	90	90	90	100	100	90	90	90	90	90	D
72	142055	96	96	96	96	96	100	90	90	90	90	90	100	90	90	100	90	90	C
73	142046	68	44	28	60	64	90	100	90	90	90	90	100	90	90	90	90	90	E
74	142052	72	48	88	92	96	90	90	90	90	90	90	100	90	90	100	90	90	C
75	142103	80	84	92	68	88	90	90	100	90	90	90	100	90	100	90	90	90	C
76	142021	100	96	88	76	96	100	100	100	90	100	100	100	90	90	90	90	90	B
77	142018	80	32	92	96	76	100	90	100	90	90	90	100	90	90	90	90	90	E
78	142043	96	92	86	28	80	100	90	90	90	90	90	100	90	90	90	90	90	D
79	142065	92	60	92	80	88	100	100	90	90	90	90	100	100	90	90	100	90	E
80	142060	88	56	52	72	76	100	90	100	90	90	90	100	90	90	90	90	90	E
81	142006	96	92	96	96	96	90	90	100	100	90	90	100	100	90	90	90	90	D
82	142304	80	72	96	96	90	100	90	90	100	90	90	100	90	90	100	90	90	E
83	142014	100	96	88	92	50	100	100	90	90	90	100	100	90	90	90	90	100	E
84	142015	100	96	96	96	96	100	100	90	90	90	90	100	90	90	90	90	90	C
85	142069	88	56	72	88	96	90	90	90	90	90	90	100	100	90	90	90	90	E
86	142054	88	80	92	80	68	90	90	90	90	90	90	100	90	90	100	90	90	E
87	142062	96	96	96	96	96	100	100	90	90	90	90	100	90	90	90	90	90	C
88	142019	100	96	80	84	96	100	100	100	90	90	90	100	90	90	90	100	90	C
89	142005	100	92	96	96	96	100	90	100	90	90	90	100	90	90	100	90	90	B
90	142033	96	96	0	0	0	100	90	90	90	90	100	100	90	90	90	90	90	E
91	142105	80	80	84	96	76	100	90	90	90	90	90	100	90	90	100	90	90	E
92	142002	96	100	96	96	96	90	90	90	90	90	90	100	100	90	90	90	90	C
93	142102	84	52	96	96	96	100	100	100	100	90	90	100	100	90	90	90	90	E
94	142311	100	96	88	76	96	100	100	100	90	100	90	100	100	90	100	90	90	E
95	142310	88	28	96	96	96	100	100	100	90	90	90	100	100	90	90	90	90	E
96	142109	72	80	96	52	68	100	100	100	90	90	90	100	90	100	90	90	90	E
97	152915	80	48	76	28	48	100	90	100	90	90	90	100	90	100	90	90	100	E
98	152907	88	56	24	76	68	100	100	100	100	100	100	0	100	100	100	100	100	U
99	152923	60	64	64	52	80	100	90	90	90	90	90	100	100	90	100	90	100	U
100	152920	24	20	80	64	64	100	100	100	0	0	100	100	100	100	100	0	100	U
101	152922	80	72	64	64	4	70	90	100	90	90	100	100	90	90	90	100	90	E
102	152916	68	24	40	84	84	100	100	100	100	100	100	100	100	100	100	100	100	E
103	152926	88	36	24	32	50	50	90	90	90	90	90	100	100	90	90	90	90	U
104	152901	28	0	52	20	60	100	100	100	0	100	100	100	100	100	100	0	100	E
105	152928	88	44	92	80	88	50	90	90	100	90	90	100	90	90	90	100	100	E
106	152921	16	52	60	60	84	100	100	100	100	100	0	100	100	100	0	100	100	E
107	152912	32	10	92	60	72	90	90	90	90	90	90	100	90	90	90	100	90	E
108	152919	68	32	12	8	8	70	90	100	90	90	90	100	90	90	100	90	90	E
109	152905	48	28	64	84	64	100	100	100	100	100	100	100	100	100	100	100	100	E
110	152925	20	48	68	72	60	100	100	100	100	100	100	100	100	100	100	100	100	U
111	152910	76	32	52	84	76	100	100	100	100	100	100	100	100	100	100	100	100	E
112	152903	76	52	68	88	88	100	100	100	100	100	100	0	0	0	100	100	100	U
113	152924	68	56	72	68	56	100	100	100	100	100	100	100	100	100	100	100	100	E
114	152902	64	60	80	28	76	100	90	90	90	90	100	100	100	90	90	100	90	E
115	152909	88	40	72	80	80	100	90	90	90	90	90	100	90	90	90	90	90	E
116	152918	80	80	92	24	96	100	90	90	90	90	90	100	100	90	90	90	90	E
117	152911	56	64	24	88	0	100	90	90	90	90	90	100	90	90	90	100	90	U
118	152904	96	88	80	64	92	100	90	90	90	90	90	100	100	90	100	100	90	E
119	152906	84	72	96	92	96	100	90	90	100	90	90	100	100	90	90	90	90	D
120	152908	48	52	92	96	88	100	90	90	90	90	90	100	90	100	100	90	90	E
121	152913	88	80	76	68	64	90	90	90	90	90	90	100	90	90	90	90	90	E
122	152917	44	72	92	40	60	100	90	90	90	90	90	100	90	90	90	90	90	U
123	152914	28	64	32	52	28	100	90	90	90	90	90	100	100	90	90	100	90	U

124	152927	24	8	80	80	72	100	100	100	100	100	100	100	100	100	100	100	100	100	E
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**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignments			Survey		Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO3	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
C	102	71	87	106	113	119	123	123	119	117	121	122	119	119	120	121	123	32
%	82.26	57.26	70.16	85.48	91.13	95.97	99.19	99.19	95.97	94.35	97.58	98.39	95.97	95.97	96.77	97.58	99.19	25.81
L	3	0	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C205.1	C205.2	C205.3	C205.4	C205.5
Obtained %	92.94	90.32	87.99	87.48	88.78
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C205:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C205.1	3	3	-	-	3	3	0	1.2	3	1.56
C205.2	0	3	-	-	3	1.2	0	0.48	3	0.98
C205.3	2	3	-	3	3	2.4	0	0.96	3	1.37
C205.4	3	-	3	-	3	3	0	1.2	3	1.56
C205.5	3	-	3	3	3	3	0	1.2	3	1.56
<b>C205</b>										<b>1.41</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C205.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C205.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C205.3	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Quiz + 0.2*Tutorial]
C205.4	AU Exam	[0.6*Internal Test + 0.2*Seminars + 0.2*Tutorial]
C205.5	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C205 = \frac{C205.1 + C205.2 + C205.3 + C205.4 + C205.5}{5} = 1.41$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6303 Linear Integrated Circuits and Applications: C206**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO5	CO1	CO5	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A2	A3	A4	S4	S5	Q4	Q5	
1	142009	88	68	100	100	92	100	100	90	90	70	90	80	B
2	142308	8	28	72	68	56	20	30	80	70	50	70	50	E
3	142022	64	44	64	48	68	20	100	80	70	60	80	40	C
4	142112	40	36	76	72	88	30	100	70	70	50	40	30	B
5	142070	10	10	84	40	0	10	80	50	50	30	30	30	E
6	142306	68	8	16	28	40	20	100	50	30	50	20	20	U
7	142063	12	28	44	48	56	30	100	60	50	70	20	10	E
8	142301	72	68	68	68	84	100	100	100	70	90	70	90	A
9	142034	60	32	100	84	88	80	100	80	80	50	70	50	C
10	142040	28	0	80	32	60	40	60	70	70	50	40	30	D
11	142071	52	24	64	40	84	40	80	80	70	70	50	20	U
12	142101	60	40	92	88	84	80	90	100	90	90	60	60	B
13	142017	36	76	88	60	92	40	40	80	70	60	90	80	C
14	142045	84	76	64	92	84	70	50	90	90	80	70	50	C
15	142302	64	48	88	76	92	100	50	90	90	80	90	70	E
16	142072	12	0	40	32	52	40	100	70	60	40	90	80	U
17	142111	28	8	76	24	36	20	80	90	50	70	70	40	U
18	142059	88	84	100	100	96	100	60	100	90	100	90	90	B
19	142050	40	48	68	40	88	40	70	80	70	50	50	30	B
20	142309	48	60	64	76	96	100	100	90	90	80	70	70	B
21	142056	48	88	84	72	96	90	60	90	90	80	80	60	A
22	142058	40	0	56	60	56	20	90	70	60	40	50	40	U
23	142106	88	60	44	92	96	80	100	100	100	100	90	10	C
24	142004	8	40	48	52	92	100	80	60	90	60	50	50	E
25	142104	48	20	68	32	88	30	20	100	90	90	80	80	E
26	142011	56	48	96	88	84	30	100	70	90	80	60	40	C
27	142041	76	64	0	0	68	90	30	80	70	70	90	70	C
28	142024	56	84	76	88	76	80	40	70	70	80	50	40	C
29	142026	72	72	76	68	92	100	100	100	90	90	90	90	C
30	142008	96	96	100	96	96	100	90	100	90	100	100	90	D
31	142038	60	24	84	52	80	20	30	100	50	30	60	30	E
32	142032	56	52	96	80	84	100	50	100	30	40	80	50	C
33	142001	56	76	92	80	88	20	100	100	100	100	90	90	C
34	142012	76	64	72	92	96	100	60	90	100	90	70	60	E
35	142057	40	28	88	96	92	60	50	80	90	70	50	30	E
36	142035	36	44	88	60	92	90	30	70	70	50	50	30	C
37	142047	60	32	56	60	76	20	30	70	100	90	60	40	D
38	142108	32	60	56	56	88	100	100	90	100	100	50	70	U
39	142013	80	68	92	80	76	100	60	80	90	80	90	80	C
40	142036	56	84	92	96	88	90	50	90	90	70	70	60	B
41	142067	56	56	88	88	96	80	80	80	80	70	70	80	C
42	142031	44	56	60	92	92	70	80	80	90	50	60	50	E
43	142074	16	40	96	44	84	20	80	70	50	70	50	50	C
44	142044	36	56	72	88	88	80	80	100	90	90	70	50	B
45	142107	28	80	76	84	96	80	100	90	70	50	50	60	E



46	142029	64	56	56	92	92	100	80	80	70	70	50	40	C
47	142016	92	84	96	100	92	100	50	100	90	80	40	30	B
48	142051	52	72	96	88	96	50	100	90	90	90	90	80	A
49	142110	A	0	56	72	80	50	90	50	70	50	90	90	D
50	142066	72	20	100	96	92	90	90	90	70	50	50	10	E
51	142073	76	52	0	0	68	80	60	80	50	30	40	20	C
52	142027	8	0	52	28	68	40	100	70	30	20	30	30	U
53	142030	56	80	96	96	88	80	80	80	80	70	70	80	C
54	142061	0	0	40	0	72	80	70	80	70	80	70	80	C
55	142037	68	80	96	96	92	70	80	80	80	70	80	70	A
56	142064	40	68	88	88	96	80	80	80	70	80	80	70	C
57	142010	64	56	92	88	88	70	70	70	80	70	80	70	E
58	142025	64	60	92	96	88	80	80	80	80	80	80	70	C
59	142303	60	40	52	80	84	80	70	70	80	70	80	70	C
60	142039	68	80	92	92	96	80	80	80	90	80	70	80	B
61	142020	68	68	84	88	88	80	70	70	70	80	70	80	B
62	142028	64	40	A	A	72	80	80	80	80	70	70	80	B
63	142042	76	40	60	92	80	80	70	70	80	80	80	70	E
64	142048	40	76	76	80	84	80	80	80	70	70	80	70	D
65	142003	A	A	96	96	88	80	90	90	80	80	70	80	B
66	142068	60	40	96	96	96	80	90	90	80	70	70	80	C
67	142053	60	80	92	92	80	80	70	80	70	80	80	70	C
68	142007	68	32	86	80	88	80	80	80	80	70	80	70	C
69	142305	64	64	68	40	88	80	70	70	70	80	70	80	C
70	142307	64	60	80	84	88	60	60	80	80	70	70	80	D
71	142023	60	52	80	80	88	60	60	80	80	80	80	70	C
72	142046	92	92	96	92	92	70	70	80	80	70	70	80	S
73	142055	40	8	72	40	60	70	70	70	80	70	70	80	E
74	142052	40	28	88	88	84	80	70	80	80	80	80	70	B
75	142103	8	24	72	40	72	70	70	80	70	80	80	70	B
76	142021	88	72	88	88	88	80	80	70	70	70	70	80	A
77	142018	64	48	68	40	80	70	80	80	80	80	80	70	E
78	142043	68	40	60	60	80	80	80	80	80	70	70	80	E
79	142065	24	24	56	80	56	80	80	80	70	80	80	70	D
80	142060	68	40	68	80	84	70	70	80	70	80	80	70	B
81	142006	64	60	80	88	88	70	80	80	80	70	70	80	B
82	142304	64	36	88	88	A	80	70	70	80	70	80	70	C
83	142014	64	80	96	96	88	80	80	80	80	80	70	80	C
84	142015	92	92	72	80	96	80	90	80	70	80	70	80	A
85	142069	40	8	60	80	80	70	80	80	80	70	80	70	D
86	142054	16	12	96	96	60	80	80	80	80	70	80	70	B
87	142062	88	80	96	96	96	70	80	70	80	70	80	70	C
88	142019	76	80	A	A	72	80	80	80	80	70	80	80	B
89	142005	60	80	68	80	84	70	70	80	70	80	70	80	C
90	142033	88	76	96	96	A	80	80	80	70	80	80	70	B
91	142105	36	0	76	80	88	70	80	80	80	70	80	70	C
92	142002	84	80	96	96	72	80	70	80	80	70	70	80	C
93	142102	72	40	72	80	96	80	80	80	70	80	70	80	C
94	142311	68	80	80	28	92	70	80	80	70	80	70	80	C
95	142310	40	36	28	28	96	80	70	80	80	70	80	70	C

96	142109	40	20	76	80	72	70	80	80	80	70	80	70	D
97	152902	16	0	40	68	52	80	70	80	70	80	80	70	E
98	152904	48	52	44	64	84	70	80	80	70	80	80	70	E
99	152906	40	4	16	40	80	70	80	80	80	70	70	80	E
100	152909	40	0	60	40	92	70	70	80	80	70	80	70	E
101	152911	36	0	64	64	56	80	80	80	70	80	80	80	U
102	152912	40	28	28	40	64	80	70	80	70	80	80	70	E
103	152913	24	0	32	0	64	70	80	70	80	70	80	80	E
104	152908	20	0	32	0	52	70	80	80	70	80	70	80	E
105	152914	40	24	24	24	56	80	70	80	80	70	80	80	E
106	152917	40	0	16	16	40	90	70	80	80	70	80	70	U
107	152918	8	0	60	40	84	80	80	80	70	80	70	80	U
108	152919	32	0	16	16	16	70	80	70	80	70	80	80	U
109	152922	28	0	8	40	92	70	80	80	80	70	70	80	U
110	152915	36	0	44	40	68	80	80	80	70	80	80	70	D
111	152923	20	16	28	40	52	70	70	70	70	80	70	80	E
112	152926	28	8	40	12	72	80	80	80	80	70	80	70	U
113	152928	36	0	44	40	92	70	80	80	80	70	80	70	D
114	152901	0	0	24	8	56	20	80	80	20	10	20	20	D
115	152903	8	4	0	0	76	30	100	90	50	40	40	10	U
116	152905	8	8	56	28	92	20	70	80	40	50	30	20	U
117	152907	4	24	84	72	88	30	60	80	40	30	40	10	E
118	152910	32	68	52	96	96	70	100	90	30	20	80	70	D
119	152916	24	28	48	88	80	90	100	80	50	30	70	40	E
120	152921	16	52	48	20	76	40	30	70	40	20	40	20	U
121	152920	48	4	28	40	76	70	70	90	50	70	90	80	D
122	152924	8	32	80	20	76	70	70	80	70	60	70	50	C
123	152925	12	20	52	48	88	20	50	50	50	10	40	20	U
124	152927	8	0	28	20	72	20	30	60	40	20	50	30	U

<b>Benchmark: % of Students secured <math>\geq 60</math> marks in CITs, <math>\geq 80</math> in assignment, <math>\geq 65</math> in Seminar/Quiz, Tutorial and <math>\geq C</math> (7) grade in AU  </b>													
<b>L – Level, C-Count</b>													
	<b>CIT</b>					<b>Assignments</b>			<b>Seminar</b>		<b>Quiz</b>		<b>AU</b>
	<b>CO1</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO5</b>	<b>CO2</b>	<b>CO3</b>	<b>CO4</b>	<b>CO4</b>	<b>CO5</b>	<b>CO4</b>	<b>CO5</b>	
	<b>CIT1</b>	<b>CIT2</b>	<b>CIT3</b>	<b>CIT4</b>	<b>CIT5</b>	<b>A1</b>	<b>A2</b>	<b>A3</b>	<b>S1</b>	<b>S2</b>	<b>Q1</b>	<b>Q2</b>	
<b>C</b>	51	42	82	76	106	64	72	94	103	93	92	80	64
<b>%</b>	41.8	34.15	67.21	62.3	86.89	51.61	58.06	75.81	83.06	75	74.19	64.52	51.61
<b>L</b>	0	0	1	1	3	0	0	2	3	2	2	1	0

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C206.1</b>	<b>C206.2</b>	<b>C206.3</b>	<b>C206.4</b>	<b>C206.5</b>
<b>Obtained %</b>	<b>94.1</b>	<b>90.32</b>	<b>89.15</b>	<b>90.81</b>	<b>85.21</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C206:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C206.1	0	-	-	-		0	0	0	3	0.6
C206.2	0	0	-	-		0	0	0	3	0.6
C206.3	1	0	-	-		0.7	0	0.28	3	0.82
C206.4	1	2	3	2		1.6	0	0.64	3	1.11
C206.5	3	-	2	1		2.7	0	1.08	3	1.46
<b>C206</b>										<b>0.92</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C206.1	AU Exam	[1*Internal Test]
C206.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C206.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C206.4	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars + 0.1*Quiz]
C206.5	AU Exam	[0.8*Internal Test + 0.1*Seminars + 0.1*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C206 = \frac{C206.1 + C206.2 + C206.3 + C206.4 + C206.5}{5} = 0.92$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EC6361 Electronics Lab: C207**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	94	70	90	94	70	90	94	60	90	94	70	90	94	90	90	S
2	142308	92	30	90	92	60	90	92	60	90	92	80	90	92	90	90	A
3	142022	90	30	90	90	70	90	90	60	90	90	70	90	90	90	90	A
4	142112	91	50	90	91	70	90	91	80	90	91	70	90	91	80	90	S
5	142070	88	40	80	88	60	70	88	40	80	88	40	70	88	70	70	B
6	142306	88	40	90	88	60	90	88	70	90	88	70	90	88	70	90	B
7	142063	90	50	90	90	60	90	90	30	90	90	60	90	90	70	90	B
8	142301	94	60	90	94	70	90	94	80	90	94	80	90	94	90	90	S
9	142034	91	50	90	91	70	90	91	70	90	91	70	90	91	80	90	A
10	142040	90	50	90	90	70	90	90	70	90	90	70	90	90	80	90	A
11	142071	90	0	90	90	30	90	90	70	90	90	70	90	90	70	90	A
12	142101	96	60	90	96	70	90	96	80	90	96	80	90	96	90	90	S
13	142017	94	50	90	94	70	90	94	70	90	94	70	90	94	80	90	A
14	142045	93	60	90	93	70	90	93	80	90	93	80	90	93	90	90	S
15	142302	95	60	90	95	70	90	95	80	90	95	80	90	95	90	90	S
16	142072	92	50	90	92	70	90	92	70	90	92	70	90	92	80	90	A
17	142111	91	40	90	91	60	90	91	70	90	91	70	90	91	70	90	A
18	142059	96	60	90	96	70	90	96	70	90	96	80	90	96	90	90	S
19	142050	91	50	90	91	60	90	91	70	90	91	70	90	91	70	90	A
20	142309	95	60	90	95	70	90	95	80	90	95	80	90	95	80	90	S
21	142056	95	60	90	95	70	90	95	80	90	95	80	90	95	80	90	S
22	142058	94	50	90	94	60	90	94	70	90	94	70	90	94	70	90	A
23	142004	95	60	90	95	70	90	95	80	90	95	80	90	95	80	90	S
24	142106	90	50	90	90	50	90	90	60	90	90	60	90	90	70	90	A
25	142104	96	50	90	96	60	90	96	70	90	96	80	90	96	90	90	A
26	142011	92	50	90	92	60	90	92	60	90	92	70	90	92	80	90	S
27	142041	95	60	90	95	70	80	95	80	70	95	70	90	95	80	90	S
28	142024	90	50	90	90	60	80	90	60	70	90	60	90	90	70	90	S
29	142026	98	70	90	98	80	90	98	80	90	98	80	90	98	80	90	S
30	142008	96	70	90	96	70	90	96	80	90	96	80	90	96	90	90	S
31	142038	91	50	90	91	50	80	91	60	90	91	50	80	91	90	90	A
32	142032	91	60	90	91	60	70	91	50	90	91	50	90	91	60	90	A
33	142001	96	60	90	96	70	80	96	70	90	96	60	90	96	80	90	S
34	142012	96	60	90	96	60	90	96	70	90	96	70	90	96	80	90	S
35	142057	95	60	90	95	60	90	95	70	90	95	60	90	95	80	90	S
36	142035	94	30	90	94	50	90	94	70	90	94	60	90	94	80	90	A
37	142047	91	50	90	91	50	90	91	60	90	91	50	90	91	70	90	S
38	142108	90	50	90	90	50	90	90	50	70	90	50	80	90	50	80	S
39	142013	95	60	90	95	60	90	95	70	90	95	70	90	95	80	90	A
40	142036	95	60	90	95	60	90	95	70	90	95	70	90	95	80	90	S
41	142067	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
42	142031	95	50	90	95	30	80	95	40	90	95	50	90	95	70	90	S
43	142074	94	60	90	94	60	90	94	50	90	94	60	90	94	70	90	S
44	142044	95	60	90	95	60	90	95	70	90	95	80	90	95	80	90	S

45	142107	92	50	90	92	50	90	92	60	90	92	60	90	92	80	90	A
46	142029	95	60	90	95	70	90	95	70	90	95	60	90	95	80	90	S
47	142016	96	60	90	96	70	90	96	70	90	96	70	90	96	80	90	S
48	142051	95	60	90	95	70	90	95	80	90	95	70	90	95	80	90	S
49	142110	92	50	80	92	60	90	92	60	90	92	30	90	92	60	90	S
50	142066	95	60	90	95	70	90	95	70	90	95	60	90	95	80	90	S
51	142073	95	60	90	95	70	90	95	70	90	95	60	90	95	80	90	S
52	142027	91	50	90	91	60	90	91	60	90	91	50	90	91	80	90	A
53	142030	89	90	90	89	90	90	89	90	90	89	90	90	89	90	90	S
54	142061	50	90	90	50	90	90	50	90	90	50	90	90	50	90	90	C
55	142037	85	90	70	85	90	70	85	90	70	85	90	70	85	90	70	S
56	142064	95	90	60	95	90	60	95	90	60	95	90	60	95	90	60	S
57	142010	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	S
58	142025	96	90	90	96	90	90	96	90	90	96	90	90	96	90	90	S
59	142303	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
60	142039	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
61	142020	80	90	90	80	90	90	80	90	90	80	90	90	80	90	90	A
62	142028	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
63	142042	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
64	142048	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	S
65	142003	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
66	142068	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	S
67	142053	93	90	90	93	90	90	93	90	90	93	90	90	93	90	90	S
68	142007	85	90	90	85	90	90	85	90	90	85	90	90	85	90	90	S
69	142305	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	A
70	142307	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	C
71	142023	99	90	90	99	90	90	99	90	90	99	90	90	99	90	90	S
72	142055	95	90	80	95	90	80	95	90	80	95	90	80	95	90	80	S
73	142046	80	90	90	80	90	90	80	90	90	80	90	90	80	90	90	A
74	142052	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	S
75	142103	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	A
76	142021	99	90	90	99	90	90	99	90	90	99	90	90	99	90	90	A
77	142018	99	90	90	99	90	90	99	90	90	99	90	90	99	90	90	S
78	142043	99	90	90	99	90	90	99	90	90	99	90	90	99	90	90	A
79	142065	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	A
80	142060	85	90	90	85	90	90	85	90	90	85	90	90	85	90	90	S
81	142006	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
82	142304	80	90	90	80	90	90	80	90	90	80	90	90	80	90	90	A
83	142014	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	S
84	142015	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	S
85	142069	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
86	142054	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	A
87	142062	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
88	142019	98	90	90	98	90	90	98	90	90	98	90	90	98	90	90	S
89	142005	99	90	90	99	90	90	99	90	90	99	90	90	99	90	90	S
90	142033	A	90	90	A	90	90	A	90	90	A	90	90	A	90	90	A
91	142105	A	90	90	A	90	90	A	90	90	A	90	90	A	90	90	A
92	142002	99	90	90	99	90	90	99	90	90	99	90	90	99	90	90	S
93	142102	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	S
94	142311	92	90	90	92	90	90	92	90	90	92	90	90	92	90	90	S

95	142310	91	90	90	91	90	90	91	90	90	91	90	90	91	90	90	S
96	142109	A	90	90	A	90	90	A	90	90	A	90	90	A	90	90	A
97	152915	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	A
98	152907	90	30	90	90	60	90	90	60	70	90	50	90	90	70	90	A
99	152923	92	90	90	92	90	90	92	90	90	92	90	90	92	90	90	S
100	152920	92	40	90	92	50	90	92	50	90	92	40	90	92	60	90	A
101	152922	85	90	90	85	90	90	85	90	90	85	90	90	85	90	90	A
102	152916	92	30	90	92	60	80	92	60	70	92	70	90	92	70	90	A
103	152926	90	90	80	90	90	80	90	90	80	90	90	80	90	90	80	A
104	152901	88	40	80	88	50	90	88	50	70	88	50	90	88	60	90	A
105	152928	92	90	90	92	90	90	92	90	90	92	90	90	92	90	90	A
106	152921	94	0	90	94	60	90	94	60	90	94	60	90	94	70	90	S
107	152912	86	90	90	86	90	90	86	90	90	86	90	90	86	90	90	A
108	152919	80	90	90	80	90	90	80	90	90	80	90	90	80	90	90	A
109	152905	91	10	90	91	50	90	91	60	90	91	70	90	91	70	90	A
110	152925	98	70	90	98	80	90	98	80	90	98	80	90	98	80	90	A
111	152910	94	30	90	94	60	80	94	60	70	94	60	90	94	60	90	S
112	152903	95	30	90	95	70	90	95	80	90	95	60	90	95	80	90	A
113	152924	93	0	90	93	60	90	93	60	90	93	40	90	93	60	90	S
114	152902	96	90	90	96	90	90	96	90	90	96	90	90	96	90	90	S
115	152909	92	90	90	92	90	90	92	90	90	92	90	90	92	90	90	A
116	152918	95	90	90	95	90	90	95	90	90	95	90	90	95	90	90	S
117	152911	80	90	90	80	90	90	80	90	90	80	90	90	80	90	90	A
118	152904	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	A
119	152906	80	90	90	80	90	90	80	90	90	80	90	90	80	90	90	S
120	152908	85	90	90	85	90	90	85	90	90	85	90	90	85	90	90	A
121	152913	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	S
122	152917	85	90	90	85	90	90	85	90	90	85	90	90	85	90	90	S
123	152914	85	90	90	85	90	90	85	90	90	85	90	90	85	90	90	B
124	152927	91	0	90	91	60	90	91	70	90	91	50	90	91	70	80	A

**Benchmark:** % of Students secured  $\geq 80$  marks in Model,  $\geq 70$  in Viva,  $\geq 80$  in Record  $\geq A(9)$  grade in AU | L – Level | C- Count | P – Total Present

	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	121	124	124	121	124	124	121	124	124	121	124	124	121	124	124	124
C	120	66	122	120	88	120	120	99	115	120	97	121	120	117	121	124
%	99	53	98.39	99.17	70.97	96.77	99.17	80	92.74	99.17	78.23	97.58	99.17	94.35	97.58	100
L	3	0	3	3	2	3	3	3	3	3	2	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

Survey	C207.1	C207.2	C207.3	C207.4	C207.5
Obtained %	91.55	89.74	88.71	87.25	87.25
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C207:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C207.1	3	0	3	2.4	3	2.76	3	2.81
C207.2	3	2	3	2.8	3	2.92	3	2.94
C207.3	3	3	3	3	3	3	3	3
C207.4	3	2	3	2.8	3	2.92	3	2.94
C207.5	3	3	3	3	3	3	3	3
C207								<b>2.94</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C207.1	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C207.2	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C207.3	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C207.4	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C207.5	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C207 = \frac{C207.1 + C207.2 + C207.3 + C207.4 + C207.5}{5} = 2.94$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6311 Linear and Digital Integrated Circuits Lab: C208**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	98	80	90		80	90		90	90		90	90		80	90	S
2	142308		90	80	95	90	90		80	90		80	90		90	90	A
3	142022		80	90		80	90		90	90		90	90	96	80	90	A
4	142112		90	80		90	90		80	90	92	80	90		90	90	A
5	142070		80	90	80	80	90		90	90		90	90		80	90	B
6	142306		90	80		90	90		90	90		80	90		90	90	B
7	142063		80	90		80	90		80	90		90	90		90	90	A
8	142301		90	80		90	90		90	90		90	90		80	90	S
9	142034		80	90	93	90	90		80	90		80	90		90	90	A
10	142040	92	90	90		80	90		80	90		90	90		80	90	S
11	142071		90	80	94	90	90		90	90		80	90		80	90	A
12	142101		80	90		80	90		80	90	99	80	90		90	90	S
13	142017		90	80		80	90	97	90	90		90	90		80	90	S
14	142045		80	80		90	90		80	90		80	90	98	90	90	S
15	142302	96	80	90		80	90		90	90		90	90		80	90	S
16	142072		90	80		90	90	90	80	90		80	90		90	90	B
17	142111		80	90		80	90		90	90	89	90	90		80	90	A
18	142059		90	80	99	90	90		80	90		80	90		90	90	S
19	142050	91	80	90		80	90		90	90		90	90		80	90	A
20	142309		90	80		90	90	97	80	90		80	90		90	90	S
21	142056		80	90		80	90		90	90	98	90	90		80	90	S
22	142058		90	80	94	90	90		80	90		80	90		90	90	S
23	142106		80	90		80	90		90	90		90	90	99	80	90	S
24	142004	92	90	80		90	90		80	90		80	90		90	90	A
25	142104		80	90		80	90		90	90	98	90	90		80	90	S
26	142011		90	80		90	90	96	80	90		80	90		90	90	S
27	142041		80	90	98	80	90		90	90		90	90		80	90	S
28	142024		90	80		90	90	96	80	90		80	90		90	90	A
29	142026	99	80	90		80	90		90	90		90	90		80	90	S
30	142008		90	80		90	90	99	80	90		80	90		90	90	S
31	142038		80	90		80	90		90	90		90	90	97	80	90	S
32	142032		90	80	98	90	90		90	90		80	90		90	90	S
33	142001	99	80	90		80	90		80	90		90	90		90	90	S
34	142012		90	80		90	90	98	80	90		90	90		80	90	S
35	142057		80	90	96	90	90		90	90		80	90		80	90	S
36	142035		90	90		80	90		80	90	95	80	90		90	90	S
37	142047		90	80	96	80	90		90	90		90	90		80	90	A
38	142108		80	80		90	90	98	80	90		80	90		90	90	A
39	142013		80	90		80	90	98	90	90		90	90		80	90	S
40	142036	97	90	80		90	90		90	90		80	90		90	90	S
41	142067	92	80	90		80	90		80	90		90	90		90	90	S
42	142031		90	80	99	90	90		80	90		90	90		80	90	S
43	142074		80	90		90	90		90	90	95	80	90		80	90	S
44	142044		90	90		80	90	98	80	90		80	90		90	90	S



45	142107		90	80	95	80	90		90	90		90	90		80	90	S
46	142029		80	80	97	90	90		80	90		80	90		90	90	S
47	142016	99	80	90		80	90		80	90		90	90		80	90	S
48	142051		90	80		90	90	97	80	90		80	90		80	90	S
49	142110		80	90		80	90		80	90		80	90	92	80	90	A
50	142066		90	80		80	90	98	80	90		80	90		80	90	A
51	142073		80	80		80	90		90	90	96	80	90		80	90	S
52	142027	90	80	80		80	90		80	90		80	90		90	90	B
53	142030		80	80	94	80	90		90	90		90	90		80	90	S
54	142061		80	80		90	90	86	80	90		80	90		90	90	B
55	142037		80	90		80	90		90	90	92	90	90		80	90	S
56	142064		90	80		90	90		80	90		80	90	90	90	90	S
57	142010		80	90		80	90		80	90		90	90	90	80	90	S
58	142025		90	80		90	90		80	90	92	80	90		80	90	S
59	142303		80	90		80	90	98	90	90		80	90		80	90	S
60	142039		90	80	96	80	90		80	90		80	90		90	90	S
61	142020	92	80	80		80	90		90	90		90	90		80	90	S
62	142028	92	80	80		90	90		80	90		80	90		90	90	S
63	142042		80	90	94	80	90		90	90		90	90		80	90	S
64	142048		90	80		90	90	94	80	90		80	90		90	90	S
65	142003		80	90		80	90		80	90		90	90	95	80	90	S
66	142068	96	90	80		90	90		90	90		80	90		80	90	S
67	142053		80	90		80	90		90	90		80	90	94	90	90	S
68	142007		90	80		80	90		80	90	88	90	90		90	90	S
69	142305		80	80		90	90	92	90	90		90	90		80	90	S
70	142307	97	80	90		90	90		80	90		80	90		90	90	S
71	142023	98	90	90		80	90		80	90		90	90		80	90	S
72	142046		90	80	98	90	90		90	90		80	90		80	90	S
73	142055		80	90	98	80	90		80	90		80	90		90	90	A
74	142052		90	80		80	90	88	90	90		90	90		80	90	S
75	142103		80	80		90	90	88	80	90		80	90		90	90	S
76	142021		80	90		80	90		90	90	88	90	90		80	90	S
77	142018		90	80		90	90		80	90	92	80	90		90	90	S
78	142043		80	90		80	90		90	90		90	90	94	80	90	S
79	142065		90	80		90	90		80	90		80	90	88	90	90	A
80	142060		80	90		80	90		90	90	90	90	90		80	90	S
81	142006		90	80		90	90	90	80	90		80	90		90	90	S
82	142304		80	90	90	80	90		90	90		90	90		80	90	A
83	142014	92	90	80		90	90		80	90		80	90		90	90	S
84	142015	90	80	90		80	90		90	90		90	90		80	90	S
85	142069		90	80	98	90	90		90	90		80	90		90	90	A
86	142054		80	90		80	90	90	90	90		90	90		90	90	S
87	142062		90	80	90	90	90		80	90		90	90		90	90	S
88	142019	94	80	90		90	90		80	90		90	90		80	90	S
89	142005		90	90	90	90	90		80	90		80	90		80	90	S
90	142033	90	90	90		80	90		90	90		80	90		80	90	S
91	142105		90	80	90	80	90		90	90		80	90		90	90	S
92	142002		80	80		80	90	90	80	90		90	90		90	90	S
93	142102		80	80		90	90		90	90	94	90	90		80	90	S
94	142311		80	90		90	90	92	80	90		80	90		90	90	S

95	142310		90	90		80	90		90	90	92	90	90		80	90	S
96	142109		90	80	90	90	90		80	90		80	90		90	90	S
97	152902		80	90		80	90		90	90	88	90	90		80	90	A
98	152904		90	80		90	90		80	90		80	90	88	90	90	S
99	152906	90	80	90		80	90		90	90		90	90		80	90	S
100	152909		90	80		90	90	90	80	90		80	90		90	90	A
101	152911		80	90	88	80	90		90	90		90	90		80	90	A
102	152912		90	80		90	90		80	90	90	80	90		90	90	A
103	152913		80	90		80	90		90	90		90	90	90	80	90	A
104	152908	90	90	80		90	90		80	90		80	90		90	90	A
105	152914		80	90	88	80	90		90	90		90	90		80	90	A
106	152917		90	80	88	90	90		80	90		80	90		90	90	S
107	152918		80	90		80	90	88	90	90		90	90		80	90	A
108	152919		90	80		90	90		80	90	88	80	90		90	90	S
109	152922	90	80	90		80	90		90	90		90	90		80	90	A
110	152915		90	80		90	90		80	90		80	90	88	90	90	S
111	152923		80	90	90	80	90		90	90		90	90		80	90	A
112	152926		90	80		90	90	88	80	90		80	90		90	90	A
113	152928		80	90		80	90		90	90		90	90	88	80	90	S
114	152901		90	80	89	90	90		80	90		80	90		90	90	A
115	152903		80	90	96	80	90		90	90		90	90		80	90	S
116	152905		90	80	98	90	90		80	90		80	90		90	90	S
117	152907		80	90		80	90		90	90	96	90	90		80	90	S
118	152910		90	80		90	90	97	80	90		80	90		90	90	S
119	152916		80	90	96	80	90		90	90		90	90		80	90	S
120	152921		90	80		90	90	99	80	90		80	90		90	90	S
121	152920		80	90		80	90		90	90		90	90	96	80	90	A
122	152924		90	80		90	90		80	90	99	80	90		90	90	A
123	152925		80	90		80	90	97	90	90		90	90		80	90	A
124	152927	93	90	80		90	90		80	90		80	90		80	90	A

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record $\geq A(9)$ grade in AU   L – Level   C- Count   P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	24	124	124	32	124	124	28	124	124	21	124	124	16	124	124	124
C	24	124	124	32	124	124	28	124	124	21	124	124	16	124	124	124
%	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

Survey	C208.1	C208.2	C208.3	C208.4	C208.5
Obtained %	93.73	90.83	86.31	89.65	88.86
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C208:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C208.1	3	3	3	3	3	3	3	3
C208.2	3	3	3	3	3	3	3	3
C208.3	3	3	3	3	3	3	3	3
C208.4	3	3	3	3	3	3	3	3
C208.5	3	3	3	3	3	3	3	3
C208								<b>3</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C208.1	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C208.2	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C208.3	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C208.4	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C208.5	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C208 = \frac{C208.1 + C208.2 + C208.3 + C208.4 + C208.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: MA6459 Numerical Methods: C209**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment					Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	T1	T2	T3	T4	T5	
1	142001	84	76	0	0	80	90	90	100	90	90	90	80	90	90	80	B
2	142002	100	100	98	98	72	100	100	100	100	100	100	100	100	100	100	S
3	142003	100	100	98	98	92	100	100	100	100	100	100	100	100	100	100	S
4	142004	86	86	96	100	76	100	100	100	100	100	100	100	100	100	100	A
5	142005	70	82	80	92	68	100	100	100	100	100	100	100	100	100	100	A
6	142006	70	76	76	70	76	100	100	100	100	100	100	100	100	100	100	A
7	142007	70	94	60	66	88	100	100	100	100	100	100	100	100	100	100	B
8	142008	80	90	100	100	100	100	100	100	100	100	100	100	100	100	100	S
9	142009	100	99	100	92	100	100	100	100	100	100	100	100	100	100	100	A
10	142010	64	64	52	72	68	100	100	100	90	90	70	70	60	80	80	B
11	142011	84	72	68	76	4	100	100	100	100	100	100	100	100	100	100	B
12	142012	88	84	88	100	44	100	100	100	100	90	90	90	100	100	70	A
13	142013	76	84	36	80	16	100	100	100	100	90	80	80	60	80	70	C
14	142014	52	52	78	78	50	100	100	100	100	100	100	100	100	100	100	C
15	142015	AB	AB	96	96	92	100	100	100	100	100	100	100	100	100	100	A
16	142016	92	92	100	100	40	100	100	100	90	90	90	100	100	100	70	S
17	142017	100	88	60	92	44	100	100	100	100	100	100	100	100	100	100	B
18	142018	58	70	30	48	40	100	100	100	100	100	100	100	100	100	100	C
19	142019	90	90	70	76	52	100	100	100	100	100	100	100	100	100	100	A
20	142020	64	56	92	92	68	100	100	90	90	90	70	60	100	100	60	E
21	142021	92	98	98	98	80	100	100	100	100	100	100	100	100	100	100	S
22	142022	60	60	84	68	58	100	100	100	100	100	100	100	100	100	100	B
23	142023	50	56	60	60	60	100	100	100	100	100	100	100	100	100	100	C
24	142024	68	60	72	80	20	100	100	100	100	100	100	100	100	100	100	B
25	142025	48	64	A	A	100	90	90	90	90	90	60	70	60	60	100	C
26	142026	100	64	64	84	92	100	100	100	100	100	100	100	100	100	100	C
27	142027	50	50	32	0	8	100	100	90	90	90	70	60	60	60	60	E
28	142028	84	76	88	92	36	100	100	100	90	90	80	70	100	100	60	B
29	142029	72	76	68	84	40	100	100	100	100	90	80	80	90	90	70	B
30	142030	40	100	A	A	84	100	90	100	90	90	80	100	100	100	100	A
31	142031	76	76	80	92	84	100	90	100	90	90	80	70	100	100	100	A
32	142032	96	96	96	62	92	100	100	100	100	100	100	100	100	100	100	A
33	142033	70	88	76	76	68	100	100	100	100	100	100	100	100	100	100	A
34	142034	76	56	40	60	50	100	100	100	100	100	100	100	100	100	100	A
35	142035	100	84	76	48	84	90	100	90	90	90	100	90	90	80	100	C
36	142036	56	88	100	100	88	100	100	100	100	90	70	90	100	100	100	C
37	142037	56	96	88	100	56	100	100	100	90	90	70	100	90	100	60	A
38	142038	80	54	72	36	A	100	100	100	100	100	100	100	100	100	100	D
39	142039	92	92	92	100	80	100	100	100	90	90	90	90	100	100	100	B
40	142040	64	60	0	8	0	100	100	100	100	100	100	100	100	100	100	E
41	142041	84	76	80	88	88	100	100	100	100	100	100	100	100	100	100	A
42	142042	88	84	64	96	72	100	100	90	90	90	90	80	60	80	80	U
43	142043	80	92	70	82	76	100	100	100	100	100	100	100	100	100	100	A
44	142044	76	88	84	92	68	100	100	100	90	90	80	90	90	100	80	B
45	142045	80	68	76	88	64	100	100	100	100	100	100	100	100	100	100	B

46	142046	18	18	44	44	16	100	100	100	100	100	100	100	100	100	100	C
47	142047	76	76	84	92	36	100	100	90	90	90	80	80	100	90	70	B
48	142048	84	88	80	100	80	100	100	100	100	90	100	90	100	100	100	A
49	142050	84	70	64	72	16	100	100	100	100	100	100	100	100	100	100	C
50	142051	76	84	100	82	64	100	100	100	100	90	70	100	100	90	70	A
51	142052	86	92	70	70	76	100	100	100	100	100	100	100	100	100	100	B
52	142053	80	92	78	78	56	100	100	100	100	100	100	100	100	100	100	B
53	142054	50	50	38	38	60	100	100	100	100	100	100	100	100	100	100	C
54	142055	90	90	82	82	88	100	100	100	100	100	100	100	100	100	100	S
55	142056	96	76	36	100	80	100	100	100	100	100	100	100	100	100	100	B
56	142057	76	72	72	80	60	100	100	100	9	90	80	80	90	90	70	S
57	142058	48	66	24	0	0	100	100	100	100	100	100	100	100	100	100	D
58	142059	92	100	80	100	92	100	100	100	100	100	100	100	100	100	100	S
59	142060	50	50	60	72	80	100	100	100	100	100	100	100	100	100	100	B
60	142061	12	16	8	16	0	90	90	90	90	90	60	50	60	70	60	U
61	142062	56	62	50	56	68	100	100	100	100	100	100	100	100	100	100	A
62	142063	24	44	24	16	8	100	100	100	100	100	100	100	100	100	100	E
63	142064	84	80	64	8	84	100	100	100	90	90	100	90	60	60	100	B
64	142065	70	76	28	28	76	100	100	100	100	100	100	100	100	100	100	C
65	142066	100	80	96	88	92	100	100	100	100	100	100	80	100	90	100	B
66	142067	92	100	A	A	84	100	100	100	100	90	100	100	60	70	100	S
67	142068	74	74	78	78	84	100	100	100	100	100	100	100	100	100	100	A
68	142069	50	62	38	38	60	100	100	100	100	100	100	100	100	100	100	C
69	142070	52	74	0	0	0	100	100	100	100	100	100	100	100	100	100	U
70	142071	72	62	60	20	56	100	100	100	100	100	100	100	100	100	100	E
71	142072	64	48	68	54	A	100	100	100	100	100	100	100	100	100	100	C
72	142073	84	80	60	68	0	100	100	90	90	90	90	90	70	60	60	B
73	142074	68	72	52	28	36	90	100	100	90	90	70	70	60	60	70	C
74	142101	92	64	64	36	72	100	100	100	100	100	100	100	100	100	100	S
75	142102	88	70	92	92	68	100	100	100	100	100	100	100	100	100	100	A
76	142103	46	46	64	64	68	100	100	100	100	100	100	100	100	100	100	E
77	142104	32	92	36	25	8	100	100	100	100	100	100	100	100	100	100	C
78	142105	60	60	40	40	40	100	100	100	100	100	100	100	100	100	100	C
79	142106	68	60	64	36	16	100	100	100	100	100	100	100	100	100	100	B
80	142107	16	68	28	72	20	100	100	90	90	90	70	70	70	80	60	C
81	142108	60	64	44	72	32	100	100	90	90	90	80	70	60	80	70	E
82	142109	60	66	24	24	60	100	100	100	100	100	100	100	100	100	100	B
83	142110	68	48	52	48	A	100	100	90	90	90	70	60	60	60	60	U
84	142111	28	82	40	60	4	100	100	100	100	100	100	100	100	100	100	E
85	142112	72	84	24	68	16	100	100	100	100	100	100	100	100	100	100	C
86	142301	96	80	64	82	100	100	100	100	100	100	100	100	100	100	100	A
87	142302	40	70	60	60	56	100	100	100	100	100	100	100	100	100	100	C
88	142303	68	60	64	44	88	90	100	90	90	90	70	70	80	60	100	A
89	142304	50	50	60	60	80	100	100	100	100	100	100	100	100	100	100	D
90	142305	60	72	40	52	32	100	100	100	100	100	100	100	100	100	100	C
91	142306	86	86	60	40	8	100	100	100	100	100	100	100	100	100	100	E
92	142307	38	38	60	60	68	100	100	100	100	100	100	100	100	100	100	D
93	142308	48	72	72	48	8	100	100	100	100	100	100	100	100	100	100	C
94	142309	92	76	100	96	88	100	100	100	100	100	100	100	100	100	100	B
95	142310	60	60	70	70	92	100	100	100	100	100	100	100	100	100	100	A

96	142311	98	98	70	88	40	100	100	100	100	100	100	100	100	100	100	C
97	152901	32	0	0	0	16	100	100	100	100	100	100	100	100	100	100	U
98	152902	40	32	16	40	28	100	100	90	100	90	60	60	60	60	E	
99	152903	0	0	8	0	8	100	100	90	90	90	60	60	60	60	E	
100	152904	50	50	50	50	68	100	100	100	100	100	100	100	100	100	100	D
101	152905	56	68	52	60	16	90	90	90	90	90	70	70	60	60	60	E
102	152906	30	42	36	36	0	100	100	100	100	100	100	100	100	100	100	U
103	152907	28	72	8	0	A	100	100	100	100	100	100	100	100	100	100	U
104	152908	28	28	30	30	12	100	100	100	100	100	100	100	100	100	100	D
105	152909	52	52	AB	AB	16	100	100	100	100	100	100	100	100	100	100	E
106	152910	40	64	52	80	8	100	100	90	90	90	60	60	60	80	60	E
107	152911	10	28	18	18	0	100	100	100	100	100	100	100	100	100	100	E
108	152912	A	A	16	40	8	100	100	90	90	90	70	60	60	60	60	E
109	152913	20	26	54	54	50	100	100	100	100	100	100	100	100	100	100	D
110	152914	20	20	0	0	0	100	100	100	100	100	100	100	100	100	100	E
111	152915	56	60	48	16	32	100	100	100	100	100	100	100	100	100	100	E
112	152916	72	82	66	40	25	100	100	100	100	100	100	100	100	100	100	E
113	152917	20	44	34	34	40	100	100	100	100	100	100	100	100	100	100	E
114	152918	36	36	40	42	68	100	100	100	100	100	100	100	100	100	100	D
115	152919	0	0	0	24	0	100	100	90	90	90	60	60	60	60	60	E
116	152920	48	12	0	16	24	100	100	100	100	100	100	100	100	100	100	E
117	152921	60	52	52	52	8	100	100	90	90	90	70	60	60	60	60	E
118	152922	50	0	48	8	50	100	100	100	100	100	100	100	100	100	100	D
119	152923	32	72	52	8	36	100	100	100	100	100	100	100	100	100	100	D
120	152924	48	92	76	56	88	90	90	90	90	90	60	100	80	60	100	B
121	152925	32	0	8	0	24	90	90	90	90	90	60	60	60	60	60	U
122	152926	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	U
123	152927	12	12	28	28	0	100	100	100	100	100	100	100	100	100	100	E
124	152928	48	72	62	42	25	100	100	100	100	100	100	100	100	100	100	E

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C(7)$  grade in AU |  
L – Level, C-Count

	CIT					Assignment					Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	A5	T1	T2	T3	T4	T5	
C	72	87	69	66	57	123	123	123	122	123	115	112	104	108	107	80
%	59.02	71.31	57.5	55	47.9	100	100	100	99.19	100	93.5	91.06	84.55	87.8	86.99	64.52
L	0	2	0	0	0	3	3	3	3	3	3	3	3	3	3	1

**Attainment Calculation:**

**Survey:**

Survey	C209.1	C209.2	C209.3	C209.4	C209.5
Obtained %	93.51	94.83	92.34	92.16	89.75
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment –C209:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C209.1	0	3	-	-	3	1.2	1	1.08	3	1.46
C209.2	2	3	-	-	3	2.4	1	1.56	3	1.85
C209.3	0	3	-	-	3	1.2	1	1.08	3	1.46
C209.4	0	3	-	-	3	1.2	1	1.08	3	1.46
C209.5	0	3	-	-	3	1.2	1	1.08	3	1.46
<b>C209</b>										<b>1.54</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C209.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C209.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C209.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C209.4	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C209.5	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C209 = \frac{C209.1 + C209.2 + C209.3 + C209.4 + C209.5}{5} = 1.54$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6401 Electrical Machines I: C210**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO4	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
1	142009	92	84	84	90	88	90	90	80	90	90	80	85	90	90	90	90	90	A
2	142308	52	28	64	32	80	90	90	90	90	90	80	80	90	90	90	90	90	U
3	142022	80	44	0	36	96	90	90	80	90	90	80	85	90	90	90	90	90	B
4	142112	60	70	44	44	84	90	90	80	90	90	80	80	90	90	90	90	90	C
5	142070	40	16	56	94	80	90	90	80	90	90	80	70	90	90	90	90	90	U
6	142306	30	26	16	8	84	90	90	80	90	90	80	60	90	90	90	90	90	D
7	142063	14	14	16	20	80	90	90	80	90	90	80	60	80	90	90	90	90	U
8	142301	90	86	68	92	88	90	90	80	90	90	80	90	90	90	90	90	90	B
9	142034	80	64	56	88	72	80	90	80	90	90	80	88	90	90	90	90	90	B
10	142040	64	68	60	84	72	90	90	-	90	90	80	70	80	90	90	90	90	B
11	142071	56	60	68	44	80	90	80	80	90	90	80	78	90	90	90	90	90	E
12	142101	88	68	56	48	84	90	90	90	90	90	80	85	90	90	90	90	90	B
13	142017	68	68	64	44	80	90	90	80	90	90	80	75	90	90	90	90	90	B
14	142045	52	68	80	32	92	90	90	80	90	90	80	70	90	90	90	90	90	B
15	142302	56	50	48	48	92	90	90	80	90	90	80	70	90	90	90	90	90	C
16	142072	36	36	8	32	40	90	80	80	90	90	80	60	80	80	90	90	90	E
17	142111	32	36	42	0	64	90	90	80	90	90	80	60	90	80	80	90	90	E
18	142059	76	48	74	68	80	90	90	80	90	90	80	80	90	90	80	90	90	B
19	142050	20	28	44	32	76	90	90	80	90	90	80	60	90	90	80	90	90	E
20	142309	84	52	80	92	88	90	90	80	90	90	80	85	90	90	80	90	90	B
21	142056	96	80	52	44	88	90	90	80	90	90	80	95	90	90	80	90	90	B
22	142058	60	40	36	24	80	80	90	90	90	90	80	70	90	90	80	90	90	U
23	142004	84	80	92	60	84	90	90	80	90	90	80	80	90	90	90	90	90	A
24	142106	56	28	28	8	80	90	90	80	90	90	80	70	90	90	90	90	90	D
25	142104	32	40	40	40	76	90	80	90	90	90	80	76	90	90	90	90	90	E
26	142011	84	76	36	76	88	90	80	80	90	90	80	80	90	90	90	90	90	C
27	142041	92	56	44	72	96	90	90	80	90	90	80	90	90	90	90	90	90	B
28	142024	80	68	44	56	88	90	90	80	90	90	80	70	90	90	90	90	90	C
29	142026	92	96	64	96	92	90	90	-	90	90	80	90	90	90	90	90	90	C
30	142008	88	88	76	64	88	90	90	80	90	90	80	90	90	90	90	90	90	A
31	142038	52	52	4	48	80	90	90	80	90	90	70	86	80	90	90	90	90	E
32	142032	88	88	72	52	84	90	90	90	90	90	80	70	90	90	90	90	90	C
33	142001	88	88	60	88	88	90	90	80	90	90	80	90	90	90	90	90	90	B
34	142012	84	76	52	84	88	90	90	90	90	90	80	90	90	90	90	90	90	B
35	142057	68	76	32	44	96	90	90	90	90	90	80	60	80	80	90	90	90	C
36	142035	80	40	68	84	80	90	90	80	90	90	80	80	90	90	90	90	90	C
37	142047	72	76	40	92	92	90	90	80	90	90	80	90	90	90	90	90	90	B
38	142108	50	50	40	44	82	90	90	80	90	90	80	60	90	90	90	90	90	E
39	142013	92	40	72	80	88	90	90	90	90	90	80	90	90	90	90	90	90	B
40	142036	68	48	64	88	82	90	90	90	90	90	80	80	90	90	90	90	90	B
41	142031	64	60	68	64	80	90	90	90	90	90	80	70	90	90	90	90	90	B
42	142074	84	44	68	64	84	90	90	80	90	90	80	70	90	90	90	90	90	C
43	142044	76	52	32	60	96	90	90	90	90	90	80	60	90	90	90	90	90	B
44	142107	68	36	80	48	80	90	90	80	90	90	80	60	90	90	90	90	90	D
45	142029	64	72	80	88	86	90	90	80	90	90	80	90	90	90	90	90	90	B
46	142016	76	80	24	64	86	90	90	80	90	90	80	70	90	90	90	90	90	B
47	142051	72	44	76	64	86	90	90	90	90	90	80	70	90	90	90	90	90	B
48	142110	40	48	40	48	80	90	90	80	90	90	80	60	90	90	90	90	90	D
49	142066	72	24	88	84	82	90	90	90	90	90	80	90	80	90	90	90	90	C
50	142073	68	60	80	64	88	90	90	80	90	90	80	70	90	90	90	90	90	B
51	142027	12	8	0	0	20	90	90	80	90	90	60	70	20	50	50	50	50	U
52	142067	80	84	92	64	92	90	90	80	90	90	70	70	90	90	90	90	90	C
53	142030	80	68	84	68	96	90	90	80	90	90	70	70	90	90	90	90	90	A
54	142061	28	16	0	4	80	80	90	80	90	90	80	60	80	80	80	80	70	U
55	142037	84	64	92	68	86	90	90	80	90	90	80	90	90	90	90	90	90	C
56	142064	68	40	52	40	82	90	90	80	90	90	80	90	90	90	90	90	90	B
57	142010	76	64	72	48	82	90	90	80	90	90	80	90	90	90	90	90	90	B
58	142025	84	64	48	72	96	80	90	90	90	90	80	90	90	90	90	90	90	B



59	142303	56	48	28	92	86	90	90	90	90	90	80	90	60	90	90	90	90	C
60	142039	88	72	87	80	96	90	90	80	90	90	80	90	90	90	90	90	90	A
61	142020	64	68	72	64	84	90	90	90	90	90	80	90	90	90	90	90	90	C
62	142028	80	56	80	80	84	90	90	90	90	90	80	90	90	90	90	90	90	C
63	142042	88	72	36	72	92	90	90	90	90	90	80	90	90	90	90	90	90	U
64	142048	76	72	64	52	96	90	90	80	90	90	80	90	90	90	90	90	90	B
65	142003	92	100	92	100	96	100	100	100	90	100	90	90	100	100	100	100	100	B
66	142068	72	84	76	84	100	90	90	100	90	100	70	90	90	90	90	100	90	C
67	142053	60	52	80	80	96	90	90	100	90	90	70	90	90	90	90	90	90	D
68	142007	48	52	92	88	88	90	90	100	90	90	60	80	90	90	90	90	90	B
69	142305	52	88	52	88	96	80	80	90	90	90	60	100	90	90	80	90	90	B
70	142307	72	48	72	48	76	90	90	90	90	90	70	100	80	80	90	90	90	U
71	142023	64	76	64	76	92	90	90	100	90	90	70	100	90	90	90	90	90	E
72	142055	96	88	96	81	96	100	100	90	90	90	90	90	100	100	90	90	90	A
73	142046	32	64	2	2	56	80	80	90	70	90	70	100	80	80	100	90	90	E
74	142052	96	92	96	92	96	100	100	100	90	90	90	90	100	100	80	80	90	A
75	142103	56	64	56	64	100	90	90	100	90	90	70	90	80	80	100	90	90	B
76	142021	44	46	44	46	100	100	100	100	90	90	60	90	100	100	90	90	90	B
77	142018	A	A	4	4	72	80	80	100	70	90	70	90	80	80	80	90	90	D
78	142043	40	28	50	72	72	80	80	90	90	90	60	90	80	80	100	80	90	C
79	142065	48	52	76	68	96	90	90	90	90	90	70	90	80	80	90	90	90	U
80	142060	40	60	72	84	84	90	90	100	80	90	60	90	80	80	80	80	90	C
81	142006	96	96	96	96	96	100	100	100	90	90	90	90	100	100	100	80	90	C
82	142304	52	52	64	70	72	80	80	100	70	90	70	90	80	80	100	90	90	D
83	142014	60	64	100	70	96	90	90	100	90	90	70	90	90	90	90	90	90	C
84	142015	A	A	78	92	100	100	100	100	70	90	80	90	100	100	90	80	90	B
85	142069	68	56	60	60	68	80	80	100	80	90	80	100	80	80	90	90	90	U
86	142054	20	36	28	36	84	80	80	80	70	90	60	90	80	80	80	80	90	D
87	142062	72	80	100	92	96	90	90	100	90	100	90	100	90	90	90	90	90	B
88	142019	48	64	80	80	100	90	90	90	90	80	70	90	90	90	90	90	90	A
89	142005	68	60	92	88	96	90	90	90	90	90	80	90	90	90	90	90	90	C
90	142033	92	88			100	90	90	90	90	90	90	90	90	90	80	0	90	B
91	142105	12	40	12	96	88	80	80	90	70	80	70	80	80	80	90	90	90	E
92	142002	88	92	88	92	100	100	100	90	90	90	90	90	100	100	90	90	80	B
93	142102	64	60	52	88	100	90	90	90	90	90	70	90	90	90	90	100	90	B
94	142311	72	72	72	72	96	90	90	90	90	100	80	90	90	90	90	90	90	E
95	142310	44	56	68	92	92	90	80	90	70	90	70	90	80	80	80	90	90	D
96	142109	28	48	50	55	96	80	80	100	70	90	60	80	80	80	80	80	100	E
97	152915	28	52	32	40	40	90	90	90	80	80	70	70	80	80	80	90	80	E
98	152907	24	40	48	40	64	80	90	80	80	80	70	80	80	80	80	80	80	UA
99	152923	44	44	40	20	42	90	90	80	80	80	50	70	80	80	80	80	80	E
100	152920	28	28	24	16	48	80	90	80	80	80	50	80	80	80	80	80	80	U
101	152922	28	32	68	48	64	90	90	80	80	80	70	75	80	80	80	80	80	E
102	152916	50	80	40	68	72	90	90	90	80	80	50	85	80	80	80	80	80	D
104	152901	8	24	36	32	16	90	90	80	80	80	50	60	80	80	80	80	80	U
105	152928	32	72	40	68	68	80	90	80	80	80	70	70	80	80	80	80	80	D
106	152921	72	32	72	40	56	90	90	90	90	90	80	90	90	90	90	90	90	C
107	152912	0	20	36	40	36	80	80	80	80	80	80	80	90	80	80	80	80	D
108	152919	16	16	16	24	20	90	80	80	80	80	50	80	60	60	60	60	80	U
109	152905	50	32	0	36	20	90	80	80	80	80	50	80	60	60	60	80	80	D
110	152925	52	24	40	36	36	90	80	80	80	80	50	80	60	60	60	80	80	U
111	152910	68	52	72	68	52	90	90	80	80	80	50	90	70	80	80	90	80	C
112	152903	52	52	28	52	28	90	90	80	80	80	50	80	60	60	60	80	80	U
113	152924	76	56	68	68	68	90	90	80	80	80	50	90	80	80	80	90	80	C
114	152902	52	20	12	28	40	90	90	80	80	80	50	80	60	60	60	80	80	U
115	152909	56	52	28	48	100	90	90	90	90	100	70	90	90	90	90	80	90	C
116	152918	32	44	36	44	88	80	80	80	70	80	60	100	80	80	90	80	80	E
117	152911	32	36	84	72	84	80	80	90	70	90	70	80	80	80	90	80	90	E
118	152904	68	52	28	35	92	80	80	100	90	90	80	90	80	80	80	90	90	C
119	152908	68	12	15	12	80	90	80	90	80	90	80	90	90	80	80	90	80	D
120	152913	44	36	44	36	80	80	80	90	70	80	70	100	80	80	90	90	90	E
121	152917	48	52	48	52	92	90	90	80	70	90	80	90	80	80	90	90	100	E
122	152906	8	40	8	2	96	80	80	90	70	90	70	90	80	80	80	90	90	E
123	152914	24	24	24	24	64	90	80	90	70	90	70	90	80	80	90	90	90	U
124	152927	0	28	6	8	88	80	80	90	70	100	60	90	80	80	90	90	90	U

Benchmark: % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU																		
L – Level, C-Count																		
	CIT					Assignments			Survey		Quiz		Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO4	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
C	67	53	58	65	108	123	123	121	123	123	102	111	116	117	117	121	122	70
%	55.37	43.8	47.15	52.85	87.8	100	100	98.37	100	100	82.93	90.24	94.31	95.12	95.12	98.37	99.19	57.38
L	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C210.1	C210.2	C210.3	C210.4	C210.5
Obtained %	96.08	94.96	95.71	94.89	93.52
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C210:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C210.1	0	3	-	3	3	1.2	0	0.48	3	0.98
C210.2	0	3	-	-	3	1.2	0	0.48	3	0.98
C210.3	0	3	-	-	3	1.2	0	0.48	3	0.98
C210.4	0	-	3	3	3	1.2	0	0.48	3	0.98
C210.5	3	-	3	-	3	3	0	1.2	3	1.56
<b>C210</b>										<b>1.1</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C210.1	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Quiz + 0.2*Tutorial]
C210.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C210.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C210.4	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]
C210.5	AU Exam	[0.6*Internal Test + 0.2*Seminars + 0.2*Tutorial]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C210 = \frac{C210.1 + C210.2 + C210.3 + C210.4 + C210.5}{5} = 1.1$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: CS6456 Object Oriented Programming: C211**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO5	CO1	CO2	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	
1	142009	72	92	100	96	98	100	100	100	100	100	C
2	142308	8	20	36	16	50	80	80	80	80	80	E
3	142022	84	28	40	72	56	70	70	80	70	70	E
4	142112	20	68	36	32	50	100	100	0	100	100	C
5	142070	16	12	60	40	30	80	80	100	80	80	E
6	142306	4	8	60	40	76	90	90	80	90	90	U
7	142063	16	12	4	0	20	0	50	90	70	50	E
8	142301	68	60	72	72	72	0	50	60	70	50	B
9	142034	56	60	52	48	68	100	100	60	100	100	D
10	142040	28	24	12	24	18	0	50	100	70	50	E
11	142071	a	a	48	4	76	80	100	80	80	100	E
12	142101	84	100	100	80	90	80	100	100	80	100	B
13	142017	68	80	88	76	82	80	100	100	80	100	C
14	142045	24	48	44	28	36	100	100	100	100	100	C
15	142302	36	28	36	28	88	100	100	100	100	100	C
16	142072	12	16	20	24	40	0	50	100	70	50	U
17	142111	16	8	8	40	24	0	50	100	70	50	U
18	142059	96	92	96	76	86	100	100	100	100	100	D
19	142050	36	36	12	0	68	0	50	80	70	50	D
20	142309	52	52	44	64	92	100	100	100	100	100	B
21	142056	60	40	76	76	76	0	50	100	70	50	D
22	142058	40	36	36	36	76	0	50	100	70	50	U
23	142004	92	88	96	68	82	0	50	100	70	50	C
24	142106	40	44	8	8	42	80	80	100	90	80	U
25	142104	76	52	76	68	72	80	80	100	90	80	C
26	142011	76	68	44	40	72	100	100	100	100	100	D
27	142041	48	28	56	76	66	0	50	80	70	50	E
28	142024	80	52	92	68	80	70	70	80	80	70	D
29	142026	80	40	60	68	64	0	50	80	70	50	E
30	142008	88	96	100	96	98	100	100	90	100	100	B
31	142038	24	16	12	12	50	80	80	100	70	80	E
32	142032	72	28	40	32	50	80	80	80	70	80	C
33	152925	4	28	12	4	56	80	80	90	100	80	U
34	152907	0	8	a	a	a	80	80	100	100	80	U
35	152923	0	0	0	12	44	80	80	100	100	80	E
36	152920	0	0	0	0	0	0	50	70	70	50	U
37	152922	12	0	12	12	12	80	80	70	100	80	E
38	152916	16	72	8	16	66	100	80	70	90	80	E
39	152901	0	0	0	8	0	80	100	100	0	100	D
40	152928	48	0	16	8	64	60	100	100	0	100	E
41	142001	60	64	54	68	80	0	100	100	100	100	C
42	142012	84	80	62	62	90	0	100	100	100	100	E
43	142057	52	64	68	44	74	100	100	100	100	100	E
44	142035	72	72	50	52	76	100	100	100	100	100	C
45	142047	40	80	76	46	76	100	100	100	100	100	E

46	142108	16	52	50	50	66	0	100	100	100	100	U
47	142013	48	60	48	30	68	100	100	100	100	100	E
48	142036	52	84	54	82	74	100	100	100	100	100	B
49	142031	88	56	32	24	82	100	100	100	100	100	D
50	142074	20	48	36	16	66	100	100	100	100	100	E
51	142004	64	80	74	32	86	100	100	100	100	100	E
52	142107	36	72	50	54	52	100	100	100	100	100	B
53	142029	84	72	78	68	72	100	100	100	100	100	C
54	142016	96	88	48	70	76	100	100	100	100	100	C
55	142051	72	76	72	50	84	100	100	100	100	100	C
56	142110	56	32	40	28	58	100	100	100	100	100	U
57	142066	68	80	70	64	76	100	100	100	100	100	U
58	142073	84	80	16	0	50	100	100	100	100	100	D
59	142027	28	72	4	0	8	100	100	100	100	100	D
60	142067	84	76	82	72	80	100	100	100	100	100	B
61	142030	84	68	66	74	90	100	100	100	100	100	D
62	142061	0	0	18	6	0	0	100	100	100	100	U
63	142037	92	88	84	86	84	0	100	100	100	100	C
64	142064	68	36	44	20	0	100	100	100	100	100	U
65	142010	76	80	62	38	74	100	100	100	100	100	C
66	142025	80	56	64	64	62	100	100	100	100	100	D
67	142303	60	64	46	56	64	100	100	100	100	100	E
68	142039	88	92	66	76	82	100	100	100	100	100	D
69	142020	56	80	52	56	66	100	100	100	100	100	E
70	142028	92	96	74	54	78	100	100	100	100	100	B
71	142042	32	68	62	44	84	100	100	100	100	100	E
72	142048	72	64	a	a	72	100	100	100	100	100	C
73	152921	0	40	38	34	50	100	100	100	100	100	E
74	152912	0	0	0	16	51	100	100	100	100	100	E
75	152919	0	0	4	0	14	100	100	100	100	100	U
76	152905	0	12	14	2	50	100	100	100	100	100	E
77	152925	52	8	12	4	12	100	100	100	100	100	U
78	152910	36	44	28	36	62	100	100	100	100	100	E
79	152903	20	0	8	0	0	0	100	100	100	100	U
80	152924	16	44	24	6	52	100	100	100	100	100	D
81	152902	0	0	4	0	51	100	100	100	100	100	E
82	142003	92	96	80	72	94	100	100	100	100	100	D
83	142068	48	52	76	72	74	100	100	100	100	100	B
84	142053	32	52	76	56	66	100	100	100	100	100	B
85	142067	64	48	88	64	76	100	100	100	100	100	D
86	142305	48	100	56	84	74	100	100	100	100	100	C
87	142307	76	96	52	60	86	100	100	100	100	100	C
88	142023	48	52	40	48	50	90	100	100	90	100	D
89	142055	36	52	92	76	84	0	100	100	60	100	B
90	142046	8	48	12	0	80	70	100	100	70	100	E
91	142052	36	48	36	48	48	80	100	100	80	100	C
92	142103	24	12	68	52	60	80	100	100	80	100	B
93	142021	76	92	68	76	84	100	100	100	100	100	B
94	142018	80	68	48	72	76	90	100	100	90	100	C
95	142043	24	44	72	32	52	90	100	100	100	100	E

96	142065	20	48	36	40	50	100	100	100	100	100	D
97	142060	48	68	32	48	58	90	100	100	100	100	C
98	142006	72	80	92	84	88	100	100	100	90	100	B
99	142304	32	36	28	48	38	100	100	100	90	100	U
100	142014	52	76	80	64	72	100	100	100	90	100	C
101	142015	a	a	100	88	94	100	100	100	90	100	B
102	142069	128	96	96	32	28	80	100	100	90	100	E
103	142057	128	192	208	272	40	90	100	100	90	100	E
104	142062	96	52	92	80	86	100	100	100	90	100	D
105	142019	32	80	60	60	60	100	100	100	90	100	B
106	142005	56	60	60	60	14	100	100	100	90	100	C
107	142033	72	92	92	84	60	100	100	100	90	100	B
108	142105	68	28	32	52	50	100	100	100	90	100	E
109	142002	84	80	64	56	50	100	100	100	90	100	B
110	142102	80	88	68	56	60	70	100	100	90	100	C
111	142311	40	40	84	72	84	80	100	100	90	100	C
112	142310	36	48	68	48	78	70	100	100	90	100	C
113	142109	20	12	60	60	58	90	100	100	90	100	E
114	152909	28	28	a	a	60	80	100	100	50	100	B
115	152918	24	8	4	28	70	80	100	100	50	100	E
116	152919	48	20	12	12	70	70	100	100	50	100	U
117	152904	48	28	52	48	50	80	100	100	50	100	C
118	152908	16	0	16	4	10	80	100	100	50	100	E
119	152913	24	12	4	8	6	0	100	100	50	100	U
120	152917	24	0	20	0	15	0	100	100	50	100	E
121	152906	4	0	24	4	26	0	100	100	50	100	U
122	152914	4	8	4	4	10	0	100	100	50	100	U
123	152927	16	0	0	0	0	0	100	100	50	100	U

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignment			Seminar		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO5	CO1	CO2	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	
C	47	51	50	43	72	92	109	117	110	111	46
%	38.84	42.15	41.67	35.83	59.02	74.8	88.62	95.12	89.43	90.24	37.4
L	0	0	0	0	0	2	3	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C211.1	C211.2	C211.3	C211.4	C211.5
Obtained %	87.26	88.22	85.74	86.44	82.96
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C211:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C211.1	0	2	3	-	-	0.7	0	0.28	3	0.82
C211.2	0	3	3	-	-	0.9	0	0.36	3	0.89
C211.3	0	-	-	-	-	0	0	0	3	0.6
C211.4	0	-	-	-	-	0	0	0	3	0.6
C211.5	0	3	-	-	-	0.9	0	0.36	3	0.89
<b>C211</b>										<b>0.76</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C211.1	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminar]
C211.2	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminar]
C211.3	AU Exam	[1*Internal Test]
C211.4	AU Exam	[1*Internal Test]
C211.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C211 = \frac{C211.1 + C211.2 + C211.3 + C211.4 + C211.5}{5} = 0.76$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6402 Transmission and Distribution: C212**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO4	CO5	CO2	CO4	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5	
1	142009	88	96	92	92	96	100	100	90	100	90	100	100	100	100	100	100	96	B
2	142308	80	68	28	88	54	100	100	100	100	100	90	90	90	100	100	90	90	E
3	142022	56	76	56	68	52	100	100	100	90	100	90	100	90	100	90	90	100	E
4	142112	52	60	40	72	50	100	100	90	100	100	100	90	90	100	100	100	90	E
5	142070	40	68	1	2	16	90	90	100	100	90	90	100	90	100	90	100	90	U
6	142306	24	40	0	16	16	90	90	100	90	100	100	90	90	100	90	90	90	U
7	142063	46	60	24	36	40	100	90	90	90	90	100	100	90	100	90	100	95	U
8	142301	84	88	96	84	76	100	100	100	100	100	90	100	100	90	100	90	95	E
9	142034	72	68	76	36	52	90	100	90	100	100	100	90	100	100	90	100	90	D
10	142040	72	72	24	36	50	100	100	100	100	90	100	100	100	90	100	100	95	U
11	142071	68	60	48	52	76	100	100	90	90	100	90	100	100	90	100	90	100	U
12	142101	96	84	84	80	84	100	100	100	100	90	100	100	90	100	100	100	95	C
13	142017	72	88	80	40	72	90	90	90	100	100	90	90	100	100	90	90	90	E
14	142045	76	80	96	96	76	100	100	100	90	100	100	90	100	90	100	100	90	U
15	142302	72	76	60	40	54	100	90	90	100	90	90	100	100	100	100	90	90	U
16	142072	24	24	56	8	50	90	100	100	100	100	100	100	90	100	100	100	90	U
17	142111	48	4	44	8	52	100	90	100	100	100	100	90	90	100	100	90	95	U
18	142059	88	80	88	92	96	100	100	90	90	90	90	100	100	100	100	90	90	C
19	142050	64	80	8	4	16	90	100	100	90	100	100	100	90	100	100	90	100	D
20	142309	92	100	88	92	84	100	100	90	100	100	100	90	100	100	100	90	90	E
21	142056	92	88	92	84	84	100	100	100	100	90	100	90	100	100	100	90	95	D
22	142058	28	60	0	64	84	100	90	90	100	100	100	90	90	100	100	90	90	U
23	142004	88	96	84	88	96	100	100	100	100	100	100	100	100	100	100	90	95	C
24	142106	48	52	36	32	52	100	90	90	100	90	100	90	90	100	100	90	90	E
25	142104	60	60	64	76	55	100	90	100	100	100	100	100	100	100	90	95	95	U
26	142011	52	84	36	92	56	90	90	90	100	100	100	90	90	90	90	100	100	D
27	142041	64	100	84	96	60	100	90	100	90	100	100	100	100	90	90	90	90	B
28	142024	68	48	68	72	62	90	90	100	100	100	100	100	100	100	90	95	90	E
29	142026	92	60	84	68	72	100	90	100	100	100	100	100	100	90	100	100	90	U
30	142008	96	72	88	84	88	100	100	90	100	100	100	90	100	100	100	90	90	C
31	142038	28	36	A	A	84	90	90	90	100	90	100	100	90	90	90	90	90	D
32	142032	72	48	64	88	76	90	90	100	100	100	90	90	100	90	100	95	90	C
33	152915	52	60	8	8	50	90	90	90	100	90	90	100	100	90	100	90	90	U
34	152907	52	60	20	4	A	90	90	100	100	100	100	90	100	100	90	90	90	U
35	152923	56	42	8	24	52	90	90	100	100	90	90	100	90	100	100	90	90	U
36	152920	12	0	0	16	20	100	90	90	100	100	100	100	100	100	100	90	90	U
37	152922	78	16	24	44	54	90	90	100	90	90	90	100	100	90	90	90	90	E
38	152916	84	64	60	24	40	90	90	90	100	100	90	100	100	90	90	90	90	U
39	152926	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	U
40	152901	8	0	76	24	10	100	90	100	100	100	100	100	100	100	100	90	90	U
41	152928	56	60	52	56	56	90	90	90	90	100	90	90	90	100	100	90	90	E
42	142001	64	80	76	84	72	100	95	90	100	100	100	100	100	100	90	100	90	B
43	142012	96	100	84	92	92	100	100	100	100	100	100	90	100	100	100	100	90	C
44	142057	92	100	A	A	88	100	90	90	90	100	100	90	100	100	100	100	90	E
45	142035	56	64	40	10	60	100	95	100	100	100	90	100	100	90	90	100	100	E
46	142047	68	92	84	80	76	100	90	100	100	100	100	100	100	90	90	90	100	C
47	142108	64	16	24	28	60	100	95	100	90	100	100	90	90	90	90	100	100	E
48	142013	72	84	84	80	68	100	90	90	100	100	90	100	100	100	100	100	100	A
49	142036	40	84	64	64	88	100	100	100	100	100	100	100	100	100	100	90	90	C
50	142031	80	24	100	88	80	90	90	90	90	100	100	100	90	100	90	90	90	E
51	142074	48	80	76	88	96	90	95	100	100	100	100	100	80	90	90	90	90	E
52	142044	84	90	80	64	76	100	100	100	90	100	100	100	100	100	100	90	90	C
53	142107	56	64	12	80	56	100	100	100	100	100	90	100	90	90	90	100	90	E
54	142029	80	92	64	44	72	100	90	90	100	100	100	90	100	90	90	90	100	E
55	142016	92	100	100	96	72	100	100	100	100	100	100	100	100	100	100	100	100	C
56	142051	96	24	80	64	84	100	100	100	100	90	100	100	100	100	100	100	100	D
57	142110	44	16	20	28	76	100	90	90	100	100	100	100	100	100	90	90	90	E
58	142066	88	92	80	48	92	100	100	100	90	90	100	100	100	100	100	90	100	C

59	142073	72	72	20	52	76	100	90	100	100	100	90	100	100	90	90	100	100	E
60	142027	64	48	28	24	20	100	90	90	100	90	100	100	100	90	95	100	100	U
61	142067	76	92	84	88	92	100	100	95	90	100	100	100	100	100	100	100	90	D
62	142030	68	92	52	64	92	100	90	100	100	100	100	90	100	90	90	100	90	C
63	142061	84	36	28	12	50	90	90	100	100	100	90	100	100	90	95	100	100	U
64	142037	96	96	92	92	72	100	90	100	90	100	90	100	100	100	100	90	100	B
65	142064	72	86	40	80	60	100	90	100	100	100	100	90	100	90	100	90	100	C
66	142010	84	96	A	A	50	100	90	100	100	90	100	100	95	90	90	90	100	A
67	142025	92	92	100	92	96	90	100	100	90	100	90	100	90	100	95	90	100	C
68	142303	52	68	52	76	68	100	90	90	100	100	100	90	95	100	90	90	100	C
69	142039	76	92	80	80	96	100	100	90	100	90	90	100	100	100	100	90	90	B
70	142020	88	36	68	16	80	90	90	100	90	90	100	100	90	100	95	100	90	B
71	142028	60	24	60	48	92	100	90	100	100	100	90	100	95	90	90	100	90	D
72	142042	64	72	36	92	72	95	90	100	90	90	90	90	90	100	95	90	90	U
73	142048	80	28	36	48	72	100	100	90	100	100	100	100	100	100	100	100	100	U
74	152921	44	84	72	28	72	100	90	100	100	100	100	100	100	100	90	100	100	E
75	152912	60	76	16	24	80	100	90	100	90	100	90	100	90	90	95	100	100	U
76	152919	16	0	4	20	36	90	90	100	100	90	100	100	90	100	90	100	90	U
77	152905	48	60	12	48	60	95	90	90	90	100	90	100	95	100	95	90	100	E
78	152925	44	36	8	16	52	100	90	95	100	100	90	100	90	90	90	90	90	U
79	152910	80	72	28	40	68	100	95	90	100	90	100	90	90	100	90	90	90	E
80	152903	56	68	12	12	68	100	90	95	100	100	90	100	95	100	90	90	90	U
81	152924	60	16	A	A	60	90	95	90	90	100	90	90	90	100	95	90	100	E
82	152902	56	80	4	12	52	95	90	100	100	100	90	100	95	90	95	90	90	E
83	142003	96	88	96	100	96	80	90	90	100	100	80	90	100	90	100	100	100	B
84	142068	84	16	76	92	92	90	80	90	100	100	A	80	100	100	90	100	100	C
85	142053	68	80	72	80	84	80	80	90	100	100	80	80	100	90	100	100	100	E
86	142007	80	84	68	72	92	100	100	100	100	100	100	80	100	100	100	100	100	B
87	142305	84	36	56	92	84	80	80	90	100	100	70	80	100	90	90	90	100	E
88	142307	88	56	44	96	88	90	90	100	100	100	80	90	100	90	100	100	100	D
89	142023	52	36	76	64	80	80	80	90	100	100	80	90	80	80	90	90	90	C
90	142055	88	88	92	76	76	100	90	100	100	100	100	90	100	100	100	100	100	B
91	142046	60	48	60	88	68	80	80	80	90	100	80	70	80	90	90	90	90	E
92	142052	96	96	48	88	56	70	90	90	100	100	80	90	80	90	90	100	100	D
93	142103	48	16	52	76	68	80	80	80	90	100	90	80	80	80	90	90	100	D
94	142021	68	72	80	100	92	90	90	90	100	100	80	90	100	100	100	100	100	B
95	142018	42	32	60	84	72	80	70	80	90	100	80	80	80	80	90	90	100	D
96	142043	84	68	68	56	92	80	80	80	100	100	90	80	100	90	90	100	100	D
97	142065	48	32	72	72	64	90	80	90	100	100	80	90	100	90	100	100	100	U
98	142060	44	68	64	64	64	90	80	90	100	100	A	90	80	80	90	100	100	D
99	142006	76	92	76	92	84	70	90	90	100	100	100	100	80	90	90	100	100	D
100	142304	48	64	48	72	44	90	80	80	90	100	70	80	100	90	90	90	100	E
101	142014	56	64	76	96	88	80	90	100	100	100	70	80	100	100	90	100	100	U
102	142015	92	92	80	100	96	80	90	90	100	100	A	100	100	90	90	100	100	B
103	142069	64	60	A	A	76	70	80	80	100	100	60	A	80	90	80	90	100	E
104	142054	48	72	60	40	68	70	80	80	90	100	60	80	80	80	80	90	100	E
105	142062	80	72	68	76	84	80	100	90	100	100	80	90	100	90	100	100	100	C
106	142019	84	88	60	80	88	80	100	100	100	100	80	90	100	90	90	100	100	C
107	142005	88	72	76	96	88	70	90	100	100	100	80	100	90	80	90	100	100	B
108	142033	88	88	76	100	92	80	80	90	100	100	80	A	100	90	90	100	100	B
109	142105	40	28	44	60	76	80	70	80	90	100	80	80	80	80	80	80	80	E
110	142002	96	92	96	100	84	70	90	90	100	100	90	100	90	80	90	90	100	C
111	142102	68	64	96	80	88	80	90	90	100	100	80	90	100	80	90	90	100	E
112	142311	92	88	80	76	88	80	90	90	100	100	90	80	100	90	90	90	100	C
113	142310	60	48	84	76	96	80	90	90	100	100	70	90	100	90	100	100	100	E
114	142109	64	76	44	80	60	100	80	80	90	100	80	80	80	80	90	80	90	D
115	152909	76	24	A	A	84	90	90	90	90	100	80	80	100	80	90	90	100	C
116	152918	84	28	20	80	64	80	80	90	90	100	100	80	100	80	80	90	100	E
117	152911	68	36	24	76	44	80	90	90	90	100	90	100	80	80	90	80	90	E
118	152904	92	80	56	84	92	70	80	90	100	100	90	90	90	90	90	100	100	C
119	152908	56	8	4	76	68	80	70	80	90	100	90	70	80	80	80	80	80	U
120	152913	56	12	24	92	68	90	70	80	90	100	70	70	90	80	80	80	90	U
121	152917	16	4	0	8	84	80	80	90	90	100	80	70	90	80	90	80	90	E
122	152906	44	0	48	60	60	80	70	80	90	100	70	70	80	80	80	80	80	E
123	152914	24	0	0	48	60	100	70	80	90	100	80	70	90	80	80	80	90	U



124	152927	76	24	20	36	72	90	70	80	90	100	60	70	80	80	80	80	80	U
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**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignments			Survey		Quiz		Tutorial					AU	
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO4	CO5	CO2	CO4	CO1	CO2	CO3	CO4	CO5		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	T5		
C	80	81	62	73	90	116	116	123	123	123	117	121	123	123	123	123	123	123	38
%	65.04	65.85	52.99	62.39	73.77	94.31	94.31	100	100	100	97.5	100	100	100	100	100	100	100	30.65
L	1	1	0	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C212.1	C212.2	C212.3	C212.4	C212.5
Obtained %	90.38	89.23	86.08	86.18	87.08
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

### Course Outcome Attainment – C212:

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C212.1	1	-	-	-	3	1.6	0	0.64	3	1.11
C212.2	1	3	-	3	3	1.8	0	0.72	3	1.18
C212.3	0	3	-	-	3	1.2	0	0.48	3	0.98
C212.4	1	3	3	3	3	1.8	0	0.72	3	1.18
C212.5	2	-	3	-	3	2.3	0	0.92	3	1.34
<b>C212</b>										<b>1.16</b>

### Formula for Attainment Calculations:

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C212.1	AU Exam	[0.7*Internal Test + 0.3*Tutorial]
C212.2	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Quiz + 0.2*Tutorial]
C212.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C212.4	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Seminars + 0.1*Quiz + 0.1*Tutorial]
C212.5	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]

### Overall Attainment: [0.8\*DI + 0.2\*Survey]

$$C212 = \frac{C212.1 + C212.2 + C212.3 + C212.4 + C212.5}{5} = 1.16$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6403 Discrete Time Systems and Signal Processing : C213**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		Tutorial				AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO3	CO5	CO3	CO5	CO1	CO2	CO3	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4	
1	142009	84	96	88	84	96	95	95	100	90	90	90	90	95	95	100	100	B
2	142308	A	A	72	20	28	60	90	80	60	50	80	60	60	90	80	80	U
3	142022	68	72	64	54	54	80	90	70	80	70	80	80	80	90	70	70	C
4	142112	96	60	88	56	60	65	90	70	60	50	80	60	65	90	70	70	E
5	142070	30	30	8	12	4	90	95	70	60	50	80	60	90	95	70	70	E
6	142306	24	24	24	0	12	80	75	70	60	50	80	60	80	75	70	70	E
7	142063	68	36	32	40	60	0	90	80	60	50	80	60	90	90	80	80	U
8	142301	84	76	84	64	80	95	95	100	90	90	90	90	95	95	100	100	C
9	142034	76	84	66	36	64	95	95	90	80	80	90	80	95	95	90	90	C
10	142040	60	40	32	0	12	90	70	70	60	60	80	60	90	70	70	70	E
11	142071	50	50	44	56	92	95	95	100	80	80	90	80	95	95	100	100	C
12	142101	72	52	68	76	72	70	75	70	80	80	90	80	70	75	70	70	C
13	142017	56	68	64	62	52	0	70	70	90	90	80	90	70	70	70	70	C
14	142045	84	96	98	92	88	95	95	100	90	90	80	90	95	95	100	100	C
15	142302	58	48	52	62	80	90	95	100	90	90	90	90	90	95	90	100	E
16	142072	26	26	44	4	4	0	70	70	80	80	90	80	70	70	70	70	U
17	142111	32	32	16	8	60	80	80	70	90	90	90	90	80	80	70	70	U
18	142059	96	72	92	96	88	95	95	100	50	50	60	60	95	95	100	100	B
19	142050	52	72	68	48	0	80	90	70	90	90	90	90	80	90	70	70	B
20	142309	96	84	80	80	76	90	95	100	90	90	90	90	90	95	100	100	C
21	142056	92	96	96	96	88	95	95	90	90	90	90	90	95	95	90	90	C
22	142058	48	52	44	52	10	75	70	70	40	40	60	50	75	50	70	70	D
23	142004	96	100	88	100	92	95	95	90	90	90	80	80	95	95	80	100	D
24	142106	72	44	52	48	32	90	70	80	80	70	90	80	90	70	70	70	E
25	142104	60	60	64	36	8	60	70	90	90	90	90	90	60	50	70	70	E
26	142011	92	36	72	68	24	95	95	90	90	90	90	90	95	95	90	100	E
27	142041	68	60	72	68	16	75	90	90	90	90	90	80	75	90	70	70	E
28	142024	80	44	52	48	12	75	70	90	80	80	80	80	75	70	70	70	B
29	142026	96	68	88	86	88	75	90	90	90	90	90	90	75	90	70	70	D
30	142008	88	100	100	92	96	100	95	90	90	92	90	90	100	95	95	100	C
31	142038	80	68	60	48	50	75	70	60	90	90	90	90	75	70	70	70	E
32	142032	88	88	72	72	80	95	95	70	80	80	80	70	95	95	95	100	C
33	142001	92	88	48	84	92	70	8	84	90	0	90	90	80	80	80	80	B
34	142012	100	80	84	76	90	70	90	80	90	0	80	80	90	90	90	90	C
35	142057	68	76	96	100	99	90	80	90	90	0	90	80	80	90	90	90	C
36	142035	60	72	84	80	90	70	90	90	90	0	80	90	90	80	80	80	C
37	142047	72	64	84	60	80	90	80	80	0	90	90	90	8	80	90	90	C
38	142108	70	50	52	2	80	70	80	80	0	90	80	80	90	80	80	90	E
39	142013	80	76	92	100	99	90	90	90	90	0	80	80	80	90	80	80	B
40	142036	86	46	75	88	90	90	90	80	0	90	90	90	90	90	90	80	B
41	142031	70	70	76	60	80	90	80	80	0	90	90	90	80	80	90	90	C
42	142074	50	50	56	52	80	70	80	90	90	0	80	80	90	80	80	90	D
43	142044	90	50	76	76	90	90	90	90	90	0	90	80	80	90	80	80	C
44	142107	88	48	68	72	90	90	90	80	90	0	80	90	90	90	90	80	B
45	142029	62	42	68	68	80	90	80	90	0	90	80	90	80	80	90	90	C

46	142016	98	78	92	100	99	90	80	80	0	90	90	80	90	90	90	90	C
47	142051	80	56	92	100	99	90	90	90	90	0	90	80	80	90	80	80	B
48	142110	80	30	48	16	70	70	90	90	0	90	80	90	90	80	80	80	C
49	142066	84	56	72	88	90	90	80	80	90	0	80	90	90	90	90	90	U
50	142073	74	54	76	76	90	70	90	90	0	90	90	80	80	80	90	90	C
51	142027	16	0	0	0	28	80	80	80	0	90	90	80	80	90	90	90	E
52	142067	90	62	96	100	99	80	90	90	90	0	80	90	90	90	80	90	E
53	142030	80	56	84	100	99	70	80	80	90	0	80	90	90	80	90	90	C
54	142061	16	0	0	0	70	80	90	90	0	0	90	80	80	90	80	80	U
55	142037	92	92	92	100	99	90	80	80	90	80	90	80	80	90	90	90	B
56	142064	50	26	92	100	99	90	90	90	80	90	80	90	80	90	90	90	C
57	142010	96	76	A	A	90	80	80	80	80	90	90	90	80	90	80	80	B
58	142025	90	78	92	88	99	90	80	90	90	80	80	80	90	80	90	80	D
59	142303	94	74	60	40	80	70	90	80	90	80	80	80	90	8	80	80	C
60	142039	80	64	92	92	99	80	90	90	90	80	90	90	80	90	90	90	B
61	142020	70	66	48	56	80	90	80	90	80	90	90	80	80	90	80	80	C
62	142028	66	86	44	56	92	80	90	90	80	90	80	90	80	90	80	80	C
63	142042	100	76	80	60	A	70	80	90	80	90	90	80	80	80	80	80	U
64	142048	76	56	92	100	99	80	80	80	90	80	80	80	80	80	90	90	C
65	142003	100	96	96	96	96	98	94	98	A	90	A	90	98	98	98	98	C
66	142068	72	76	88	96	92	94	89	92	90	90	80	90	97	92	96	98	D
67	142053	60	56	82	86	88	94	94	98	90	90	90	80	95	98	98	96	C
68	142007	76	80	76	72	92	94	96	92	90	80	90	70	86	82	92	92	C
69	142305	56	44	60	92	96	96	91	80	A	70	A	60	97	84	88	86	C
70	142307	44	56	72	100	96	92	89	84	A	A	A	A	94	86	92	89	E
71	142023	64	56	84	64	64	86	94	90	90	90	80	70	82	82	86	87	D
72	142055	88	96	60	64	84	88	86	94	90	90	90	80	85	96	82	92	B
73	142046	36	68	40	60	68	72	85	92	70	80	70	80	89	76	84	82	E
74	142052	80	80	84	64	88	86	80	82	80	70	80	70	85	94	86	96	C
75	142103	56	56	72	64	80	92	84	84	70	70	90	80	72	72	94	84	C
76	142021	80	84	96	92	96	92	86	86	90	90	90	90	98	92	85	98	B
77	142018	60	56	76	60	68	92	80	86	80	90	80	80	86	84	81	92	E
78	142043	92	76	72	60	80	89	85	88	90	90	90	80	82	92	82	94	B
79	142065	60	52	56	76	80	95	88	88	70	90	90	70	94	86	84	86	B
80	142060	72	64	84	72	A	85	82	92	70	90	90	80	84	82	88	89	C
81	142006	72	76	84	76	88	76	86	94	90	90	90	70	92	80	92	94	B
82	142304	28	72	60	56	68	92	79	92	60	70	90	80	82	82	83	84	E
83	142014	72	28	64	76	80	94	85	86	A	A	A	A	98	94	82	81	C
84	142015	96	96	92	88	96	96	94	98	A	90	A	100	98	98	98	98	B
85	142069	32	72	56	80	60	70	76	85	80	70	80	70	76	78	84	76	E
86	142054	52	64	60	56	68	72	78	79	60	60	60	60	82	86	81	79	E
87	142062	28	72	100	88	96	96	92	92	A	A	A	A	98	96	98	96	E
88	142019	88	60	76	76	76	92	86	98	90	90	90	90	96	94	92	95	D
89	142005	64	100	80	68	80	94	92	92	80	90	90	80	88	96	96	92	C
90	142033	96	88	88	88	88	98	98	92	A	A	A	A	91	98	98	98	C
91	142105	60	60	92	8	64	82	92	86	70	70	80	80	92	90	98	92	D
92	142002	84	100	96	96	88	76	96	84	90	70	90	70	82	94	98	98	C
93	142102	52	84	90	86	88	94	90	92	80	90	70	90	94	86	94	86	C
94	142311	84	48	96	92	96	92	92	96	70	90	90	90	95	82	96	96	C
95	142310	64	40	68	100	96	86	92	96	70	80	60	90	82	84	92	92	B

96	142109	36	84	48	56	88	74	84	86	70	70	70	80	85	80	82	82	E
97	152915	28	28	56	0	60	80	95	70	70	60	80	70	80	95	90	90	D
98	152907	30	30	48	32	0	90	90	70	70	60	80	70	90	90	70	70	U
99	152923	20	56	52	40	12	90	90	70	80	80	90	90	90	90	90	90	D
100	152920	48	0	0	6	12	80	50	70	50	40	60	50	80	50	80	90	U
101	152922	36	20	28	0	50	90	95	70	80	80	90	90	90	95	70	70	U
102	152916	56	76	36	8	50	90	95	70	80	80	90	90	90	95	90	90	E
103	152901	0	0	0	0	0	80	90	70	40	40	50	40	80	90	80	80	U
104	152928	50	16	60	36	50	95	95	90	90	90	90	90	95	95	80	80	U
105	152921	28	0	76	84	90	90	90	90	80	90	80	70	80	80	80	90	U
106	152912	8	0	16	44	70	70	90	90	80	90	90	90	80	80	80	80	U
107	152919	0	0	0	0	8	90	80	80	80	90	90	80	80	80	80	80	C
108	152905	42	22	76	24	70	70	80	80	80	90	80	90	80	80	80	80	D
109	152925	8	0	A	A	0	80	90	90	80	90	80	80	80	80	80	80	U
110	152910	36	16	88	12	70	70	90	80	80	90	90	80	80	80	80	80	D
111	152903	34	14	44	12	20	70	80	90	80	90	90	90	80	80	80	70	U
112	152924	70	0	88	24	90	70	90	90	90	80	80	90	80	80	80	80	D
113	152902	34	74	0	0	80	90	80	80	90	80	80	90	80	80	80	0	U
114	152909	52	56	A	A	60	80	82	90	80	80	80	80	92	72	84	80	D
115	152918	36	36	32	72	64	83	96	94	60	80	70	70	96	74	86	84	U
116	152911	36	4	56	60	40	82	82	82	70	80	70	80	95	82	74	76	U
117	152904	60	44	72	52	72	85	84	89	80	60	90	70	93	88	86	86	C
118	152913	28	16	0	16	72	82	72	78	60	60	70	60	89	76	72	79	U
119	152908	16	16	12	72	36	84	84	88	60	80	60	60	72	84	74	72	D
120	152917	16	28	4	0	44	92	92	94	50	60	70	50	92	82	79	78	U
121	152906	0	0	12	72	20	89	74	82	70	70	70	60	95	76	72	82	U
122	152914	12	0	4	12	44	86	72	76	70	70	70	50	84	86	74	70	U
123	152927	0	0	4	0	40	76	86	32	80	70	80	80	82	82	75	75	U

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU																		
L – Level, C-Count																		
	CIT					Assignments			Survey		Quiz		Tutorial				AU	
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO3	CO5	CO3	CO5	CO1	CO2	CO3	CO4		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	T1	T2	T3	T4		
C	74	59	78	71	89	89	105	99	90	90	109	102	120	119	123	122	61	
%	60.66	48.36	65	60	73.55	72.36	85.37	80.49	77.59	75.63	93.97	85.71	97.56	96.75	100	99.19	49.59	
L	1	0	1	1	2	2	3	3	2	2	3	3	3	3	3	3	0	

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C213.1</b>	<b>C213.2</b>	<b>C213.3</b>	<b>C213.4</b>	<b>C213.5</b>
<b>Obtained %</b>	<b>95.1</b>	<b>94.23</b>	<b>93.55</b>	<b>90.71</b>	<b>89.3</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C213:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C213.1	1	2	-	-	3	1.6	0	0.64	3	1.11
C213.2	0	3	-	-	3	1.2	0	0.48	3	0.98
C213.3	1	-	2	3	3	1.7	0	0.68	3	1.14
C213.4	1	3	-	-	3	1.8	0	0.72	3	1.18
C213.5	2	-	2	3	-	2.1	0	0.84	3	1.27
<b>C213</b>										<b>1.14</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C213.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C213.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C213.3	AU Exam	[0.6*Internal Test + 0.1*Seminars + 0.1*Quiz + 0.2*Tutorial]
C213.4	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C213.5	AU Exam	[0.8*Internal Test + 0.1*Seminars + 0.1*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C213 = \frac{C213.1 + C213.2 + C213.3 + C213.4 + C213.5}{5} = 1.14$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6404 Measurements and Instrumentation: C214**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	142009	88	88	98	74	98	100	90	100	85	85	C
2	142308	86	34	26	14	44	80	80	90	90	80	E
3	142112	68	68	62	16	36	90	80	90	80	75	C
4	142022	62	80	88	16	18	80	90	90	75	80	C
5	142070	30	6	26	8	0	80	80	80	75	80	E
6	142306	42	8	72	16	12	80	80	80	80	80	E
7	142063	14	0	66	14	24	90	80	80	90	90	E
8	142301	84	80	92	34	90	100	100	100	90	95	C
9	142034	72	80	28	44	40	80	100	90	85	85	C
10	142040	30	0	44	14	0	80	80	80	85	85	C
11	142071	88	50	30	36	94	90	100	100	85	80	E
12	142101	76	84	30	8	62	80	100	90	90	100	B
13	142017	96	94	36	18	92	100	100	90	95	90	B
14	142045	68	68	82	72	88	80	90	100	95	80	C
15	142302	80	70	72	42	82	90	90	100	95	95	E
16	142072	44	60	36	8	16	80	90	80	75	75	U
17	142111	94	22	20	60	44	80	80	80	85	80	E
18	142059	98	88	84	80	94	100	100	100	85	80	C
19	142050	60	64	34	26	0	90	80	90	90	75	D
20	142309	96	88	92	48	86	100	100	100	100	90	C
21	142056	82	88	88	80	92	100	90	100	90	95	C
22	142058	20	0	26	16	4	80	80	80	80	70	E
23	142106	52	60	68	40	76	80	80	80	75	75	C
24	142004	100	72	68	64	78	100	100	100	90	90	D
25	142104	80	64	36	0	38	80	90	90	85	80	E
26	142011	72	60	40	10	28	90	80	80	90	75	C
27	142041	90	74	70	54	16	90	90	90	95	80	C
28	142024	78	60	76	48	18	80	80	80	80	70	C
29	142026	84	56	76	40	76	80	80	90	95	80	C
30	142008	100	92	88	78	98	100	100	100	95	90	C
31	142038	80	20	48	60	16	80	80	90	95	75	C
32	142032	86	88	70	56	60	90	90	90	90	90	C
33	152915	54	62	20	0	32	80	80	80	85	85	E
34	152907	60	68	24	20	A	90	80	90	85	80	D
35	152923	8	24	28	28	66	80	80	80	90	80	E
36	152920	40	0	24	6	12	80	80	80	85	80	D
37	152922	A	A	30	24	46	90	80	90	70	80	E
38	152916	90	66	32	4	34	90	90	90	85	80	C
39	152901	0	0	10	8	0	80	80	80	80	70	C
40	152928	90	66	64	8	36	90	100	90	90	95	
41	142001	60	88	96	52	88	80	80	80	100	100	
42	142012	80	0	24	80	60	100	90	100	100	100	C
43	142057	48	32	72	96	80	100	90	90	100	100	B
44	142035	68	16	76	24	52	90	80	90	95	85	C
45	142047	76	48	88	72	80	100	90	90	95	95	D

46	142108	32	16	68	32	64	80	80	70	95		85		B
47	142013	88	68	76	44	72	100	90	100	100		100		D
48	142036	68	76	80	64	80	100	90	90	100		95		A
49	142067	92	92	100	88	56	100	90	80	90		95		B
50	142031	92	48	56	64	84	100	90	80	95		100		C
51	142074	68	24	84	76	88	80	90	90	95		85		C
52	142044	76	76	64	64	56	100	90	90	100		100		A
53	142107	88	56	28	32	52	80	80	90	90		95		C
54	142029	96	92	48	96	68	100	90	90	100		95		C
55	142016	100	96	88	92	80	100	90	90	100		95		B
56	142051	84	32	76	76	80	100	90	100	90		90		C
57	142110	56	28	20	80	60	80	90	90	100		100		D
58	142066	60	44	100	92	84	100	100	100	100		100		C
59	142073	0	64	52	52	52	80	90	70	100		95		B
60	142027	68	40	4	0	20	0	70	60	85		75		U
61	142030	92	96	80	80	68	100	90	80	95		95		C
62	142061	0	4	40	40	0	0	70	50	75		75		B
63	142037	92	88	96	80	64	100	100	70	100		100		E
64	142064	60	36	64	88	64	100	90	70	95		95		A
65	142010	A	A	92	80	64	100	80	70	90		95		C
66	142025	84	76	40	24	60	80	80	80	90		95		C
67	142303	84	44	60	60	64	100	90	90	100		100		B
68	142039	84	88	96	80	80	100	90	80	95		95		D
69	142020	48	48	44	60	56	100	90	80	90		95		A
70	142028	84	60	68	96	88	100	90	90	100		100		C
71	142042	60	40	A	A	A	80	90	90	95		95		B
72	142048	96	76	84	60	64	100	90	80	95		100		C
73	152921	0	48	76	76	68	100	90	90	95		95		C
74	152912	24	0	24	100	64	70	90	80	85		90		D
75	152919	12	8	36	0	64	70	90	70	90		80		E
76	152905	64	56	56	52	76	90	90	80	90		85		U
77	152925	16	0	88	64	24	70	90	60	70		70		E
78	152910	92	88	40	68	60	90	90	80	85		90		E
79	152903	16	8	24	16	20	70	90	70	90		95		D
80	152924	64	48	48	32	72	90	90	90	95		90		B
81	152902	44	56	8	8	24	100	90	80	85		85		E
82	142003	64	80	88	88	82	100	100	100	100		100		A
83	142068	56	60	0	0	82	100	100	100	100		100		C
84	142053	52	68	88	64	56	100	90	100	100		100		B
85	142007	80	48	28	28	58	100	100	100	100		100		C
86	142305	52	68	88	88	60	100	90	100	100		100		C
87	142307	60	40	88	88	66	100	90	100	100		100		B
88	142023	52	48	68	76	62	100	100	100	100		100		B
89	142046	60	8	88	92	66	100	100	100	100		100		B
90	142055	0	12	52	40	50	100	100	100	100		100		C
91	142052	68	40	84	56	64	100	80	100	100		100		B
92	142103	40	20	88	60	68	80	90	100	50		100		C
93	142021	68	52	88	84	70	100	90	100	100		100		B
94	142018	44	20	8	64	56	80	80	100	100		100		E
95	142043	60	64	48	36	60	100	100	100	100		100		C

96	142065	36	16	64	76	58	100	100	100	100	100	U
97	142060	48	56	0	0	a	100	90	100	100	100	D
98	142006	56	44	60	76	60	100	80	100	100	100	C
99	142304	28	40	48	28	54	100	100	100	100	100	E
100	142014	60	76	64	72	76	100	90	100	100	100	B
101	142015	0	0	92	92	68	100	0	100	100	100	A
102	142069	24	8	32	40	52	80	80	100	100	100	D
103	142054	20	44	32	40	58	80	80	100	100	100	E
104	142062	64	76	88	80	82	100	90	100	100	100	C
105	142019	64	72	80	76	64	100	90	100	100	100	B
106	142005	76	40	56	52	82	100	100	100	100	100	C
107	142033	0	0	0	0	72	100	100	100	100	100	A
108	142105	36	20	84	44	60	80	80	100	100	100	D
109	142002	0	0	64	72	64	100	80	100	100	100	A
110	142102	0	0	84	68	64	100	90	100	100	100	C
111	142311	72	64	88	84	84	100	10	100	100	100	C
112	142310	72	36	88	48	68	100	90	100	100	100	C
113	142109	56	72	24	40	68	100	80	100	100	100	C
114	152909	44	56	0	0	72	80	100	100	100	100	C
115	152918	4	0	66	34	64	100	100	100	100	100	C
116	152911	8	0	20	48	56	100	90	100	100	100	E
117	152904	76	64	96	40	72	100	100	100	100	100	D
118	152913	4	28	48	52	72	100	80	100	100	100	E
119	152908	36	64	80	8	56	90	100	100	100	100	E
120	152917	0	0	56	44	50	100	100	100	100	100	E
121	152906	4	24	80	40	60	100	80	100	100	100	U
122	152914	4	0	28	40	24	80	100	100	100	100	U
123	152927	8	0	44	56	44	90	90	100	100	100	E

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignment			Seminar	Quiz	AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
C	70	53	66	52	73	117	119	113	122	123	76
%	57.85	43.8	54.1	42.62	60.83	95.12	96.75	91.87	99.19	100	61.79
L	0	0	0	0	1	3	3	3	3	3	1

**Attainment Calculation:**

**Survey:**

Survey	C214.1	C214.2	C214.3	C214.4	C214.5
Obtained %	91.56	91.08	91.27	90.49	89.94
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C214:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C214.1	0	3	-	-		0.9	1	0.96	3	1.37
C214.2	0	3	-	-		0.9	1	0.96	3	1.37
C214.3	0	3	-	-		0.9	1	0.96	3	1.37
C214.4	0	-	3	-		0.6	1	0.84	3	1.27
C214.5	1	-	-	3		1.4	1	1.16	3	1.53
<b>C214</b>										<b>1.38</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C214.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C214.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C214.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C214.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C214.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C214 = \frac{C214.1 + C214.2 + C214.3 + C214.4 + C214.5}{5} = 1.38$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: CS6461 Object Oriented Programming Lab: C215**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	96	100	100		100	100		100	100		100	100		100	100	S
2	142308		100	100	96	100	100		100	100		100	100		100	100	A
3	142022	100	100	100		100	100		100	100		100	100		100	100	A
4	142112		100	100		100	100	90	100	100		100	100		100	100	A
5	142070	90	100	100		100	100		100	100		100	100		100	100	B
6	142306	88	100	100		100	100		100	100		100	100		100	100	A
7	142063	90	100	100		100	100		100	100		100	100		100	100	B
8	142301		100	100		100	100		100	100		100	100	84	100	100	S
9	142034		100	100		100	100		100	100	92	100	100		100	100	A
10	142040	88	100	100		100	100		100	100		100	100		100	100	A
11	142071		100	100		100	100	88	100	100		100	100		100	100	A
12	142101		100	100		100	100	88	100	100		100	100		100	100	S
13	142017	86	100	100		100	100		100	100		100	100		100	100	A
14	142045		100	100		100	100		100	100	90	100	100		100	100	A
15	142302	90	100	100		100	100		100	100		100	100		100	100	A
16	142072		100	100		100	100		100	100		100	100	92	100	100	C
17	142111	94	100	100		100	100		100	100		100	100		100	100	C
18	142059		100	100		100	100		100	100	96	100	100		100	100	S
19	142050	84	100	100		100	100		100	100		100	100		100	100	A
20	142309		100	100	92	100	100		100	100		100	100		100	100	A
21	142056		100	100	86	100	100		100	100		100	100		100	100	S
22	142058	80	100	100		100	100		100	100		100	100		100	100	B
23	142004		100	100		100	100	98	100	100		100	100		100	100	S
24	142106	96	100	100		100	100		100	100		100	100		100	100	A
25	142104		100	100	84	100	100		100	100		100	100		100	100	A
26	142011		100	100		100	100	92	100	100		100	100		100	100	A
27	142041		100	100		100	100		100	100	90	100	100		100	100	B
28	142024		100	100		100	100		100	100		100	100	88	100	100	S
29	142026	96	100	100		100	100		100	100		100	100		100	100	S
30	142008		100	100	94	100	100		100	100		100	100		100	100	S
31	142038		100	100		100	100	92	100	100		100	100		100	100	A
32	142032		100	100		100	100		100	100	90	100	100		100	100	S
33	152915		100	100		100	100		100	100		100	100	88	100	100	B
34	152923	90	100	100		100	100		100	100		100	100		100	100	B
35	152920		100	100	86	100	100		100	100		100	100		100	100	A
36	152922		100	100		100	100	94	100	100		100	100		100	100	B
37	152916		100	100		100	100		100	100	96	100	100		100	100	B
38	152901		100	100		100	100		100	100		100	100	90	100	100	B
39	152928		100	100		100	100		100	100	88	100	100		100	100	B
40	142001		100	100		100	100	82	100	100		100	100		100	100	S
41	142012		100	100	90	100	100		100	100		100	100		100	100	S
42	142057	88	100	100		100	100		100	100		100	100		100	100	S
43	142035	90	100	100		100	100		100	100		100	100		100	100	S
44	142047	92	100	100		100	100		100	100		100	100		100	100	S

45	142108		100	100	88	100	100		100	100		100	100		100	100	S
46	142013		100	100		100	100	86	100	100		100	100		100	100	S
47	142036		100	100		100	100		100	100	80	100	100		100	100	S
48	142031		100	100		100	100		100	100		100	100	86	100	100	A
49	142074		100	100		100	100		100	100	90	100	100		100	100	B
50	142044		100	100		100	100	90	100	100		100	100		100	100	S
51	142107		100	100	90	100	100		100	100		100	100		100	100	B
52	142029	90	100	100		100	100		100	100		100	100		100	100	S
53	142016	92	100	100		100	100		100	100		100	100		100	100	S
54	142051	96	100	100		100	100		100	100		100	100		100	100	S
55	142110		100	100	94	100	100		100	100		100	100		100	100	S
56	142066		100	100	98	100	100		100	100		100	100		100	100	S
57	142073		100	100	90	100	100		100	100		100	100		100	100	B
58	142027		100	100	90	100	100		100	100		100	100		100	100	C
59	142067		100	100		100	100	98	100	100		100	100		100	100	A
60	142030		100	100		100	100		100	100	96	100	100		100	100	S
61	142061		100	100		100	100		100	100		100	100	86	100	100	C
62	142037		100	100		100	100		100	100	86	100	100		100	100	S
63	142064		100	100		100	100	94	100	100		100	100		100	100	A
64	142010		100	100	94	100	100		100	100		100	100		100	100	A
65	142025	98	100	100		100	100		100	100		100	100		100	100	A
66	142303		100	100	86	100	100		100	100		100	100		100	100	S
67	142039		100	100		100	100	86	100	100		100	100		100	100	S
68	142020		100	100		100	100	82	100	100		100	100		100	100	A
69	142028		100	100		100	100	82	100	100		100	100		100	100	S
70	142042		100	100		100	100		100	100	98	100	100		100	100	S
71	142048	90	100	100		100	100		100	100		100	100		100	100	S
72	152921	90	100	100		100	100		100	100		100	100		100	100	A
73	152912		100	100	80	100	100		100	100		100	100		100	100	B
74	152919		100	100		100	100	80	100	100		100	100		100	100	B
75	152905		100	100		100	100		100	100	82	100	100		100	100	B
76	152925		100	100		100	100		100	100	82	100	100		100	100	B
77	152910		100	100		100	100		100	100	82	100	100		100	100	B
78	152903		100	100		100	100		100	100		100	100	92	100	100	B
79	152924		100	100		100	100		100	100	90	100	100		100	100	A
80	152902		100	100		100	100	80	100	100		100	100		100	100	B
81	142003		100	100	80	100	100		100	100		100	100		100	100	S
82	142068	80	100	100		100	100		100	100		100	100		100	100	A
83	142053	90	100	100		100	100		100	100		100	100		100	100	A
84	142007		100	100	98	100	100		100	100		100	100		100	100	A
85	142305		100	100	98	100	100		100	100		100	100		100	100	A
86	142307		100	100	96	100	100		100	100		100	100		100	100	A
87	142023		100	100		100	100	94	100	100		100	100		100	100	A
88	142055		100	100		100	100		100	100	94	100	100		100	100	S
89	142046		100	100		100	100		100	100		100	100	96	100	100	C
90	142052		100	100		100	100		100	100	92	100	100		100	100	S
91	142103		100	100		100	100		100	100	92	100	100		100	100	A
92	142021		100	100		100	100		100	100	92	100	100		100	100	A
93	142018		100	100		100	100	98	100	100		100	100		100	100	S
94	142043		100	100	98	100	100		100	100		100	100		100	100	B

95	142065	90	100	100		100	100		100	100		100	100		100	100	B
96	142060		100	100	88	100	100		100	100		100	100		100	100	B
97	142006		100	100		100	100	86	100	100		100	100		100	100	S
98	142304		100	100		100	100		100	100	82	100	100		100	100	B
99	142014		100	100		100	100		100	100		100	100	80	100	100	B
100	142015		100	100		100	100		100	100	84	100	100		100	100	S
101	142069		100	100		100	100	84	100	100		100	100		100	100	B
102	142054		100	100	86	100	100		100	100		100	100		100	100	B
103	142062	90	100	100		100	100		100	100		100	100		100	100	A
104	142019	92	100	100		100	100		100	100		100	100		100	100	A
105	142005	98	100	100		100	100		100	100		100	100		100	100	A
106	142033	96	100	100		100	100		100	100		100	100		100	100	A
107	142105		100	100	96	100	100		100	100		100	100		100	100	B
108	142002		100	100		100	100	94	100	100		100	100		100	100	A
109	142102		100	100		100	100		100	100	94	100	100		100	100	S
110	142311		100	100		100	100		100	100		100	100	96	100	100	A
111	142310		100	100		100	100		100	100	94	100	100		100	100	S
112	142109		100	100		100	100	98	100	100		100	100		100	100	A
113	152909		100	100	98	100	100		100	100		100	100		100	100	B
114	152918	80	100	100		100	100		100	100		100	100		100	100	A
115	152911		100	100	80	100	100		100	100		100	100		100	100	B
116	152904		100	100		100	100	80	100	100		100	100		100	100	S
117	152908		100	100		100	100		100	100	80	100	100		100	100	B
118	152913		100	100		100	100		100	100		100	100	80	100	100	B
119	152917		100	100		100	100		100	100	80	100	100		100	100	B
120	152906		100	100		100	100	80	100	100		100	100		100	100	A
121	152914		100	100	80	100	100		100	100		100	100		100	100	B
122	152927	80	100	100		100	100		100	100		100	100		100	100	B

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record $\geq A(9)$ grade in AU   L – Level   C- Count   P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	32	122	122	27	122	122	25	122	122	26	122	122	12	122	122	122
C	32	122	122	27	122	122	25	122	122	26	122	122	12	122	122	122
%	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C215.1</b>	<b>C215.2</b>	<b>C215.3</b>	<b>C215.4</b>	<b>C215.5</b>
<b>Obtained %</b>	<b>89.82</b>	<b>89.07</b>	<b>85.74</b>	<b>85.97</b>	<b>86.56</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C215:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C215.1	3	3	3	3	3	3	3	3
C215.2	3	3	3	3	3	3	3	3
C215.3	3	3	3	3	3	3	3	3
C215.4	3	3	3	3	3	3	3	3
C215.5	3	3	3	3	3	3	3	3
C215								<b>3</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C215.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C215.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C215.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C215.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C215.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C215 = \frac{C215.1 + C215.2 + C215.3 + C215.4 + C215.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6411 Electrical Machines Lab: C216**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	92	90	90		90	90		90	90		90	90		90	90	S
2	142308		80	90	94	80	90		80	90		80	90		80	90	A
3	142022		90	90		90	80	90	90	80		80	90		90	90	S
4	142112		90	90		90	80		80	80	90	90	90		90	80	S
5	142070		80	80		80	80		80	80		80	80	92	90	90	C
6	142306	92	80	90		80	80		80	80		80	90		80	90	A
7	142063		80	90	92	80	90		80	90		80	90		80	90	C
8	142301		90	90		90	90	92	90	90		90	90		90	90	S
9	142034		90	90		90	90		90	90	90	90	90		90	90	S
10	142040		90	90		90	90		90	90		90	90	92	90	90	A
11	142071	94	80	90		90	90		90	90		90	90		90	90	A
12	142101		90	90	92	90	80		90	90		90	90		90	90	S
13	142017		90	90		90	90	88	90	90		90	90		90	90	A
14	142045		90	90		90	90		90	90	92	90	90		90	90	A
15	142302		90	90		90	90		90	90		90	90	90	90	90	A
16	142072	80	90	90		90	80		90	90		90	90		90	90	A
17	142111		90	90	92	90	80		90	90		90	90		90	80	C
18	142059		90	90		90	80	92	90	90		90	90		90	90	S
19	142050		90	80		90	80		90	90	90	90	80		90	80	B
20	142309		90	90		90	90		90	90		90	90	92	90	90	S
21	142056	92	100	90		90	90		90	90		100	90		100	90	S
22	142058		90	90	90	80	90		80	90		90	80		90	90	A
23	142004	94	100	90		90	90		90	90		100	90		100	90	S
24	142106		90	90	92	80	90		80	90		90	80		90	90	S
25	142104		90	90		90	90	90	90	90		90	80		90	90	S
26	142011		90	90		90	90		90	90	92	90	90		90	90	S
27	142041		90	90		90	90		90	90		90	90	90	90	90	S
28	142024	92	90	90		90	90		90	90		80	90		90	90	S
29	142026		90	90	90	90	90		90	90		90	90		90	90	S
30	142008		100	90		100	90	92	100	90		100	90		100	90	S
31	142038		90	90		80	90		90	90	90	90	90		90	90	A
32	142032		80	90		90	90		90	90		90	90	90	90	90	S
33	152915	70	80	90		90	90		90	90		90	80		90	90	S
34	152907		80	90	72	90	80		80	80		80	80		80	80	A
35	152923		90	90		90	80	70	90	80		90	90		90	90	A
36	152920		90	90		90	80		90	80	70	90	90		90	80	B
37	152922		90	90		90	80		90	80		90	90	72	90	90	S
38	152916	70	90	90		90	80		80	80		90	90		90	90	A
39	152926	A	A	A	-	A	A	-	A	A	-	A	A	-	A	A	UA
40	152901		90	90	60	80	80		80	80		90	90		90	90	C
41	152928		90	90		90	80		90	80	50	90	90		90	90	A
42	142001	96	90	90		90	90		90	90		90	90		90	90	S
43	142012		90	90	98	90	90		90	90		90	90		90	90	S
44	142057		90	90		90	90	99	90	90		90	90		90	90	S

45	142035		90	90		90	90		90	90	92	90	90		90	90	S
46	142047		90	90		90	90		90	90		90	90	96	90	90	S
47	142108	92	90	90		90	90		90	90		90	90		90	90	S
48	142013		90	90	92	90	90		90	90		90	90		90	90	S
49	142036		90	90		90	90	92	90	90		90	90		90	90	S
50	142031		90	90		90	90		90	90	94	90	90		90	90	S
51	142074		90	90		90	90		90	90		90	90	92	90	90	S
52	142044	90	90	90		90	90		90	90		90	90		90	90	S
53	142107		90	90	92	90	90		90	90		90	90		90	90	A
54	142029		90	90		90	90	86	90	90		90	90		90	90	A
55	142016		90	90		90	90		90	90	99	90	90		90	90	S
56	142051		90	90		90	90		90	90		90	90	88	90	90	S
57	142110	80	90	90		90	90		90	90		90	90		90	90	A
58	142066		90	90	96	90	90		90	90		90	90		90	90	S
59	142073		90	90		90	90	81	90	90		90	90		90	90	A
60	142027		90	90		90	90		90	90	85	90	90		90	90	A
61	142067		90	90		90	90		90	90		90	90	98	90	90	S
62	142030	85	90	90		90	90		90	90		90	90		90	90	S
63	142061		80	90	80	90	90		90	90		80	90		90	90	C
64	142037	96	90	90		90	90		90	90		90	90		90	90	S
65	142064		90	90	84	90	90		90	90		90	90		90	90	S
66	142010		90	90		90	90	90	90	90		90	90		90	90	S
67	142025		90	90		90	90		80	90	96	90	90		90	90	S
68	142303		90	90		90	90		90	90		90	90	96	90	90	S
69	142039	96	90	90		90	90		90	90		90	90		90	90	S
70	142020		90	90	82	90	90		90	90		90	90		90	90	A
71	142028		90	90		90	90	92	90	90		90	90		90	90	S
72	142042		90	90		90	90		90	90	84	90	90		90	90	S
73	142048		90	90		90	90		90	90		90	90	96	90	90	S
74	152921	80	90	90		90	90		90	90		90	90		90	90	A
75	152912		90	90	83	90	90		90	90		90	90		90	90	A
76	152919		90	90		90	90	82	90	90		90	90		90	90	B
77	152905		80	90		80	90		80	90	80	90	90		90	90	A
78	152925		90	90		90	90		80	90		80	90	81	80	90	A
79	152910	82	80	90		80	90		90	90		80	90		90	90	A
80	152903		90	90	84	80	90		90	90		90	90		80	90	A
81	152924		80	90		90	90	86	80	90		100	90		80	90	A
82	152902		90	90		90	90		80	90	81	90	90		90	90	B
83	142003	99	90	90		90	90		90	90		90	90		100	90	S
84	142068		90	90	99	90	90		90	90		90	90		90	100	S
85	142053		90	90		90	90	99	90	90		90	90		90	90	S
86	142007		90	90		90	90		90	90	99	90	90		90	90	S
87	142305		90	90		90	90		100	90		100	90	99	90	90	S
88	142307	98	90	100		90	90		90	100		90	90		90	90	S
89	142023		100	90	99	100	90		90	90		100	90		90	90	S
90	142055		100	90		90	90	99	90	90		90	90		90	100	S
91	142046		90	100		100	90		100	100	99	90	90		100	90	B
92	142052		90	100		90	90		100	100		90	90	99	90	90	S
93	142103	99	90	90		90	90		90	90		90	90		100	90	A
94	142021		90	90	99	90	90		90	90		90	90		90	90	S

95	142018		90	90		90	90	98	90	90		90	90		90	90	A
96	142043		90	90		90	90		90	90	98	90	90		90	90	A
97	142065		90	90		90	90		90	90		90	90	95	90	90	A
98	142060	95	90	90		90	90		90	90		90	90		90	100	S
99	142006		90	90	99	90	90		90	90		90	90		90	100	S
100	142304		80	80		90	90	90	90	100		90	90		100	90	A
101	142014		90	100		90	90		100	90	99	90	90		90	100	S
102	142015		100	90		90	100		90	100		90	90	99	90	90	S
103	142069	92	100	100		100	100		90	90		90	90		90	90	A
104	142054		90	90	92	90	100		90	90		90	90		90	90	B
105	142062	99	90	90		90	90		90	90		90	90		90	100	S
106	142019		90	90	99	90	90		90	90		100	90		90	90	S
107	142005		100	90		100	90	98	100	90		90	90		90	90	S
108	142033		90	90		90	90		90	90	98	90	90		90	90	S
109	142105		100	90		100	90		100	100		90	100	98	90	90	S
110	142002	99	90	80		90	100		90	90		90	90		80	90	S
111	142102		90	90	90	90	90		90	90		100	100		100	80	A
112	142311		90	90		90	90	99	90	90		90	90		90	90	S
113	142310		90	100		90	90		90	90	90	80	80		90	90	S
114	142109		90	90		90	90		90	90		80	90	98	90	80	A
115	152909	99	90	80		90	90		90	90		90	90		90	90	A
116	152918		80	90	80	80	90		90	90		90	90		90	90	C
117	152911		90	90		90	90	80	90	90		90	90		80	80	A
118	152904		90	80		90	90		90	90	99	90	90		90	90	S
119	152908	98	90	90		90	80		80	90		90	90		90	90	B
120	152913		80	80		80	90		80	90		80	90	90	80	90	B
121	152917		90	80	90	90	90		80	80		80	80		90	80	A
122	152906		90	90		80	80	80	90	80		90	90		90	80	A
123	152914		80	80		80	90		80	80	80	80	80		80	80	C
124	152927		90	90		90	80		80	80		90	90	85	80	80	B

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record $\geq A(9)$ grade in AU   L – Level   C- Count   P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	27	123	123	28	123	123	24	123	123	25	123	123	23	123	123	124
C	25	123	123	25	123	123	22	123	123	22	123	123	21	123	123	123
%	93	100	100	89.29	100	100	91.67	100	100	88	100	100	91.3	100	100	99.19
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C216.1</b>	<b>C216.2</b>	<b>C216.3</b>	<b>C216.4</b>	<b>C216.5</b>
<b>Obtained %</b>	<b>92.78</b>	<b>92.35</b>	<b>91.59</b>	<b>91.6</b>	<b>92.73</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C216:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C216.1	3	3	3	3	3	3	3	3
C216.2	3	3	3	3	3	3	3	3
C216.3	3	3	3	3	3	3	3	3
C216.4	3	3	3	3	3	3	3	3
C216.5	3	3	3	3	3	3	3	3
C216								3

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C216.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C216.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C216.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C216.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C216.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C216 = \frac{C216.1 + C216.2 + C216.3 + C216.4 + C216.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6501 Power System Analysis: C301  
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2	CO4	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
1	142009	84	72	90	86	84	90	90	90	90	90	90	90	90	90	90	A
2	142308	12	48	A	A	56	80	90	90	80	90	90	80	90	90	90	E
3	142022	56	44	60	40	60	80	90	90	80	90	80	90	90	90	90	C
4	142112	36	28	60	24	64	80	90	90	80	80	90	90	90	90	90	B
5	142070	8	0	8	0	56	60	80	60	80	80	70	80	90	80	90	U
6	142306	42	58	20	12	60	80	90	90	80	90	90	80	90	90	90	E
7	142063	0	0	30	2	48	80	90	80	80	90	90	90	90	90	90	U
8	142301	84	88	90	88	92	90	90	80	90	90	90	90	90	90	90	S
9	142034	48	24	30	56	64	80	90	90	90	80	90	90	90	90	90	B
10	142040	48	52	60	48	4	80	90	90	90	90	90	90	90	90	90	D
11	142071	40	12	20	8	96	90	90	90	90	90	90	90	90	80	90	E
12	142101	92	44	60	24	92	90	90	90	90	70	90	90	90	90	90	S
13	142017	52	54	50	22	60	90	90	80	90	70	90	90	90	90	90	B
14	142045	40	72	60	40	88	90	90	80	80	90	90	90	70	90	90	S
15	142302	72	12	80	40	64	90	90	90	80	90	90	90	90	90	90	B
16	142072	24	8	50	22	60	80	90	90	90	90	90	90	90	90	90	C
17	142111	0	72	24	0	56	90	80	90	90	90	90	90	90	90	90	U
18	142059	68	84	70	46	96	90	90	90	90	80	80	90	90	90	90	C
19	142050	28	32	60	20	52	90	90	80	90	90	90	90	90	90	90	D
20	142309	96	64	98	66	96	90	90	80	90	90	90	90	90	90	90	A
21	142056	60	92	60	44	96	90	90	80	90	80	90	90	90	90	90	C
22	142058	68	48	60	52	60	90	90	80	90	90	90	90	90	90	90	B
23	142004	76	84	80	84	96	90	90	90	90	90	90	90	90	90	80	C
24	142106	52	48	60	0	28	90	90	90	90	90	90	90	90	90	90	A
25	142104	24	8	40	16	68	80	90	90	90	80	80	90	90	90	90	C
26	142011	40	88	70	46	56	90	90	90	90	90	80	90	90	90	90	A
27	142041	80	80	60	56	72	90	90	90	90	90	90	90	90	80	90	A
28	142024	40	20	70	34	64	70	90	90	90	90	90	90	90	90	90	C
29	142026	92	80	80	76	68	90	90	90	90	90	90	90	90	90	90	B
30	142008	100	76	84	72	96	90	90	90	90	90	90	90	90	90	90	C
31	142038	16	24	60	8	60	90	90	90	90	90	80	90	90	90	90	C
32	142032	44	68	80	44	76	90	90	90	90	80	90	90	90	80	90	D
33	152915	36	16	60	40	44	70	90	80	80	90	90	90	90	90	90	E
34	152923	40	4	40	4	16	80	90	80	80	90	90	90	90	90	80	E
35	152920	0	8	80	20	8	50	70	30	70	50	80	70	80	60	70	U
36	152922	0	0	30	18	40	70	90	80	80	90	80	90	90	90	80	U
37	152916	64	16	20	12	32	80	90	80	80	90	90	90	90	90	80	E
38	152901	0	8	0	0	4	50	70	50	70	30	80	60	60	60	70	U
39	152928	12	44	50	10	40	80	90	80	80	90	90	90	90	90	90	C
40	162401	20	24	60	24	52	90	90	90	80	90	90	90	90	90	90	C
41	162402	84	60	80	48	92	90	90	90	80	90	90	90	90	90	90	A
42	142001	84	82	44	88	99	90	90	90	90	90	80	80	80	90	90	S
43	142012	84	84	76	88	99	80	90	90	90	90	90	90	90	90	90	S
44	142057	64	92	24	76	99	80	90	90	90	90	90	90	90	90	90	A
45	142035	40	76	64	48	96	90	90	90	90	90	80	80	80	80	90	D

46	142047	40	48	24	68	96	90	90	90	90	90	80	80	80	80	90	A
47	142108	40	20	20	32	90	90	90	80	80	90	80	80	80	80	90	E
48	142013	48	76	44	60	99	80	80	90	90	80	90	80	80	90	C	
49	142036	60	76	60	40	99	80	90	90	90	80	90	90	90	90	A	
50	142031	48	32	72	72	96	90	80	90	90	60	80	80	80	80	90	B
51	142074	40	60	24	44	98	90	90	90	90	90	80	80	80	80	80	E
52	142044	56	76	40	80	99	80	90	90	90	90	90	90	90	90	90	D
53	142107	60	48	24	24	92	80	90	90	90	90	90	80	90	90	90	D
54	142029	44	60	48	28	96	80	90	90	90	90	90	80	90	90	90	E
55	142016	52	84	64	84	99	80	80	90	90	90	98	90	90	90	90	E
56	142051	40	68	44	56	99	90	90	80	80	90	80	90	90	90	90	B
57	142110	28	20	20	12	80	90	90	90	90	90	80	80	90	90	90	B
58	142066	68	60	82	82	98	80	90	90	90	80	90	90	90	90	90	E
59	142073	50	58	40	40	12	90	80	90	90	90	80	80	90	90	90	C
60	142027	0	48	4	0	80	80	90	90	90	90	80	80	90	90	90	D
61	142067	68	92	52	56	99	80	90	80	80	90	90	90	90	90	90	U
62	142030	64	88	64	60	99	90	90	90	90	90	98	90	90	90	90	B
63	142061	20	0	0	12	80	90	90	90	90	90	80	80	90	90	90	UA
64	142037	72	84	60	80	99	90	90	90	90	80	90	90	90	90	90	A
65	142064	48	72	60	68	92	90	90	90	90	80	90	90	90	90	90	D
66	142010	68	80	50	50	99	90	90	90	90	90	90	90	90	90	90	D
67	142025	44	56	52	88	98	90	0	90	90	90	90	90	90	90	90	D
68	142303	76	92	72	44	98	80	90	90	90	90	80	90	90	90	90	C
69	142039	60	76	80	80	99	90	90	90	90	90	99	90	90	90	90	A
70	142020	48	72	40	36	80	90	90	90	90	90	90	90	90	90	90	B
71	142028	88	72	36	28	92	80	90	90	90	80	80	90	90	90	90	B
72	142042	64	84	48	80	96	90	90	90	90	80	90	90	90	90	90	A
73	142048	68	68	40	68	96	90	90	90	90	80	90	90	90	90	80	B
74	152921	32	24	40	28	88	90	0	90	80	90	90	90	80	80	80	C
75	152912	40	48	20	28	80	90	90	80	80	90	90	90	80	90	90	E
76	152919	8	0	28	12	12	90	0	80	80	90	90	90	80	90	90	E
77	152905	40	24	28	28	80	90	0	90	80	80	90	90	90	90	90	E
78	152925	4	0	0	12	80	90	90	90	80	80	90	90	80	90	90	E
79	152910	16	64	52	36	88	90	90	90	80	80	90	90	90	90	80	C
80	152924	88	80	36	48	88	90	0	90	80	90	80	90	90	80	80	C
81	152902	24	44	20	24	80	90	90	90	80	90	90	90	90	80	80	C
82	142003	100	96	100	96	99	90	80	90	90	90	90	90	70	90	99	B
83	142068	52	96	96	76	99	80	80	90	90	90	90	90	70	90	99	A
84	142053	52	76	76	72	99	80	80	80	90	90	90	90	70	90	80	B
85	142007	58	50	84	92	99	90	80	80	90	90	90	80	70	90	99	B
86	142305	A	A	72	64	92	80	90	80	90	90	90	90	70	80	90	B
87	142307	8	72	40	64	96	80	80	90	90	90	90	90	80	80	90	C
88	142023	68	64	48	48	99	80	80	90	90	90	90	80	80	70	99	A
89	142055	88	60	48	80	99	90	80	90	90	90	90	90	80	90	99	C
90	142046	44	40	28	20	86	80	90	90	90	90	90	80	80	70	80	A
91	142052	88	96	44	72	99	90	80	90	90	90	90	80	80	90	99	A
92	142103	A	A	28	40	90	80	90	90	90	90	90	80	80	70	90	E
93	142021	80	96	96	100	99	90	80	90	90	90	90	80	80	90	99	S
94	142018	36	84	56	48	96	80	90	90	90	90	90	80	80	70	80	C
95	142043	32	80	36	52	90	80	90	90	90	90	90	80	80	70	99	C

96	142065	48	64	A	A	90	80	80	80	90	90	80	80	80	70	90	E	
97	142060	A	A	36	36	96	80	90	80	90	90	90	80	80	70	80	B	
98	142006	100	88	100	96	99	90	80	90	90	90	90	80	80	90	70	S	
99	142304	44	56	40	20	92	80	80	90	90	90	90	80	80	70	90	C	
100	142014	60	76	56	72	96	80	80	90	90	90	90	80	80	80	99	C	
101	142015	92	88	92	88	99	90	80	90	90	90	90	80	80	80	80	S	
102	142069	28	72	20	44	86	80	80	90	90	90	90	80	80	80	70	80	E
103	142054	20	56	28	36	86	80	80	90	90	90	90	80	80	70	80	C	
104	142062	68	56	68	72	99	80	80	90	90	90	90	90	90	90	90	C	
105	142019	40	84	68	48	86	80	80	90	90	90	90	80	90	70	90	B	
106	142005	88	60	92	84	99	90	80	90	90	90	90	80	80	90	90	A	
107	142033	64	84	48	72	96	80	80	90	90	90	90	80	80	80	90	A	
108	142105	40	36	68	48	92	80	90	90	90	90	90	80	80	70	80	C	
109	142002	72	96	80	88	99	90	80	90	90	90	90	90	80	90	90	A	
110	142102	68	72	72	80	96	80	80	90	90	90	90	80	80	90	90	D	
111	142311	44	16	88	72	99	80	80	90	90	90	90	80	80	90	80	B	
112	142310	60	84	80	80	99	80	80	90	90	90	90	90	80	90	90	C	
113	142109	28	36	60	20	99	80	90	90	90	90	90	80	80	70	70	C	
114	152909	16	36	52	20	85	80	90	80	80	90	90	80	80	70	70	C	
115	152918	0	16	44	0	85	80	80	80	80	90	90	80	80	60	70	E	
116	152911	24	24	4	32	85	80	90	80	80	90	80	80	80	70	70	E	
117	152904	52	72	76	72	80	80	90	80	80	90	80	80	90	70	90	C	
118	152908	4	52	48	32	99	80	90	80	80	90	70	80	80	70	70	E	
119	152913	48	32	24	72	80	80	80	80	80	90	80	80	80	90	70	E	
120	152917	8	12	44	20	80	80	80	80	80	90	70	70	80	60	60	E	
121	152906	20	44	8	20	80	80	80	80	80	90	80	70	80	60	60	E	
122	152914	20	12	8	20	86	80	90	80	80	90	80	70	80	60	60	U	
123	152927	2	0	40	40	86	80	90	80	80	90	80	70	80	60	60	U	

Benchmark: % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU																
L – Level, C-Count																
	CIT					Assignments			Survey	Quiz	Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2	CO4	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
C	44	61	55	43	105	117	116	120	123	120	123	122	122	116	119	78
%	36.67	50.83	45.45	35.54	85.37	95.12	94.31	97.56	100	97.56	100	99.19	99.19	94.31	96.75	63.41
L	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	1

**Attainment Calculation:**

**Survey:**

Survey	C301.1	C301.2	C301.3	C301.4	C301.5
Obtained %	94.2	92.65	94.13	93.71	90.89
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C301:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C301.1	0	3	-	-	3	1.2	1	1.08	3	1.46
C301.2	0	3	3	-	3	1.2	1	1.08	3	1.46
C301.3	0	3	-	-	3	1.2	1	1.08	3	1.46
C301.4	0	-	-	3	3	0.9	1	0.96	3	1.37
C301.5	3	-	-	-	3	3	1	1.8	3	2.04
<b>C301</b>										<b>1.56</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C301.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C301.2	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Seminar + 0.2*Tutorial]
C301.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C301.4	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.2*Tutorial]
C301.5	AU Exam	[0.7*Internal Test + 0.3*Tutorial]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C301 = \frac{C301.1 + C301.2 + C301.3 + C301.4 + C301.5}{5} = 1.56$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6502 Microprocessors and Microcontrollers: C302**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO4	CO5	CO3	CO1	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	142009	68	58	86	90	92	90	90	90	100	32	B
2	142308	30	50	8	44	50	90	60	70	90	50	E
3	142022	58	42	60	88	60	80	60	70	80	100	E
4	142112	46	28	50	80	70	90	60	80	80	40	D
5	142070	50	50	41	41	24	80	80	70	80	75	E
6	142306	54	60	0	0	50	80	60	60	60	100	E
7	142063	40	4	40	20	36	90	60	50	90	60	U
8	142301	92	100	96	92	94	80	90	90	100	45	D
9	142034	84	66	76	76	84	90	60	90	100	100	C
10	142040	64	8	42	36	6	60	60	40	60	65	E
11	142071	82	26	52	80	70	90	80	80	70	35	E
12	142101	90	78	76	76	88	90	60	90	90	40	A
13	142017	84	80	72	88	50	90	60	70	90	20	E
14	142045	78	90	98	76	86	90	90	90	90	45	D
15	142302	82	42	82	66	92	90	80	90	100	20	D
16	142072	24	16	12	4	44	60	60	60	60	30	U
17	142111	64	10	28	56	50	60	60	70	60	65	E
18	142059	90	92	92	76	90	90	90	90	100	30	B
19	142050	32	20	64	20	26	80	60	40	60	65	C
20	142309	88	88	50	74	90	90	90	90	100	60	B
21	142056	90	90	76	80	84	90	90	90	100	40	C
22	142058	66	40	70	40	68	80	60	70	70	45	E
23	142004	96	96	86	78	96	90	90	90	100	45	E
24	142106	40	36	32	68	64	80	70	80	70	80	D
25	142104	57	56	52	60	68	90	60	90	70	40	E
26	142011	90	80	78	88	52	90	80	90	90	100	C
27	142041	80	62	56	64	92	90	60	90	80	45	E
28	142024	26	42	62	38	56	90	60	80	60	80	E
29	142026	80	62	76	72	92	90	60	80	80	65	E
30	142008	96	96	94	88	96	90	90	90	100	65	C
31	142038	84	26	32	12	76	90	60	60	60	45	C
32	142032	92	60	80	80	60	90	80	60	60	36	C
33	152915	62	42	56	44	56	90	80	50	0	30	E
34	152923	16	14	24	24	44	90	80	50	0	35	E
35	152920	0	4	12	0	8	60	60	60	0	65	U
36	152922	42	32	41	41	44	90	60	90	0	55	E
37	152916	66	70	58	70	56	90	60	50	90	60	E
38	152901	0	0	8	0	0	60	60	0	0	20	E
39	152928	64	60	48	68	62	90	60	80	70	35	C
40	162401	86	48	40	24	58	60	60	60	90	35	D
41	162402	94	72	92	92	62	90	60	70	90	55	E
42	142001	32	72	64	76	72	90	90	90	90	75	B
43	142012	90	86	96	76	78	100	100	100	90	100	B
44	142057	90	94	88	68	76	100	100	100	90	100	E
45	142035	68	88	80	64	70	90	90	90	90	85	C

46	142047	80	36	84	88	80	100	90	90	90		65		E
47	142108	44	36	44	36	56	80	90	90	80		70		E
48	142013	50	82	96	80	70	90	100	100	90		100		C
49	142036	72	84	64	56	64	100	100	100	90		65		E
50	142031	84	24	44	32	60	90	90	90	80		70		B
51	142074	68	24	40	72	50	90	90	90	90		80		D
52	142044	90	82	92	64	62	90	100	100	90		60		C
53	142107	84	68	76	44	48	90	90	100	80		90		A
54	142029	58	46	60	72	64	90	80	90	90		100		E
55	142016	88	96	96	92	72	100	100	100	90		95		C
56	142051	84	60	68	76	68	100	100	100	90		60		C
57	142110	24	40	44	8	52	90	80	90	80		90		C
58	142066	72	68	84	76	68	100	100	100	80		55		E
59	142073	14	46	12	44	56	90	90	90	80		100		C
60	142027	20	24	4	12	40	90	80	90	70		70		E
61	142067	90	90	84	76	68	100	100	100	90		75		E
62	142030	84	80	68	72	84	90	100	100	90		85		B
63	142061	4	8	0	0	A	80	80	100	60		65		UA
64	142037	90	90	76	84	60	90	100	100	90		45		B
65	142064	84	76	88	72	64	90	100	100	90		90		C
66	142010	90	84	76	96	72	80	100	100	90		90		C
67	142025	84	56	88	84	52	90	90	90	90		85		D
68	142303	66	82	80	64	68	100	90	90	100		85		E
69	142039	94	98	92	88	92	100	100	100	90		90		B
70	142020	60	72	60	60	50	90	90	90	90		90		D
71	142028	92	44	44	72	84	100	90	90	100		75		B
72	142042	54	46	28	28	72	90	90	90	90		85		U
73	142048	74	90	80	28	42	90	100	100	80		55		E
74	152921	58	22	44	56	44	90	90	90	80		70		D
75	152912	44	32	40	60	40	80	80	90	70		65		E
76	152919	12	4	12	12	48	80	80	90	70		65		E
77	152905	36	68	44	56	68	90	90	100	80		95		E
78	152925	16	0	24	20	26	90	80	90	60		65		E
79	152910	74	46	52	72	48	90	80	90	70		65		D
80	152924	68	52	48	64	72	90	80	90	90		85		E
81	152902	52	44	64	60	64	90	80	90	70		35		D
82	142003	90	98	88	96	99	90	90	90	90		90		B
83	142068	84	76	84	84	98	90	90	90	90		85		C
84	142053	56	44	64	88	90	90	90	90	90		90		D
85	142007	75	65	76	44	74	90	90	90	90		70		E
86	142305	50	70	92	88	90	90	90	90	90		80		C
87	142307	88	92	96	88	99	90	90	90	90		60		D
88	142023	54	48	96	88	99	90	90	90	90		75		C
89	142055	78	74	40	40	92	90	90	90	90		80		E
90	142046	52	48	80	10	36	90	90	90	90		95		C
91	142052	68	84	60	52	70	90	90	90	90		90		C
92	142103	A	A	80	92	99	90	90	90	90		90		C
93	142021	84	88	96	96	99	90	90	90	90		90		B
94	142018	52	48	76	68	82	90	90	90	90		80		E
95	142043	60	72	80	44	68	90	90	90	90		70		E

96	142065	76	84	56	64	78	90	90	90	90	80	E
97	142060	40	60	38	40	90	90	90	90	90	75	D
98	142006	80	80	84	76	96	90	90	90	90	75	C
99	142304	92	68	32	76	64	90	90	90	90	80	E
100	142014	80	80	92	88	99	90	90	90	90	85	E
101	142015	92	100	96	96	99	90	90	90	90	100	B
102	142069	45	59	60	60	78	80	80	90	80	65	E
103	142054	80	44	50	50	50	80	80	90	80	60	E
104	142062	76	64	92	88	60	90	90	90	90	50	C
105	142019	74	60	92	88	64	90	90	90	90	50	C
106	142005	80	84	88	76	80	90	90	90	90	100	C
107	142033	10	30	A	A	90	90	90	90	90	85	C
108	142105	40	28	52	48	56	90	90	90	90	40	D
109	142002	92	88	80	84	92	90	90	90	90	95	B
110	142102	68	52	80	84	76	90	90	90	90	70	C
111	142311	80	80	80	80	64	90	90	90	90	40	C
112	142310	84	92	68	92	60	90	90	90	90	60	C
113	142109	64	60	80	68	56	90	90	90	90	30	D
114	152909	62	44	56	52	80	90	90	90	90	95	E
115	152918	60	52	60	72	68	90	90	90	90	90	E
116	152911	20	32	20	16	52	80	80	90	80	90	E
117	152904	60	68	82	86	68	90	90	90	90	95	C
118	152908	30	38	20	28	52	90	90	90	90	85	E
119	152913	51	49	52	48	56	80	80	90	80	40	E
120	152917	22	18	8	20	50	80	80	90	80	95	C
121	152906	56	44	12	80	75	90	90	90	90	30	E
122	152914	20	28	20	16	32	90	90	90	90	100	E
123	152927	50	51	40	30	56	80	80	90	80	95	E

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignment			Seminar		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO4	CO5	CO3		CO1		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		
C	76	62	70	76	80	117	97	103	108	0	79		49
%	62.3	50.82	57.38	62.3	65.57	95.12	78.86	83.74	87.8	0	64.23		39.84
L	1	0	0	1	1	3	2	3	3	0	1		0

### Attainment Calculation:

#### Survey:

Survey	C302.1	C302.2	C302.3	C302.4	C302.5
Obtained %	92.24	91.07	91.34	90.61	90.67
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C302:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C302.1	1	-	-	1		1	0	0.4	3	0.92
C302.2	0	3	-	-		0.9	0	0.36	3	0.89
C302.3	0	-	3	-		0.6	0	0.24	3	0.79
C302.4	1	2	-	-		1.3	0	0.52	3	1.02
C302.5	1	3	-	-		1.6	0	0.64	3	1.11
<b>C302</b>										<b>0.95</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C302.1	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C302.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C302.3	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C302.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C302.5	AU Exam	[0.7*Internal Test + 0.3*Assignment]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C302 = \frac{C302.1 + C302.2 + C302.3 + C302.4 + C302.5}{5} = 0.95$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: ME6701 Power Plant Engineering: C303**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5			
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1			
1	142009	92	100	84	100	48	100	90	100	80	60		A	
2	142308	A	A	40	92	56	80	70	70	60	40		E	
3	142022	30	54	74	32	60	80	80	70	70	40		D	
4	142112	64	60	64	64	38	90	80	80	90	60		D	
5	142070	8	6	44	46	36	80	70	70	60	50		E	
6	142306	52	48	48	0	34	80	70	80	60	60		U	
7	142063	56	50	60	60	50	90	80	80	70	70		U	
8	142301	70	88	72	80	76	100	100	90	90	40		B	
9	142034	54	56	88	24	60	90	70	70	100	50		C	
10	142040	78	24	72	58	20	90	90	70	70	70		E	
11	142071	40	64	80	84	50	90	100	80	80	70		D	
12	142101	40	50	86	94	60	100	100	70	90	50		A	
13	142017	66	94	68	88	72	100	70	90	70	80		C	
14	142045	84	58	78	98	64	90	100	80	80	30		B	
15	142302	48	84	76	92	52	90	100	90	60	60		B	
16	142072	12	24	74	44	28	80	70	70	60	70		U	
17	142111	22	48	60	48	70	80	70	70	50	70		E	
18	142059	88	96	78	68	72	100	100	100	90	70		B	
19	142050	40	62	28	16	28	90	70	100	60	70		C	
20	142309	54	90	92	96	74	100	90	70	80	50		A	
21	142056	60	100	80	68	72	100	100	80	70	60		B	
22	142058	44	64	68	38	52	100	100	80	60	70		E	
23	142004	64	100	92	84	52	100	90	100	90	60		E	
24	142106	36	64	50	30	36	100	70	70	70	50		B	
25	142104	38	44	80	78	60	90	90	80	70	50		C	
26	142011	74	86	78	52	72	90	70	90	80	100		C	
27	142041	A	A	76	24	52	90	70	70	60	60		C	
28	142024	80	60	80	72	52	90	70	90	70	70		B	
29	142026	72	42	56	68	92	90	80	80	90	70		B	
30	142008	96	100	96	92	68	100	100	100	80	90		A	
31	142038	66	48	94	74	78	80	80	70	70	50		E	
32	142032	70	74	72	76	24	90	100	70	60	60		C	
33	152915	20	28	40	32	20	90	70	70	50	70		D	
34	152923	36	24	44	48	0	80	70	70	40	60		E	
35	152920	0	0	72	16	52	80	80	70	30	30		U	
36	152922	20	48	38	12	52	90	90	80	50	70		D	
37	152916	32	12	70	34	0	80	70	80	60	20		U	
38	152901	0	0	0	0	0	90	70	80	20	20		E	
39	152928	32	54	64	44	52	90	80	90	60	70		D	
40	162401	16	0	80	28	48	90	80	80	70	40		D	
41	162402	58	72	72	76	A	100	90	70	80	70		B	
42	142001	52	48	80	68	56	90	90	80	100	80		C	
43	142012	60	84	76	96	76	100	90	90	90	90		B	
44	142057	56	72	76	88	52	100	90	90	90	90		B	
45	142035	16	32	48	60	36	90	90	80	80	70		E	

46	142047	56	56	88	60	52	90	90	80	70	70	C
47	142108	40	16	60	56	40	90	90	80	70	70	UA
48	142013	60	60	72	84	76	100	90	90	90	90	B
49	142036	28	72	72	72	72	100	80	80	70	80	C
50	142031	48	56	44	56	60	90	100	80	70	80	C
51	142074	52	48	68	56	68	90	90	80	90	70	C
52	142044	48	52	84	96	80	100	100	90	70	90	B
53	142107	48	52	44	24	50	90	90	80	70	70	B
54	142029	40	68	56	64	4	90	100	80	70	70	D
55	142016	72	88	92	100	84	100	100	90	100	90	D
56	142051	60	60	64	44	60	90	90	80	80	70	B
57	142110	40	60	48	48	8	90	90	80	70	70	C
58	142066	56	72	92	96	72	100	100	100	90	80	E
59	142073	56	44	84	76	4	90	90	80	100	70	B
60	142027	16	4	28	0	8	90	90	80	80	70	B
61	142067	56	68	88	96	64	100	100	90	70	80	E
62	142030	72	64	80	88	72	100	100	90	80	80	C
63	142061	8	20	8	4	0	70	70	70	70	70	UA
64	142037	76	92	80	88	88	90	100	80	90	90	A
65	142064	72	56	88	96	92	90	100	90	90	90	B
66	142010	80	80	92	100	80	100	100	90	90	90	C
67	142025	88	52	76	68	80	90	100	90	80	90	E
68	142303	48	52	72	60	76	100	90	80	100	90	E
69	142039	64	80	80	80	92	100	100	80	A	90	C
70	142020	76	80	84	84	68	90	100	90	90	90	B
71	142028	96	88	96	68	76	90	100	90	90	90	C
72	142042	A	A	52	80	84	90	90	80	70	90	E
73	142048	32	68	80	72	76	90	90	90	80	90	D
74	152921	28	12	40	40	40	90	90	90	70	70	D
75	152912	16	24	60	40	44	90	90	80	70	70	D
76	152919	4	16	28	32	0	90	90	80	70	70	E
77	152905	20	20	64	24	8	100	90	80	A	70	E
78	152925	16	0	28	52	50	90	90	80	A	70	E
79	152910	12	24	64	40	50	90	90	80	70	70	C
80	152924	16	36	72	40	50	90	90	80	A	70	E
81	152902	8	40	56	56	0	90	90	80	70	70	C
82	142003	100	96	96	88	84	100	100	100	100	100	C
83	142068	88	86	88	92	100	100	100	100	90	90	B
84	142053	84	88	80	80	96	90	90	90	90	90	B
85	142007	32	80	80	60	80	90	80	80	80	80	C
86	142305	80	60	92	96	88	100	90	90	100	100	A
87	142307	80	60	84	88	68	100	90	90	90	90	B
88	142023	96	60	88	88	52	90	80	80	80	80	B
89	142055	52	76	88	76	84	100	100	100	90	90	C
90	142046	64	36	72	72	60	90	90	90	80	80	A
91	142052	92	96	82	82	80	100	100	100	100	100	B
92	142103	84	96	88	72	88	90	90	90	90	90	A
93	142021	96	100	92	100	100	100	100	100	100	100	S
94	142018	16	40	38	44	44	90	90	90	90	90	B
95	142043	88	80	68	92	76	90	90	90	90	90	D

96	142065	92	92	64	80	72	100	80	80	80	80	C
97	142060	52	84	72	92	76	90	90	90	90	90	A
98	142006	76	92	92	92	84	100	100	100	100	100	A
99	142304	44	52	68	64	40	90	80	80	80	80	D
100	142014	80	60	72	96	88	100	100	100	90	90	C
101	142015	100	100	92	92	100	100	100	100	100	100	A
102	142069	60	68	60	52	48	90	80	80	80	80	C
103	142054	44	84	A	A	40	90	80	80	80	80	D
104	142062	92	96	84	96	100	100	100	100	100	100	C
105	142019	80	84	84	84	96	100	100	100	90	90	A
106	142005	92	88	88	92	100	100	100	100	100	100	B
107	142033	A	A	A	A	92	90	90	90	90	90	A
108	142105	56	48	84	72	68	90	90	90	80	80	A
109	142002	92	88	84	96	80	100	100	100	100	100	S
110	142102	76	68	84	92	80	90	90	90	90	90	B
111	142311	76	80	84	92	80	90	90	90	90	90	B
112	142310	88	72	96	96	76	90	90	90	90	90	B
113	142109	72	56	72	88	32	90	90	90	80	80	C
114	152909	68	60	84	56	88	90	90	90	80	80	B
115	152918	88	84	80	72	44	90	90	90	90	90	C
116	152911	0	0	30	10	28	90	90	90	80	80	D
117	152904	96	96	92	88	84	100	100	100	100	100	A
118	152908	16	72	76	72	36	90	90	90	80	80	C
119	152913	64	64	60	72	56	90	80	80	80	80	E
120	152917	32	12	12	20	24	90	80	80	80	80	C
121	152906	52	56	80	96	88	90	90	90	90	90	D
122	152914	44	20	96	44	52	90	90	90	80	80	E
123	152927	14	28	60	36	80	90	90	90	80	80	E

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU											
L – Level, C-Count											
	CIT					Assignment			Seminar	Quiz	AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
C	55	66	96	78	66	122	106	105	102	99	77
%	46.22	55.46	79.34	64.46	54.1	99.19	86.18	85.37	85.71	80.49	63.64
L	0	0	2	1	0	3	3	3	3	3	1

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C303.1</b>	<b>C303.2</b>	<b>C303.3</b>	<b>C303.4</b>	<b>C303.5</b>
<b>Obtained %</b>	<b>93.93</b>	<b>92.31</b>	<b>92.11</b>	<b>91.32</b>	<b>91.28</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C303:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C303.1	0	3	-	-		0.9	1	0.96	3	1.37
C303.2	0	3	-	-		0.9	1	0.96	3	1.37
C303.3	2	3	-	-		2.3	1	1.52	3	1.82
C303.4	1	-	3	-		1.4	1	1.16	3	1.53
C303.5	0	-	-	3		0.6	1	0.84	3	1.27
<b>C303</b>										<b>1.47</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C303.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C303.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C303.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C303.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C303.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C303 = \frac{C303.1 + C303.2 + C303.3 + C303.4 + C303.5}{5} = 1.47$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6503 Power Electronics: C304**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO3	CO5	CO2	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	142009	8	34	100	88	88	80	100	90	90	100	80	90	S
2	142308	44	32	68	4	40	90	70	80	80	80	70	80	E
3	142022	24	48	92	72	32	90	80	80	80	80	60	70	C
4	142112	40	50	100	24	32	90	70	80	90	80	70	80	C
5	142070	0	0	56	52	52	80	70	80	80	80	A	60	E
6	142306	4	60	16	44	28	80	80	80	80	80	70	80	E
7	142063	12	0	68	20	28	80	80	80	70	70	60	70	U
8	142301	70	46	100	96	84	100	100	100	100	100	90	100	B
9	142034	52	52	84	76	40	90	80	90	100	100	A	100	B
10	142040	A	A	88	48	20	80	70	80	70	70	70	80	E
11	142071	72	6	48	80	84	100	90	90	90	100	70	80	C
12	142101	76	56	96	84	36	70	80	80	100	90	A	100	A
13	142017	68	32	92	60	28	90	70	80	80	100	80	80	B
14	142045	64	60	100	88	88	80	100	90	90	90	80	80	B
15	142302	62	38	88	68	40	80	90	80	80	90	70	90	D
16	142072	36	18	92	68	32	0	80	100	90	80	80	70	U
17	142111	0	0	84	16	44	80	80	80	70	100	70	70	U
18	142059	64	36	100	96	84	80	100	90	100	100	90	90	B
19	142050	28	12	68	20	28	80	80	80	90	100	70	60	E
20	142309	86	60	96	88	88	100	100	100	90	100	80	90	C
21	142056	72	52	96	80	84	100	100	100	90	100	80	90	C
22	142058	36	44	88	44	32	90	80	90	80	90	80	100	E
23	142004	48	80	80	80	84	90	90	100	100	100	100	100	C
24	142106	52	6	64	56	56	90	80	100	80	90	90	80	B
25	142104	46	54	96	36	36	80	80	90	80	100	70	100	E
26	142011	68	8	84	56	36	90	100	100	90	100	90	80	D
27	142041	56	8	96	84	84	0	80	80	100	100	90	80	E
28	142024	32	26	80	64	60	80	80	90	80	100	70	80	E
29	142026	28	22	96	72	84	70	80	80	100	100	90	100	D
30	142008	84	76	96	96	96	100	100	100	100	100	100	90	B
31	142038	20	10	88	80	44	90	80	90	100	100	100	90	C
32	142032	48	52	96	84	72	90	90	80	100	100	90	100	B
33	152915	52	28	64	44	40	90	80	90	80	80	70	100	E
34	152923	24	4	64	52	36	80	70	90	70	80	60	60	D
35	152920	12	0	64	56	8	0	70	70	70	70	60	70	U
36	152922	48	12	76	32	28	80	70	80	70	70	70	80	E
37	152916	52	48	76	64	32	90	80	90	80	80	80	70	E
38	152901	12	0	A	A	0	70	70	70	70	70	60	100	U
39	152928	60	20	72	48	68	90	80	90	80	90	80	80	E
40	162401	10	12	80	36	64	80	80	90	80	90	70	80	E
41	162402	48	62	92	88	A	100	100	90	100	100	100	80	D
42	142001	68	68	96	96	96	90	90	90	90	90	90	90	B
43	142012	76	76	88	88	96	90	90	90	80	80	90	90	B
44	142057	76	76	80	80	96	90	90	90	90	90	90	90	B
45	142035	64	64	82	82	40	90	90	90	80	80	90	90	E

46	142047	50	50	A	A	68	90	90	90	90	90	90	90	B
47	142108	50	50	72	72	68	90	90	90	80	80	80	90	U
48	142013	68	68	88	88	96	90	90	90	90	90	90	90	D
49	142036	68	68	92	92	96	90	90	90	80	80	90	90	C
50	142031	46	46	96	96	76	90	90	90	90	90	80	80	C
51	142074	80	80	96	96	76	90	90	90	80	80	90	90	C
52	142044	72	72	76	76	96	90	90	90	90	90	90	90	C
53	142107	50	50	88	88	76	90	90	90	80	80	80	90	C
54	142029	50	50	88	88	44	90	90	90	90	90	80	80	C
55	142016	70	70	96	96	92	90	90	90	80	80	90	80	E
56	142051	64	64	68	68	76	90	90	90	90	90	90	80	C
57	142110	28	28	68	68	88	90	90	90	80	80	90	90	A
58	142066	72	72	96	96	92	90	90	90	90	90	90	90	U
59	142073	64	64	24	24	8	90	90	90	80	80	80	80	E
60	142027	6	6	72	72	28	90	90	90	90	90	90	90	E
61	142067	64	64	88	88	88	90	90	90	80	80	90	80	E
62	142030	78	78	76	76	88	90	90	90	90	90	90	90	B
63	142061	24	24	28	28	36	90	90	90	80	80	A	90	UA
64	142037	82	82	99	99	96	90	90	90	90	90	90	90	B
65	142064	58	58	98	98	96	90	90	90	80	80	90	90	C
66	142010	76	76	96	96	96	90	90	90	90	90	90	90	B
67	142025	70	70	96	96	68	90	90	90	80	80	80	80	B
68	142303	66	66	92	92	60	90	90	90	90	90	90	80	E
69	142039	82	82	98	98	96	90	90	90	80	80	90	90	A
70	142020	60	60	86	86	44	90	90	90	90	90	90	90	B
71	142028	60	60	88	88	76	90	90	90	80	80	80	80	E
72	142042	A	A	86	86	76	90	90	90	90	90	80	90	E
73	142048	50	50	96	96	88	90	90	90	80	80	90	80	C
74	152921	56	56	68	68	68	90	90	90	90	90	80	90	B
75	152912	50	50	54	54	48	90	90	90	80	80	80	90	E
76	152919	8	8	12	12	36	90	90	90	90	90	90	80	E
77	152905	50	50	38	38	36	90	90	90	80	80	90	80	E
78	152925	44	44	50	50	32	90	90	90	90	90	90	90	U
79	152910	36	36	76	76	64	90	90	90	80	80	90	80	E
80	152924	70	70	62	62	64	90	90	90	90	90	80	80	C
81	152902	50	50	74	74	28	90	90	90	80	80	80	80	U
82	142003	68	86	92	92	84	100	100	100	90	100	90	90	A
83	142068	A	56	84	84	100	90	90	90	80	100	80	80	C
84	142053	72	52	84	86	76	90	80	100	90	100	80	90	C
85	142007	28	72	68	70	80	100	90	100	80	100	90	80	C
86	142305	64	52	64	82	80	100	80	100	90	100	90	80	B
87	142307	40	50	76	78	88	100	80	100	90	100	80	90	B
88	142023	64	70	68	86	80	100	90	0	80	100	80	80	A
89	142055	76	76	60	92	76	90	80	70	100	100	90	100	D
90	142046	20	14	52	52	52	80	90	80	90	100	90	80	B
91	142052	52	88	76	84	76	80	80	70	90	100	80	90	C
92	142103	40	A	52	70	76	100	90	80	80	100	80	80	D
93	142021	64	62	92	90	50	100	80	100	90	100	90	90	S
94	142018	52	42	60	90	80	100	70	70	90	100	70	80	D
95	142043	88	30	20	84	80	100	80	70	80	100	80	90	B

96	142065	28	40	72	66	68	100	90	100	90	100	90	80	U
97	142060	56	54	84	60	88	90	90	80	80	100	90	90	B
98	142006	88	72	100	90	64	90	80	80	90	100	80	80	B
99	142304	52	34	64	72	68	100	90	60	80	100	90	90	B
100	142014	A	68	68	82	80	100	80	100	90	100	90	80	C
101	142015	88	86	100	98	96	100	90	100	100	100	90	100	S
102	142069	32	30	52	60	88	100	90	0	80	100	70	90	E
103	142054	20	50	64	62	40	100	80	50	90	100	70	90	D
104	142062	64	56	60	84	88	90	80	100	90	100	90	90	C
105	142019	56	52	80	76	72	90	80	100	80	100	90	80	C
106	142005	56	74	88	58	68	90	90	70	90	100	90	90	B
107	142033	A	A	0	0	100	100	80	0	80	100	80	80	C
108	142105	44	50	72	78	44	100	90	0	80	100	80	90	C
109	142002	96	92	84	84	64	100	80	90	90	100	90	80	B
110	142102	64	50	88	68	64	100	90	80	80	100	80	90	C
111	142311	52	50	72	64	80	100	80	90	80	100	90	80	B
112	142310	36	66	100	86	64	100	80	100	90	100	90	90	B
113	142109	72	50	96	56	52	100	90	90	80	100	80	80	E
114	152909	50	50	68	50	44	100	80	90	90	100	80	90	E
115	152918	32	50	50	54	52	80	90	80	80	100	90	80	E
116	152911	56	22	50	32	56	80	80	80	80	100	80	90	E
117	152904	60	88	84	74	68	90	80	90	90	100	90	80	B
118	152908	24	14	72	50	52	90	90	90	80	100	80	90	D
119	152913	28	50	64	42	28	90	80	100	90	100	80	80	C
120	152917	12	8	50	30	12	100	80	70	90	100	80	80	E
121	152906	40	28	60	50	44	100	90	80	80	100	80	90	E
122	152914	28	22	16	12	20	100	90	80	90	100	80	80	E
123	152927	32	40	50	50	16	100	80	80	90	100	70	80	E

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignment			Seminar		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO3	CO5	CO2	CO4	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		
C	48	41	102	84	72	117	113	109	123	123	114	120	66
%	39.34	33.61	84.3	69.42	59.02	95.12	91.87	88.62	100	100	95.8	97.56	54.1
L	0	0	3	1	0	3	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C304.1	C304.2	C304.3	C304.4	C304.5
Obtained %	95.97	94.85	94.27	94.85	94.4
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C304:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C304.1	0	-	-	-		0	0	0	3	0.6
C304.2	0	3	-	3		0.9	0	0.36	3	0.89
C304.3	3	3	3	-		3	0	1.2	3	1.56
C304.4	1	3	-	3		1.6	0	0.64	3	1.11
C304.5	0	-	3	-		0.6	0	0.24	3	0.79
<b>C304</b>										<b>0.99</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C304.1	AU Exam	[1*Internal Test]
C304.2	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C304.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C304.4	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C304.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C304 = \frac{C304.1 + C304.2 + C304.3 + C304.4 + C304.5}{5} = 0.99$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6504 Electrical Machines II: C305**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO3	CO3	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
1	142009	68	88	96	80	76	90	90	80	80	80	90	90	80	80	80	B
2	142308	60	52	52	32	20	70	70	80	90	90	50	50	80	60	90	E
3	142022	76	88	56	12	48	80	80	80	80	80	50	50	90	80	80	B
4	142112	72	32	68	32	56	60	60	60	90	90	70	70	80	80	90	D
5	142070	4	12	28	24	4	90	80	60	90	90	40	30	80	70	70	U
6	142306	32	16	24	12	16	80	80	60	80	80	40	40	90	80	100	E
7	142063	32	4	8	8	12	90	90	50	80	80	40	40	80	90	100	U
8	142301	96	92	84	80	80	90	90	100	80	80	80	80	100	90	80	B
9	142034	72	88	76	64	32	70	70	80	80	80	80	80	80	90	80	C
10	142040	0	0	64	40	0	20	20	90	80	80	60	60	90	90	90	E
11	142071	88	64	48	80	60	100	100	100	80	80	80	80	80	90	90	C
12	142101	84	48	76	80	88	90	90	100	80	80	90	90	100	90	90	A
13	142017	88	92	74	64	60	90	90	80	60	60	70	70	80	90	90	B
14	142045	88	92	80	72	60	100	100	100	60	60	80	80	80	100	90	C
15	142302	80	48	40	64	36	100	100	90	80	80	80	80	80	80	90	D
16	142072	0	32	24	48	12	50	50	80	70	70	50	50	90	90	90	U
17	142111	52	12	16	4	36	90	90	80	70	70	40	40	90	90	90	U
18	142059	88	80	68	80	88	90	90	100	80	80	90	90	60	90	90	S
19	142050	60	56	24	8	20	60	60	80	80	80	60	60	80	80	80	D
20	142309	96	88	80	72	88	100	100	100	80	80	80	80	80	90	90	B
21	142056	88	80	52	68	68	90	90	80	80	80	90	90	90	80	90	B
22	142058	44	56	32	48	32	80	80	80	85	85	60	60	80	90	90	E
23	142004	96	92	80	48	72	100	100	90	80	80	100	100	90	90	100	E
24	142106	24	36	48	12	44	60	60	90	80	80	60	60	90	80	100	B
25	142104	48	72	32	32	72	50	50	90	60	60	80	80	90	90	100	C
26	142011	72	72	72	56	44	100	100	80	60	60	60	50	80	70	70	B
27	142041	88	76	76	72	52	100	100	80	60	60	90	100	80	90	90	B
28	142024	48	16	52	72	52	60	60	80	80	80	70	70	60	90	90	C
29	142026	96	100	68	72	72	90	90	60	80	80	100	70	80	90	90	B
30	142008	96	92	80	88	64	100	100	100	80	80	100	100	80	100	100	B
31	142038	20	48	56	64	40	70	70	80	80	80	70	70	80	90	90	B
32	142032	76	84	68	52	32	90	90	80	80	80	60	60	80	80	90	B
33	152915	40	60	32	44	12	90	90	60	60	60	50	50	90	90	90	E
34	152923	24	28	36	48	20	70	70	50	80	80	50	50	80	90	90	E
35	152920	12	0	0	20	0	60	60	60	80	80	40	40	90	80	90	E
36	152922	32	28	60	40	20	80	80	60	60	60	60	60	80	90	90	E
37	152916	44	64	44	60	36	70	70	60	80	80	40	40	80	90	90	E
38	152901	4	0	16	12	0	70	70	70	60	60	50	50	80	80	70	E
39	152928	36	64	36	40	16	90	80	60	60	60	50	50	60	90	90	E
40	162401	30	56	44	32	28	90	90	60	60	60	60	60	60	90	90	E
41	162402	92	80	64	80	0	100	100	70	60	60	90	90	60	80	70	D
42	142001	96	96	48	80	80	90	90	90	80	80	90	90	100	70	90	A
43	142012	100	88	88	96	68	90	90	80	80	80	80	80	90	80	90	B
44	142057	0	0	76	88	72	100	100	90	60	60	90	90	80	80	100	B
45	142035	88	72	64	48	36	90	90	60	80	80	70	70	80	100	90	D

46	142047	96	80	80	80	76	90	90	60	70		70	90	90	90	80	90	B
47	142108	64	48	44	44	48	80	80	60	80		80	70	70	60	70	90	E
48	142013	88	80	80	64	52	100	100	90	80		80	80	80	90	80	90	C
49	142036	84	88	40	64	52	90	90	80	60		60	80	80	90	80	90	B
50	142031	92	84	64	40	86	100	100	100	80		80	80	80	90	100	90	B
51	142074	92	84	72	72	76	80	80	60	80		80	70	70	90	70	90	C
52	142044	84	92	72	88	60	100	100	80	60		60	80	80	90	90	100	C
53	142107	80	68	64	48	48	80	80	60	70		70	60	60	90	70	100	B
54	142029	56	76	64	64	64	100	100	60	80		80	70	70	70	70	100	C
55	142016	100	92	96	92	72	100	100	100	80		80	90	90	90	100	100	C
56	142051	96	88	64	72	44	100	100	80	80		80	90	100	100	80	90	C
57	142110	40	64	8	24	32	90	90	60	80		80	70	70	60	70	90	B
58	142066	88	72	48	64	86	90	90	80	80		80	70	70	90	90	90	D
59	142073	44	32	36	88	44	90	90	60	80		80	80	80	50	70	90	B
60	142027	40	64	16	44	60	80	80	60	80		80	50	50	60	70	90	B
61	142067	96	100	72	76	72	90	90	90	90		90	80	50	100	90	90	E
62	142030	92	52	52	80	76	100	100	60	90		90	80	80	90	70	90	B
63	142061	0	0	0	4	0	60	60	60	80		80	40	40	0	40	100	UA
64	142037	96	76	88	88	80	100	100	80	90		90	80	80	90	90	100	A
65	142064	92	96	16	40	72	100	100	90	80		80	80	80	80	90	100	S
66	142010	60	68	68	40	84	90	90	80	80		80	80	80	80	90	90	S
67	142025	96	92	84	88	68	60	60	90	80		80	80	80	90	90	90	C
68	142303	88	76	76	64	76	90	90	90	80		80	90	90	90	80	90	B
69	142039	100	68	96	88	84	100	100	100	70		70	80	80	80	90	100	B
70	142020	80	76	56	60	72	60	60	90	60		60	70	70	100	90	100	B
71	142028	88	40	72	72	80	90	90	60	80		80	100	90	80	60	100	B
72	142042	84	84	52	92	72	60	60	90	80		80	80	80	70	90	90	E
73	142048	88	76	48	64	60	90	90	90	60		60	80	80	80	90	100	E
74	152921	56	56	44	76	76	100	100	80	60		60	70	70	80	80	100	B
75	152912	28	52	24	32	48	100	100	90	60		60	70	70	80	90	90	E
76	152919	0	20	0	20	36	60	60	90	90		90	70	70	40	90	90	U
77	152905	12	28	56	56	68	60	60	80	90		90	60	60	100	90	100	E
78	152925	20	12	12	12	16	90	90	80	90		90	60	60	80	90	100	U
79	152910	16	76	32	52	60	100	100	90	80		80	60	60	80	90	90	B
80	152924	16	80	44	40	48	60	60	90	60		60	90	90	80	90	90	E
81	152902	48	52	80	36	20	60	60	90	60		60	80	80	80	90	100	E
82	142003	93	99	88	96	96	100	100	100	100		100	100	100	100	100	100	A
83	142068	64	40	64	60	88	100	90	100	90		90	100	100	80	80	80	B
84	142053	72	52	64	36	84	100	90	100	90		90	100	100	90	80	90	D
85	142007	30	26	49	52	12	80	80	90	80		80	90	90	80	80	80	B
86	142305	40	20	48	92	72	100	80	90	80		80	100	100	80	90	80	A
87	142307	70	86	40	36	60	100	80	90	80		80	100	100	80	90	80	C
88	142023	70	46	72	64	52	100	80	90	90		90	100	100	90	90	90	C
89	142055	74	90	52	84	a	100	90	100	100		100	90	80	100	100	100	E
90	142046	5	7	4	20	32	100	90	100	90		90	100	100	90	90	90	A
91	142052	70	50	52	36	80	100	90	100	80		80	100	100	90	80	90	C
92	142103	a	0	56	80	48	100	80	90	80		80	100	100	90	80	90	C
93	142021	82	90	92	88	76	100	90	100	100		100	100	100	100	100	100	B
94	142018	60	56	12	20	64	90	90	100	80		80	80	90	90	90	90	E
95	142043	80	76	28	32	52	90	80	90	80		80	100	100	80	90	80	C

96	142065	6	2	52	16	44	100	80	90	80		80	90	100	80	80	80	U
97	142060	20	32	60	32	40	90	80	90	80		80	90	80	80	80	80	C
98	142006	74	90	48	68	76	90	80	90	90		90	100	100	90	90	90	C
99	142304	74	50	4	20	20	90	80	90	80		80	100	100	80	80	80	E
100	142014	42	66	88	88	44	100	80	90	90		90	100	100	80	80	80	C
101	142015	98	98	92	88	88	100	100	100	100		100	100	100	100	100	100	A
102	142069	7	5	12	0	44	80	80	90	80		80	100	100	80	80	80	E
103	142054	60	40	8	44	20	90	80	90	80		80	90	80	80	80	80	C
104	142062	70	82	56	72	64	100	100	100	90		90	90	100	90	100	90	B
105	142019	78	50	72	60	84	100	100	100	90		90	100	100	100	90	100	B
106	142005	82	70	48	60	76	90	100	100	100		100	100	100	100	100	100	B
107	142033	a	0	a	a	88	100	80	90	80		80	100	100	80	90	80	B
108	142105	48	20	76	24	60	90	80	90	80		80	90	90	80	90	80	D
109	142002	98	90	56	92	84	100	100	100	100		100	100	100	90	100	90	B
110	142102	30	22	48	84	60	90	80	90	80		80	90	80	90	90	90	C
111	142311	60	80	72	84	a	100	80	90	90		90	100	100	90	90	90	C
112	142310	0	0	60	84	88	100	80	90	100		100	100	100	80	90	80	C
113	142109	70	50	28	36	28	90	80	90	90		90	90	90	80	80	90	C
114	152909	0	0	20	48	36	90	80	90	80		80	100	100	80	80	90	B
115	152918	65	35	40	56	24	90	80	90	90		90	90	90	90	90	80	E
116	152911	52	20	20	44	12	90	80	90	80		80	90	90	90	80	80	C
117	152904	70	46	92	88	52	100	80	90	100		100	90	80	90	90	90	B
118	152908	0	0	60	48	8	90	80	90	80		80	90	80	80	90	80	E
119	152913	0	0	a	0	24	90	80	90	80		80	90	80	80	80	90	E
120	152917	14	10	4	28	8	90	80	90	80		80	90	80	80	80	80	E
121	152906	6	2	8	40	20	90	80	90	80		80	90	80	80	90	80	U
122	152914	6	2	8	32	16	80	80	90	80		80	90	90	80	80	80	C
123	152927	2	6	12	28	16	80	80	90	90		90	90	90	80	80	80	C

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU																
L – Level, C-Count																
	CIT					Assignments			Survey	Quiz	Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO3	CO3	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
C	70	61	52	60	57	101	101	97	103	103	96	95	112	120	123	77
%	57.85	49.59	42.98	49.18	47.11	82.11	82.11	78.86	83.74	83.74	78.05	77.24	91.06	97.56	100	63.11
L	0	0	0	0	0	3	3	2	3	3	2	2	3	3	3	1

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C305.1</b>	<b>C305.2</b>	<b>C305.3</b>	<b>C305.4</b>	<b>C305.5</b>
<b>Obtained %</b>	<b>94.81</b>	<b>94.02</b>	<b>93.82</b>	<b>93.17</b>	<b>92.47</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C305:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C305.1	0	3	-	-	2	1	1	1	3	1.4
C305.2	0	3	-	-	2	1	1	1	3	1.4
C305.3	0	2	3	3	3	1.1	1	1.04	3	1.43
C305.4	0	-	-	-	3	0.9	1	0.96	3	1.37
C305.5	0	-	-	-	3	0.9	1	0.96	3	1.37
<b>C305</b>										<b>1.39</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C305.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C305.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C305.3	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Seminar + 0.1*Quiz + 0.1*Tutorial]
C305.4	AU Exam	[0.7*Internal Test + 0.3*Tutorial]
C305.5	AU Exam	[0.7*Internal Test + 0.3*Tutorial]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C305 = \frac{C305.1 + C305.2 + C305.3 + C305.4 + C305.5}{5} = 1.39$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:IC6501 Control Systems: C306**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO5	CO4	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
1	142009	96	60	96	96	76	100	100	100	100	100	90	90	90	100	100	A
2	142308	60	64	28	60	68	100	90	90	100	100	90	100	90	90	100	D
3	142022	76	36	64	56	76	90	70	100	90	90	100	90	90	100	100	C
4	142112	60	24	60	64	64	90	80	100	90	90	90	90	90	90	90	C
5	142070	12	0	48	52	44	90	80	90	90	90	90	80	80	90	90	E
6	142306	48	12	20	20	36	90	80	100	80	100	90	80	80	90	90	E
7	142063	32	8	24	36	52	90	90	90	80	90	80	80	90	100	100	U
8	142301	88	86	92	100	84	100	100	100	80	80	100	100	90	90	100	B
9	142034	72	36	100	60	60	100	80	90	90	90	100	80	90	90	100	E
10	142040	40	0	76	24	56	90	80	90	90	80	80	70	80	100	90	E
11	142071	72	80	44	24	76	90	80	100	80	90	80	80	90	90	90	E
12	142101	76	32	100	60	80	100	90	80	90	80	80	80	100	90	100	C
13	142017	96	60	57	77	64	90	90	90	90	90	80	70	90	100	100	C
14	142045	84	100	100	64	80	100	100	100	90	80	90	80	100	100	100	C
15	142302	76	84	56	60	80	100	100	100	90	90	80	80	90	100	100	D
16	142072	60	8	A	A	64	90	80	90	80	90	70	70	80	90	90	E
17	142111	68	8	20	28	44	90	70	90	80	80	70	70	80	90	90	U
18	142059	96	68	100	96	76	90	100	100	90	90	90	100	100	100	100	C
19	142050	52	16	48	52	56	90	90	90	90	70	80	90	90	90	100	E
20	142309	82	80	92	100	80	100	100	100	90	80	100	100	100	90	100	B
21	142056	80	64	68	80	80	90	100	100	90	80	80	90	90	100	100	C
22	142058	44	0	84	44	60	90	90	100	90	70	80	80	90	100	90	E
23	142004	100	96	96	96	84	100	100	100	90	100	100	100	100	100	100	C
24	142106	72	32	72	44	72	90	80	90	90	100	90	80	90	90	90	C
25	142104	36	0	96	88	72	90	90	80	100	90	80	80	80	90	90	E
26	142011	92	24	84	64	76	90	70	100	90	80	80	90	90	100	100	E
27	142041	88	100	88	60	84	100	90	90	90	90	90	90	100	100	100	C
28	142024	32	44	16	52	56	90	80	100	90	80	80	80	80	90	90	C
29	142026	100	84	80	68	80	100	90	90	100	90	90	90	90	100	80	C
30	142008	100	100	88	96	84	100	100	100	80	80	100	100	100	100	90	A
31	142038	56	12	20	44	44	90	80	80	90	90	70	80	70	90	90	E
32	142032	84	36	96	60	80	100	80	100	90	80	80	90	90	90	80	E
33	152915	40	4	32	68	52	90	80	90	80	80	70	90	80	90	90	E
34	152923	64	0	41	57	32	90	80	90	70	70	70	70	70	80	90	U
35	152920	8	8	24	12	52	90	80	80	80	80	60	70	70	80	70	U
36	152922	32	16	20	28	36	90	80	80	80	70	60	60	70	70	70	U
37	152916	60	16	72	8	56	100	80	100	70	80	70	80	80	70	70	E
38	152901	0	0	10	0	42	90	80	80	70	70	80	60	70	70	70	U
39	152928	56	20	48	52	56	100	80	90	70	70	100	100	100	100	100	E
40	162401	36	8	20	24	64	90	80	80	80	70	70	70	70	90	90	A
41	162402	76	32	56	80	A	100	100	100	90	90	70	100	100	100	100	E
42	142001	100	92	96	90	72	100	100	100	100	100	100	100	100	100	100	B
43	142012	72	90	72	94	40	90	100	100	100	100	90	100	100	100	100	A
44	142057	100	54	88	92	44	90	100	100	100	100	100	80	100	100	100	C
45	142035	52	94	80	80	48	90	100	100	100	100	70	90	100	100	90	D

46	142047	92	36	56	86	28	80	90	90	100	100	90	80	90	100	80	B
47	142108	52	70	0	0	56	90	90	90	100	100	60	80	70	70	90	D
48	142013	88	54	84	96	56	90	90	100	100	100	90	90	90	80	900	B
49	142036	100	84	50	90	44	90	90	90	100	100	100	90	90	90	100	B
50	142031	60	64	0	0	40	100	100	80	100	100	100	80	80	80	80	C
51	142074	50	68	0	0	48	90	100	100	100	100	60	100	70	90	90	E
52	142044	96	40	92	70	56	90	100	100	100	100	60	100	70	90	90	U
53	142107	64	56	44	80	28	100	100	100	100	100	100	100	80	70	80	B
54	142029	60	90	40	20	52	100	100	100	100	100	100	100	90	80	100	C
55	142016	100	96	88	98	52	100	90	80	100	100	100	100	100	100	100	B
56	142051	88	86	98	76	24	100	90	90	100	100	100	100	100	80	80	C
57	142110	52	38	20	10	28	100	90	100	100	100	100	100	100	80	80	B
58	142066	88	58	80	80	36	90	90	80	100	100	70	100	100	100	100	E
59	142073	64	50	24	76	56	80	90	90	100	100	90	70	80	100	100	B
60	142027	36	4	32	76	28	90	100	90	100	100	70	80	80	100	100	B
61	142067	96	94	68	80	24	90	100	90	100	100	70	90	90	100	80	U
62	142030	100	84	96	70	56	100	100	100	100	100	100	100	100	90	80	B
63	142061	0	0	5	6	0	0	70	70	100	100	0	0	0	0	0	UA
64	142037	88	86	50	70	32	100	100	100	100	100	100	100	100	100	100	C
65	142064	0	76	36	50	56	70	80	100	100	100	50	100	100	100	80	E
66	142010	60	88	62	92	68	90	90	100	100	100	100	100	80	90	90	B
67	142025	96	86	62	96	20	90	90	100	100	100	100	100	90	90	90	B
68	142303	60	70	40	60	44	80	90	100	100	100	100	100	90	80	90	D
69	142039	76	78	90	90	76	90	80	100	100	100	100	100	80	90	80	B
70	142020	88	72	70	74	40	80	90	90	100	100	100	80	90	90	90	E
71	142028	88	80	25	40	44	90	80	90	100	100	100	90	90	100	80	E
72	142042	52	74	32	30	0	90	90	90	100	100	90	90	100	90	100	E
73	142048	52	74	34	60	60	80	80	80	100	100	90	90	90	90	100	C
74	152921	52	30	36	62	36	70	90	80	100	100	80	80	80	100	100	E
75	152912	44	26	6	8	24	100	100	90	100	100	70	80	100	70	100	U
76	152919	8	0	2	2	0	70	80	90	100	100	70	0	100	70	80	U
77	152905	52	26	8	30	20	80	100	100	100	100	100	70	100	70	80	D
78	152925	0	22	22	16	0	80	100	100	100	100	60	70	90	80	90	U
79	152910	72	34	16	50	28	100	90	100	100	100	100	80	100	90	100	D
80	152924	52	62	0	30	44	70	80	100	100	100	70	100	100	90	100	D
81	152902	36	52	40	60	8	100	90	100	100	100	100	90	90	100	100	E
82	142003	100	92	100	100	96	100	90	90	100	90	100	90	90	90	100	C
83	142068	100	68	52	52	56	80	80	80	90	90	80	80	80	90	90	C
84	142053	76	48	92	100	84	90	90	90	100	90	90	90	90	90	90	D
85	142007	100	16	100	84	80	90	90	90	100	90	90	90	90	90	90	B
86	142305	40	32	92	98	80	100	90	90	90	90	100	90	90	90	90	D
87	142307	60	60	92	96	60	100	90	90	100	90	100	90	90	90	90	E
88	142023	92	56	40	60	96	80	80	80	90	90	80	80	80	80	90	C
89	142055	92	92	84	76	A	90	80	80	100	90	90	80	80	80	90	E
90	142046	0	8	36	68	60	80	80	80	80	90	80	80	80	80	100	C
91	142052	80	56	100	92	88	90	90	90	100	80	90	90	90	80	90	C
92	142103	68	0	76	84	52	90	80	90	90	80	80	90	90	80	90	C
93	142021	100	96	92	100	92	90	80	90	100	90	90	90	90	80	90	A
94	142018	100	0	52	32	60	80	80	90	80	90	80	90	90	90	90	E
95	142043	88	68	100	80	60	90	80	80	100	90	90	80	80	80	90	C

96	142065	100	64	72	60	80	80	90	90	90	90	80	90	90	80	90	E
97	142060	96	72	A	A	56	90	80	90	90	90	90	80	90	80	90	B
98	142006	100	64	76	80	72	90	90	90	100	90	90	90	90	90	C	
99	142304	48	28	88	68	80	90	90	90	90	80	90	90	90	80	90	D
100	142014	64	88	92	100	80	90	90	90	90	90	90	90	90	80	90	B
101	142015	100	100	100	100	96	90	90	90	100	90	90	90	90	80	100	B
102	142069	92	40	0	48	60	90	90	90	90	90	90	90	90	80	90	E
103	142054	64	8	92	68	60	90	90	90	90	90	90	90	90	80	90	E
104	142062	76	52	80	96	88	90	80	80	90	90	80	80	80	80	90	B
105	142019	100	96	100	100	88	90	80	80	100	90	80	80	80	80	90	B
106	142005	100	100	84	84	72	80	90	90	90	90	80	80	80	80	90	C
107	142033	A	A	A	A	92	80	80	90	90	90	80	90	90	90	90	B
108	142105	92	8	84	76	60	80	80	90	90	90	80	80	90	90	90	B
109	142002	100	96	92	92	80	90	90	80	100	90	90	80	80	80	90	B
110	142102	76	44	100	84	52	90	80	80	100	80	90	90	80	80	90	C
111	142311	92	98	16	44	A	80	80	80	80	80	80	90	80	80	90	E
112	142310	92	36	100	96	80	90	90	90	100	80	90	80	80	80	90	C
113	142109	88	56	80	68	72	80	80	80	80	80	80	90	80	80	90	E
114	152909	40	24	56	0	52	80	80	80	80	80	80	90	80	80	90	D
115	152918	36	16	68	60	52	80	80	80	80	80	80	80	80	80	90	U
116	152911	48	8	48	0	56	80	80	80	80	80	80	80	80	80	90	E
117	152904	84	80	80	84	56	80	80	80	80	80	80	80	80	80	90	C
118	152908	28	72	40	16	52	80	80	80	80	80	80	80	80	80	90	U
119	152913	56	8	24	60	56	80	80	80	80	80	80	80	80	80	90	E
120	152917	8	24	0	0	50	80	80	80	80	80	80	80	80	80	90	E
121	152906	60	8	44	0	52	80	80	80	80	80	80	80	80	80	90	E
122	152914	0	28	8	40	52	80	80	80	80	80	80	80	80	80	90	U
123	152927	44	8	0	0	52	80	80	80	80	80	80	80	80	80	90	U

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignments			Survey	Quiz	Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO5	CO4	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
C	80	54	62	75	55	118	119	122	123	123	115	119	122	122	122	59
%	65.57	44.26	51.67	62.5	45.83	95.93	96.75	99.19	100	100	93.5	96.75	99.19	99.19	99.19	47.97
L	1	0	0	1	0	3	3	3	3	3	3	3	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C306.1	C306.2	C306.3	C306.4	C306.5
Obtained %	94.24	91.05	93.87	91.75	91.01
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C306:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C306.1	1	3	-	-	3	1.8	0	0.72	3	1.18
C306.2	0	3	-	-	3	1.2	0	0.48	3	0.98
C306.3	0	3	-	-	3	1.2	0	0.48	3	0.98
C306.4	1	-	-	3	3	1.6	0	0.64	3	1.11
C306.5	0	-	3	-	3	0.9	0	0.36	3	0.89
<b>C306</b>										<b>1.03</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C306.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C306.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C306.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C306.4	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.2*Tutorial]
C306.5	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C306 = \frac{C306.1 + C306.2 + C306.3 + C306.4 + C306.5}{5} = 1.03$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6511 Control and Instrumentation Lab: C307**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	96	90	90		90	90		90	90		80	100		90	90	S
2	142308		90	90	80	90	90		90	90		90	90		90	90	A
3	142022		90	90		90	90	90	90	90		90	100		90	90	B
4	142112		85	90		75	90		80	90	82	75	90		70	90	B
5	142070		65	90		75	80		70	83		75	90	80	80	100	B
6	142306	72	75	80		65	75		73	88		65	100		75	100	B
7	142063		75	90	74	70	90		75	90		75	90		75	90	D
8	142301		90	90		90	90	98	90	90		80	90		90	90	S
9	142034		85	90		85	90		90	90	90	90	90		80	100	A
10	142040		75	90		65	90		75	90		80	90	73	80	80	C
11	142071	86	90	90		80	90		88	90		70	85		75	90	B
12	142101		85	90	97	90	90		90	90		85	80		85	85	S
13	142017		85	85		90	85	89	85	88		70	85		70	90	B
14	142045		90	90		85	90		88	90	96	90	85		75	90	A
15	142302		85	90		85	90		85	90		85	100	90	75	95	B
16	142072	75	75	85		80	90		68	83		75	85		75	90	C
17	142111		75	75	76	65	75		68	83		75	75		70	75	C
18	142059		85	90		85	90	96	88	90		80	95		70	95	S
19	142050		75	90		65	90		65	90	78	75	80		75	85	C
20	142309		80	90		85	90		85	90		80	85	96	85	95	S
21	142056	96	90	90		90	90		88	93		80	95		85	95	S
22	142058		75	90	89	75	90		75	90		75	80		85	90	C
23	142004	97	90	90		85	90		83	93		80	90		85	95	B
24	142106		75	90	96	75	90		73	90		75	80		80	90	S
25	142104		85	90		90	90	96	78	88		80	80		60	95	A
26	142011		75	90		85	90		85	90	95	80	95		75	90	A
27	142041		85	90		75	90		83	90		85	100	96	90	90	S
28	142024	88	75	90		70	90		78	90		75	90		70	90	A
29	142026		85	90	94	85	90		88	90		85	90		85	90	S
30	142008	98	85	90		90	90		90	93		80	95		95	100	S
31	142038		75	85		75	90	95	75	88		70	85		80	90	C
32	142032		95	95		95	95		95	93	96	70	90		70	90	S
33	152915		65	90		65	85		70	88		60	90	79	80	85	C
34	152923	80	65	90		60	85		63	88		70	90		75	90	D
35	152920		70	65	81	65	75		70	70		65	80		65	75	D
36	152922		90	90		90	90	80	90	90		90	90		90	90	B
37	152916		70	75		65	75		75	80	84	70	85		80	95	B
38	152901		75	65		75	75		73	73		80	90	70	70	85	D
39	152928	79	90	90		90	90		88	88		80	90		80	95	B
40	162401		90	90	78	90	90		90	90		90	90		90	90	A
41	162402		90	90		90	90		88	90	96	85	90		95	100	A
42	142001		85	85	95	90	90		85	88		70	70		70	80	S
43	142012		90	90		90	90	95	88	90		85	90		70	95	S
44	142057		90	90		90	90	96	88	90		90	90		75	90	S

45	142035	93	85	85		90	90		88	90		75	85		80	90	S
46	142047		90	85		85	85		80	88		80	85	95	70	85	A
47	142108		80	80	86	75	80		78	90		75	80		65	80	A
48	142013		90	90		90	90		73	90	95	85	90		60	90	S
49	142036		90	90		90	90		73	93	94	75	90		80	95	S
50	142031		80	90	88	90	90		80	90		80	90		65	90	S
51	142074		90	80		90	90		88	90		85	75	91	90	90	B
52	142044	97	90	85		85	80		90	90		85	90		80	85	A
53	142107		90	90		90	90		73	90	90	75	90		80	90	S
54	142029		80	85		85	90	94	70	90		65	90		75	90	A
55	142016		85	90		90	90		90	90	98	90	90		85	75	A
56	142051	94	90	90		90	90		78	93		85	90		80	95	S
57	142110		90	90	82	90	90		88	90		90	90		90	90	S
58	142066		85	85		75	90		80	83		75	75	95	70	80	B
59	142073		85	90		90	90	90	88	90		55	90		80	90	S
60	142027	76	85	85		80	90		83	90		75	75		70	80	A
61	142067	95	60	70		70	65		70	60		65	55		65	55	B
62	142030		80	85		90	85		88	90	92	80	90		85	90	S
63	142061		60	60	84	60	75		53	68		65	70		60	70	D
64	142037		85	90	92	90	85		90	90		85	85		85	90	S
65	142064		90	85		85	90	93	83	90		85	85		80	90	S
66	142010	93	90	90		80	85		85	90		90	90		70	90	S
67	142025	91	85	90		90	75		88	88		80	80		85	75	S
68	142303		90	85		90	80		90	88		85	85	96	80	80	S
69	142039		90	90		85	90		88	90	98	85	85		90	90	S
70	142020		80	75	85	70	75		70	75		75	75		75	70	S
71	142028		90	90		85	90		90	90	96	85	85		85	90	S
72	142042		90	80		80	80	97	75	58		80	50		70	50	A
73	142048	90	85	90		90	90		83	90		90	90		70	80	A
74	152921		85	70		90	75		85	73		85	85	90	85	90	A
75	152912		80	70		75	70	88	70	75		75	75		65	80	B
76	152919		60	70	80	65	70		68	73		75	75		70	60	C
77	152905		75	80		70	80		65	75	86	65	65		70	75	A
78	152925		60	65		70	70		68	70		55	55	80	55	55	C
79	152910	91	70	80		80	70		75	78		75	75		75	75	B
80	152924		65	60	88	75	60		73	55		50	50		75	55	S
81	152902	86	80	85		70	75		83	78		70	75		80	75	C
82	142003		95	90	92	90	90		95	95		100	100		95	100	S
83	142068	90	90	90		95	90		93	88		90	90		90	90	A
84	142053		90	90	96	100	85		95	90		100	95		95	95	S
85	142007		90	95		90	95	90	93	90		95	85		90	95	S
86	142305		90	100		90	90		95	95	90	90	90		90	90	S
87	142307	92	90	90		90	90		90	95		90	90		95	90	B
88	142023		90	90		95	85		90	88		95	90	92	85	90	S
89	142055		90	90		90	90	92	90	90		95	90		100	90	A
90	142046		90	90	96	90	90		93	83		95	85		90	80	S
91	142052		90	90		90	85		93	95	90	90	85		90	90	S
92	142103		90	90		95	90		93	88		90	80	94	100	95	S
93	142021	96	95	100		95	90		95	93		90	90		95	90	S
94	142018		90	90		95	100	92	93	85		90	90		90	90	S

95	142043		90	95	92	95	80		95	93		90	85		100	90	A
96	142065		90	90		90	90		95	90	92	90	90		90	90	A
97	142060	94	90	95		95	85		93	90		90	90		95	90	S
98	142006		90	90		100	85		93	93		90	85	94	90	90	S
99	142304		90	90		95	90		93	90		90	90	94	95	90	A
100	142014		90	90	90	100	85		95	93		90	90		90	90	S
101	142015		95	90		100	100	92	93	100		95	90		95	90	S
102	142069		90	90		95	85		95	85	90	90	85		90	90	A
103	142054		85	85		90	90	92	88	90		85	85		85	90	B
104	142062		90	90	90	90	90		90	90		90	90		90	90	S
105	142019		95	90		95	90		95	90	90	95	100		95	100	S
106	142005		90	85		90	90	94	90	90		90	90		90	90	S
107	142033	95	90	90		90	85		90	80		90	75		90	80	S
108	142105		90	85		85	85		88	90		85	85	92	90	90	S
109	142002	92	90	90		90	85		85	90		95	90		85	90	S
110	142102		100	90	90	95	90		90	90		95	85		95	90	A
111	142311		100	90		90	85		90	88	90	90	85		90	90	S
112	142310		90	90		95	90	94	93	90		90	85		90	90	S
113	142109		85	90		90	90		90	90		90	90	92	85	90	A
114	152909	90	90	80		85	80		88	85		90	90		85	90	A
115	152918		90	85		85	80	90	90	83		90	85		85	85	A
116	152911		85	90		80	85		88	83	92	90	90		90	85	C
117	152904		90	90	90	90	90		88	90		95	90		85	90	S
118	152908	92	85	80		80	85		88	85		85	90		85	80	A
119	152913		90	80	90	90	80		88	85		85	90		80	85	A
120	152917		85	80		85	85	92	90	85		85	80		85	90	C
121	152906		85	90		90	85		90	80	90	85	80		85	85	C
122	152914		90	85		85	80		88	83		85	90	92	80	85	C
123	152927		85	90	90	90	80		90	80		85	85		85	85	C

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record $\geq A(9)$ grade in AU   L – Level   C- Count   P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	28	123	123	28	123	123	23	123	123	24	123	123	20	123	123	123
C	24	115	111	25	113	107	23	115	109	23	113	106	17	114	109	123
%	86	93.5	90.24	89.29	91.87	86.99	100	93.5	88.62	95.83	91.87	86.18	85	92.68	88.62	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

Survey	C307.1	C307.2	C307.3	C307.4	C307.5
<b>Obtained %</b>	<b>92.24</b>	<b>89.18</b>	<b>89.54</b>	<b>89.77</b>	<b>88.26</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C307:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C307.1	3	3	3	3	3	3	3	3
C307.2	3	3	3	3	3	3	3	3
C307.3	3	3	3	3	3	3	3	3
C307.4	3	3	3	3	3	3	3	3
C307.5	3	3	3	3	3	3	3	3
C307								<b>3</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C307.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C307.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C307.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C307.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C307.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C307 = \frac{C307.1 + C307.2 + C307.3 + C307.4 + C307.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE 6674 – Communication and Soft Skills Lab: C308**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	89	90	100	89	90	80	89	100	100	89	100	80	89	100	100	A
2	142308	87	90	90	87	90	90	87	90	100	87	90	100	87	90	100	A
3	142022	86	100	80	86	80	90	86	80	100	86	100	90	86	100	90	A
4	142112	83	100	100	83	80	100	83	90	80	83	90	100	83	100	80	A
5	142070	84	100	100	84	90	90	84	100	100	84	90	90	84	100	100	A
6	142306	86	80	100	86	100	80	86	100	100	86	100	80	86	100	100	A
7	142063	87	80	100	87	100	80	87	90	100	87	90	80	87	100	100	A
8	142301	84	80	80	84	90	80	84	100	100	84	100	100	84	100	90	B
9	142034	86	100	100	86	80	80	86	100	100	86	100	80	86	100	100	A
10	142040	87	80	100	87	100	80	87	100	100	87	100	80	87	100	100	A
11	142071	85	100	100	85	90	100	85	100	80	85	100	100	85	100	80	B
12	142101	93	100	90	93	80	100	93	100	100	93	100	90	93	100	80	S
13	142017	89	90	100	89	100	80	89	90	100	89	100	90	89	100	100	A
14	142045	84	80	100	84	100	90	84	100	80	84	100	100	84	100	80	A
15	142302	87	100	90	87	90	100	87	100	100	87	100	90	87	100	90	A
16	142072	88	100	90	88	90	100	88	100	100	88	100	90	88	100	100	A
17	142111	94	100	90	94	100	100	94	80	100	94	100	90	94	100	80	A
18	142059	93	90	100	93	100	90	93	100	100	93	80	100	93	80	100	S
19	142050	89	90	100	89	100	100	89	100	90	89	90	100	89	100	100	B
20	142309	94	100	100	94	90	90	94	90	100	94	100	100	94	100	90	S
21	142056	89	100	100	89	90	90	89	90	100	89	100	90	89	90	100	A
22	142058	90	100	90	90	100	100	90	100	100	90	100	100	90	100	100	A
23	142004	88	100	90	88	100	90	88	100	90	88	100	100	88	100	100	A
24	142106	96	90	100	96	100	90	96	90	100	96	100	100	96	100	90	S
25	142104	85	100	100	85	90	90	85	100	100	85	100	100	85	100	90	A
26	142011	93	90	100	93	100	100	93	100	90	93	100	90	93	100	100	S
27	142041	94	90	100	94	100	90	94	100	90	94	90	100	94	100	100	S
28	142024	86	100	90	86	100	90	86	100	90	86	100	100	86	100	100	A
29	142026	87	90	90	87	100	90	87	100	90	87	100	100	87	100	90	A
30	142008	88	90	100	88	90	90	88	100	90	88	100	100	88	100	100	A
31	142038	94	90	100	94	80	90	94	80	100	94	100	100	94	100	100	S
32	142032	93	100	100	93	80	90	93	90	100	93	100	80	93	100	100	S
33	152915	85	100	90	85	100	100	85	80	100	85	100	100	85	100	80	B
34	152923	91	100	90	91	100	100	91	100	100	91	100	90	91	100	90	A
35	152920	93	100	100	93	100	90	93	90	100	93	100	100	93	90	90	S
36	152922	92	90	90	92	100	100	92	100	100	92	90	90	92	100	100	A
37	152916	89	100	80	89	80	100	89	100	100	89	100	80	89	100	100	A
38	152901	87	100	90	87	100	100	87	100	90	87	100	90	87	100	90	B
39	152928	88	100	100	88	100	80	88	100	100	88	90	100	88	100	80	B
40	162401	93	100	100	93	90	100	93	100	90	93	100	100	93	100	100	S
41	162402	86	100	100	86	100	80	86	100	100	86	100	100	86	100	90	A
42	142001	92	90	90	92	100	100	92	90	100	92	90	90	92	90	90	A
43	142012	91	90	100	91	90	100	91	100	80	91	90	100	91	100	100	A
44	142057	88	80	90	88	100	100	88	80	100	88	90	100	88	100	100	A

45	142035	90	100	100	90	90	80	90	90	100	90	100	100	90	100	90	A
46	142047	91	100	100	91	90	100	91	90	90	91	100	100	91	100	100	A
47	142108	85	90	100	85	90	80	85	90	90	85	100	100	85	100	100	S
48	142013	88	100	80	88	90	90	88	100	100	88	90	100	88	100	90	A
49	142036	87	100	100	87	100	80	87	90	100	87	100	100	87	100	90	A
50	142031	82	100	90	82	90	100	82	100	90	82	100	100	82	90	100	A
51	142074	86	100	100	86	90	80	86	100	100	86	90	100	86	90	90	A
52	142044	83	100	100	83	90	100	83	100	80	83	90	90	83	90	100	A
53	142107	85	100	100	85	90	90	85	100	100	85	100	90	85	90	100	A
54	142029	84	80	100	84	100	90	84	80	100	84	100	80	84	80	100	A
55	142016	93	90	100	93	100	100	93	100	90	93	90	100	93	100	100	A
56	142051	86	100	100	86	100	90	86	90	100	86	90	100	86	100	90	S
57	142110	84	80	80	84	100	100	84	80	100	84	100	80	84	80	100	A
58	142066	83	90	80	83	90	90	83	100	100	83	90	90	83	100	100	A
59	142073	86	100	100	86	100	90	86	80	100	86	100	100	86	80	80	A
60	142027	84	90	90	84	100	100	84	100	90	84	90	90	84	100	100	A
61	142067	87	100	90	87	90	100	87	100	100	87	100	90	87	90	100	A
62	142030	87	100	100	87	100	90	87	90	100	87	100	100	87	90	90	A
63	142061	86	100	100	86	100	90	86	90	100	86	100	100	86	90	90	A
64	142037	84	90	100	84	100	90	84	100	100	84	90	90	84	90	100	A
65	142064	85	90	100	85	100	100	85	100	90	85	90	100	85	90	100	A
66	142010	88	100	100	88	80	90	88	80	80	88	90	100	88	100	80	A
67	142025	85	100	100	85	90	90	85	100	90	85	90	100	85	90	90	A
68	142303	89	100	100	89	90	100	89	100	90	89	100	100	89	90	100	A
69	142039	91	90	90	91	100	100	91	100	90	91	90	100	91	90	100	S
70	142020	84	90	80	84	100	90	84	90	100	84	90	90	84	100	100	A
71	142028	92	100	90	92	100	90	92	90	90	92	100	90	92	100	90	A
72	142042	84	100	100	84	80	90	84	100	100	84	80	100	84	100	80	B
73	142048	93	100	90	93	100	90	93	90	90	93	90	100	93	90	100	A
74	152921	84	80	100	84	100	100	84	100	80	84	80	100	84	100	100	A
75	152912	85	100	100	85	100	80	85	80	100	85	100	100	85	80	80	B
76	152919	84	100	100	84	80	80	84	100	100	84	80	80	84	100	100	A
77	152905	85	100	100	85	100	100	85	80	80	85	100	100	85	90	80	B
78	152925	86	100	100	86	100	90	86	80	100	86	100	100	86	90	80	B
79	152910	84	100	100	84	100	90	84	90	80	84	100	100	84	100	80	A
80	152924	84	80	100	84	100	90	84	90	80	84	90	100	84	100	100	A
81	152902	85	90	90	85	100	100	85	90	80	85	100	100	85	90	100	B
82	142003	96	80	100	96	100	100	96	100	90	96	80	100	96	80	100	S
83	142068	95	100	100	95	90	90	95	100	80	95	90	100	95	90	100	S
84	142053	85	100	80	85	90	100	85	100	100	85	100	90	85	90	100	A
85	142007	86	100	90	86	100	100	86	90	90	86	80	100	86	80	90	A
86	142305	92	100	90	92	100	80	92	80	100	92	90	100	92	100	80	A
87	142307	87	90	90	87	100	100	87	100	100	87	90	100	87	100	100	A
88	142023	96	90	100	96	90	100	96	100	90	96	100	100	96	90	100	S
89	142055	82	100	100	82	100	100	82	90	90	82	100	100	82	90	90	B
90	142046	96	100	100	96	100	90	96	90	100	96	100	100	96	100	90	A
91	142052	90	100	100	90	100	100	90	90	90	90	100	100	90	90	90	A
92	142103	88	100	90	88	90	100	88	100	100	88	90	90	88	90	100	A
93	142021	92	90	100	92	100	90	92	100	100	92	90	90	92	90	100	S
94	142018	88	90	80	88	100	100	88	100	100	88	90	90	88	90	100	A

95	142043	85	90	90	85	100	100	85	90	100	85	100	90	85	90	100	A
96	142065	84	100	80	84	90	90	84	100	100	84	100	90	84	90	90	A
97	142060	92	90	90	92	100	100	92	90	100	92	100	90	92	90	100	A
98	142006	92	90	90	92	100	100	92	90	90	92	90	100	92	90	100	A
99	142304	92	100	100	92	100	90	92	90	90	92	100	90	92	90	90	A
100	142014	92	90	100	92	90	90	92	90	100	92	100	90	92	100	100	S
101	142015	92	100	100	92	100	100	92	100	100	92	100	100	92	100	100	S
102	142069	85	90	90	85	100	100	85	100	90	85	90	100	85	90	100	A
103	142054	85	100	90	85	90	100	85	100	100	85	100	90	85	80	100	A
104	142062	96	100	100	96	80	90	96	100	100	96	90	80	96	100	100	S
105	142019	90	90	100	90	90	90	90	100	100	90	90	90	90	100	100	A
106	142005	92	90	100	92	90	100	92	100	90	92	90	100	92	90	100	A
107	142033	90	100	90	90	100	90	90	90	100	90	100	100	90	90	90	A
108	142105	89	90	100	89	100	100	89	90	80	89	100	100	89	90	100	A
109	142002	90	90	90	90	90	100	90	100	100	90	90	90	90	100	100	S
110	142102	92	90	80	92	90	100	92	100	100	92	100	80	92	90	90	A
111	142311	92	90	100	92	90	90	92	100	100	92	90	90	92	100	100	A
112	142310	90	90	100	90	100	100	90	90	90	90	90	100	90	100	100	A
113	142109	90	90	100	90	90	90	90	100	100	90	90	90	90	90	90	A
114	152909	95	90	100	95	90	90	95	100	100	95	90	90	95	100	100	A
115	152918	95	90	100	95	100	100	95	100	90	95	90	100	95	100	100	A
116	152911	82	100	100	82	90	80	82	100	100	82	90	100	82	90	80	A
117	152904	82	90	100	82	100	80	82	90	80	82	100	90	82	90	80	A
118	152908	80	100	80	80	100	90	80	80	100	80	100	90	80	80	80	B
119	152913	80	100	80	80	100	100	80	80	80	80	100	100	80	80	80	B
120	152917	80	100	80	80	80	100	80	100	100	80	80	80	80	100	100	B
121	152906	85	80	100	85	100	100	85	80	80	85	100	100	85	80	100	A
122	152914	85	80	80	85	80	100	85	80	80	85	80	80	85	80	100	A
123	152927	86	80	100	86	100	80	86	80	100	86	80	80	86	80	100	B

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record $\geq A(9)$ grade in AU   L – Level   C- Count   P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123
C	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123
%	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C308.1</b>	<b>C308.2</b>	<b>C308.3</b>	<b>C308.4</b>	<b>C308.5</b>
<b>Obtained %</b>	<b>90.91</b>	<b>92.81</b>	<b>90.49</b>	<b>91.7</b>	<b>90.53</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C308:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C308.1	3	3	3	3	3	3	3	3
C308.2	3	3	3	3	3	3	3	3
C308.3	3	3	3	3	3	3	3	3
C308.4	3	3	3	3	3	3	3	3
C308.5	3	3	3	3	3	3	3	3
C308								<b>3</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C308.1	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C308.2	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C308.3	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C308.4	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]
C308.5	AU Exam	[0.6*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C308 = \frac{C308.1 + C308.2 + C308.3 + C308.4 + C308.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6512 Electrical Machines II Lab: C309**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009		70	98		90	90		100	100	99	97	100		97	97	B
2	142308		60	80		60	85	85	60	90		60	83		60	87	A
3	142022		70	98		70	95		70	100	85	80	87		70	93	A
4	142112		70	90		70	70		70	80		70	80	85	70	87	S
5	142070	80	60	80		60	100		70	70		67	70		67	67	C
6	142306		83	75		90	100		90	90	90	80	83		87	67	C
7	142063	80	75	75		75	80		60	60		70	67		60	77	B
8	142301		97	95		90	90		100	100		97	100	99	97	93	S
9	142034	99	90	98		90	95		90	90		93	93		97	97	A
10	142040	89	80	93		80	95		70	90		87	87		70	100	B
11	142071		67	90		100	100		100	100	99	80	93		100	97	A
12	142101		85	93	99	90	90		80	90		97	100		90	87	S
13	142017		90	83		75	70		80	80	99	83	87		80	87	A
14	142045		90	95		90	100		100	100	99	90	93		93	93	S
15	142302	99	83	95		95	100		100	100		80	97		99	90	B
16	142072		60	85	80	60	60		60	60		60	83		60	70	B
17	142111		60	73		60	85		60	80	80	60	73		60	80	C
18	142059	99	97	93		90	95		100	100		97	100		97	93	S
19	142050		77	65		65	80		60	100		97	93	80	60	67	B
20	142309		97	98	99	90	95		100	100		80	100		97	93	S
21	142056	99	90	93		90	90		90	90		97	90		90	90	S
22	142058		70	70		70	80		70	90	80	67	87		60	87	A
23	142004		90	93		90	95		90	100	99	90	93		90	90	S
24	142106		85	85		80	90		80	90		73	87	99	60	80	S
25	142104		85	73		80	80		80	90	95	73	90		60	83	S
26	142011	99	87	88		85	100		90	90		90	83		90	80	S
27	142041		90	85	99	90	90		80	90		87	83		90	80	S
28	142024		80	75		70	85		80	90		77	77	85	80	60	S
29	142026		90	85	99	75	90		90	90		90	87		90	77	S
30	142008	99	90	90		90	95		90	100		90	97		90	90	S
31	142038		67	70		90	80		90	70		83	53	80	77	70	S
32	142032		67	88		90	90		90	90	99	73	90		60	83	S
33	152915		73	80		85	90		80	90		80	80	80	73	60	B
34	152923	85	67	73		90	90		80	90		73	87		60	67	B
35	152920	75	0	0		0	0		0	0		0	0		0	0	UA
36	152922		67	23		60	85	89	60	80		63	77		70	67	A
37	152916		87	85		85	90		80	100	99	90	93		90	93	S
38	152901		53	75		55	85		40	70		57	70	75	43	70	B
39	152928		80	65	90	80	80		80	90		80	80		80	80	S
40	162401		75	65		90	60		90	60		83	60	85	90	60	S
41	162402	99	75	73		90	95		90	100		83	83		70	83	S
42	142001		60	90		49	90		93	90		97	87	98	90	60	S
43	142012		75	100	98	0	100		98	100		100	100		100	100	S
44	142057		71	95		49	100		95	100	98	97	97		98	90	S

45	142035		98	95		0	90	98	95	90		94	97		92	100	S
46	142047	98	73	98		0	90		90	90		97	97		93	100	S
47	142108		65	90	95	0	95		85	90		91	83		92	93	S
48	142013	98	71	95		0	100		93	100		97	97		98	90	S
49	142036		71	93		49	100		93	100	97	97	97		98	90	S
50	142031		94	93		0	90	98	98	90		100	90		91	100	S
51	142074		69	93		49	90		95	90		87	90	98	91	97	S
52	142044	98	75	100		0	100		100	100		100	100		100	100	S
53	142107		68	93	98	0	90		90	90		90	90		91	90	S
54	142029		68	93		48	85		90	90	95	89	93		89	87	A
55	142016		94	100		0	100	95	88	100		98	100		100	87	S
56	142051		100	100		0	100	98	100	100		100	100		100	100	S
57	142110		67	90		48	85		90	90		85	87	95	88	90	S
58	142066		75	100	98	0	100		100	100		100	100		100	100	A
59	142073		68	90		49	90		93	90	98	90	90		90	90	S
60	142027		67	85		48	80		85	90		87	87	95	85	90	S
61	142067	98	70	95		0	100		95	100		100	93		98	93	S
62	142030	98	63	85		0	80		88	80		85	83		82	80	S
63	142061		61	83	80	0	80		83	80		80	83		81	80	C
64	142037		68	90		47	90		93	90		93	90	94	90	90	S
65	142064	90	62	85		0	80		65	80		82	87		82	80	S
66	142010		61	83	92	0	80		80	80		83	80		81	80	S
67	142025		84	85		0	70	98	85	70		81	80		75	77	S
68	142303	98	58	85		0	90		85	90		83	80		88	73	S
69	142039		90	88		0	90	98	93	90		96	83		89	87	S
70	142020		64	85		49	90		83	90		87	87	98	88	80	S
71	142028	95	64	85		0	90		85	90		87	87		88	80	S
72	142042		63	80		49	80		80	90	98	81	87		83	80	S
73	142048		64	83		48	95		85	90	95	86	83		89	80	S
74	152921		63	83	98	0	80		83	80		79	83		81	80	A
75	152912		84	85		0	85	90	85	80		81	83		83	80	B
76	152919		61	83		46	80		85	80	92	80	83		81	80	C
77	152905		61	83		49	80		85	80		80	83	98	81	80	B
78	152925	92	61	83		0	80		83	80		80	83		81	80	B
79	152910		60	83	98	0	85		83	90		80	80		86	80	A
80	152924		82	83		0	80	98	83	70		78	77		78	80	B
81	152902		58	75		49	70		83	70	98	87	73		72	73	S
82	142003		100	100	99	100	100		100	100		100	100		100	100	S
83	142068		100	100		100	100		100	100	90	100	100		100	100	S
84	142053		100	100		100	100	94	100	100		100	100		100	100	S
85	142007		90	90		85	85	90	90	90		93	93		97	97	S
86	142305	90	100	100		100	100		100	100		100	100		100	100	S
87	142307		100	100		100	100		100	100	91	100	100		100	100	S
88	142023		90	90		85	85	91	90	90		90	90		93	93	S
89	142055	91	95	95		90	90		100	100		100	100		100	100	S
90	142046		100	100		80	80		90	90		90	90	97	97	97	S
91	142052		95	95	90	90	90		100	100		100	100		100	100	S
92	142103		90	90		90	90		90	90	92	93	93		97	97	S
93	142021		100	100		100	100		90	90		97	97	97	100	100	S
94	142018		95	95	92	85	85		90	90		90	90		93	93	S

95	142043	91	90	90		90	90		80	80		90	90		93	93	S
96	142065		95	95		100	100	90	100	100		93	93		100	100	A
97	142060		90	90		90	90		90	90		93	93	91	93	93	S
98	142006	93	90	90		100	100		90	90		93	93		97	97	S
99	142304		95	95	93	95	95		90	90		93	93		93	93	S
100	142014		100	100		100	100	91	90	90		97	97		100	100	S
101	142015	99	100	100		100	100		100	100		100	100		100	100	S
102	142069		100	100		100	100		90	90		90	90	90	93	93	B
103	142054		95	95		100	100		100	100	92	97	97		100	100	A
104	142062		95	95		100	100	94	100	100		100	100		100	100	S
105	142019	95	100	100		100	100		100	100		100	100		100	100	S
106	142005		95	95		95	95		100	100		100	100	95	100	100	S
107	142033		95	95		100	100		100	100		97	97	95	100	100	S
108	142105		95	95	92	85	85		80	80		90	90		97	97	S
109	142002		95	95		90	90		90	90	93	93	93		100	100	S
110	142102		95	95		100	100	91	100	100		97	97		93	93	S
111	142311	91	95	95		90	90		100	100		100	100		100	100	S
112	142310		95	95		95	95	93	100	100		90	90		97	97	S
113	142109		90	90		100	100		100	100	91	90	90		100	100	A
114	152909		95	95	90	90	90		90	90		93	93		100	100	S
115	152918		95	95		85	85		90	90		93	93	91	97	97	A
116	152911	91	90	90		85	85		90	90		90	90		97	97	A
117	152904		90	90		85	85		100	100	93	97	97		97	97	S
118	152908		90	90	91	85	85		90	90		87	87		93	93	A
119	152913		90	90		85	85		90	90		90	90	92	93	93	C
120	152917	93	90	90		90	90		90	90		90	90		100	100	B
121	152906		90	90		90	90	91	80	80		83	83		90	90	S
122	152914		85	85		80	80		80	80	92	77	77		93	93	A
123	152927		90	90	91	90	90		90	90		93	93		100	100	A

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record $\geq A(9)$ grade in AU   L – Level   C- Count   P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	30	123	123	22	123	123	19	123	123	28	123	123	24	123	123	123
C	29	87	107	22	75	116	19	114	113	28	115	111	23	110	105	122
%	97	70.73	86.99	100	60.98	94.31	100	92.68	91.87	100	93.5	90.24	95.83	89.43	85.37	99.19
L	3	2	3	3	1	3	3	3	3	3	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C309.1</b>	<b>C309.2</b>	<b>C309.3</b>	<b>C309.4</b>	<b>C309.5</b>
<b>Obtained %</b>	<b>94.94</b>	<b>91.97</b>	<b>91.79</b>	<b>90.9</b>	<b>92.2</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C309:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C309.1	3	2	3	2.8	3	2.92	3	2.936
C309.2	3	1	3	2.6	3	2.84	3	2.872
C309.3	3	3	3	3	3	3	3	3
C309.4	3	3	3	3	3	3	3	3
C309.5	3	3	3	3	3	3	3	3
C309								<b>2.96</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C309.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C309.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C309.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C309.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C309.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C309 = \frac{C309.1 + C309.2 + C309.3 + C309.4 + C309.5}{5} = 2.96$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EC6651 Communication Engineering: C310**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO3	CO5	CO4	CO5	CO1	CO2	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	142009	96	52	98	96	98	100	100	100	90	90	90	100	C
2	142308	56	30	60	68	50	100	100	100	90	90	90	90	E
3	142022	76	58	86	72	50	100	100	100	80	90	90	0	E
4	142112	56	56	70	74	50	100	100	100	60	90	90	90	E
5	142070	0	36	64	4	4	100	100	100	90	90	90	90	U
6	142306	A	14	52	56	34	100	100	100	90	90	90	30	U
7	142063	32	22	50	60	30	100	100	100	90	90	90	100	E
8	142301	96	80	98	96	96	100	100	100	90	90	90	100	C
9	142034	96	70	80	78	28	100	100	100	80	90	90	100	D
10	142040	44	40	50	10	18	100	100	100	90	90	90	100	E
11	142071	96	A	98	76	A	100	100	100	90	90	90	100	D
12	142101	96	62	98	94	52	100	100	100	90	90	90	50	C
13	142017	96	96	96	96	50	100	100	100	90	90	90	40	C
14	142045	96	98	98	96	78	100	100	100	80	90	90	100	D
15	142302	96	74	92	80	A	100	100	100	90	90	90	10	D
16	142072	46	22	56	A	42	100	100	100	60	90	90	30	U
17	142111	80	50	58	58	58	100	100	100	50	90	90	90	U
18	142059	96	92	98	94	96	100	100	100	90	90	90	100	D
19	142050	84	40	98	38	68	100	100	100	90	90	90	30	C
20	142309	96	72	98	88	92	100	100	100	80	90	90	100	C
21	142056	96	88	90	96	92	100	100	100	70	90	90	100	C
22	142058	92	34	84	84	40	100	100	100	80	90	90	100	E
23	142004	84	50	82	60	62	100	100	100	70	90	90	30	D
24	142106	96	90	96	88	92	100	100	100	10	90	90	100	E
25	142104	86	52	96	72	30	100	100	100	90	90	90	0	U
26	142011	32	80	94	94	52	100	100	100	50	90	90	100	E
27	142041	96	10	74	8	68	100	100	100	80	90	90	0	C
28	142024	92	56	92	74	42	100	100	100	90	90	90	0	E
29	142026	96	68	98	76	96	100	100	100	80	90	90	0	A
30	142008	96	98	98	98	96	100	100	100	10	90	90	50	C
31	142038	96	66	92	70	38	100	100	100	60	90	90	30	D
32	142032	96	72	94	86	88	100	100	100	90	90	90	100	D
33	152915	80	50	76	50	52	100	100	100	70	90	90	0	E
34	152923	28	20	68	22	32	100	100	100	80	90	90	0	U
35	152920	0	0	50	10	4	100	100	100	90	90	90	0	E
36	152922	24	14	60	18	50	100	100	100	70	90	90	0	E
37	152916	80	26	56	58	8	100	100	100	90	90	90	0	U
38	152901	0	0	A	4	6	100	100	100	90	90	90	0	U
39	152928	52	26	98	20	32	100	100	100	80	90	90	10	E
40	162401	20	8	98	20	4	100	100	100	90	90	90	0	E
41	162402	96	58	98	92	88	100	100	100	100	90	90	10	D
42	142001	92	58	96	40	84	60	50	50	90	80	90	90	C
43	142012	88	70	94	84	83	100	100	100	80	90	80	100	C
44	142057	86	91	92	46	76	100	100	100	85	95	90	80	D
45	142035	72	65	83	22	18	60	50	60	0	0	90	100	B

46	142047	66	59	80	56	78	60	50	60	90	90	100	40	E
47	142108	8	a	a	32	32	60	80	80	75	80	70	40	E
48	142013	72	70	94	74	72	100	100	100	80	85	60	80	C
49	142036	72	68	92	56	75	80	100	100	80	85	60	100	E
50	142031	78	78	96	86	78	80	100	100	85	85	90	100	C
51	142074	84	a	70	20	58	70	100	100	80	90	100	100	E
52	142044	84	a	92	76	50	60	50	60	80	90	60	60	E
53	142107	76	62	86	68	74	100	100	100	85	90	70	100	C
54	142029	68	35	57	40	52	60	90	80	0	0	60	100	E
55	142016	56	42	80	42	50	60	80	80	85	90	70	40	E
56	142051	84	87	95	82	84	100	100	100	90	90	100	90	A
57	142110	92	67	70	76	72	60	100	100	80	85	80	50	A
58	142066	58	28	78	28	42	70	80	80	85	90	50	60	D
59	142073	68	71	81	76	88	60	100	100	85	90	60	50	C
60	142027	76	37	64	62	18	60	90	80	100	100	50	30	D
61	142067	42	16	66	6	13	60	90	80	0	0	50	30	E
62	142030	88	80	90	78	84	100	100	100	75	80	90	60	C
63	142061	10	19	24	a	6	60	50	50	0	0	0	0	U
64	142037	92	93	96	78	32	100	70	80	85	90	100	0	C
65	142064	92	59	44	68	a	80	70	80	90	90	90	0	C
66	142010	96	88	94	96	88	80	100	100	80	90	90	90	C
67	142025	92	65	88	96	76	60	50	60	90	90	90	30	C
68	142303	68	50	88	45	40	80	50	60	65	70	70	100	E
69	142039	86	77	94	74	88	100	100	100	85	85	90	100	C
70	142020	78	53	78	72	50	80	50	70	80	85	70	0	D
71	142028	74	63	88	78	66	80	50	70	80	85	80	0	C
72	142042	50	28	58	4	10	60	50	70	50	70	70	0	U
73	142048	82	67	92	58	56	100	90	90	80	80	70	60	E
74	152921	50	71	42	14	28	60	90	80	50	60	70	0	E
75	152912	52	58	71	32	44	60	50	60	50	60	0	100	E
76	152919	0	4	a	4	18	70	50	60	0	0	70	10	U
77	152905	24	21	62	20	6	60	50	60	0	0	70	80	E
78	152925	20	12	44	22	20	60	90	80	0	0	70	0	U
79	152910	56	36	62	42	50	60	50	60	50	60	70	0	E
80	152903	a	a	a	a	a	a	a	a	a	a	a	a	UA
81	152924	30	35	55	46	64	60	50	60	0	0	60	0	E
82	152902	60	2	56	54	24	80	80	80	60	70	60	0	E
83	142003	96	92	94	60	64	100	100	90	95	80	90	60	B
84	142068	88	53	90	66	76	100	80	90	80	80	0	90	A
85	142053	82	64	a	50	55	100	80	80	80	90	90	100	B
86	142007	52	50	96	20	55	80	50	90	0	80	70	0	E
87	142305	88	50	87	80	74	80	100	90	85	80	0	0	C
88	142307	72	50	88	58	55	80	90	80	0	80	80	0	B
89	142023	76	24	76	70	66	60	50	80	95	90	80	50	C
90	142055	78	56	89	76	70	80	50	70	85	90	90	100	C
91	142046	38	28	45	28	26	80	50	70	80	90	60	0	E
92	142052	64	56	85	44	68	80	50	80	85	50	90	0	C
93	142103	66	26	71	44	50	70	60	80	80	60	50	30	D
94	142021	92	86	94	92	90	100	90	90	95	70	90	20	S
95	142018	86	54	60	60	53	80	80	90	90	90	90	60	C

96	142043	84	50	74	54	66	60	60	90	0	85	50	0	C
97	142065	50	57	80	22	45	100	90	90	80	80	80	100	E
98	142060	56	70	88	a	66	70	70	90	60	70	50	0	E
99	142006	96	62	90	30	72	60	70	90	85	70	90	100	C
100	142304	30	44	80	42	10	80	70	90	60	90	50	20	E
101	142014	88	70	94	70	56	80	100	100	100	50	90	0	C
102	142015	96	85	74	90	a	100	100	80	100	90	100	40	C
103	142069	38	18	62	56	28	80	70	50	60	50	50	0	E
104	142054	36	23	52	38	32	60	70	90	60	50	50	0	E
105	142062	96	63	92	a	64	100	100	90	90	90	50	0	C
106	142019	92	74	92	70	78	100	100	80	90	90	50	20	C
107	142005	92	76	94	76	81	80	80	80	90	90	90	0	B
108	142033	96	72	94	84	90	90	100	80	90	90	90	0	B
109	142105	48	21	72	44	a	70	50	80	50	50	50	0	D
110	142002	92	62	94	86	84	60	80	80	90	90	90	0	C
111	142102	92	52	74	66	a	100	100	80	90	80	90	0	D
112	142311	86	50	76	56	66	100	100	90	80	60	70	0	D
113	142310	84	77	88	72	77	100	90	80	80	80	70	0	C
114	142109	52	50	86	52	56	70	50	90	50	50	70	0	E
115	152909	72	55	16	58	53	100	50	80	70	70	90	0	E
116	152918	62	26	60	26	42	60	80	90	60	50	50	0	U
117	152911	32	26	44	22	16	60	50	90	50	50	50	0	E
118	152904	88	54	87	60	64	80	50	100	80	80	90	0	D
119	152908	56	23	42	40	24	60	80	70	60	50	90	0	E
120	152913	44	34	54	38	26	60	50	70	50	50	60	0	U
121	152917	28	21	6	42	65	80	50	70	50	50	50	0	E
122	152906	68	47	45	50	60	80	50	80	70	60	90	0	E
123	152914	24	12	14	18	29	100	50	70	50	60	50	0	U
124	152927	28	8	34	52	50	100	50	80	50	60	50	0	U

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU   L – Level, C-Count													
	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO3	CO5	CO4	CO5	CO1	CO2	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
C	81	46	94	59	51	87	84	101	87	96	93	39	46
%	66.39	38.66	78.99	49.58	43.59	70.73	68.29	82.11	70.73	78.05	75.61	31.71	37.4
L	1	0	2	0	0	2	1	3	2	2	2	0	0

#### **Attainment Calculation:**

#### **Survey:**

Survey	C310.1	C310.2	C310.3	C310.4	C310.5
Obtained %	92.95	91.85	93.98	94.43	93.29
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C310:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C310.1	1	2	-	2		1.3	0	0.52	3	1.02
C310.2	0	-	-	0		0	0	0	3	0.6
C310.3	2	1	-	-		1.7	0	0.68	3	1.14
C310.4	0	-	2	-		0.4	0	0.16	3	0.73
C310.5	0	3	2	-		0.8	0	0.32	3	0.86
<b>C310</b>										<b>0.87</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C310.1	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C310.2	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C310.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C310.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C310.5	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C310 = \frac{C310.1 + C310.2 + C310.3 + C310.4 + C310.5}{5} = 0.87$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6601 Solid State Drives: C311**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment				Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO3	CO4	CO3	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	S1	S2	Q1	Q2	
1	142009	92	80	66	94	96	100	100	100	100	100	100	100	100	C
2	142308	64	50	22	50	52	100	100	100	100	100	100	100	100	U
3	142022	64	50	52	76	50	100	100	100	100	100	100	100	100	D
4	142112	52	72	60	88	26	100	100	100	100	100	100	100	100	C
5	142070	32	62	6	50	8	100	100	100	100	100	100	100	100	E
6	142306	36	52	52	32	12	100	100	100	100	100	100	100	100	E
7	142063	56	36	22	32	16	100	100	100	100	100	100	100	100	D
8	142301	92	84	86	96	90	100	100	100	100	100	100	100	100	C
9	142034	80	86	84	68	52	100	100	100	100	100	100	100	100	B
10	142040	36	56	20	36	6	100	100	100	100	100	100	100	100	C
11	142071	0	80	82	94	0	100	100	100	100	100	100	100	100	C
12	142101	92	90	82	90	50	100	100	100	100	100	100	100	100	B
13	142017	76	86	96	88	50	100	100	100	100	100	100	100	100	D
14	142045	92	74	94	92	76	100	100	100	100	100	100	100	100	C
15	142302	72	80	50	90	0	100	100	100	100	100	100	100	100	D
16	142072	52	50	50	42	52	100	100	100	100	100	100	100	100	U
17	142111	68	52	34	56	24	100	100	100	100	100	100	100	100	U
18	142059	84	90	92	98	98	100	100	100	100	100	100	100	100	B
19	142050	52	72	62	62	16	100	100	100	100	100	100	100	100	E
20	142309	96	96	84	98	86	100	100	100	100	100	100	100	100	A
21	142056	96	82	72	96	88	100	100	100	100	100	100	100	100	C
22	142058	52	76	64	82	60	100	100	100	100	100	100	100	100	E
23	142004	80	52	50	60	50	100	100	100	100	100	100	100	100	D
24	142106	96	82	84	96	96	100	100	100	100	100	100	100	100	C
25	142104	76	62	52	76	60	100	100	100	100	100	100	100	100	D
26	142011	76	78	64	86	52	100	100	100	100	100	100	100	100	D
27	142041	52	50	58	68	50	100	100	100	100	100	100	100	100	D
28	142024	56	50	50	0	60	100	100	100	100	100	100	100	100	C
29	142026	88	62	62	92	84	100	100	100	100	100	100	100	100	C
30	142008	100	96	98	98	98	100	100	100	100	100	100	100	100	B
31	142038	64	28	24	54	52	100	100	100	100	100	100	100	100	C
32	142032	92	82	90	82	86	100	100	100	100	100	100	100	100	C
33	152915	50	60	50	72	50	100	100	100	100	100	100	100	100	E
34	152923	28	40	30	68	56	100	100	100	100	100	100	100	100	U
35	152920	12	50	6	18	20	100	100	100	100	100	100	100	100	U
36	152922	8	56	50	52	52	100	100	100	100	100	100	100	100	E
37	152916	50	62	52	76	60	100	100	100	100	100	100	100	100	U
38	152901	0	16	0	10	0	100	100	100	100	100	100	100	100	E
39	152928	28	66	66	76	54	100	100	100	100	100	100	100	100	D
40	162401	40	50	0	82	50	100	100	100	100	100	100	100	100	E
41	162402	88	88	86	94	98	100	100	100	100	100	100	100	100	B
42	142001	52	50	76	76	82	90	80	90	90	100	90	100	60	C
43	142012	84	82	80	78	82	90	90	90	90	100	90	100	100	C
44	142057	96	64	64	80	84	90	90	90	90	100	90	100	40	C
45	142035	80	52	60	52	34	90	80	80	80	100	80	100	100	D

46	142047	52	60	68	54	78	90	80	80	80	100	80	100	100	D
47	142108	20	A	30	64	54	90	80	80	80	100	70	100	100	E
48	142013	64	68	80	78	82	90	90	90	90	100	90	100	60	B
49	142036	68	74	60	66	78	90	90	90	90	100	90	60	100	B
50	142067	72	74	74	76	A	90	90	90	90	100	80	100	100	D
51	142031	68	A	66	66	60	90	80	80	80	0	80	80	100	U
52	142074	92	A	72	76	82	90	80	80	80	100	80	100	100	E
53	142044	80	76	68	74	84	90	90	90	90	100	90	100	100	C
54	142107	64	58	40	38	38	90	80	80	80	0	70	100	100	U
55	142029	56	38	62	66	46	90	80	80	80	100	80	40	100	D
56	142016	88	72	82	78	82	90	80	90	90	100	90	100	0	C
57	142051	72	62	A	76	86	100	100	80	80	100	90	100	100	D
58	142110	32	30	14	34	24	90	80	80	80	100	70	80	100	E
59	142066	80	74	64	70	80	90	100	100	100	100	80	100	100	C
60	142073	24	62	44	62	36	90	100	80	80	100	80	100	100	E
61	142027	36	34	44	62	24	90	80	80	80	0	70	20	100	E
62	142030	52	78	76	78	82	100	90	90	90	100	80	80	40	C
63	142061	A	0	52	2	2	90	80	80	80	100	70	100	100	UA
64	142037	88	74	72	78	80	100	90	90	90	100	80	100	60	C
65	142064	72	64	A	72	66	100	90	90	90	0	80	80	80	C
66	142010	88	64	84	80	82	100	90	90	90	100	90	100	100	B
67	142025	60	64	70	74	74	90	80	80	80	0	80	100	100	E
68	142303	64	A	60	58	58	90	80	80	80	100	80	100	60	E
69	142039	64	74	82	72	84	100	90	90	90	100	90	100	100	C
70	142020	56	56	76	72	70	90	80	80	80	100	80	100	100	D
71	142028	80	66	52	70	74	90	100	80	80	100	90	100	100	E
72	142042	72	34	20	8	48	90	80	80	80	100	70	100	100	U
73	142048	52	64	60	74	70	100	90	90	90	100	80	100	100	E
74	152921	32	24	50	62	58	90	80	80	80	100	80	100	100	E
75	152912	72	70	64	76	56	90	80	80	80	100	80	100	100	E
76	152919	24	8	6	14	18	90	80	80	80	100	70	100	100	D
77	152905	52	50	62	50	80	90	80	80	80	100	70	100	100	C
78	152925	20	34	36	28	44	90	80	80	80	100	70	80	100	E
79	152910	68	70	56	64	52	90	80	80	80	100	80	100	100	E
80	152924	60	44	36	64	72	90	80	80	80	100	80	100	100	E
81	152902	68	64	66	18	72	90	100	80	80	100	70	80	60	U
82	142003	96	92	84	88	88	100	100	100	100	100	100	80	100	C
83	142068	64	70	90	90	86	100	100	100	100	80	90	60	100	C
84	142053	96	68	A	70	74	100	100	100	100	90	80	100	100	D
85	142007	52	58	74	38	40	70	100	90	90	80	90	100	60	D
86	142305	A	54	50	86	85	100	100	100	100	80	80	80	60	C
87	142307	72	80	82	86	80	100	100	100	100	80	90	80	60	C
88	142023	76	30	84	76	78	70	80	90	90	100	100	80	100	C
89	142055	76	72	80	70	80	100	80	90	90	100	100	100	100	B
90	142046	20	42	50	38	34	80	90	80	80	70	80	20	100	E
91	142052	96	50	78	88	86	80	80	80	80	90	90	100	60	B
92	142103	56	52	66	22	78	80	80	70	70	90	80	20	100	C
93	142021	92	88	82	84	86	100	100	100	100	100	100	100	100	B
94	142018	72	54	70	56	76	90	100	90	90	90	90	40	60	D
95	142043	92	74	74	70	70	80	60	70	70	80	80	40	100	C

96	142065	64	56	32	68	70	100	100	100	100	80	90	100	100	D
97	142060	52	70	78	A	72	70	80	80	80	80	80	80	100	E
98	142006	92	76	76	88	84	90	90	90	90	100	100	80	100	C
99	142304	52	50	52	76	50	80	80	70	70	70	80	80	40	E
100	142014	76	60	74	58	60	100	100	80	80	80	80	80	80	E
101	142015	96	88	92	95	A	100	100	100	100	100	100	100	100	A
102	142069	50	52	60	74	66	80	80	70	70	70	70	60	60	C
103	142054	52	50	42	52	34	80	80	70	70	70	70	40	60	D
104	142062	80	60	54	76	86	100	100	100	100	90	90	60	100	B
105	142019	80	70	74	70	78	100	100	100	100	90	90	100	100	C
106	142005	72	58	76	68	72	90	80	90	90	90	90	100	100	C
107	142033	92	92	A	90	88	100	90	100	100	80	80	80	60	A
108	142105	60	50	36	52	A	80	80	90	90	90	90	100	60	C
109	142002	96	80	90	A	90	90	90	90	90	100	90	100	100	C
110	142102	72	60	A	80	A	100	90	100	100	80	90	100	40	E
111	142311	88	64	58	82	86	100	100	100	100	80	80	100	60	E
112	142310	92	70	60	84	84	100	90	100	100	90	90	100	100	C
113	142109	88	70	50	52	64	80	80	80	80	80	90	60	100	E
114	152909	80	50	68	A	62	90	90	80	80	80	90	60	100	E
115	152918	32	56	50	64	40	90	90	90	90	70	70	40	80	D
116	152911	60	50	50	50	50	70	80	80	80	70	80	100	80	E
117	152904	92	70	82	86	76	90	90	90	90	100	90	100	100	D
118	152908	36	38	50	50	54	100	100	80	80	70	80	40	80	E
119	152913	52	32	60	60	70	100	100	70	70	80	70	100	60	E
120	152917	12	16	22	62	20	100	80	90	90	60	70	20	60	E
121	152906	72	34	50	50	32	100	100	90	90	80	80	100	60	D
122	152914	32	22	36	30	22	100	100	80	80	60	70	40	40	U
123	152927	60	50	50	56	50	100	100	70	70	70	80	80	80	E

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignment				Seminar		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO3	CO4	CO3	CO4	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	A4	S1	S2	Q1	Q2	
C	76	67	68	84	67	119	122	116	116	116	123	106	99	52
%	62.81	56.3	57.63	70	56.3	96.75	99.19	94.31	94.31	94.31	100	86.18	80.49	42.62
L	1	0	0	2	0	3	3	3	3	3	3	3	3	0

**Attainment Calculation:**

**Survey:**

Survey	C311.1	C311.2	C311.3	C311.4	C311.5
Obtained %	91.43	88.9	89.78	90.25	90.4
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C311:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C311.1	1	3	-	-		1.6	0	0.64	3	1.11
C311.2	0	3	-	-		0.9	0	0.36	3	0.89
C311.3	0	3	3	3		1.2	0	0.48	3	0.98
C311.4	2	3	3	3		2.4	0	0.96	3	1.37
C311.5	0	-	-	-		0	0	0	3	0.6
<b>C311</b>										<b>0.99</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C311.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C311.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C311.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.1*Seminars + 0.1*Quiz]
C311.4	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.1*Seminars + 0.1*Quiz]
C311.5	AU Exam	[1*Internal Test]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C311 = \frac{C311.1 + C311.2 + C311.3 + C311.4 + C311.5}{5} = 0.99$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EC6602 Embedded System: C312**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	Q1	Q2	
1	142009	96	96	92	90	90	80	99	99	100	100	A
2	142308	88	68	38	62	76	80	99	99	100	100	C
3	142022	72	64	62	50	60	80	99	99	100	100	C
4	142112	64	60	50	60	50	99	99	99	90	90	B
5	142070	44	58	58	60	50	80	99	99	90	90	E
6	142306	64	38	60	58	68	80	99	99	90	90	U
7	142063	68	40	30	64	60	80	99	99	90	90	U
8	142301	80	84	80	80	90	80	99	99	100	100	C
9	142034	92	74	66	67	50	80	99	99	100	100	C
10	142040	52	42	50	60	50	80	99	99	80	90	E
11	142071	80	76	62	0	0	80	99	99	100	100	C
12	142101	80	76	86	80	70	80	99	99	100	100	B
13	142017	96	86	88	80	82	80	99	99	100	100	C
14	142045	96	82	78	80	76	99	99	99	100	100	B
15	142302	80	50	50	70	78	80	99	99	100	100	C
16	142072	64	22	52	70	50	80	99	99	90	90	U
17	142111	68	70	40	62	50	80	99	99	90	80	E
18	142059	72	86	92	80	78	80	99	99	100	100	C
19	142050	56	36	54	70	50	80	99	99	90	100	B
20	142309	88	84	90	90	86	80	99	99	100	100	B
21	142056	96	82	88	90	84	99	100	99	100	100	B
22	142058	72	66	62	70	50	80	99	99	100	100	E
23	142004	88	58	56	90	86	80	100	99	90	90	C
24	142106	92	64	80	100	96	99	100	99	100	100	E
25	142104	80	74	62	90	60	80	100	99	90	80	C
26	142011	80	78	74	90	60	99	100	100	90	90	C
27	142041	80	50	68	90	52	80	100	99	90	90	D
28	142024	76	60	70	90	60	80	100	99	90	80	B
29	142026	88	58	90	100	88	99	100	99	100	100	D
30	142008	96	94	94	100	86	99	100	100	100	100	B
31	142038	64	18	50	90	60	80	100	99	90	90	D
32	142032	88	84	70	100	88	80	100	99	100	100	C
33	152915	56	68	36	80	56	80	100	99	80	90	U
34	152923	4	50	26	80	56	80	100	99	80	90	U
35	152920	20	50	26	90	6	80	100	99	90	80	E
36	152922	68	38	42	90	60	80	98	99	90	90	D
37	152916	60	64	30	90	76	80	98	99	90	80	U
38	152901	0	28	6	80	6	99	98	99	80	90	E
39	152928	68	56	60	90	60	99	98	99	90	90	E
40	162401	52	32	0	90	50	80	98	99	90	90	E
41	162402	72	56	82	100	80	99	98	99	100	100	C
42	142001	64	6	70	6	70	80	80	90	90	90	E
43	142012	96	82	78	52	96	100	100	90	90	90	B
44	142057	100	96	94	54	68	100	90	100	90	90	D
45	142035	80	52	50	50	60	80	80	80	80	80	U

46	142047	80	50	88	50	82	80	80	80	80	85	C
47	142108	8	40	58	0	60	80	80	80	85	80	U
48	142013	92	82	88	50	90	90	90	90	100	100	C
49	142036	82	78	88	50	86	100	100	100	100	100	B
50	142067	100	90	90	50	86	100	90	90	100	100	C
51	142031	88	34	74	50	84	100	90	80	90	90	D
52	142074	100	88	86	58	90	80	90	90	90	85	C
53	142044	100	84	90	52	86	100	90	90	100	100	B
54	142107	76	62	64	16	72	80	90	80	80	80	E
55	142029	84	50	66	50	80	100	90	90	90	90	E
56	142016	100	92	96	92	98	100	100	100	100	100	B
57	142051	96	72	68	64	88	100	90	100	100	100	B
58	142110	64	64	54	16	76	80	90	80	90	90	E
59	142066	96	74	88	60	88	100	100	100	100	100	C
60	142073	92	60	72	4	84	80	90	80	90	90	E
61	142027	28	14	22	2	4	80	80	80	80	80	E
62	142030	80	78	92	80	90	100	100	90	100	100	C
63	142061	12	4	22	10	0	80	100	100	80	80	U
64	142037	96	74	82	50	92	100	100	100	100	100	B
65	142064	100	86	82	62	0	80	80	90	100	100	B
66	142010	96	92	88	86	88	100	100	100	100	100	A
67	142025	96	0	56	50	50	80	90	90	90	80	C
68	142303	72	66	82	26	84	80	90	90	90	80	E
69	142039	96	86	94	70	94	100	100	100	100	100	B
70	142020	92	80	84	0	66	80	90	90	90	90	E
71	142028	96	74	94	50	68	80	100	90	100	100	B
72	142042	64	22	70	50	76	80	90	90	80	80	E
73	142048	76	70	88	50	86	100	90	80	80	80	D
74	152921	52	18	50	18	50	80	80	80	80	80	E
75	152912	84	68	50	4	50	80	80	80	80	80	D
76	152919	12	8	8	0	10	80	80	80	80	80	U
77	152905	64	62	72	8	8	80	80	80	80	80	E
78	152925	52	14	16	2	8	80	80	80	80	80	E
79	152910	92	60	86	50	50	80	80	80	80	80	D
80	152924	0	30	50	50	50	80	80	80	80	80	C
81	152902	52	62	74	10	50	80	80	80	80	80	E
82	142003	92	92	86	86	90	90	90	80	90	90	B
83	142068	76	90	70	90	92	90	90	90	70	80	B
84	142053	84	78	56	54	80	90	80	90	80	90	C
85	142007	52	52	70	12	22	90	80	90	100	90	E
86	142305	0	0	96	86	98	90	90	80	80	90	C
87	142307	92	90	90	74	82	90	90	90	90	90	C
88	142023	84	36	60	16	85	90	90	80	70	90	C
89	142055	92	84	80	98	78	80	90	90	90	90	C
90	142046	48	50	24	64	28	70	90	90	90	80	E
91	142052	80	66	80	18	84	90	90	90	90	90	C
92	142103	60	64	32	50	72	90	90	80	90	90	D
93	142021	92	96	92	92	96	80	90	90	80	90	B
94	142018	84	88	34	70	54	70	90	90	70	80	E
95	142043	84	76	60	54	80	90	80	80	60	90	B

96	142065	72	90	62	62	68	90	90	90	90	80	U
97	142060	60	72	62	54	62	90	90	80	90	90	E
98	142006	80	70	72	54	70	90	90	90	70	90	E
99	142304	50	52	50	54	24	90	90	80	60	70	D
100	142014	68	70	70	58	68	90	90	90	90	90	C
101	142015	96	96	96	98	96	90	90	90	90	100	B
102	142069	52	76	26	55	52	90	90	90	80	90	D
103	142054	60	58	30	65	26	90	90	90	90	70	C
104	142062	96	90	82	80	96	90	90	90	90	90	B
105	142019	88	84	84	60	88	80	90	90	90	90	B
106	142005	93	64	70	54	62	90	80	80	70	90	C
107	142033	88	90	94	80	98	90	90	90	80	90	C
108	142105	60	50	30	64	52	80	90	70	90	80	D
109	142002	92	78	92	54	80	90	90	90	80	90	D
110	142102	72	82	52	60	70	90	90	90	90	70	E
111	142311	76	88	80	56	76	80	90	80	90	80	D
112	142310	84	86	86	64	82	90	90	70	90	90	C
113	142109	84	66	52	50	70	80	90	90	80	90	E
114	152909	84	50	70	54	52	90	90	90	70	70	D
115	152918	80	54	50	50	0	90	90	80	90	90	D
116	152911	84	26	50	50	14	90	90	70	90	80	U
117	152904	92	80	82	22	66	90	90	90	90	90	C
118	152908	60	52	50	51	56	90	90	70	70	90	U
119	152913	56	66	52	52	16	90	90	70	60	70	E
120	152917	20	14	10	53	4	80	90	90	50	70	U
121	152906	84	36	50	55	80	90	90	70	60	90	E
122	152914	56	24	50	56	20	90	90	70	70	80	U
123	152927	34	62	52	52	74	90	90	70	60	90	E

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignments			Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	Q1	Q2	
C	98	77	76	62	82	121	123	115	117	123	59
%	79.67	62.6	61.79	50.41	66.67	98.37	100	93.5	95.12	100	47.97
L	2	1	1	0	1	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C312.1	C312.2	C312.3	C312.4	C312.5
Obtained %	92.5	91.2	91.06	91.22	91.14
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C312:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C312.1	2	3		-		2.3	0	0.92	3	1.34
C312.2	1	3		-		1.6	0	0.64	3	1.11
C312.3	1	3		-		1.6	0	0.64	3	1.11
C312.4	0	-		3		0.6	0	0.24	3	0.79
C312.5	1	-		3		1.4	0	0.56	3	1.05
<b>C312</b>										<b>1.08</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C312.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C312.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C312.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C312.4	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C312.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C312 = \frac{C312.1 + C312.2 + C312.3 + C312.4 + C312.5}{5} = 1.08$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6603 Power System Operation and Control: C313**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz	Tutorial			AU	
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO2	CO3	CO5	CO1	CO2	CO4		
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	T1	T2	T3		
1	142009	96	58	94	90	98	90	80	100	100	100	90	100	80	80		B
2	142308	56	20	54	60	50	70	80	100	100	80	90	100	80	80		U
3	142022	76	54	50	62	50	80	80	100	100	80	90	100	80	80		E
4	142112	60	18	62	84	0	70	60	100	100	80	90	100	90	80		D
5	142070	0	4	26	58	16	60	70	100	100	70	90	100	90	80		E
6	142306	52	10	16	14	8	70	90	100	100	80	90	100	70	90		C
7	142063	52	12	26	50	8	70	80	100	100	70	90	100	70	90		U
8	142301	96	60	86	98	76	90	90	90	80	100	90	100	80	90		B
9	142034	72	34	72	80	36	80	90	90	80	80	90	100	80	90		C
10	142040	52	30	14	60	4	60	70	90	80	100	90	100	80	90		E
11	142071	52	20	58	50	A	90	80	90	80	100	90	100	70	90		C
12	142101	92	70	50	90	31	80	70	100	80	100	90	100	80	90		S
13	142017	24	64	72	90	54	70	80	100	100	100	90	100	90	80		C
14	142045	72	56	92	70	68	90	90	100	100	100	90	100	90	80		B
15	142302	64	36	78	50	66	90	80	100	100	100	90	100	90	80		C
16	142072	A	30	20	58	0	60	80	90	100	80	90	90	80	80		U
17	142111	20	34	52	30	30	70	70	90	100	80	90	100	80	80		U
18	142059	84	72	90	68	82	90	90	90	100	100	90	100	70	90		B
19	142050	20	2	58	52	14	60	80	90	80	80	90	90	80	90		C
20	142309	100	82	90	68	86	100	80	100	80	100	90	100	70	90		A
21	142056	60	62	88	70	88	90	80	100	80	100	90	100	70	90		A
22	142058	60	12	62	52	12	80	80	100	80	80	90	100	60	90		C
23	142004	52	2	50	30	46	80	70	100	100	80	90	100	60	100		B
24	142106	92	70	94	98	74	90	70	100	100	100	90	100	70	100		D
25	142104	20	10	52	74	36	80	80	100	100	80	90	100	80	100		E
26	142011	84	50	70	74	26	80	80	100	100	80	90	100	80	100		C
27	142041	88	54	72	84	64	90	70	100	100	80	90	100	80	100		C
28	142024	20	6	A	84	10	70	70	100	100	80	90	100	70	100		C
29	142026	84	62	90	82	28	90	80	100	100	80	90	100	80	100		B
30	142008	100	82	92	96	96	100	80	100	100	100	90	100	90	100		A
31	142038	72	34	54	58	40	80	90	100	100	70	90	100	70	100		E
32	142032	76	50	74	50	50	80	90	100	100	90	90	100	70	100		C
33	152915	52	4	50	60	24	80	70	100	80	90	90	100	60	100		E
34	152923	44	4	34	A	12	70	80	100	80	80	90	100	80	100		U
35	152920	12	0	2	22	20	60	70	100	80	80	90	90	60	100		U
36	152922	20	12	12	32	28	70	70	100	80	80	90	100	60	100		E
37	152916	40	16	20	78	24	70	70	100	80	70	90	100	70	100		D
38	152901	0	0	12	0	34	60	70	100	80	70	90	80	60	100		E
39	152928	20	10	50	60	28	70	70	100	80	70	90	100	80	100		E
40	162401	52	4	30	52	24	70	70	100	80	70	90	100	80	100		D
41	162402	80	54	92	90		90	90	100	80	100	90	100	80	100		C
42	142001	96	74	92	92	60	100	0	80	60	60	90	100	100	100		B
43	142012	84	54	90	90	90	100	100	100	60	60	90	100	100	100		C
44	142057	76	52	A	A	80	100	100	100	60	60	90	100	100	100		C
45	142035	80	42	64	64	20	100	0	80	80	80	90	100	100	100		C

46	142047	88	62	92	92	84	0	0	80	80	80	90	100	100	100			C
47	142108	56	48	A	A	28	0	70	90	60	60	90	100	100	100			U
48	142013	84	50	86	86	96	100	100	100	60	60	90	100	100	100			B
49	142036	92	38	88	88	84	100	100	100	60	60	90	100	70	100			C
50	142031	88	54	90	90	86	100	100	100	60	60	90	100	100	100			C
51	142074	80	46	74	74	56	100	60	100	100	100	90	70	70	100			C
52	142044	72	64	76	76	86	100	60	100	60	60	90	100	100	100			E
53	142107	90	54	86	86	76	100	100	100	60	60	90	100	100	100			B
54	142029	40	42	76	76	22	100	100	100	80	80	90	90	80	100			C
55	142016	92	14	62	62	60	60	100	80	60	60	90	60	70	70			B
56	142051	88	50	86	86	78	100	100	100	60	60	90	100	100	80			C
57	142110	84	62	84	84	68	100	100	100	60	60	90	100	100	80			B
58	142066	52	26	26	26	54	0	80	90	60	60	90	100	60	70			E
59	142073	96	56	82	82	98	100	100	100	60	60	90	100	100	90			C
60	142027	32	22	38	38	40	80	80	80	80	80	90	90	80	70			C
61	142067	44	30	50	50	20	100	100	100	60	60	90	60	70	80			E
62	142030	80	52	88	88	98	100	100	100	60	60	90	100	100	80			C
63	142061	0	6	2	2	A	0	100	90	60	60	90	50	60	70			U
64	142037	88	50	90	90	80	100	100	100	60	60	90	100	100	70			B
65	142064	96	58	A	72	A	100	100	100	60	60	90	100	100	80			D
66	142010	96	64	90	88	96	100	100	100	60	60	90	100	100	80			A
67	142025	96	26	86	86	64	100	100	100	60	60	90	100	100	70			B
68	142303	80	58	64	74	78	100	100	100	80	80	90	100	100	70			C
69	142039	96	62	86	82	90	80	100	80	60	60	90	100	100	70			B
70	142020	92	72	76	58	72	0	80	90	60	60	90	100	100	80			B
71	142028	96	88	66	42	70	0	80	80	80	80	90	100	100	80			C
72	142042	56	42	68	62	4	0	80	80	80	80	90	100	100	70			U
73	142048	68	54	64	86	68	100	100	100	60	60	90	100	100	80			C
74	152921	44	50	68	76	42	0	80	80	80	80	90	90	90	80			E
75	152912	52	12	44	56	32	100	100	100	100	100	90	70	70	80			D
76	152919	12	0	6	0	24	0	90	80	100	100	90	80	80	70			U
77	152905	56	36	54	62	28	0	100	80	100	100	90	100	100	70			E
78	152925	24	0	40	52	24	100	100	90	100	100	90	80	80	70			E
79	152910	60	10	42	64	32	100	100	90	100	100	90	100	100	90			C
80	152924	80	28	74	78	16	0	80	90	100	100	90	100	80	80			C
81	152902	60	10	64	66	38	0	90	80	100	100	90	100	60	90			E
82	142003	96	88	A	94	90	100	100	80	100	100	100	80	80	100			A
83	142068	84	40	76	78	86	100	100	80	80	100	80	90	100	100			A
84	142053	80	40	66	74	80	100	100	80	80	90	80	100	100	100			B
85	142007	60	70	82	88	50	0	100	90	90	100	80	90	100	100			B
86	142305	A	A	64	74	98	100	100	90	80	100	80	70	0	100			S
87	142307	72	32	84	54	86	100	100	90	70	80	80	70	0	100			D
88	142023	68	A	82	92	96	80	100	90	90	100	100	100	0	100			C
89	142055	80	80	80	80	76	80	100	90	100	100	80	70	100	100			B
90	142046	60	14	38	A	44	80	100	90	60	90	80	100	0	60			D
91	142052	96	52	86	80	94	80	100	90	100	80	80	100	0	100			B
92	142103	80	76	78	52	44	80	100	90	90	100	80	100	0	100			D
93	142021	96	68	86	92	98	100	100	90	100	80	80	100	100	100			B
94	142018	64	62	62	78	56	80	100	90	100	80	80	100	0	100			D
95	142043	A	42	74	74	86	80	100	90	80	80	80	90	0	100			C

96	142065	64	40	70	64	98	100	100	90	80	80	80	90	90	100			D
97	142060	60	32	66	A	70	60	100	90	80	100	80	100	0	70			E
98	142006	98	98	92	66	82	60	100	90	100	80	80	100	100	100			B
99	142304	52	50	52	62	38	60	100	80	90	90	80	70	0	100			B
100	142014	92	52	84	26	98	100	100	80	90	80	80	100	100	100			A
101	142015	96	94	96	98	98	100	100	80	100	100	100	100	100	100			A
102	142069	56	22	72	40	48	100	100	80	70	80	80	70	0	100			C
103	142054	40	10	34	32	42	80	100	80	60	80	80	90	0	100			C
104	142062	88	50	66	64	99	100	100	100	100	80	80	80	100	100			B
105	142019	88	64	84	64	94	100	100	100	100	80	80	100	0	100			B
106	142005	72	80	86	90	78	60	100	100	100	100	80	100	100	100			B
107	142033	96	74	92	86	A	100	70	100	100	100	80	100	100	100			B
108	142105	4	50	50	64	40	100	70	100	80	100	80	100	0	100			C
109	142002	92	78	92	94	82	80	100	100	100	100	80	80	0	100			B
110	142102	88	58	74	50	99	100	100	100	100	80	80	70	100	100			B
111	142311	72	56	72	60	96	100	100	80	100	80	80	100	100	100			D
112	142310	84	58	84	92	90	100	100	80	100	100	80	100	100	100			B
113	142109	48	52	74	40	58	60	100	80	80	80	80	80	0	100			C
114	152909	60	28	72	46	68	100	100	80	70	100	80	80	0	100			C
115	152918	68	14	62	78	A	100	100	80	70	100	80	80	0	100			D
116	152911	52	4	50	72	20	60	70	80	80	100	80	80	0	100			U
117	152904	84	38	82	80	78	60	100	80	70	80	80	80	100	100			C
118	152908	60	26	52	14	56	100	100	80	70	80	80	90	0	70			E
119	152913	48	20	50	8	56	100	100	80	70	70	80	90	0	70			U
120	152917	40	30	50	50	26	60	100	80	60	100	80	80	0	90			E
121	152906	56	4	62	10	48	100	100	80	60	100	80	80	0	60			C
122	152914	28	8	14	12	64	60	100	80	60	70	80	100	100	60			U
123	152927	16	0	54	14	64	100	100	80	60	100	80	70	0	90			E

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignments			Survey			Quiz	Tutorial			AU	
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO2	CO3	CO5	CO1	CO2	CO4			
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	T1	T2	T3			
C	77	29	77	79	58	82	98	123	93	99	123	120	90	120			77
%	64.17	23.97	65.25	66.95	49.15	66.67	79.67	100	75.61	80.49	100	97.56	73.17	97.56			62.6
L	1	0	1	1	0	1	2	3	2	3	3	3	2	3			1

### Attainment Calculation:

#### Survey:

Survey	C313.1	C313.2	C313.3	C313.4	C313.5
<b>Obtained %</b>	<b>95.98</b>	<b>94.25</b>	<b>96.1</b>	<b>95.82</b>	<b>94.14</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C313:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C313.1	1	1	-	-	3	1.4	1	1.16	3	1.53
C313.2	0	2	2	-	2	0.8	1	0.92	3	1.34
C313.3	1	-	3	-	-	1.4	1	1.16	3	1.53
C313.4	1	3	-	-	3	1.8	1	1.32	3	1.66
C313.5	0	-	-	3	-	0.6	1	0.84	3	1.27
<b>C313</b>										<b>1.47</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C313.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C313.2	AU Exam	[0.6*Internal Test + 0.1*Assignment + 0.1*Seminar + 0.2*Tutorial]
C313.3	AU Exam	[0.8*Internal Test + 0.2*Seminar]
C313.4	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C313.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C313 = \frac{C313.1 + C313.2 + C313.3 + C313.4 + C313.5}{5} = 1.47$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6604 Design of Electrical Machines: C314**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	Tutorial					AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
1	142009	100	66	94	90	70	100	100	100	100	100	100	100	100	100	100	A
2	142308	44	22	50	40	42	90	90	90	80	90	90	80	90	80	80	E
3	142112	36	52	50	38	24	100	90	100	100	100	80	90	80	80	80	C
4	142022	80	26	34	62	46	90	100	90	90	90	90	80	90	90	80	D
5	142070	24	0	0	0	100	100	100	100	100	100	80	80	80	80	80	E
6	142306	80	100	0	40	24	90	80	90	90	90	90	80	90	80	90	U
7	142063	80	80	20	18	8	90	80	80	90	90	90	80	90	80	80	E
8	142301	80	78	76	98	60	100	90	80	100	100	100	100	80	100	100	B
9	142034	92	84	68	72	42	90	90	100	90	90	90	100	100	100	80	C
10	142040	40	26	6	4	10	90	90	80	90	90	80	80	90	80	80	E
11	142071	88	34	26	72	9	100	90	80	100	100	90	80	90	90	100	U
12	142101	68	78	66	94	28	90	100	100	90	90	100	100	90	100	80	A
13	142017	56	0	62	62	46	100	100	90	100	100	100	100	100	100	90	C
14	142045	100	96	74	92	96	100	100	100	100	100	100	100	100	100	90	A
15	142302	84	66	58	92	70	100	90	100	100	100	100	90	100	90	100	C
16	142072	48	60	42	12	56	90	80	100	90	90	80	80	100	80	90	E
17	142111	16	18	34	52	26	90	90	90	90	90	90	90	80	90	90	U
18	142059	100	68	54	96	94	100	100	90	100	100	80	100	90	100	80	B
19	142050	52	24	20	26	6	90	80	100	90	90	90	80	80	80	90	D
20	142309	96	88	96	92	64	90	100	100	90	90	100	100	90	100	90	B
21	142056	100	82	72	88	90	100	100	100	100	100	100	100	100	100	80	C
22	142058	80	36	52	58	20	90	80	80	90	90	80	80	80	80	90	E
23	142106	68	0	14	62	6	80	90	90	90	90	90	80	80	90	80	E
24	142004	64	76	92	90	96	100	100	100	100	100	100	100	100	100	100	C
25	142104	60	20	26	38	20	90	80	90	80	80	80	80	90	90	90	E
26	142011	96	78	68	82	38	80	80	80	80	80	80	80	80	80	80	D
27	142041	84	44	92	92	68	90	90	90	90	90	80	80	80	90	90	D
28	142024	52	40	0	76	18	90	80	80	80	80	80	80	80	80	90	E
29	142026	76	58	76	82	60	100	90	80	90	90	90	90	90	80	80	D
30	142008	100	96	96	100	100	100	100	100	100	100	100	100	100	100	100	B
31	142038	40	12	42	4	12	90	100	100	100	100	80	90	90	80	80	C
32	142032	80	86	82	92	86	100	100	100	100	100	100	100	100	100	100	C
33	142001	12	92	98	96	92	100	100	100	100	100	100	100	100	100	100	B
34	142012	96	96	80	100	84	100	100	100	100	80	100	100	100	100	100	B
35	142057	88	96	64	94	76	100	100	80	100	80	100	100	80	100	100	B
36	142035	64	54	38	46	66	60	60	80	80	90	80	80	40	80	60	C
37	142047	72	84	100	94	72	80	100	100	100	80	100	100	100	100	100	C
38	142108	32	50	16	36	22	80	80	60	80	80	80	80	60	80	60	E
39	142013	100	92	78	90	78	100	100	80	100	60	100	100	80	100	60	B
40	142036	84	72	96	96	92	100	60	100	100	80	100	60	100	100	100	B
41	142067	100	96	92	98	90	90	100	100	100	80	100	100	100	100	100	B
42	142031	60	60	78	76	68	80	60	90	80	80	80	60	80	80	60	C
43	142074	72	68	72	100	70	90	80	90	100	80	80	80	80	100	60	C
44	142044	80	96	98	98	96	100	100	100	100	70	100	100	100	100	60	B
45	142107	72	44	12	66	10	60	60	80	80	70	60	50	60	80	80	C

46	142029	48	60	60	84	52	80	60	80	80	70	80	80	60	80	90	D
47	142016	88	100	66	100	92	100	100	80	100	80	80	100	60	100	100	B
48	142051	100	80	90	100	82	100	100	100	100	80	80	80	100	100	100	B
49	142110	16	16	22	30	54	40	100	80	60	80	60	60	60	60	80	U
50	142066	80	96	64	100	70	80	100	80	100	70	80	100	60	100	80	C
51	142073	44	84	20	82	14	100	100	80	100	70	80	100	60	100	80	C
52	142027	52	38	36	0	4	100	100	80	60	80	80	50	80	60	80	U
53	142030	80	96	80	100	94	100	100	80	100	70	100	100	60	100	100	A
54	142061	40	2	4	48	0	60	100	80	50	70	60	60	60	50	60	U
55	142037	88	100	96	100	82	100	100	100	100	80	100	100	100	100	100	B
56	142064	56	100	0	82	0	80	100	100	100	80	40	100	100	100	100	C
57	142010	92	88	82	96	80	80	100	100	100	80	100	100	100	100	100	B
58	142025	80	96	78	100	82	100	100	100	100	70	100	100	100	100	100	B
59	142303	64	66	50	82	100	80	80	100	100	70	60	80	60	100	100	C
60	142039	64	96	86	100	96	80	100	100	100	80	60	100	100	100	100	C
61	142020	36	80	50	78	78	80	100	100	100	70	60	100	60	100	100	B
62	142028	36	84	54	92	100	80	100	100	100	70	60	100	60	100	100	C
63	142042	64	96	80	90	14	80	100	100	80	80	80	100	100	80	80	U
64	142048	100	88	82	92	82	100	100	100	80	80	100	100	100	80	80	C
65	142003	100	96	94	98	86	80	90	90	90	80	90	90	90	90	80	S
66	142068	0	88	80	62	78	80	90	80	80	80	80	90	90	80	80	D
67	142053	64	78	56	88	68	80	80	80	80	80	80	90	90	80	80	D
68	142007	60	72	72	86	60	80	70	80	80	80	80	90	80	80	90	D
69	142305	0	80	68	76	64	80	80	80	90	60	80	80	80	80	80	B
70	142307	52	68	38	72	56	60	90	90	90	60	80	90	80	80	80	E
71	142023	88	92	88	90	94	80	80	80	90	60	80	80	80	70	80	C
72	142046	32	60	24	26	28	80	90	90	90	60	50	90	80	80	90	E
73	142055	88	84	56	90	78	80	90	90	90	90	80	90	90	80	90	B
74	142052	76	68	52	98	64	80	90	90	80	60	80	80	80	80	80	B
75	142103	36	56	64	80	66	80	90	80	80	50	60	80	80	80	80	C
76	142021	96	88	84	100	100	80	90	60	80	50	80	80	80	80	80	C
77	142018	100	50	50	60	76	80	90	60	80	80	90	80	90	90	90	C
78	142043	88	50	60	68	66	90	80	70	80	60	80	60	80	80	80	D
79	142065	76	56	62	56	50	90	80	80	70	60	80	60	80	80	80	D
80	142060	68	84	40	0	50	80	80	70	80	60	80	80	80	80	80	E
81	142006	84	96	82	86	94	80	80	70	80	60	80	80	90	80	80	B
82	142304	36	68	50	72	38	80	80	70	80	60	80	90	60	80	70	D
83	142014	60	74	50	42	86	80	80	80	80	60	60	90	60	80	60	E
84	142015	100	92	92	100	86	90	80	70	90	60	100	80	80	90	80	C
85	142069	32	88	50	82	28	80	80	80	90	90	80	90	80	90	80	C
86	142054	16	36	36	64	28	80	80	90	80	60	60	90	90	80	80	D
87	142062	68	72	84	84	86	90	80	80	80	80	90	80	80	80	90	C
88	142019	100	68	74	98	70	90	80	80	80	80	90	80	80	80	90	B
89	142005	76	96	94	98	88	90	80	90	90	80	90	80	90	90	90	C
90	142033	100	96	94	98	100	90	80	90	80	60	90	80	90	80	80	A
91	142105	56	52	8	56	36	80	60	90	90	90	80	60	90	90	80	E
92	142002	88	96	98	98	92	90	80	80	90	90	90	80	80	90	90	C
93	142102	100	62	78	100	86	80	80	80	90	90	80	80	80	90	80	B
94	142311	64	80	76	94	68	90	90	80	90	90	90	90	80	90	90	C
95	142310	84	86	92	98	90	90	80	80	90	90	90	80	80	90	80	C

96	142109	40	52	36	62	36	90	90	80	80	80	90	90	80	80	90	E
97	152915	60	48	36	32	0	90	100	100	100	100	80	80	80	80	80	E
98	152923	20	20	10	24	16	80	90	80	90	90	80	80	80	80	80	U
99	152920	0	60	4	60	0	80	80	90	80	90	80	80	80	80	80	U
100	152922	12	20	0	12	4	80	80	90	80	80	80	80	90	90	90	U
101	152916	28	52	26	50	8	90	90	80	90	80	80	80	80	80	90	E
102	152901	0	20	2	80	0	90	80	80	80	80	80	80	80	80	80	E
103	152928	20	40	40	54	2	80	90	90	90	80	80	80	80	80	80	U
104	152921	20	64	26	44	36	80	80	100	100	70	80	80	60	100	80	E
105	152912	48	46	50	58	40	80	80	100	100	70	80	60	60	100	80	E
106	152919	40	20	8	6	0	80	80	100	100	80	80	60	100	100	80	U
107	152905	24	60	18	50	38	80	80	100	80	70	80	60	80	80	80	C
108	152925	80	48	14	62	2	80	80	80	80	70	80	60	80	80	60	U
109	152910	52	38	22	72	24	100	80	80	80	60	80	60	80	80	80	E
110	152924	64	72	40	60	46	100	80	90	80	60	80	100	60	80	80	D
111	152902	60	56	38	32	30	100	100	80	80	80	80	60	60	80	80	E
112	152909	56	52	32	70	50	80	80	80	80	80	80	80	80	80	80	E
113	152918	12	72	38	92	54	80	90	90	90	80	80	90	90	90	80	C
114	152911	80	52	8	100	16	80	80	90	80	60	80	80	90	80	80	E
115	152904	72	82	80	94	68	80	80	80	90	60	80	80	80	90	60	C
116	152908	20	60	22	40	12	80	80	80	90	80	80	80	80	90	90	E
117	152913	12	18	26	38	4	80	70	90	80	60	80	70	90	80	80	E
118	152917	12	0	4	0	2	80	70	80	80	60	80	70	80	80	80	C
119	152906	28	16	20	52	38	80	60	90	80	60	80	60	90	80	60	E
120	152914	0	4	14	20	10	60	60	80	80	60	60	60	80	80	60	U
121	152927	16	4	24	20	4	60	60	80	80	60	60	60	80	80	60	U
122	162402	100	62	62	94	86	100	100	100	100	100	100	100	100	100	100	C
123	162401	80	2	28	78	4	80	80	80	80	80	80	80	80	80	90	C

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU																
L – Level, C-Count																
	CIT					Assignments			Survey	Quiz	Tutorial					AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	T1	T2	T3	T4	T5	
C	74	75	56	85	61	116	111	115	120	97	109	105	104	120	110	66
%	60.16	60.98	45.53	69.11	49.59	94.31	90.24	93.5	97.56	78.86	88.62	85.37	84.55	97.56	89.43	53.66
L	1	1	0	1	0	3	3	3	3	2	3	3	3	3	3	0

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C314.1</b>	<b>C314.2</b>	<b>C314.3</b>	<b>C314.4</b>	<b>C314.5</b>
<b>Obtained %</b>	<b>95.91</b>	<b>94.6</b>	<b>94.79</b>	<b>94.91</b>	<b>93.93</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C314:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C314.1	1	3	-	-	3	1.8	0	0.72	3	1.18
C314.2	1	3	-	-	3	1.8	0	0.72	3	1.18
C314.3	0	3	-	-	3	1.2	0	0.48	3	0.98
C314.4	1	-	3	-	3	1.6	0	0.64	3	1.11
C314.5	0	-	-	2	3	0.8	0	0.32	3	0.86
<b>C314</b>										<b>1.06</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C314.1	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C314.2	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C314.3	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.2*Tutorial]
C314.4	AU Exam	[0.7*Internal Test + 0.1*Seminars + 0.2*Tutorial]
C314.5	AU Exam	[0.7*Internal Test + 0.1*Quiz + 0.2*Tutorial]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C314 = \frac{C314.1 + C314.2 + C314.3 + C314.4 + C314.5}{5} = 1.06$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6002 Power System Transients: C315E1**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	142009	96	92	92	86	92	90	90	90	90	90	A
2	142308	72	50	A	56	50	80	80	80	80	80	C
3	142022	20	60	78	52	20	80	90	90	90	80	C
4	142112	52	58	74	A	52	80	90	90	90	80	B
5	142070	0	A	66	60	68	80	90	80	80	80	E
6	142306	56	52	32	28	24	80	90	90	80	80	E
7	142063	28	68	50	4	40	80	90	80	80	80	E
8	142301	92	92	78	78	92	90	90	90	90	90	B
9	142034	88	96	78	72	26	90	90	90	90	90	C
10	142040	56	64	68	16	32	80	90	90	90	80	D
11	142071	88	A	82	72	A	90	90	90	90	90	E
12	142101	56	92	82	72	60	90	90	90	90	90	B
13	142017	88	96	96	78	80	90	90	90	90	90	B
14	142045	96	96	92	84	92	90	90	90	90	90	A
15	142302	72	68	90	86	88	90	90	90	90	90	B
16	142072	24	30	32	10	12	80	80	80	80	80	E
17	142111	60	60	66	28	20	80	80	80	80	80	U
18	142059	92	92	88	72	92	90	90	90	90	90	C
19	142050	52	80	80	50	20	80	80	80	90	90	D
20	142309	96	92	88	84	84	80	90	80	90	90	A
21	142056	96	94	68	78	92	90	90	90	90	90	A
22	142058	28	60	76	76	28	80	90	80	90	80	C
23	142004	88	96	78	62	92	90	90	90	90	90	B
24	142106	A	50	60	54	40	80	80	80	80	80	E
25	142104	52	82	70	50	80	80	80	90	90	90	C
26	142011	88	68	68	54	68	80	80	90	90	90	C
27	142041	84	84	92	74	50	90	90	80	90	80	E
28	142024	52	80	60	38	64	80	90	80	90	80	E
29	142026	88	80	92	74	76	90	90	90	90	90	C
30	142008	96	96	92	72	92	90	90	90	90	90	A
31	142038	68	96	34	38	72	90	90	90	90	80	B
32	142032	92	96	96	64	60	90	90	90	90	90	C
33	152915	58	52	A	50	30	80	80	90	80	90	C
34	152923	50	22	50	50	24	80	90	80	80	80	E
35	152920	50	20	12	12	20	80	90	80	80	80	E
36	152922	4	72	30	50	64	80	90	90	80	80	D
37	152916	52	56	38	50	50	80	90	90	80	80	D
38	152901	0	10	0	10	24	80	90	90	80	80	D
39	152928	16	66	28	50	92	80	90	90	80	80	U
40	162401	24	70	34	10	64	80	90	80	80	80	C
41	162402	96	84	76	64	96	90	80	90	90	90	A
42	142001	52	50	86	50	92	80	90	90	90	90	C
43	142012	96	90	88	84	88	90	90	90	90	90	C
44	142057	96	88	74	92	92	90	90	90	90	90	C
45	142035	88	50	58	58	84	90	90	90	80	80	C

46	142047	A	80	78	52	92	90	90	90	90	90	E
47	142108	50	62	92	60	72	90	90	90	80	90	E
48	142013	84	60	92	86	92	90	90	90	90	90	C
49	142036	92	88	78	86	80	90	90	90	90	90	D
50	142067	96	94	90	90	96	90	90	90	90	100	B
51	142031	64	50	56	56	76	80	80	80	80	80	B
52	142074	96	80	84	72	92	90	90	90	90	90	D
53	142044	96	96	80	86	92	90	90	90	90	90	D
54	142107	64	A	54	50	50	80	80	80	80	80	C
55	142029	76	74	52	50	80	90	90	90	90	90	E
56	142016	96	92	92	86	92	90	90	90	90	90	A
57	142051	96	62	76	80	92	90	90	90	90	90	C
58	142110	52	66	50	50	50	80	90	90	80	80	E
59	142066	96	92	72	80	98	90	90	90	90	90	C
60	142073	92	50	60	66	20	90	90	90	90	90	C
61	142027	92	62	60	A	32	90	90	90	90	90	C
62	142030	96	82	92	74	92	90	90	90	90	90	C
63	142061	A	18	A	18	0	80	80	80	80	80	U
64	142037	96	96	94	76	92	90	90	90	90	90	S
65	142064	92	A	90	82	A	90	90	90	90	90	C
66	142010	96	96	88	96	92	90	90	90	90	90	B
67	142025	96	88	88	88	92	90	90	90	90	90	B
68	142303	96	56	82	54	32	90	90	90	90	90	D
69	142039	96	96	96	98	92	90	90	90	90	90	B
70	142020	96	96	92	52	80	90	90	90	90	90	B
71	142028	96	84	92	52	76	90	90	90	90	90	A
72	142042	96	76	56	50	8	90	90	90	90	90	U
73	142048	88	82	70	68	80	90	90	90	90	90	E
74	152921	52	66	50	50	70	80	80	80	80	80	C
75	152912	88	50	58	66	70	80	80	80	90	80	C
76	152919	24	18	0	8	50	80	90	90	80	80	E
77	152905	96	80	70	32	72	90	90	90	90	90	C
78	152925	20	50	50	50	50	80	90	90	80	80	E
79	152910	64	64	32	54	70	80	90	90	80	80	C
80	152924	A	68	50	56	50	80	90	90	80	80	C
81	152902	75	66	58	52	64	80	90	90	90	80	C
82	142003	96	90	86	88	84	100	100	100	96	100	A
83	142068	88	72	80	88	92	100	100	100	94	100	A
84	142053	68	60	84	56	80	90	100	90	84	90	A
85	142007	16	50	50	58	50	90	90	100	80	90	S
86	142305	80	76	82	92	88	100	100	90	92	90	A
87	142307	60	76	80	88	86	90	90	100	88	90	C
88	142023	80	74	84	72	82	90	100	90	84	90	C
89	142055	A	50	86	68	96	90	100	100	86	100	A
90	142046	20	50	52	A	30	90	90	90	76	90	C
91	142052	56	54	72	64	56	100	90	90	72	90	B
92	142103	50	50	50	80	40	90	90	100	80	90	B
93	142021	60	80	94	86	92	100	100	90	94	90	C
94	142018	56	52	56	56	70	90	100	90	70	90	E
95	142043	76	64	62	86	60	100	100	100	78	100	D

96	142065	60	52	78	56	70	100	90	90	70	100	E
97	142060	A	50	50	A	40	90	90	90	82	100	C
98	142006	64	80	82	74	82	90	100	100	70	100	C
99	142304	52	16	32	54	70	100	90	90	86	100	C
100	142014	52	64	90	66	86	90	90	90	88	100	B
101	142015	96	92	98	96	96	100	100	100	98	100	D
102	142069	80	50	50	70	50	100	90	90	70	100	E
103	142054	32	34	28	50	50	90	90	90	70	100	E
104	142062	72	72	82	60	80	100	100	100	82	90	B
105	142019	52	72	80	78	92	100	100	100	92	90	B
106	142005	50	80	82	72	78	100	90	90	82	90	B
107	142033	60	80	A	90	88	90	100	90	90	90	A
108	142105	36	54	50	52	50	90	90	100	70	90	C
109	142002	64	66	92	90	88	100	90	90	92	90	A
110	142102	52	60	74	66	80	90	90	90	80	90	B
111	142311	A	62	74	76	88	90	90	100	88	90	C
112	142310	68	80	92	80	80	90	90	100	92	90	C
113	142109	40	50	50	80	80	90	90	100	70	90	D
114	152909	A	50	70	54	60	90	80	80	70	90	B
115	152918	50	54	50	56	60	90	90	90	70	90	B
116	152911	56	30	16	10	60	90	90	90	70	90	E
117	152904	68	80	86	58	78	100	90	80	70	90	D
118	152908	36	30	50	52	40	90	80	90	70	90	D
119	152913	A	30	70	36	50	90	80	90	70	90	C
120	152917	20	6	10	24	10	90	80	80	70	90	B
121	152906	32	50	34	40	50	90	80	90	70	90	B
122	152914	32	14	30	24	32	90	80	80	70	90	U
123	152927	8	50	54	28	28	90	80	80	70	90	D

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignments			Survey	Quiz	AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
C	68	78	78	62	79	123	123	123	123	123	81
%	60	65.55	65.55	52.1	65.29	100	100	100	100	100	65.85
L	1	1	1	0	1	3	3	3	3	3	1

### Attainment Calculation:

#### Survey:

Survey	C315E1.1	C315E1.2	C315E1.3	C315E1.4	C315E1.5
Obtained %	94.42	93.39	93.19	91.6	92.32
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C315E1:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C315E1.1	1	3	-	-		1.6	1	1.24	3	1.59
C315E1.2	1	3	-	-		1.6	1	1.24	3	1.59
C315E1.3	1	3	-	-		1.6	1	1.24	3	1.59
C315E1.4	-	-	3	-		0.6	1	0.84	3	1.27
C315E1.5	1	-	-	3		1.4	1	1.16	3	1.53
<b>C315E1</b>										<b>1.51</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C315E1.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C315E1.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C315E1.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C315E1.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C315E1.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C315E1 = \frac{C315E1.1 + C315E1.2 + C315E1.3 + C315E1.4 + C315E1.5}{5} = 1.51$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6611 Power Electronics And Drives Lab: C316**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009		100	90		100	95	96	95	100		95	100		95	100	S
2	142308		90	90		90	90		95	100		98	90	90	100	90	A
3	142022		100	100		100	90		95	95	92	100	93		90	95	B
4	142112		90	90		90	100	90	95	95		90	98		95	95	B
5	142070	90	90	90		90	90		90	90		90	90		90	90	C
6	142306	90	95	90		95	90		100	90		95	90		100	90	C
7	142063		90	90	90	90	90		90	90		90	90		90	90	B
8	142301		95	100		100	100	90	95	95		98	95		100	95	S
9	142034		90	100	90	90	95		90	95		90	98		90	100	A
10	142040	92	95	95		95	90		90	90		95	93		90	100	C
11	142071		90	90		90	95		95	95		90	98	90	100	95	B
12	142101		95	100		95	100		95	95	90	95	95		95	100	A
13	142017		100	95		95	95		90	95	94	95	100		95	95	S
14	142045		90	95		90	100		90	100	93	90	98		90	100	S
15	142302		100	100		100	100		95	100	94	100	100		100	100	S
16	142072		90	90		100	90	92	100	95		95	98		95	100	B
17	142111		95	90	96	95	90		90	90		100	90		100	90	C
18	142059		95	100		95	95		90	95		95	100	92	100	95	S
19	142050		100	100		95	95	92	90	95		95	100		100	95	B
20	142309	96	100	100		100	100		90	100		93	100		100	100	S
21	142056	96	100	100		100	100		90	100		93	100		100	100	S
22	142058		100	100	90	100	100		90	100		93	100		100	100	B
23	142004		95	90	90	90	90		90	95		90	100		90	100	A
24	142106	98	100	100		100	100		100	95		98	90		95	90	S
25	142104		100	100		95	100		90	95	90	90	90		90	90	B
26	142011		90	100		90	100		90	95		90	95	92	90	90	A
27	142041		90	90	96	90	90		90	100		98	95		100	90	S
28	142024	92	100	100		100	95		95	90		90	90		90	90	B
29	142026		100	100		100	100	96	95	95		93	98		95	95	S
30	142008		100	100		100	100		100	95	98	100	95		90	100	S
31	142038	90	100	100		100	95		90	90		90	90		90	90	B
32	142032		100	100		100	100		95	95		93	90	90	90	90	B
33	152915		100	100		100	100		90	95		90	90	90	90	90	B
34	152923		100	100		95	100		90	90		90	90	90	90	90	C
35	152920		90	90		90	90		90	90	90	90	90		90	90	C
36	152922		100	100	90	95	95		90	95		90	90		90	95	C
37	152916		100	100	90	95	95		90	95		90	90		90	90	C
38	152901	90	100	100		100	100		90	95		90	93		90	90	B
39	152928		100	100		100	100	90	90	95		90	90		90	90	A
40	162401		90	90		90	95	90	90	95		90	93		90	90	A
41	162402		100	100		100	100	96	100	95		93	95		95	100	S
42	142001		90	80		90	90	91	90	90		90	90		80	90	A
43	142012		90	90	89	90	90		90	90		90	90		90	90	A
44	142057		90	90		90	90		90	90	86	90	90		90	90	A

45	142035		80	90	84	80	80		80	90		80	90		80	80	A
46	142047		70	60		60	70		60	80	88	60	70		60	70	A
47	142108		80	80		80	90		80	80		80	90	80	80	80	C
48	142013		90	90		90	90	87	90	90		90	90		90	90	A
49	142036		90	90	86	80	90		90	90		90	90		90	90	A
50	142067	84	80	90		90	100		90	90		80	90		90	90	A
51	142031	81	80	80		80	80		80	90		80	90		80	80	C
52	142074		90	80		90	90	89	90	90		90	90		90	90	A
53	142044	90	90	90		90	90		90	90		90	90		90	90	S
54	142107		70	70		70	60		70	70		70	70	81	70	80	B
55	142029		80	80		80	80		80	90		80	80	85	80	80	A
56	142016		90	90		90	90	89	90	90		80	90		90	90	S
57	142051		90	90		90	90		90	90	87	90	90		90	100	A
58	142110		70	70		70	60	82	60	60		70	60		70	80	C
59	142066		90	90		90	90		80	90		90	90	85	90	90	A
60	142073		90	90		80	90		80	80	86	80	80		80	90	B
61	142027		70	60	80	70	70		70	80		70	70		60	60	C
62	142030		90	90	88	90	90		90	90		90	90		90	90	A
63	142061		60	50	78	60	50		60	50		60	50		60	50	E
64	142037	86	90	90		90	90		90	90		80	90		90	90	A
65	142064		90	90		80	90	88	90	90		90	90		90	90	A
66	142010		90	90		90	90		90	90	92	90	90		90	90	S
67	142025		80	70		80	90	86	80	80		80	80		80	80	B
68	142303		90	90		90	90		80	80	88	90	90		80	90	A
69	142039		90	90	85	90	90		90	90		90	80		90	60	S
70	142020	89	80	60		90	60		90	60		80	70		80	90	A
71	142028		90	90		90	90		90	90		90	90	93	90	80	A
72	142042		80	60		80	60		70	70		80	80	82	80	80	B
73	142048		90	90		90	90		90	90		80	90	92	90	70	A
74	152921		80	90		80	90		80	90		80	80	86	80	60	A
75	152912		90	60	87	90	60		80	70		80	70		80	60	A
76	152919		70	60		70	60		70	60	80	70	50		70	60	B
77	152905		60	60		70	60	78	70	60		60	60		70	60	B
78	152925		70	50		70	50	84	70	60		70	60		70	60	C
79	152910	88	90	60		90	60		90	60		80	70		80	70	A
80	152924		80	50		80	50		80	50	80	80	50		80	50	A
81	152902		80	60		80	60	86	80	60		80	60		80	60	B
82	142003		95	95	93	95	95		100	95		98	90		95	90	S
83	142068		85	95	94	95	95		95	95		85	90		90	90	S
84	142053		90	95		95	95		95	90	84	88	90		95	90	S
85	142007		80	90		95	90	90	85	85		85	68		75	65	A
86	142305		80	90		90	90		90	100		83	95		90	95	A
87	142307		95	95		95	90	85	95	95		90	93		95	90	A
88	142023		95	80	94	95	90		95	95		100	83		95	90	S
89	142055		95	90		95	90		100	90		95	90	93	95	95	A
90	142046	78	80	90		85	90		80	90		70	68		65	65	S
91	142052		100	90		100	90		100	90	87	90	73		95	75	S
92	142103		85	90		85	85	80	85	85		68	73		75	75	A
93	142021		100	95	92	100	95		100	95		98	93		100	95	S
94	142018		95	90		95	90		95	90	85	88	85		85	85	S

95	142043		100	90		100	90		100	95		80	88	89	85	80	S
96	142065		85	95		95	95		95	90		80	93		65	90	S
97	142060		80	85		80	90	87	90	85	82	80	68		75	70	A
98	142006		100	90		90	95		100	95		98	88	92	95	85	S
99	142304		80	90		80	90		80	85		68	68	85	70	65	A
100	142014		85	95		95	95		95	95	85	85	88		85	85	A
101	142015	95	95	95		100	100		100	95		100	98		95	95	S
102	142069		80	80		80	80	85	80	85		65	88		75	85	C
103	142054		90	100		90	100	84	85	100		70	93		65	95	B
104	142062		95	95		95	100		95	100	88	90	98		85	95	S
105	142019		100	100		100	100		95	100	89	90	98		90	95	S
106	142005		90	100		100	100		90	100	90	90	95		90	95	S
107	142033		90	95	90	100	100		95	100		88	95		90	95	S
108	142105		90	95		80	95		90	100		88	90	89	90	90	A
109	142002		100	95		100	100		95	100		95	95	85	95	95	S
110	142102		100	100		90	100	87	90	100		85	98		85	95	A
111	142311		90	100		100	95	89	85	100		85	95		85	95	A
112	142310		100	100		100	95	93	100	100		90	98		90	95	S
113	142109		100	100		100	85		95	90		85	95	82	85	95	A
114	152909		90	90	92	90	100		85	90		88	90		90	100	B
115	152918		80	100		85	100		75	100	89	65	95		65	100	B
116	152911		90	100	83	80	95		80	100		70	93		70	90	B
117	152904		100	95		100	95	89	95	100		98	93		95	90	S
118	152908		80	95		75	95		75	100	86	70	93		70	90	B
119	152913	89	80	90		90	95		75	95		78	85		80	70	A
120	152917	83	70	95		70	95		65	95		65	88		65	80	A
121	152906		90	90	84	85	90		75	90		75	75		75	75	B
122	152914		80	80		80	85		70	85		65	78	85	65	70	B
123	152927	91	90	85		85	85		80	85		73	90		70	90	B

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record $\geq A(9)$ grade in AU   L – Level   C- Count   P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	20	123	123	24	123	123	29	123	123	26	123	123	23	123	123	123
C	19	121	108	23	121	109	28	119	111	26	114	102	23	114	101	123
%	95	98.37	87.8	95.83	98.37	88.62	96.55	96.75	90.24	100	92.68	82.93	100	92.68	82.11	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C316.1</b>	<b>C316.2</b>	<b>C316.3</b>	<b>C316.4</b>	<b>C316.5</b>
<b>Obtained %</b>	<b>94.56</b>	<b>93.74</b>	<b>94.37</b>	<b>93.41</b>	<b>92.81</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C316:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C316.1	3	3	3	3	3	3	3	3
C316.2	3	3	3	3	3	3	3	3
C316.3	3	3	3	3	3	3	3	3
C316.4	3	3	3	3	3	3	3	3
C316.5	3	3	3	3	3	3	3	3
C316								<b>3</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C316.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C316.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C316.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C316.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C316.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C316 = \frac{C316.1 + C316.2 + C316.3 + C316.4 + C316.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6612 Microprocessors and Microcontrollers Lab: C317**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	98	90	90		90	90		90	90		90	90		90	90	S
2	142308		90	90	89	90	90		90	90		90	90		90	90	B
3	142022		90	90		90	90		90	90	96	90	90		90	90	B
4	142112		90	90	89	90	90		90	90		90	90		90	90	B
5	142070	80	90	90		90	90		90	90		90	90		90	90	B
6	142306		90	90		90	90		90	90		90	90	98	90	90	B
7	142063		90	90		90	90		90	90		90	90	96	90	90	B
8	142301	98	90	90		90	90		90	90		90	90		90	90	S
9	142034		90	90		90	90		90	90	92	90	90		90	90	A
10	142040	87	90	90		90	90		90	90		90	90		90	90	B
11	142071		90	90		90	90		90	90		90	90	98	90	90	B
12	142101		90	90	82	90	90		90	90		90	90		90	90	S
13	142017		90	90		90	90	84	90	90		90	90		90	90	S
14	142045		90	90		90	90	95	90	90		90	90		90	90	S
15	142302		90	90		90	90		90	90		90	90	96	90	90	S
16	142072		90	90		90	90		90	90	93	90	90		90	90	A
17	142111	94	90	90		90	90		90	90		90	90		90	90	A
18	142059	86	90	90		90	90		90	90		90	90		90	90	S
19	142050		90	90		90	90		90	90	90	90	90		90	90	B
20	142309		90	90		90	90		90	90		90	90	96	90	90	S
21	142056		90	90		90	90		90	90	89	90	90		90	90	S
22	142058		90	90		90	90		90	90	92	90	90		90	90	B
23	142004		90	90		90	90		90	90		90	90	90	90	90	S
24	142106		90	90		90	90		90	90		90	90	98	90	90	A
25	142104		90	90		90	90		90	90	80	90	90		90	90	S
26	142011	85	90	90		90	90		90	90		90	90		90	90	A
27	142041	96	90	90		90	90		90	90		90	90		90	90	S
28	142024		90	90		90	90		90	90	86	90	90		90	90	B
29	142026		90	90		90	90	82	90	90		90	90		90	90	S
30	142008		90	90		90	90		90	90	95	90	90		90	90	S
31	142038		90	90		90	90	90	90	90		90	90		90	90	A
32	142032	92	90	90		90	90		90	90		90	90		90	90	S
33	152915	80	90	90		90	90		90	90		90	90		90	90	A
34	152923		90	90		90	90		90	90	89	90	90		90	90	B
35	152920	80	90	90		90	90		90	90		90	90		90	90	B
36	152922	90	90	90		90	90		90	90		90	90		90	90	S
37	152916		90	90		90	90		90	90	85	90	90		90	90	C
38	152901		90	90		90	90		90	90		90	90	90	90	90	B
39	152928		90	90		90	90	92	90	90		90	90		90	90	A
40	162401		90	90		90	90		90	90	90	90	90		90	90	A
41	162402		90	90	92	90	90		90	90		90	90		90	90	S
42	142001		85	87		85	85	95	85	85		90	90		90	90	S
43	142012		90	87		90	90	95	90	90		90	90		90	90	S
44	142057		90	90	99	90	90		95	90		90	90		90	90	S

45	142035		90	87	90	90	90		80	80		85	85		90	90	A
46	142047		85	85	90	80	80		85	85		90	90		90	90	A
47	142108		60	60	70	60	60		60	60		60	60		80	60	B
48	142013		90	87		90	90	99	90	90		90	90		90	90	S
49	142036		90	87		90	90		85	90	99	90	90		90	90	A
50	142031		90	90	99	90	90		90	90		90	90		90	90	S
51	142074		60	60		60	60		60	60	70	60	60		60	60	S
52	142044		80	80		80	80		80	80	85	80	80		80	80	B
53	142107		90	90	90	90	90		90	90		90	90		90	90	S
54	142029		60	60	90	60	60		60	60		60	60		60	60	C
55	142016		70	70	80	70	70		70	70		70	70		70	70	B
56	142051		90	90	99	90	90		95	90		90	90		90	90	S
57	142110		90	90		90	90		90	90	99	90	90		90	90	S
58	142066		80	80	90	80	80		80	80		80	80		80	80	B
59	142073		90	87		90	85	99	90	90		90	90		90	90	A
60	142027		75	70		85	85		65	65	80	60	65		60	60	A
61	142067		60	60	70	60	60		60	60		60	60		60	60	C
62	142030		90	90		90	90	99	85	85		90	90		90	90	S
63	142061		60	60		60	60		60	60		60	60	70	60	60	D
64	142037		90	90		90	90		85	85		85	85	99	90	90	S
65	142064		90	90	99	90	90		90	90		85	85		90	90	A
66	142010		87	87		85	85	99	85	85		90	90		90	90	S
67	142025		87	90		85	85		85	90	90	90	90		90	90	A
68	142303		67	90		80	90		80	80	99	85	90		90	90	S
69	142039	99	90	90		90	90		100	95		90	90		90	90	S
70	142020		80	85	90	90	80		80	80		85	85		90	90	A
71	142028		90	90	99	90	90		85	85		90	90		90	90	S
72	142042		60	85	80	80	80		80	80		90	90		90	90	B
73	142048		90	90		90	90	99	90	90		90	90		90	90	S
74	152921		87	80	80	75	80		75	80		85	80		90	80	A
75	152912		88	70		75	60	90	75	70		80	80		80	80	B
76	152919		83	80		80	80		80	80	90	85	85		80	80	B
77	152905		80	80		85	80	90	80	80		80	80		80	80	S
78	152925		62	60	90	70	60		65	60		60	60		60	60	C
79	152910		77	60	90	70	60		65	60		60	60		60	60	B
80	152924		60	60		60	60		60	60	90	60	60		60	60	S
81	152902		90	80	90	90	70		85	80		90	90		90	90	A
82	142003	96	90	90		90	90	92	90	90		90	90		80	80	S
83	142068		90	90	94	80	80		90	90		90	90	98	90	90	S
84	142053	88	90	90		80	90		90	90	92	90	90		80	90	S
85	142007		80	90	94	90	90		90	90	90	90	90		90	90	S
86	142305	86	90	90		90	90	92	80	90		80	90		90	90	S
87	142307		90	90		80	90		90	90		90	90		90	90	S
88	142023	90	90	90		90	90	98	90	90		90	90		90	90	S
89	142055	90	90	90		90	90		90	90		90	90	94	90	90	S
90	142046	90	90	90		90	90		90	90		90	90	96	90	90	A
91	142052		90	90	96	90	90		90	90	98	90	90		80	90	S
92	142103	95	90	90		90	90		90	90		90	90	95	90	90	S
93	142021		90	90	99	90	90		90	90	95	90	90		90	90	S
94	142018		90	90	86	90	90		90	90		90	90	92	90	90	A

95	142043		90	90		90	90		90	90		90	90		90	90	A
96	142065	90	90	90		90	90	92	90	90		90	90		90	90	S
97	142060		90	90	90	90	90		90	90		90	90	90	90	90	A
98	142006	90	90	90		90	90	92	90	90		90	90		90	90	S
99	142304	90	90	90		90	90	93	90	90		90	90		90	90	A
100	142014		90	80	94	90	90		90	90		90	90	96	80	90	S
101	142015	96	90	90		90	90		90	90	98	90	90		90	90	S
102	142069		90	90		90	90	86	90	90		90	90	90	90	90	A
103	142054	90	90	90		90	90		90	90	90	90	90		90	90	B
104	142062	96	90	90		90	90	92	90	90		90	90		90	90	S
105	142019		90	90	94	90	90		90	90		90	90	98	90	90	S
106	142005	88	90	90		90	90		90	90	92	90	90		90	90	S
107	142033		90	90		90	90		90	90		90	90		90	90	S
108	142105		90	90	94	90	90		90	90	90	90	90		90	90	A
109	142002	86	90	90		90	90	92	90	90		90	90		90	90	S
110	142102		90	90	95	90	90		90	90	97	90	90		90	90	S
111	142311	92	90	90		90	90	88	90	90		90	90		90	90	S
112	142310		90	90	90	90	90		90	90		90	90	92	90	90	S
113	142109	90	90	90		90	90	94	90	90		90	90		90	90	S
114	152909		90	90		90	90	94	90	90		90	90	96	90	90	A
115	152918	93	90	90		90	90	97	90	90		90	90		90	90	S
116	152911		90	90	90	90	90		90	90		90	90	98	90	90	A
117	152904	92	90	90		90	90	88	90	90		90	90		90	90	S
118	152908	86	90	90		90	90		90	90	92	90	90		90	90	B
119	152913		90	90	84	90	90		90	90		90	90	87	90	90	A
120	152917	76	90	90		90	90	74	90	90		90	90		90	90	A
121	152906		90	90	82	90	90		90	90		90	90	86	90	90	A
122	152914	80	90	90		90	90	80	90	90		90	90		90	90	A
123	152927		90	90	82	80	90		90	90	87	90	90		90	90	A

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record $\geq A(9)$ grade in AU   L – Level   C- Count   P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	35	123	123	38	123	123	30	123	123	32	123	123	24	123	123	122
C	34	114	112	36	117	112	29	114	112	31	114	113	23	115	113	122
%	97	92.68	91.06	94.74	95.12	91.06	96.67	92.68	91.06	96.88	92.68	91.87	95.83	93.5	91.87	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C317.1</b>	<b>C317.2</b>	<b>C317.3</b>	<b>C317.4</b>	<b>C317.5</b>
<b>Obtained %</b>	<b>92.78</b>	<b>91.87</b>	<b>91.4</b>	<b>91.52</b>	<b>90.55</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C317:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C317.1	3	3	3	3	3	3	3	3
C317.2	3	3	3	3	3	3	3	3
C317.3	3	3	3	3	3	3	3	3
C317.4	3	3	3	3	3	3	3	3
C317.5	3	3	3	3	3	3	3	3
C317								<b>3</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C317.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C317.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C317.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C317.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C317.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C317 = \frac{C317.1 + C317.2 + C317.3 + C317.4 + C317.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6613 Presentation Skills and Technical Seminar: C318**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	98			99			99			98			97			A
2	142308	82			84			83			82			81			A
3	142022	83			82			82			81			86			S
4	142112	84			85			85			84			83			A
5	142070	81			86			87			84			81			A
6	142306	81			82			82			83			85			A
7	142063	82			85			87			81			82			A
8	142301	96			97			96			92			91			A
9	142034	86			87			88			84			88			S
10	142040	84			85			85			86			84			S
11	142071	95			96			94			93			92			S
12	142101	94			95			95			92			93			B
13	142017	91			92			93			93			92			A
14	142045	96			96			96			91			91			S
15	142302	95			94			93			92			91			B
16	142072	84			85			86			84			85			S
17	142111	85			86			85			84			83			S
18	142059	86			87			86			84			85			A
19	142050	96			90			92			93			94			A
20	142309	98			97			93			95			95			B
21	142056	97			92			95			96			92			B
22	142058	94			95			96			97			93			S
23	142004	85			86			85			86			87			S
24	142106	96			94			96			95			94			A
25	142104	93			92			95			95			94			B
26	142011	95			92			92			92			93			S
27	142041	93			93			93			93			92			S
28	142024	84			84			85			85			84			A
29	142026	96			95			93			93			92			B
30	142008	96			95			93			93			92			A
31	142038	84			86			85			85			84			S
32	142032	93			92			95			95			94			S
33	152915	82			87			86			86			85			A
34	152923	82			82			82			82			82			S
35	152920	80			81			81			84			83			S
36	152922	85			84			85			85			84			S
37	152916	85			85			86			84			85			S
38	152901	82			86			86			84			85			A
39	152928	83			82			82			83			83			B
40	162401	87			83			83			84			84			S
41	162402	96			84			84			85			85			A
42	142001	96			95			95			85			95			S
43	142012	98			90			97			95			90			S
44	142057	96			90			95			93			94			S

45	142035	80		80		0		80		86		S
46	142047	90		90		85		90		95		S
47	142108	95		95		95		91		92		S
48	142013	98		96		93		94		96		S
49	142036	92		98		85		93		92		S
50	142031	85		85		90		96		94		B
51	142074	90		87		88		90		90		S
52	142044	83		80		83		95		83		A
53	142107	89		93		90		96		92		A
54	142029	80		0		80		70		80		B
55	142016	90		93		90		92		70		B
56	142051	100		99		99		100		99		A
57	142110	92		90		91		94		88		S
58	142066	95		96		93		96		95		S
59	142073	92		93		92		93		89		S
60	142027	94		95		94		85		94		B
61	142067	0		70		80		70		70		S
62	142030	97		95		94		96		80		A
63	142061	0		0		80		70		60		B
64	142037	96		96		93		96		94		A
65	142064	98		98		97		97		95		A
66	142010	97		96		97		93		92		S
67	142025	80		80		85		86		82		B
68	142303	95		95		96		94		91		A
69	142039	95		96		98		92		94		A
70	142020	94		97		94		93		95		B
71	142028	99		99		99		99		99		A
72	142042	88		90		85		88		87		B
73	142048	90		96		85		89		83		B
74	152921	85		88		90		83		84		A
75	152912	80		85		82		84		86		S
76	152919	70		75		78		74		73		A
77	152905	80		85		84		82		81		S
78	152925	0		70		60		65		75		S
79	152910	83		85		88		87		89		S
80	152924	89		84		86		88		90		S
81	152902	83		82		83		84		85		A
82	142003	92		90		96		98		96		B
83	142068	88		80		92		98		82		A
84	142053	88		80		88		96		80		A
85	142007	80		60		80		80		82		A
86	142305	82		60		92		96		82		B
87	142307	80		50		88		92		82		A
88	142023	96		70		96		94		80		S
89	142055	96		80		96		99		80		A
90	142046	60		60		76		74		90		A
91	142052	68		50		80		84		72		S
92	142103	80		50		76		82		60		A
93	142021	92		80		92		99		92		S
94	142018	80		70		80		82		74		S

95	142043	0			80			84			92			86			S
96	142065	64			60			80			84			64			B
97	142060	0			50			72			74			56			S
98	142006	92			90			96			96			92			A
99	142304	0			60			72			76			62			S
100	142014	96			80			92			90			80			A
101	142015	100			90			96			99			98			A
102	142069	60			60			76			82			A			S
103	142054	92			60			72			72			A			B
104	142062	88			90			92			98			92			A
105	142019	84			80			92			99			80			S
106	142005	88			70			84			88			84			B
107	142033	68			70			88			94			88			A
108	142105	76			70			84			76			80			B
109	142002	68			80			92			94			90			A
110	142102	76			50			88			90			70			S
111	142311	80			70			84			92			78			S
112	142310	76			80			92			94			84			A
113	142109	80			60			72			84			78			S
114	152909	0			50			80			86			72			S
115	152918	60			60			80			78			80			S
116	152911	52			60			80			72			72			S
117	152904	60			50			88			96			70			S
118	152908	60			50			72			72			72			A
119	152913	0			50			72			74			70			S
120	152917	0			50			72			78			70			B
121	152906	60			60			80			72			72			S
122	152914	0			40			72			72			70			S
123	152927	60			50			80			78			74			A

**Benchmark:** % of Students secured  $\geq 80$  marks in Model,  $\geq 70$  in Viva,  $\geq 80$  in Record  $\geq A(9)$  grade in AU | L – Level | C- Count | P – Total Present

	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	123			123			123			123			121			123
C	97			89			109			105			98			123
%	78.86			72.36			88.62			85.37			80.99			100
L	2			2			3			3			3			3

### Attainment Calculation:

#### Survey:

Survey	C318.1	C318.2	C318.3	C318.4	C318.5
Obtained %	92.85	93.76	91.23	91.28	90.73
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C318:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C318.1	2			2	3	2.6	3	2.68
C318.2	2			2	3	2.6	3	2.68
C318.3	3			3	3	3	3	3
C318.4	3			3	3	3	3	3
C318.5	3			3	3	3	3	3
C318								<b>2.87</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C318.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C318.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C318.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C318.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C318.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C318 = \frac{C318.1 + C318.2 + C318.3 + C318.4 + C318.5}{5} = 2.87$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6701 High Voltage Engineering: C401  
Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO4	CO5	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	142009	72	80	94	74	80	90	90	100	90	90	90	90	B
2	142308	57	70	A	A	65	90	90	100	90	90	90	90	C
3	142112	30	40	61	56	58	90	90	100	90	90	90	90	D
4	142022	64	50	65	76	65	90	90	100	90	90	90	90	D
5	142070	25	40	54	50	50	90	90	100	90	90	90	90	E
6	142306	0	0	51	50	50	90	90	100	90	90	90	90	U
7	142063	36	50	60	54	50	90	90	100	90	90	90	90	E
8	142301	60	70	90	86	88	90	90	100	90	90	90	90	B
9	142034	80	65	90	86	70	90	90	100	90	90	90	90	B
10	142040	50	55	38	45	50	90	90	100	90	90	90	90	E
11	142071	60	65	90	78	88	90	90	100	90	90	90	90	E
12	142101	60	70	78	86	75	90	90	100	90	90	90	90	B
13	142017	62	50	69	82	70	90	90	100	90	90	90	90	C
14	142045	76	60	91	95	90	90	90	100	90	90	90	90	A
15	142302	36	40	A	A	75	90	90	100	90	90	90	90	E
16	142072	32	45	74	52	55	90	90	100	90	90	90	90	U
17	142111	36	50	42	50	55	90	90	100	90	90	90	90	U
18	142059	88	63	92	80	92	90	90	100	90	90	90	90	D
19	142050	60	50	80	78	68	90	90	100	90	90	90	90	D
20	142309	A	A	91	85	96	90	90	100	90	90	90	90	B
21	142056	68	64	86	83	98	90	90	100	90	90	90	90	C
22	142058	60	64	90	86	80	90	90	100	90	90	90	90	D
23	142106	34	42	76	58	60	90	90	100	90	90	90	90	D
24	142004	66	64	74	80	96	90	90	100	90	90	90	90	B
25	142104	60	50	65	58	80	90	90	100	90	90	90	90	C
26	142011	46	18	74	50	80	90	90	100	90	90	90	90	A
27	142041	44	50	79	70	85	90	90	100	90	90	90	90	E
28	142024	42	34	70	68	75	90	90	100	90	90	90	90	D
29	142026	64	66	74	86	0	90	90	100	90	90	90	90	D
30	142008	74	80	80	91	80	90	90	100	90	90	90	90	C
31	142038	64	60	61	75	75	90	90	100	90	90	90	90	D
32	142032	70	65	80	84	80	90	90	100	90	90	90	90	C
33	152915	42	36	80	75	70	80	80	90	90	90	90	90	E
34	152923	24	12	43	50	40	80	80	90	90	90	90	90	C
35	152920	38	17	67	65	40	80	80	90	90	90	90	90	U
36	152922	34	44	38	40	50	80	80	90	90	90	90	90	C
37	152916	46	48	75	70	65	80	80	90	90	90	90	90	E
38	152901	40	44	44	20	45	80	80	90	90	90	90	90	U
39	152928	46	50	71	65	68	80	80	90	90	90	90	90	B
40	162402	74	72	90	85	85	80	80	90	90	90	90	90	D
41	162401	A	A	87	60	60	80	80	90	90	90	90	90	D
42	142001	60	20	92	68	80	70	80	90	90	90	90	90	C
43	142012	64	68	100	96	A	90	90	90	90	90	90	90	C
44	142057	A	A	100	44	96	90	90	90	90	90	90	90	D
45	142035	32	48	20	44	80	90	90	90	90	90	90	90	C

46	142047	50	22	30	70	80	90	90	90	90	80	90	90	E
47	142108	60	44	64	56	52	80	90	90	90	90	80	80	B
48	142013	68	60	60	76	A	90	90	90	90	90	90	90	E
49	142036	60	52	52	68	96	90	90	90	90	80	90	90	U
50	142067	60	56	56	64	92	90	80	90	90	90	90	90	D
51	142031	70	30	60	80	88	90	90	90	90	90	90	80	C
52	142074	70	42	64	76	A	90	90	90	90	70	90	90	U
53	142044	70	82	72	68	80	90	90	90	90	90	90	90	C
54	142107	32	60	40	24	56	80	90	90	90	90	90	90	E
55	142029	40	60	60	20	80	80	90	90	80	90	80	90	B
56	142016	66	70	70	62	96	90	90	90	90	90	90	90	C
57	142051	60	28	50	70	A	90	90	90	90	80	90	80	B
58	142110	40	20	42	38	56	80	90	80	80	90	80	80	B
59	142066	52	68	66	48	96	90	90	90	90	90	90	90	D
60	142073	44	40	22	66	A	80	90	80	90	80	90	90	B
61	142027	34	42	46	32	80	80	90	80	80	90	90	80	D
62	142030	64	68	66	62	96	90	90	90	90	80	80	80	C
63	142061	28	0	46	0	88	70	90	80	80	80	80	80	UA
64	142037	86	84	99	99	96	90	90	90	90	90	90	90	E
65	142064	60	12	94	78	99	90	90	90	90	90	90	80	B
66	142010	48	60	98	98	96	90	90	90	90	90	90	80	A
67	142025	52	60	78	86	96	80	90	90	90	90	90	80	B
68	142303	32	68	A	A	84	90	90	80	90	90	90	90	D
69	142039	62	98	92	80	80	90	80	90	90	80	90	90	C
70	142020	36	40	30	10	84	90	80	90	90	80	90	80	E
71	142028	40	38	64	60	92	90	90	90	90	80	90	80	D
72	142042	36	0	20	60	76	80	70	80	80	80	90	80	E
73	142048	32	68	12	60	88	90	90	80	90	90	80	80	C
74	152921	26	22	18	54	60	90	90	80	90	90	80	80	B
75	152912	46	54	62	20	84	80	70	90	90	90	80	90	B
76	152919	12	0	24	0	16	80	90	60	80	90	70	90	B
77	152905	60	12	60	60	92	90	90	90	90	90	70	80	C
78	152925	40	0	64	26	52	80	80	90	80	90	80	80	B
79	152910	28	80	16	40	96	80	80	80	90	80	80	80	D
80	152924	36	0	28	44	76	80	80	80	80	80	80	70	B
81	152902	12	16	16	8	60	70	80	90	80	80	80	80	E
82	142003	50	44	96	80	80	90	100	100	90	90	90	90	E
83	142068	82	78	95	79	88	90	100	100	90	90	90	90	E
84	142053	88	60	86	81	95	90	100	100	90	90	90	90	B
85	142007	80	70	A	A	65	80	100	100	90	90	90	90	E
86	142305	78	65	96	80	82	90	100	100	90	90	90	90	D
87	142307	84	76	80	96	84	90	100	100	100	90	100	90	D
88	142023	56	46	82	85	80	90	100	100	100	90	100	90	A
89	142055	75	88	A	A	90	90	100	100	90	90	90	90	B
90	142046	34	65	76	82	75	90	100	100	90	90	90	90	C
91	142052	84	70	84	82	65	80	100	100	90	90	90	90	U
92	142103	58	46	92	90	75	90	100	100	90	90	90	90	C
93	142021	72	58	98	84	90	100	100	100	90	90	90	90	C
94	142018	78	82	74	60	87	90	100	100	90	90	90	90	E
95	142043	98	85	84	80	65	90	100	100	90	90	90	90	C

96	142065	75	80	74	60	50	100	100	100	90	90	90	90	D
97	142060	80	70	92	88	45	90	100	100	90	90	90	90	D
98	142006	43	60	16	35	80	90	100	100	90	90	90	90	U
99	142304	74	84	74	60	70	90	100	100	90	90	90	90	E
100	142014	88	66	92	78	85	90	100	100	90	90	90	90	D
101	142015	96	84	90	74	A	90	100	100	90	90	90	90	C
102	142069	48	70	84	88	40	90	100	100	90	90	90	90	B
103	142054	38	50	74	60	48	90	100	100	90	90	90	90	E
104	142062	82	69	80	87	92	90	100	100	90	90	90	90	U
105	142019	72	53	96	80	98	90	100	100	90	90	90	90	D
106	142005	65	81	16	35	88	80	100	100	90	90	90	90	U
107	142033	A	A	98	82	80	90	100	100	90	90	90	90	U
108	142105	50	34	70	54	80	90	100	100	90	90	90	90	U
109	142002	70	62	92	78	75	90	100	100	90	90	90	90	C
110	142102	68	74	90	75	85	80	100	100	90	90	90	90	D
111	142311	70	64	82	85	88	90	100	100	90	90	90	90	C
112	142310	82	64	71	80	70	90	100	100	90	90	90	90	C
113	142109	34	50	74	86	70	80	100	100	90	90	90	90	U
114	152909	50	34	85	76	75	80	100	90	80	90	80	90	U
115	152918	24	0	88	90	76	90	100	90	80	90	80	90	C
116	152911	4	4	70	75	50	90	100	90	80	90	80	90	E
117	152904	50	36	96	90	86	80	100	90	80	90	80	90	E
118	152908	34	30	85	84	56	80	100	90	80	90	80	90	D
119	152913	44	30	80	87	60	80	100	90	80	90	80	90	U
120	152917	0	0	70	85	60	80	100	90	80	90	80	90	U
121	152906	18	38	60	70	85	80	100	90	80	90	80	90	E
122	152914	32	26	18	38	50	80	100	90	80	90	80	90	B
123	152927	12	24	60	70	65	80	100	90	80	90	80	90	B

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |

L – Level, C-Count

	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO4	CO5	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
C	57	54	90	84	93	120	121	122	123	123	123	123	55
%	47.9	45.38	76.27	71.19	79.49	97.56	98.37	99.19	100	100	100	100	45.08
L	0	0	2	2	2	3	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C401.1	C401.2	C401.3	C401.4	C401.5
Obtained %	94.62	96.03	96.04	96.65	95.07
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C401:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C401.1	0	-	-	-		0	0	0	3	0.6
C401.2	0	3	-	-		0.9	0	0.36	3	0.89
C401.3	2	3	-	-		2.3	0	0.92	3	1.34
C401.4	2	3	3	3		2.4	0	0.96	3	1.37
C401.5	2	-	3	3		2	0	0.8	3	1.24
<b>C401</b>										<b>1.09</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C401.1	AU Exam	[1*Internal Test]
C401.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C401.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C401.4	AU Exam	[0.6*Internal Test + 0.2*Assignment + 0.1*Seminars + 0.1*Quiz]
C401.5	AU Exam	[0.8*Internal Test + 0.1*Seminars + 0.1*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C401 = \frac{C401.1 + C401.2 + C401.3 + C401.4 + C401.5}{5} = 1.09$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6702 Protection and Switchgear: C402**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO3	CO5	CO4	CO5	CO2	CO3	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	142009	68	72	92	92	92	100	100	100	100	100	100	90	C
2	142308	64	64	58	50	64	90	100	90	95	90	90	80	D
3	142022	60	56	52	64	72	90	80	90	85	80	100	70	E
4	142112	20	24	36	20	60	90	100	80	85	70	100	60	U
5	142070	4	4	50	54	50	70	100	80	85	70	100	60	E
6	142306	56	48	32	68	60	90	90	80	90	80	70	60	U
7	142063	28	20	28	16	52	90	100	90	90	70	100	100	U
8	142301	92	92	76	80	96	100	100	100	95	100	100	90	C
9	142034	60	84	92	76	72	90	0	90	95	90	90	90	D
10	142040	24	20	16	8	52	90	80	80	80	80	100	100	C
11	142071	56	56	92	56	92	100	100	100	90	100	100	90	C
12	142101	A	A	84	64	88	90	0	90	98	100	90	100	B
13	142017	60	48	64	92	76	90	0	90	95	90	80	80	B
14	142045	68	92	92	88	92	100	100	100	90	100	100	90	D
15	142302	50	54	A	A	88	100	100	100	95	100	100	80	U
16	142072	50	50	50	50	50	90	0	80	80	80	10	80	U
17	142111	46	54	48	56	56	90	100	80	95	90	90	80	U
18	142059	80	84	88	100	96	100	100	100	95	100	100	90	B
19	142050	46	54	32	12	50	90	0	80	80	80	100	100	U
20	142309	A	A	68	84	96	100	100	100	98	100	100	0	B
21	142056	60	80	90	74	88	100	100	100	95	100	100	90	U
22	142058	48	56	80	76	64	90	90	90	90	100	100	80	E
23	142106	40	60	55	70	80	90	90	90	90	90	100	70	E
24	142004	64	88	76	96	96	100	100	100	96	100	100	100	E
25	142104	50	50	56	84	80	90	0	80	90	90	90	80	E
26	142011	72	56	32	88	72	100	100	90	90	90	50	60	C
27	142041	92	32	56	44	76	90	80	90	95	100	100	60	E
28	142024	72	40	76	64	56	90	80	80	85	80	70	80	D
29	142026	72	88	84	92	92	90	90	100	95	100	30	100	B
30	142008	96	44	96	92	96	100	100	100	95	100	100	90	A
31	142038	50	50	A	A	92	100	80	90	90	100	100	100	C
32	142032	68	60	92	88	96	100	100	100	90	100	100	90	C
33	152915	68	32	68	52	72	90	100	90	95	90	100	90	D
34	152923	50	58	50	50	56	90	90	90	90	80	100	100	E
35	152920	52	48	50	50	16	80	0	70	85	70	100	60	D
36	152922	24	24	44	24	60	90	100	90	75	80	100	80	E
37	152916	48	52	64	36	68	90	90	90	80	90	80	100	C
38	152901	4	0	60	60	12	80	100	90	80	70	100	70	D
39	152928	54	46	68	72	60	100	100	90	80	90	90	70	E
40	162401	12	12	44	4	80	90	100	90	85	80	90	80	E
41	162402	56	76	88	84	92	100	100	100	90	100	100	70	B
42	142001	92	88	72	72	72	90	90	90	90	90	70	90	C
43	142012	52	96	92	100	A	90	90	90	90	90	80	90	B
44	142057	A	A	A	A	80	90	90	90	80	90	90	90	C
45	142035	52	64	56	88	68	90	90	90	90	90	80	90	D

46	142047	84	36	92	84	56	90	90	80	80	90	70	80	C
47	142108	36	92	72	28	68	90	80	90	90	90	80	90	E
48	142013	60	96	64	68	A	90	90	90	90	90	80	90	B
49	142036	72	76	84	76	96	90	90	90	90	90	90	90	B
50	142067	56	88	84	96	92	90	90	90	90	90	80	90	B
51	142031	68	68	84	84	84	90	90	90	90	90	90	90	C
52	142074	88	92	96	96	88	90	80	90	90	80	80	90	B
53	142044	72	84	96	88	80	90	90	90	90	90	90	90	B
54	142107	67	67	76	52	52	90	90	90	90	90	80	90	C
55	142029	40	68	96	80	92	90	90	90	80	90	90	90	C
56	142016	92	92	88	88	80	90	90	90	90	80	80	90	C
57	142051	60	88	A	A	80	90	90	90	80	90	80	90	B
58	142110	80	24	76	32	72	90	90	90	80	90	90	90	E
59	142066	52	84	A	A	88	90	80	90	90	90	80	90	E
60	142073	28	80	44	84	A	90	90	90	90	90	80	80	C
61	142027	28	80	80	52	52	90	90	90	90	90	90	90	U
62	142030	84	76	88	96	88	90	90	90	90	90	90	90	C
63	142061	4	16	40	0	16	90	90	90	90	90	80	90	U
64	142037	56	92	98	100	96	90	90	90	90	90	80	90	B
65	142064	76	76	98	84	96	90	90	90	90	90	80	90	C
66	142010	48	60	A	A	88	90	90	80	90	90	80	90	B
67	142025	62	62	84	88	68	80	80	80	90	90	90	90	C
68	142303	52	68	80	92	84	80	90	70	80	90	90	90	C
69	142039	76	92	92	96	92	90	100	100	90	90	80	90	B
70	142020	44	56	68	80	84	80	80	80	80	80	80	90	D
71	142028	48	56	72	80	84	70	90	70	90	90	90	90	B
72	142042	60	40	64	40	76	70	90	80	90	90	90	90	UA
73	142048	64	92	72	76	76	90	90	80	90	80	80	90	D
74	152921	84	16	68	64	68	90	80	80	90	90	90	90	E
75	152912	74	74	84	72	60	90	70	90	90	90	90	90	C
76	152919	16	44	32	44	16	90	80	80	80	80	90	90	U
77	152905	48	56	64	80	56	70	90	90	80	90	80	90	E
78	152925	38	38	28	48	52	80	80	80	70	90	80	90	U
79	152910	52	92	84	68	60	90	70	80	80	90	80	90	C
80	152924	64	64	44	20	84	70	80	80	80	80	90	90	U
81	152902	84	56	76	72	52	90	70	70	80	80	90	90	E
82	142003	92	88	96	92	96	100	100	100	100	100	90	90	B
83	142068	84	100	70	74	92	100	100	100	100	100	90	80	D
84	142053	60	63	20	12	92	100	100	100	100	100	90	90	C
85	142007	56	60	68	76	88	100	100	90	90	100	90	100	B
86	142305	88	83	78	74	92	100	100	80	90	100	90	100	D
87	142307	60	57	A	A	88	100	100	100	90	90	90	100	C
88	142023	76	77	92	76	92	90	100	100	90	90	90	100	C
89	142046	12	27	44	64	92	100	100	80	90	90	90	90	U
90	142055	36	97	74	58	92	90	100	60	70	100	80	90	B
91	142052	92	80	76	80	88	80	100	100	100	100	90	90	C
92	142103	72	63	70	80	88	100	100	100	100	100	90	90	C
93	142021	88	100	92	84	96	100	100	100	100	90	90	90	C
94	142018	64	70	44	60	88	80	100	100	100	90	80	90	U
95	142043	72	87	72	76	88	80	100	100	100	90	90	90	U

96	142065	48	50	48	28	92	100	100	100	100	90	80	90	U
97	142006	88	87	84	80	96	80	100	100	100	100	90	90	C
98	142304	56	30	60	60	88	100	100	100	100	90	80	90	E
99	142014	76	60	A	A	92	100	100	100	100	90	90	90	B
100	142015	92	100	98	94	96	100	100	100	100	90	90	90	B
101	142069	28	20	68	0	80	80	100	100	90	100	60	100	U
102	142054	36	37	60	20	80	100	100	90	90	100	60	100	D
103	142062	60	93	62	82	88	100	100	100	90	100	90	100	D
104	142019	80	78	74	54	88	100	100	90	80	100	90	90	C
105	142005	68	78	90	70	92	90	100	90	90	100	90	90	C
106	142033	96	100	88	96	92	100	100	90	100	90	90	90	B
107	142105	56	60	56	44	92	100	100	90	60	90	90	90	E
108	142002	92	88	96	96	92	80	100	90	90	90	80	90	E
109	142102	72	62	64	80	92	100	100	90	80	90	90	90	C
110	142311	88	50	72	72	96	100	100	90	80	90	90	90	C
111	142310	76	94	84	84	92	100	100	100	90	90	90	90	B
112	142109	56	68	84	84	88	80	100	100	90	90	80	90	C
113	152909	16	30	68	48	84	80	100	90	90	100	80	90	E
114	152918	16	38	84	64	80	100	100	90	90	100	40	90	E
115	152911	28	8	48	88	80	100	100	90	90	100	60	90	U
116	152904	64	74	64	64	88	100	100	90	90	90	80	100	B
117	152908	32	38	40	64	80	80	100	90	70	90	40	100	D
118	152913	32	54	72	68	80	80	100	90	70	90	40	90	E
119	152917	32	57	32	40	80	80	100	100	70	90	40	90	C
120	152906	52	80	52	48	80	80	100	100	70	100	90	90	E
121	152914	36	50	24	36	80	80	100	90	70	100	60	90	U
122	152927	52	60	84	60	82	80	100	90	70	90	90	90	U
123	142060	44	73	24	68	88	100	100	90	70	90	70	90	C

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO3	CO5	CO4	CO5	CO2	CO3	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
C	61	68	80	79	102	118	113	118	122	123	112	116	62
%	50.83	56.67	70	68.7	85	95.93	91.87	95.93	99.19	100	91.06	94.31	50.82
L	0	0	2	1	3	3	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C402.1	C402.2	C402.3	C402.4	C402.5
Obtained %	97.19	96.58	95.99	96.16	96.99
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C402:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C402.1	0	3	-	-		0.9	0	0.36	3	0.89
C402.2	0	-	-	3		0.6	0	0.24	3	0.79
C402.3	2	3	-	3		2.3	0	0.92	3	1.34
C402.4	1	-	3	-		1.4	0	0.56	3	1.05
C402.5	3	3	3	-		3	0	1.2	3	1.56
<b>C402</b>										<b>1.13</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C402.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C402.2	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C402.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C402.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C402.5	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C402 = \frac{C402.1 + C402.2 + C402.3 + C402.4 + C402.5}{5} = 1.13$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course:EE6703 Special Electrical Machines: C403**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	142009	74	74	96	84	92	90	90	90	95	95	90	90	B
2	142308	56	97	66	50	36	90	90	90	90	90	90	80	E
3	142112	65	65	68	56	56	90	90	90	90	90	90	80	E
4	142022	80	65	76	70	50	80	90	90	80	85	90	80	D
5	142070	50	30	64	88	36	90	80	90	80	85	90	80	U
6	142306	84	20	68	4	50	80	85	80	90	90	90	80	E
7	142063	32	70	68	64	36	90	90	90	80	85	70	80	U
8	142301	74	74	92	96	74	90	90	90	90	90	90	90	C
9	142034	76	68	68	68	76	90	90	80	90	90	90	80	C
10	142040	52	80	60	40	52	90	90	80	85	90	90	80	E
11	142071	68	80	80	84	68	90	90	90	90	90	90	90	B
12	142101	70	70	84	66	70	80	90	80	90	90	90	80	C
13	142017	70	75	66	86	70	80	90	80	95	95	90	80	B
14	142045	88	80	96	92	88	90	90	90	95	95	90	90	B
15	142302	72	68	84	68	72	90	90	90	95	95	90	90	C
16	142072	44	70	66	70	44	80	90	80	80	85	80	80	U
17	142111	56	70	70	66	56	90	90	90	80	85	90	80	U
18	142059	76	76	92	92	76	90	90	90	95	90	90	80	B
19	142050	65	68	76	72	65	90	90	90	85	90	90	80	C
20	142309	68	72	84	68	68	90	90	90	95	95	90	90	B
21	142056	82	82	84	88	82	90	90	90	90	90	90	90	B
22	142058	68	72	92	88	68	90	90	90	90	90	90	90	C
23	142106	56	66	76	52	72	80	80	90	85	90	90	80	C
24	142004	88	68	92	92	96	90	80	90	90	95	95	90	B
25	142104	20	20	36	68	56	90	90	80	80	80	80	80	U
26	142011	68	68	96	92	84	90	90	90	80	90	85	90	C
27	142041	70	68	92	32	50	80	80	80	80	90	80	80	C
28	142024	36	40	76	84	20	90	90	80	80	80	70	80	C
29	142026	84	76	88	88	32	90	80	90	90	90	80	80	B
30	142008	88	80	96	96	98	90	90	90	90	95	90	90	B
31	142038	50	72	40	36	88	90	90	80	80	90	80	90	E
32	142032	82	86	80	80	84	90	90	90	90	90	90	80	B
33	152915	70	68	76	72	50	90	90	90	80	90	90	80	C
34	152923	64	20	68	32	52	90	90	90	70	90	70	80	U
35	152920	40	16	20	36	16	80	80	80	70	90	70	80	D
36	152922	40	16	44	36	36	80	80	90	80	90	70	80	E
37	152916	40	68	72	68	50	80	90	90	80	90	80	90	D
38	152901	20	18	48	24	8	90	80	90	80	90	60	60	E
39	152928	68	65	88	72	64	90	90	90	80	90	80	80	E
40	162402	92	70	92	92	80	90	90	90	90	90	80	90	C
41	162401	50	65	44	44	72	90	90	90	80	90	80	80	C
42	142001	0	94	88	81	8	100	100	100	100	100	70	100	B
43	142012	88	77	92	84	56	100	100	80	100	100	80	100	A
44	142057	76	57	68	70	44	100	100	80	100	100	70	100	E
45	142035	80	80	76	64	46	80	100	100	100	100	70	100	U

46	142047	64	76	96	34	84	80	100	90	100	100	70	100	C
47	142108	32	60	A	80	48	90	100	90	90	100	60	100	U
48	142013	A	83	92	86	48	100	90	90	100	100	70	100	B
49	142036	76	80	80	72	92	100	90	100	100	100	60	100	C
50	142067	80	97	96	88	88	90	90	90	100	100	70	100	B
51	152921	64	80	50	50	60	100	90	100	100	100	90	100	E
52	142031	64	73	80	64	84	100	90	90	100	100	60	100	C
53	152912	32	77	72	84	40	100	100	100	100	100	90	100	C
54	142074	40	100	84	78	88	100	80	100	100	100	70	90	C
55	152919	0	16	A	0	12	100	100	80	100	100	90	100	U
56	142044	50	100	88	64	92	90	90	100	100	100	70	90	B
57	142107	24	46	72	80	40	100	100	100	100	100	70	100	C
58	142029	60	100	96	70	44	100	90	100	100	100	80	100	C
59	142016	68	90	A	82	96	100	100	100	100	100	80	100	B
60	142051	88	93	80	78	80	100	90	100	100	100	80	100	C
61	142110	20	76	32	68	36	100	100	100	100	100	80	100	U
62	152905	64	70	76	64	44	100	100	80	100	100	70	100	E
63	152925	28	50	A	22	52	100	100	80	100	80	60	100	E
64	152910	50	90	84	88	52	100	100	80	100	100	70	100	D
65	142066	88	69	68	96	84	100	90	100	100	100	80	100	B
66	142073	52	47	8	60	A	100	90	100	100	100	90	100	C
67	142027	8	30	76	70	36	100	100	100	100	100	90	100	U
68	152924	A	66	60	70	88	100	100	80	100	100	70	100	U
69	142030	96	87	68	78	88	100	100	90	100	100	80	100	C
70	152902	44	97	50	50	92	100	100	90	100	100	60	100	U
71	142061	A	10	92	A	44	0	100	0	100	100	70	100	U
72	142037	68	97	96	70	A	100	100	100	100	100	90	100	A
73	142064	84	97	96	66	A	100	100	100	100	100	90	100	D
74	142010	8	87	88	76	76	100	100	100	100	100	90	100	A
75	142025	48	100	88	58	48	100	90	100	100	100	80	100	D
76	142303	72	80	64	60	28	80	90	90	100	100	80	100	E
77	142039	88	93	88	84	100	100	100	90	100	100	80	100	B
78	142020	64	56	84	34	24	90	80	80	100	100	80	100	C
79	142028	44	80	76	50	40	90	90	100	100	100	80	100	D
80	142042	68	84	0	60	92	90	100	100	100	100	70	100	UA
81	142048	72	93	96	70	A	100	100	100	100	100	90	100	E
82	142003	70	70	88	88	80	80	90	90	90	95	90	90	B
83	142068	84	68	88	68	84	80	90	90	95	95	95	90	B
84	142053	84	65	76	66	56	80	90	90	90	95	95	80	A
85	142007	68	65	66	46	56	90	90	80	85	90	90	80	C
86	142305	70	65	68	72	68	80	90	90	95	90	95	80	C
87	142307	80	68	68	56	60	80	90	90	85	90	90	80	C
88	142023	65	68	84	68	80	90	80	80	90	95	85	90	D
89	142046	25	25	48	72	50	80	90	80	85	90	85	90	D
90	142055	65	65	88	92	52	80	80	80	80	90	85	90	B
91	142052	65	65	84	68	50	90	80	80	85	90	90	80	B
92	142103	72	65	88	72	60	90	90	90	80	90	95	80	B
93	142021	88	70	96	88	52	80	90	90	90	90	85	90	A
94	142018	65	68	92	68	76	90	90	90	80	90	85	90	D
95	142043	60	80	80	66	68	90	80	80	80	90	90	90	A

96	142065	76	80	66	66	66	80	80	90	80	90	85	90	U
97	142006	50	65	40	24	66	90	90	80	80	90	85	90	C
98	142304	44	65	80	66	52	90	90	80	80	90	90	80	C
99	142014	88	60	86	68	52	80	80	80	85	90	95	90	B
100	142015	92	84	92	84	68	80	90	90	90	90	85	90	A
101	142069	52	80	76	76	60	90	80	80	80	90	85	90	E
102	142054	88	65	68	44	50	80	80	80	80	90	90	80	D
103	142062	72	68	88	88	84	80	90	90	90	90	90	90	C
104	142019	76	60	70	70	60	80	90	90	90	95	90	90	A
105	142005	72	48	72	76	92	90	90	80	85	90	80	80	C
106	142033	A	A	88	80	96	90	90	90	90	90	90	90	C
107	142105	50	8	24	66	50	90	90	80	85	90	85	80	D
108	142002	84	68	92	72	50	90	80	80	85	90	85	80	B
109	142102	68	65	96	84	76	80	90	90	85	90	90	90	A
110	142311	68	65	80	76	72	90	90	90	85	90	95	80	C
111	142310	60	68	80	84	84	80	90	90	90	90	95	90	C
112	142109	64	68	68	68	72	90	80	90	85	90	90	90	E
113	152909	24	16	82	82	88	80	90	80	80	90	85	90	D
114	152918	40	68	66	66	72	80	90	80	80	90	80	80	U
115	152911	68	40	20	44	60	90	90	80	80	90	80	80	D
116	152904	68	65	80	88	36	80	90	90	85	80	80	80	C
117	152908	20	65	80	72	52	90	90	90	80	80	85	90	U
118	152913	50	68	68	52	76	90	90	80	80	80	80	80	E
119	152917	32	76	56	68	84	80	90	90	80	80	80	90	C
120	152906	40	84	88	68	32	90	90	90	80	80	80	90	D
121	152914	0	60	52	48	72	90	90	80	80	80	80	80	U
122	152927	52	57	66	66	80	90	90	80	80	80	80	80	E
123	142060	65	68	88	76	56	80	90	80	90	90	80	80	C

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |

L – Level, C-Count

	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
C	75	100	102	95	65	122	123	122	123	123	117	122	71
%	63.03	81.97	85.71	77.87	54.62	99.19	100	99.19	100	100	95.12	99.19	58.2
L	1	3	3	2	0	3	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C403.1	C403.2	C403.3	C403.4	C403.5
Obtained %	97.39	97.79	96.4	96.21	97.81
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C403:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C403.1	1	3	-	-		1.6	0	0.64	3	1.11
C403.2	3	3	3	-		3	0	1.2	3	1.56
C403.3	3	3	3	-		3	0	1.2	3	1.56
C403.4	2	-	-	3		2.2	0	0.88	3	1.3
C403.5	0	-	-	3		0.6	0	0.24	3	0.79
<b>C403</b>										<b>1.26</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C403.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C403.2	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C403.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C403.4	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C403.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C403 = \frac{C403.1 + C403.2 + C403.3 + C403.4 + C403.5}{5} = 1.26$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: MG6851 Principles of Management: C404**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO1	CO3	CO2	CO4	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
1	142009	88	72	88	88	96	99	91	99	99	99	92	96	A
2	142308	88	56		a	90	97	97	95	98	95	99	94	B
3	142112	80	70	68	68	80	96	95	98	96	93	91	99	E
4	142022	88	46	80	80	87	99	97	97	99	91	94	93	B
5	142070	8	6	0	0	90	85	94	93	87	90	95	92	B
6	142306	88	62	76	76	91	92	92	92	93	97	99	95	C
7	142063	48	50	56	56	96	99	96	95	99	96	94	99	U
8	142301	88	88	92	92	95	98	98	96	99	98	99	90	B
9	142034	A	58	76	76	94	96	90	97	98	95	98	93	C
10	142040	A	34	32	32	90	95	94	99	92	94	91	95	E
11	142071	84	52	92	92	88	93	96	90	95	92	96	96	A
12	142101	88	22	72	72	78	99	99	95	99	90	94	99	A
13	142017	A	70	80	80	84	94	99	93	98	99	92	92	C
14	142045	88	72	96	96	70	97	91	95	99	98	96	95	C
15	142302	88	74	88	88	75	92	95	99	99	97	97	99	D
16	142072	36	32	40	40	74	91	97	96	90	95	95	98	C
17	142111	88	46	80	80	70	90	99	99	89	93	92	97	A
18	142059	96	A	92	92	78	88	91	92	96	91	99	95	B
19	142050	92	50	76	76	60	94	92	97	91	99	96	94	U
20	142309	92	76	92	92	60	92	95	95	98	91	94	92	B
21	142056	88	72	88	88	58	99	97	99	99	92	91	91	C
22	142058	92	68	92	92	64	94	96	92	98	96	99	90	D
23	142106	60	44	64	64	68	92	96	99	94	95	98	90	U
24	142004	A	72	92	92	65	97	94	97	99	99	96	99	B
25	142104	72	48	76	76	64	99	91	91	97	99	90	97	C
26	142011	72	14	84	84	80	94	98	92	96	97	94	93	E
27	142041	84	44	88	88	85	93	95	94	98	96	99	96	C
28	142024	12	48		a	70	94	99	99	95	95	91	97	B
29	142026	88	58	80	80	89	96	93	98	97	96	97	99	C
30	142008	88	76	96	96	91	97	99	97	99	94	95	95	B
31	142038	72	28	80	80	92	99	98	96	93	96	94	96	C
32	142032	84	68	92	92	90	97	95	91	96	99	99	90	E
33	152915	20	34	60	60	89	94	97	90	94	96	96	94	U
34	152923	16	48	64	64	89	93	94	92	94	93	99	96	D
35	152920	4	24	40	40	90	92	99	93	93	91	99	91	E
36	152922	20	42	72	72	92	90	90	96	91	92	97	98	E
37	152916	32	34	76	76	93	88	92	98	90	93	99	96	U
38	152901	48	50	84	84	87	99	91	99	88	93	90	92	U
39	152928	8	50	80	80	86	94	90	90	96	96	91	99	E
40	162401	92	66		88	80	93	99	99	99	99	99	98	E
41	162402	8	40	80	80	70	90	98	91	94	91	94	92	C
42	142001	4	57	A	76	92	91	91	99	99	92	91	99	D
43	142012	92	99	70	92	93	92	92	98	98	99	99	98	C
44	142057	92	99	68	88	94	98	93	97	97	98	98	98	B
45	142035	72	47	56	88	97	94	96	96	94	97	97	97	U

46	142047	76	70	46	88	99	96	98	95	96	96	91	94	D
47	142108	32	73	50	A	98	97	99	94	98	99	94	93	B
48	142013	88	97	70	84	99	98	99	99	97	98	93	93	B
49	142036	88	83	74	88	92	91	98	98	96	95	93	91	B
50	142067	88	99	72	92	98	90	97	91	95	94	98	99	C
51	142031	88	80	58	88	95	85	96	93	94	93	91	96	C
52	142074	84	87	68	88	96	91	99	96	94	92	94	96	A
53	142044	88	97	72	84	96	94	98	91	96	91	91	97	A
54	142107	88	90	56	88	96	95	97	99	98	99	99	97	B
55	142029	80	90	56	88	95	88	95	98	99	99	98	95	B
56	142016	88	99	80	A	95	80	94	94	94	97	99	95	C
57	142051	84	99	64	72	95	91	93	95	92	95	91	99	D
58	142110	40	43	46	A	96	93	99	97	96	96	94	98	U
59	142066	84	99	A	A	99	97	98	99	99	94	95	97	D
60	142073	80	80	62	88	98	85	99	91	98	99	96	97	C
61	142027	A	67	60	72	99	98	91	92	99	99	97	91	C
62	142030	88	93	70	84	99	92	92	99	96	98	98	99	D
63	142061	A	80	62	A	95	90	99	98	92	97	99	98	C
64	142037	96	93	76	92	97	92	99	99	92	91	98	99	A
65	142064	92	97	A	92	94	91	98	98	91	97	91	99	B
66	142010	92	97	72	80	98	99	97	99	94	97	99	98	B
67	142025	48	97	52	A	99	96	96	91	96	96	93	99	C
68	142303	56	87	58	72	93	88	95	93	99	94	94	91	C
69	142039	88	99	68	88	92	92	94	97	98	93	95	99	C
70	142020	80	80	70	76	93	93	99	96	94	98	99	90	D
71	142028	88	87	50	84	94	95	98	95	91	99	91	98	C
72	142042	51	57	A	72	95	99	99	97	99	91	91	99	UA
73	142048	80	87	72	88	96	95	97	91	98	90	93	97	C
74	152921	44	70	40	60	96	96	91	93	99	99	98	91	C
75	152912	80	80	60	88	96	94	93	94	94	97	93	93	D
76	152919	A	53	38	52	97	97	94	93	97	99	95	94	U
77	152905	32	63	64	80	99	91	95	94	91	98	96	93	C
78	152925	40	63	40	84	98	90	96	95	90	99	97	94	U
79	152910	60	87	72	84	99	91	98	96	91	97	99	91	D
80	152924	A	60	36	68	95	88	99	97	99	96	97	97	C
81	152902	52	83	50	A	95	97	97	99	98	95	97	99	E
82	142003	84	92	100	84	98	100	100	100	100	100	100	100	A
83	142068	88	84	100	96	90	100	100	100	100	100	100	100	A
84	142053	52	76	100	96	86	100	100	100	100	100	100	100	C
85	142007	68	80	92	48	74	100	100	100	100	100	100	100	C
86	142305	92	84	100	96	A	100	100	100	100	100	100	100	B
87	142307	76	76	A	A	90	100	100	100	100	100	100	100	A
88	142023	56	36	88	92	76	100	100	100	100	100	100	100	C
89	142046	72	76	100	84	96	100	100	100	100	100	100	100	D
90	142055	84	28	80	76	66	100	100	100	100	100	100	100	A
91	142052	92	32	92	84	78	100	100	100	100	100	100	100	C
92	142103	64	40	88	88	90	100	100	100	100	100	100	100	B
93	142021	84	84	100	96	98	100	100	100	100	100	100	100	A
94	142018	40	16	76	56	A	100	100	100	100	100	100	100	C
95	142043	A	A	100	68	88	100	100	100	100	100	100	100	C

96	142065	80	88	92	72	90	100	100	100	100	100	100	100	U
97	142060	64	56	92	88	84	100	100	100	100	100	100	100	C
98	142006	84	80	96	60	92	100	100	100	100	100	100	100	C
99	142304	88	40	56	48	82	100	100	100	100	100	100	100	E
100	142014	84	60	96	68	A	100	100	100	100	100	100	100	B
101	142015	92	92	100	100	A	100	100	100	100	100	100	100	A
102	142069	68	56	88	68	72	100	100	100	100	100	100	100	E
103	142054	88	56	60	44	66	100	100	100	100	100	100	100	U
104	142062	88	64	92	96	92	100	100	100	100	100	100	100	B
105	142019	60	84	96	92	96	100	100	100	100	100	100	100	B
106	142005	56	52	92	60	86	100	100	100	100	100	100	100	A
107	142033	A	A	100	100	96	100	100	100	100	100	100	100	A
108	142105	84	24	48	76	A	100	100	100	100	100	100	100	D
109	142002	100	96	100	92	92	100	100	100	100	100	100	100	B
110	142102	84	52	96	68	92	100	100	100	100	100	100	100	C
111	142311	76	84	100	88	84	100	100	100	100	100	100	100	B
112	142310	56	84	96	100	94	100	100	100	100	100	100	100	B
113	142109	56	36	88	48	74	100	100	100	100	100	100	100	E
114	152909	52	56	72	80	80	100	100	100	100	100	100	100	S
115	152918	28	40	100	52	74	100	100	100	100	100	100	100	B
116	152911	32	12	44	32	66	100	100	100	100	100	100	100	E
117	152904	84	76	88	88	A	100	100	100	100	100	100	100	E
118	152913	24	52	92	40	82	100	100	100	100	100	100	100	U
119	152908	32	32	68	68	62	100	100	100	100	100	100	100	U
120	152917	20	0	92	68	66	100	100	100	100	100	100	100	E
121	152906	28	56	100	88	76	100	100	100	100	100	100	100	C
122	152914	68	12	84	60	22	100	100	100	100	100	100	100	C
123	152927	88	88	96	28		100	100	100	100	100	100	100	D

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |

L – Level, C-Count

	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO1	CO3	CO2	CO4	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	Q2	
C	78	68	92	98	114	123	123	123	123	123	123	123	79
%	69.03	56.67	77.97	86.73	97.44	100	100	100	100	100	100	100	64.23
L	1	0	2	3	3	3	3	3	3	3	3	3	1

### Attainment Calculation:

#### Survey:

Survey	C404.1	C404.2	C404.3	C404.4	C404.5
Obtained %	98.2	97.59	97.00	97.17	96.58
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C404:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C404.1	1	3	3	-		1.6	1	1.24	3	1.59
C404.2	0	3	-	3		0.9	1	0.96	3	1.37
C404.3	2	3	3	-		2.3	1	1.52	3	1.82
C404.4	3	-	-	3		3	1	1.8	3	2.04
C404.5	3	-	-	-		3	1	1.8	3	2.04
<b>C404</b>										<b>1.77</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C404.1	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C404.2	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Quiz]
C404.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminars]
C404.4	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C404.5	AU Exam	[1*Internal Test]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C404 = \frac{C404.1 + C404.2 + C404.3 + C404.4 + C404.5}{5} = 1.77$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6005 Power Quality: C405E2**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO5	CO1	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
1	142009	52	100	96	100	100	100	100	100	99	98	B
2	142308	60	60	20	44	68	80	90	90	90	90	E
3	142022	56	64	32	40	60	80	90	80	90	92	C
4	142112	100	100	48	32	4	80	80	90	85	87	E
5	142070	0	0	8	0	60	70	80	80	90	80	U
6	142306	32	40	28	40	28	70	80	90	90	92	U
7	142063	A	A	16	0	60	80	90	90	88	90	E
8	142301	68	80	64	60	100	90	90	90	98	96	C
9	142034	64	60	64	56	80	90	100	80	92	96	B
10	142040	28	40	20	12	96	80	90	90	90	92	E
11	142071	48	100	44	80	100	90	90	90	95	90	D
12	142101	24	40	72	68	84	90	90	90	90	88	C
13	142017	68	40	76	60	72	90	100	90	88	87	C
14	142045	92	80	80	84	A	100	100	90	96	94	C
15	142302	40	80	A	A	100	80	100	80	92	96	D
16	142072	16	0	20	12	4	100	90	90	94	80	U
17	142111	32	40	68	32	52	100	100	100	90	92	D
18	142059	A	A	92	88	80	100	100	100	88	96	B
19	142050	56	60	20	8	72	90	90	100	88	95	C
20	142309	84	40	72	88	96	100	90	100	99	86	B
21	142056	80	40	80	88	88	100	80	100	92	90	C
22	142058	80	44	44	36	16	100	90	90	94	90	C
23	142004	32	48	A	A	68	90	90	100	98	97	D
24	142106	80	44	20	12	56	100	100	90	92	90	B
25	142104	60	64	20	36	52	90	90	100	94	96	C
26	142011	48	60	48	52	56	90	90	100	95	95	C
27	142041	60	32	40	60	A	90	90	90	90	90	B
28	142024	60	44	44	80	A	80	80	90	92	92	B
29	142026	72	80	56	80	A	90	90	100	93	88	A
30	142008	50	46	80	88	96	100	100	100	99	90	B
31	142038	64	80	92	92	80	100	100	90	94	90	C
32	142032	60	84	92	80	96	90	90	90	95	92	C
33	152915	48	60	56	44	40	90	100	90	96	88	C
34	152923	32	28	56	24	24	80	100	80	88	82	B
35	152920	28	40	20	24	68	100	100	80	85	80	U
36	152922	32	36	52	28	92	100	100	80	90	90	E
37	152916	20	16	24	60	A	80	96	90	90	96	C
38	152901	52	48	36	20	0	100	80	70	85	90	E
39	152928	36	40	52	60	68	90	90	90	88	88	B
40	162401	48	52	24	48	68	100	100	100	92	94	C
41	162402	72	80	60	68	60	80	90	100	94	92	B
42	142001	60	32	72	68	44	90	90	90	99	96	C
43	142012	80	88	84	80	A	100	100	100	100	97	C
44	142057	92	88	76	80	A	100	90	90	95	96	C
45	142035	48	52	40	16	60	90	90	90	85	90	D

46	142047	40	52	80	60	72	90	100	90	98	96	C
47	142108	48	72	48	60	48	90	90	100	87	90	C
48	142013	84	76	60	72	A	100	90	100	97	96	D
49	142036	80	40	64	80	100	100	100	100	90	92	E
50	142067	84	80	72	60	A	100	100	100	100	94	C
51	142031	72	60	84	80	72	100	100	90	97	93	C
52	142074	92	88	92	68	96	100	100	90	98	90	C
53	142044	76	68	84	96	100	100	100	100	96	88	C
54	142107	48	32	52	48	60	90	80	90	84	87	U
55	142029	64	20	40	60	44	90	90	100	80	92	A
56	142016	80	64	96	44	100	100	90	90	99	94	B
57	142051	80	68	4	72	72	100	90	100	99	96	B
58	142110	48	40	60	40	44	80	100	90	85	96	C
59	142066	80	36	52	80	100	100	90	100	99	94	D
60	142073	84	40	68	80	A	90	100	90	96	94	C
61	142027	76	44	60	60	52	90	90	80	87	92	C
62	142030	72	80	76	60	96	100	100	100	98	96	D
63	142061	A	A	20	16	16	80	80	70	98	94	U
64	142037	100	96	72	60	100	100	100	100	96	95	U
65	142064	A	A	92	88	100	100	90	100	98	96	B
66	142010	100	72	84	96	A	100	90	100	99	90	B
67	142025	80	68	72	80	68	90	100	90	99	95	C
68	142303	64	60	48	60	A	90	100	90	92	90	C
69	142039	80	84	76	80	88	100	100	100	96	88	B
70	142020	60	68	60	64	A	100	100	100	90	92	C
71	142028	60	56	60	44	A	90	90	90	97	90	C
72	142042	20	12	52	80	72	100	100	90	98	88	U
73	142048	60	40	68	80	96	90	100	100	92	92	C
74	152921	60	64	60	68	52	90	90	100	98	90	B
75	152912	72	60	56	80	64	80	90	90	95	90	C
76	152919	16	0	8	0	20	80	70	80	85	90	A
77	152905	64	60	64	60	52	90	100	100	90	86	C
78	152925	36	24	52	48	52	90	80	80	88	92	C
79	152910	44	56	60	72	60	100	10	100	97	90	E
80	152924	48	52	56	60	68	100	90	100	96	88	C
81	152902	28	20	48	40	96	90	90	90	95	88	C
82	142003	92	92	68	64	88	100	100	100	100	96	D
83	142068	88	92	100	96	92	100	100	100	100	100	B
84	142053	82	70	84	68	84	100	100	100	100	100	S
85	142007	60	44	86	66	56	100	100	100	90	92	E
86	142305	A	A	90	82	A	100	100	100	90	96	E
87	142307	70	66	A	A	88	100	100	100	100	92	B
88	142023	88	80	80	68	76	100	100	100	100	96	C
89	142055	80	88	100	92	A	100	100	100	100	100	B
90	142046	60	56	84	48	64	90	100	100	100	100	B
91	142052	92	76	96	64	76	100	90	100	100	100	E
92	142103	70	74	84	84	A	100	90	90	100	92	B
93	142021	90	98	100	92	88	100	100	100	100	48	E
94	142018	60	60	56	52	60	100	100	100	100	96	C
95	142043	60	40	68	64	84	100	100	100	100	88	A

96	142065	72	60	76	32	90	100	100	100	90	92	B
97	142060	60	60	A	A	76	100	100	100	100	96	E
98	142006	80	80	96	88	A	100	100	100	100	100	C
99	142304	76	64	80	64	52	100	100	100	100	24	C
100	142014	32	80	80	68	A	80	100	100	100	100	D
101	142015	92	88	96	96	A	100	100	100	80	100	D
102	142069	62	66	86	76	64	100	100	100	90	100	C
103	142054	64	44	80	60	64	100	100	100	90	28	C
104	142062	100	60	64	96	A	100	100	100	100	100	C
105	142019	84	88	96	60	92	100	100	100	100	100	D
106	142005	80	80	92	68	76	100	100	100	100	100	U
107	142033	100	96	96	84	100	90	100	100	100	100	C
108	142105	60	60	72	36	72	100	100	100	100	100	U
109	142002	96	84	96	68	A	100	100	100	100	100	C
110	142102	40	60	64	76	92	100	100	100	100	100	U
111	142311	66	66	100	80	96	90	100	100	100	100	U
112	142310	76	80	A	A	92	100	100	100	100	100	C
113	142109	60	16	68	88	88	100	100	100	100	48	E
114	152909	48	52	92	64	96	90	90	100	100	100	E
115	152918	64	44	76	56	64	100	100	100	100	100	B
116	152911	36	64	44	40	84	100	90	90	100	88	E
117	152904	84	92	96	68	60	100	100	90	90	100	C
118	152908	28	4	66	70	28	100	100	100	80	96	C
119	152913	86	62	64	60	88	100	100	100	100	76	D
120	152917	92	92	84	60	92	100	100	100	100	100	E
121	152906	68	32	68	84	68	100	100	100	100	100	E
122	152914	30	30	80	64	60	100	100	100	100	92	C
123	152927	36	64	56	32	96	100	90	80	100	100	C

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO2	CO3	CO4	CO5		CO1		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		
C	78	68	76	81	77	121	121	121	123	0	119		80
%	66.1	57.63	64.41	68.64	76.24	98.37	98.37	98.37	100	0	96.75		65.04
L	1	0	1	1	2	3	3	3	3	0	3		1

### Attainment Calculation:

#### Survey:

Survey	C405E2.1	C405E2.2	C405E2.3	C4045E24	C405E2.5
Obtained %	96.63	95.03	95.64	95.05	95.66
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C405E2:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C405E2.1	1	-	-	3		1.4	1	1.16	3	1.53
C405E2.2	0	3	-	-		0.9	1	0.96	3	1.37
C405E2.3	1	3	-	-		1.6	1	1.24	3	1.59
C405E2.4	1	3	-	-		1.6	1	1.24	3	1.59
C405E2.5	2	-	3	-		2.2	1	1.48	3	1.78
<b>C405E2</b>										<b>1.57</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C405E2.1	AU Exam	[0.8*Internal Test + 0.2*Quiz]
C405E2.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C405E2.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C405E2.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C405E2.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C405E2 = \frac{C405E2.1 + C405E2.2 + C405E2.3 + C405E2.4 + C405E2.5}{5} = 1.57$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6008 Microprocessor Based System Design: C406E3**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO3	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1	
s	142009	100	60	100	100	100	100	100	100	100	100	B
2	142308	32	0	16	16	84	70	90	90	90	90	C
3	142022	64	24	44	44	68	90	90	90	100	90	C
4	142112	52	8	72	56	68	90	80	80	90	90	D
5	142070	8	16	24	12	72	90	90	80	90	80	D
6	142306	A	12	0	16	32	90	80	80	90	80	D
7	142063	36	20	0	48	60	90	90	100	100	100	U
8	142301	72	72	100	96	92	100	100	100	100	90	B
9	142034	50	82	76	68	56	90	90	90	90	100	C
10	142040	6	10	4	16	40	90	90	80	90	90	C
11	142071	56	64	60	80	88	100	100	100	100	100	B
12	142101	80	20	84	56	52	90	90	90	0	90	C
13	142017	88	40	56	68	52	80	90	90	90	90	B
14	142045	92	60	100	92	A	100	100	100	100	100	D
15	142302	76	48	A	A	92	100	90	100	100	100	B
16	142072	0	0	8	16	24	90	100	80	90	80	D
17	142111	8	16	40	76	52	90	90	90	100	100	U
18	142059	88	76	100	100	100	100	90	100	100	100	S
19	142050	32	0	28	24	72	80	100	80	100	80	E
20	142309	76	84	100	92	96	100	100	100	100	100	B
21	142056	88	76	96	96	100	100	100	100	100	100	B
22	142058	72	28	60	92	36	90	100	90	100	100	C
23	142004	12	56	80	40	72	100	100	100	100	100	C
24	142106	84	64	80	96	100	100	100	100	100	100	D
25	142104	28	12	0	40	16	90	90	90	90	90	E
26	142011	80	48	40	88	60	100	90	100	90	100	D
27	142041	16	0	16	50	A	100	80	100	90	100	C
28	142024	76	40	0	40	A	80	100	90	100	90	C
29	142026	88	60	60	96	A	100	100	100	100	100	E
30	142008	96	76	100	88	100	100	100	100	90	100	A
31	142038	100	50	A	A	A	90	80	90	90	90	C
32	142032	48	60	88	92	72	100	100	100	100	100	B
33	152915	56	28	72	64	60	90	90	90	90	90	D
34	152923	24	0	76	56	36	100	100	90	100	90	C
35	152920	A	30	76	0	20	90	90	80	90	80	E
36	152922	16	20	76	48	36	90	100	90	90	90	U
37	152916	8	20	56	60	24	90	90	80	100	90	E
38	152901	4	0	16	8	18	90	100	100	100	80	E
39	152928	56	20	60	92	88	90	90	100	90	100	E
40	162401	8	0	56	80	64	90	100	100	90	100	A
41	162402	88	80	84	100	100	100	100	100	100	100	A
42	142001	20	20	50	54	52	70	90	90	90	90	E
43	142012	82	90	88	92	92	90	90	90	90	90	B
44	142057	82	78	88	84	86	90	90	90	90	90	B
45	142035	50	62	50	70	60	70	90	90	90	90	B

46	142047	40	20	40	60	50	70	90	90	80		90		D
47	142108	58	58	50	50	56	80	90	90	80		90		E
48	142013	78	74	74	70	72	90	90	90	90		90		B
49	142036	78	78	84	80	76	90	90	90	90		90		C
50	142067	76	84	86	78	82	90	90	90	90		90		C
51	142031	69	69	20	20	68	80	90	90	80		90		C
52	142074	75	83	74	70	68	80	90	90	90		90		C
53	142044	88	84	92	98	96	90	90	90	90		90		A
54	142107	60	60	84	88	50	80	90	90	90		90		B
55	142029	56	64	40	32	69	80	90	90	80		90		C
56	142016	906	94	90	82	94	90	90	90	90		90		B
57	142051	2	58	78	74	76	80	90	90	90		90		B
58	142110	0	0	40	32	86	90	90	90	90		90		C
59	142066	79	79	78	74	80	90	90	90	90		90		B
60	142073	30	50	40	20	30	90	90	90	90		90		UA
61	142027	20	40	60	52	85	90	90	90	80		90		C
62	142030	80	78	80	80	94	90	90	90	80		90		C
63	142061	8	8	0	0	64	80	90	90	90		90		U
64	142037	0	0	86	90	86	90	90	90	90		90		B
65	142064	75	75	82	86	89	90	90	90	90		90		A
66	142010	56	46	84	80	89	90	90	90	90		90		A
67	142025	50	70	56	62	50	90	90	90	90		90		C
68	142303	60	74	64	72	68	90	90	90	90		70		C
69	142039	94	94	88	88	92	90	90	90	90		90		B
70	142020	10	20	50	50	85	80	90	90	90		90		C
71	142028	10	10	54	58	64	80	90	90	90		90		B
72	142042	62	58	56	56	50	70	90	90	90		90		C
73	142048	70	70	80	76	60	90	90	90	90		90		B
74	152921	70	68	20	20	88	70	90	90	90		90		E
75	152912	60	58	58	54	64	90	90	90	90		90		C
76	152919	12	14	20	20	20	70	90	90	90		90		U
77	152905	80	80	64	60	65	90	90	90	90		90		E
78	152925	14	14	20	24	75	80	90	90	90		90		E
79	152910	80	40	80	72	75	90	90	90	90		90		C
80	152924	20	20	20	20	64	90	90	90	90		90		E
81	152902	6	6	54	52	56	70	90	90	90		90		C
82	142003	72	67	84	80	90	100	100	100	90		90		B
83	142068	60	90	90	88	90	100	100	100	90		90		B
84	142053	56	93	72	76	74	100	100	100	90		90		B
85	142007	52	73	36	36	26	100	100	100	90		90		E
86	142305	68	73	40	74	66	100	100	100	90		90		B
87	142307	60	27	0	88	A	100	100	100	90		90		B
88	142023	50	73	72	74	52	80	90	100	90		90		B
89	142055	32	23	68	68	60	100	100	100	90		90		B
90	142046	28	57	48	58	50	100	100	100	90		90		B
91	142052	36	90	24	68	38	100	100	100	90		90		B
92	142103	40	57	46	56	46	80	80	100	90		90		C
93	142021	82	73	88	88	88	100	100	100	90		90		B
94	142018	28	67	60	52	34	100	100	100	90		90		E
95	142043	52	83	56	68	60	80	80	100	90		90		C

96	142065	32	77	72	72	60	100	100	100	90		90		D
97	142060	40	70	76	56	74	100	100	100	90		90		C
98	142006	58	30	20	50	42	100	100	100	90		90		C
99	142304	50	63	56	52	54	80	90	100	90		90		C
100	142014	56	70	76	A	74	100	100	100	90		90		E
101	142015	92	77	96	96	96	100	100	100	90		90		A
102	142069	30	23	16	56	24	100	100	100	90		90		C
103	142054	36	57	48	40	34	100	100	100	90		90		C
104	142062	A	53	84	80	86	100	100	100	90		90		B
105	142019	60	50	68	84	64	100	100	100	90		90		C
106	142005	72	73	48	56	52	100	100	100	90		90		C
107	142033	88	70	80	88	76	80	80	100	90		90		A
108	142105	28	63	28	50	32	100	100	100	90		90		C
109	142002	72	37	52	72	70	100	100	100	90		90		B
110	142102	84	77	68	84	60	100	100	100	90		90		A
111	142311	64	90	72	80	60	80	80	100	90		90		C
112	142310	72	83	0	80	A	100	100	100	90		90		B
113	142109	24	67	0	72	A	100	100	100	90		90		C
114	152909	A	A	72	60	62	100	100	100	90		90		C
115	152918	28	27	76	56	62	100	100	100	90		90		C
116	152911	8	53	48	40	36	80	80	100	90		90		C
117	152904	52	80	84	88	78	100	100	100	90		90		B
118	152908	A	67	52	56	40	80	80	100	90		90		C
119	152913	32	20	76	36	54	80	80	100	90		90		C
120	152917	0	30	48	52	42	100	100	100	90		90		C
121	152906	64	90	48	60	50	80	80	100	90		90		C
122	152914	40	70	48	40	30	80	90	100	90		90		D
123	152927	6	7	52	24	50	80	80	100	90		90		E

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU													
L – Level, C-Count													
	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO4	CO3	CO5			
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	Q1			
C	53	60	63	67	73	115	123	123	122		123	89	
%	44.92	49.18	52.07	55.83	63.48	93.5	100	100	99.19		100	72.95	
L	0	0	0	0	1	3	3	3	3		3	2	

**Attainment Calculation:**

**Survey:**

Survey	C406E3.1	C406E3.2	C406E3.3	C406E3.4	C406E3.5
Obtained %	95.81	94.82	95.2	95.81	95.59
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C406E3:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C406E3.1	0	3	-	-		0.9	2	1.56	3	1.85
C406E3.2	0	3	-	-		0.9	2	1.56	3	1.85
C406E3.3	0	-	3	-		0.6	2	1.44	3	1.75
C406E3.4	0	3	-	-		0.9	2	1.56	3	1.85
C406E3.5	1	-	-	3		1.4	2	1.76	3	2.01
<b>C406E3</b>										<b>1.86</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C406E3.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C406E3.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C406E3.3	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C406E3.4	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C406E3.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C406E3 = \frac{C406E3.1 + C406E3.2 + C406E3.3 + C406E3.4 + C406E3.5}{5} = 1.86$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6711 Power System Simulation Lab: C407**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009		90	100		90	100	99	90	100		90	100		90	100	S
2	142308		90	90		80	100	92	90	100		90	100		90	100	A
3	142022		90	90	99	90	90		90	100		90	90		90	100	S
4	142112	95	90	90		80	100		90	100		90	90		80	90	S
5	142070		90	90	96	90	90		80	90		80	100		90	100	A
6	142306		90	100	92	90	90		90	80		90	90		80	90	A
7	142063	96	90	100		90	90		90	100		90	100		90	100	S
8	142301		90	90		90	100		90	100	90	90	100		90	100	S
9	142034		90	90		80	90		90	100		100	100	99	90	90	S
10	142040		90	90		90	80		90	100		90	100	99	90	100	A
11	142071		100	100		90	100		100	100	92	100	90		100	100	A
12	142101		90	100		100	90		100	90	99	100	100		90	100	S
13	142017	92	90	100		100	100		100	100		100	100		100	90	S
14	142045		100	100		100	100	90	100	100		90	100		100	100	S
15	142302	90	100	100		100	100		100	100		90	100		100	100	S
16	142072		90	90		90	80	90	90	90		90	90		90	90	A
17	142111		90	90		90	90	90	90	80		90	90		100	90	S
18	142059		100	100		100	100		100	100	90	90	100		100	100	S
19	142050		90	90		90	100		90	90		90	90	91	90	90	A
20	142309		100	100		100	100		100	100	98	100	100		90	100	S
21	142056		100	100		100	100	99	100	100		90	100		90	100	S
22	142058		90	90		100	100		100	100		90	90	91	100	90	S
23	142004	92	90	100		90	100		100	100		90	100		90	90	S
24	142106	98	80	100		80	100		80	100		90	100		90	100	S
25	142104		90	90		90	100	96	100	100		90	100		90	100	S
26	142011		90	90	92	80	100		80	100		80	100		90	100	S
27	142041		90	90		100	100		90	100	90	80	100		90	90	S
28	142024		90	80	92	100	90		90	100		80	100		90	100	S
29	142026		100	100		90	100		100	100		90	100	92	100	100	S
30	142008	98	100	100		90	100		100	100		90	100		100	100	S
31	142038		90	90		80	100		90	100	98	80	100		90	90	S
32	142032		100	90		90	100	92	100	100		90	100		100	100	S
33	152915	96	90	90		100	100		70	100		80	100		80	100	S
34	152923		80	90		70	100	96	80	90		80	90		90	100	A
35	152920		80	90		80	90		90	90		80	100	96	90	90	A
36	152922		80	90		80	100		80	90		80	90	98	80	90	A
37	152916		80	90		80	100		80	100		80	100	96	80	100	A
38	152901		80	90		80	90	92	80	100		80	90		80	100	A
39	152928		80	90	92	90	100		80	100		80	90		80	90	A
40	162401	94	90	90		90	90		80	100		80	90		70	100	A
41	162402		80	100		80	100	98	90	100		90	100		80	90	S
42	142001		80	90		70	90		80	90	98	80	90		90	90	S
43	142012		90	90		70	90	96	80	90		80	90		90	90	S
44	142057		80	90		80	90		90	90		80	90	92	90	90	S

45	142035	90	70	90		60	90		80	90		90	90		80	90	S
46	142047		70	90	98	80	90		60	90		80	90		90	90	S
47	142108	91	80	90		60	90		80	90		60	90		80	90	A
48	142013		90	90		50	90		60	90		60	90	96	80	90	S
49	142036	90	80	90		80	90		90	90		70	90		80	90	S
50	142067		90	90		80	90		70	90		70	90		90	90	S
51	142031		90	90		80	90	90	70	90		70	90		80	90	S
52	142074		70	90	96	80	90		80	90		70	90		90	90	S
53	142044		80	90		90	90		80	90	92	80	90		90	90	S
54	142107		70	90		70	90	98	70	90		90	90		90	90	S
55	142029		70	90		80	90		60	90		60	90		80	90	S
56	142016		90	90		80	90		70	90	96	60	90		80	90	S
57	142051		80	90		80	90		90	90		80	90	90	80	90	S
58	142110		80	90		60	90		70	90		70	90		90	90	A
59	142066	92	80	90		80	90		80	90		70	90		90	90	S
60	142073		70	90		70	90		80	90		90	90	98	90	90	S
61	142027		60	90		50	90	90	60	90		70	90		80	90	A
62	142030		90	90		80	100		100	100		100	100		100	100	S
63	142061		90	90		90	90		90	90	88	90	90		90	90	A
64	142037	A	90	90		90	100		90	100		90	100		100	100	S
65	142064	A	90	90		90	90		90	100		100	100		100	100	S
66	142010		90	90		80	100	96	100	100		100	100		100	100	S
67	142025	90	90	90		80	90		90	100		90	100		100	100	S
68	142303	A	90	90		80	100		90	100		100	100		100	100	S
69	142039	A	90	90		80	100		90	100		90	90		90	90	S
70	142020		90	90		80	90	92	90	100		100	100		100	100	S
71	142028	A	90	90		90	90		90	100		100	100		100	100	S
72	142042		90	90	96	80	100		80	100		100	100		100	100	A
73	142048	A	90	90		80	100		100	100		100	100		100	100	S
74	152921		90	90		80	100		70	100	90	70	90		70	70	S
75	152912		90	90		100	100		100	100		100	100	92	100	100	S
76	152919	90	90	90		60	90		60	100		90	100		100	100	A
77	152905		90	90		90	90		100	100	96	90	90		100	100	A
78	152925		90	80		90	90	90	90	100		90	90		100	100	A
79	152910		90	90	90	100	100		100	100		100	100		100	100	S
80	152924		90	90		80	90		80	100		90	90	92	60	60	S
81	152902	96	90	80		100	90		100	100		100	100		100	100	A
82	142003	99	100	100		100	100		100	100		100	100		100	100	S
83	142068		90	90		100	100		100	100	99	100	100		100	100	S
84	142053		100	100		100	100		100	100		100	100	99	100	100	S
85	142007		100	100	86	100	100		100	100		100	100		100	100	S
86	142305		100	100		100	100	98	100	100		100	100		100	100	S
87	142307		100	100		100	100	96	100	100		100	100		100	100	S
88	142023	92	100	100		100	100		100	100		100	100		100	100	S
89	142055		90	90	99	100	100		100	90		100	100		100	100	S
90	142046		100	100		100	100		100	100	94	100	100		100	100	S
91	142052		100	100		100	100		100	100		100	100	98	100	100	S
92	142103		100	100	96	90	100		100	100		100	100		100	100	S
93	142021		100	100		100	100	92	100	100		100	100		100	100	S
94	142018	92	100	100		90	100		90	100		100	100		100	100	S

95	142043		100	100		100	100		100	100	92	90	100		100	100	S
96	142065		100	100		100	100		100	100		100	100	92	100	100	S
97	142060		100	100	90	100	100		100	100		100	100		100	100	S
98	142006		100	100	99	100	100		100	100		100	100		100	100	S
99	142304		100	100		100	100	98	100	100		100	100		100	100	S
100	142014	98	100	100		100	100		100	100		100	100		100	100	S
101	142015		100	100		100	100		100	100		100	100	99	100	100	S
102	142069	90	100	100		100	100		100	100		100	100		100	100	A
103	142054	89	90	90		90	100		100	100		100	100		100	100	A
104	142062		90	90		100	100	92	100	100		100	100		100	100	S
105	142019		90	90	92	100	100		100	100		100	100		100	100	S
106	142005		90	90		100	100		100	100		100	100	98	100	100	S
107	142033	99	90	90		100	100		100	100		100	100		100	100	S
108	142105		90	90		90	90		100	100	92	100	100		100	100	S
109	142002	98	90	100		100	90		100	100		100	100		100	100	S
110	142102		90	90		100	100	96	100	100		100	100		100	100	S
111	142311		90	90	96	100	100		100	100		100	100		100	100	S
112	142310		90	100		100	100		100	100	96	100	100		100	100	S
113	142109		90	90		100	100		100	100		100	100	92	100	100	A
114	152909	98	90	90		100	100		90	90		100	90		100	100	S
115	152918		90	90		90	100	98	100	100		100	100		100	100	S
116	152911		90	90		90	90		100	100		100	100	92	100	100	A
117	152904		90	90	90	100	100		100	100		100	100		100	100	S
118	152908		90	90		100	100		100	100	82	100	100		100	100	A
119	152913		90	90	88	90	100		100	100		100	100		100	100	A
120	152917	92	100	100		90	100		100	100		100	100		100	100	A
121	152906		90	90		90	100	94	100	100		100	100		100	100	A
122	152914		90	90		100	100		100	100		100	100	88	100	100	A
123	152927		90	90		90	100		100	100	90	100	100		100	100	A

**Benchmark:** % of Students secured  $\geq 80$  marks in Model,  $\geq 70$  in Viva,  $\geq 80$  in Record  $\geq A(9)$  grade in AU | L – Level | C- Count | P – Total Present

	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	26	123	123	19	123	123	26	123	123	20	123	123	22	123	123	123
C	26	122	123	19	117	123	26	118	123	20	119	123	22	122	121	123
%	100	99.19	100	100	95.12	100	100	95.93	100	100	96.75	100	100	99.19	98.37	100
L	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

### Attainment Calculation:

#### Survey:

Survey	C407.1	C407.2	C407.3	C407.4	C407.5
Obtained %	96.46	94.7	95.66	95.86	95.27
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C407:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C407.1	3	3	3	3	3	3	3	3
C407.2	3	3	3	3	3	3	3	3
C407.3	3	3	3	3	3	3	3	3
C407.4	3	3	3	3	3	3	3	3
C407.5	3	3	3	3	3	3	3	3
C407								<b>3</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C407.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C407.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C407.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C407.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C407.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C407 = \frac{C407.1 + C407.2 + C407.3 + C407.4 + C407.5}{5} = 3$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6712 Comprehension Lab: C408**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CO1			CO2			CO3			CO4			CO5			AU
		T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
1	142009	80		80	80		75	80		80	80		100	80		100	S
2	142308	90		90	90		75	90		80	90		85	90		95	A
3	142112	85		85	85		90	85		80	85		100	85		95	S
4	142022	100		100	100		75	100		70	100		80	100		95	S
5	142070	50		50	50		50	50		75	50		80	50		85	A
6	142306	55		55	55		85	55		45	55		85	55		75	S
7	142063	90		90	90		90	90		95	90		100	90		95	A
8	142301	90		90	90		90	90		85	90		100	90		100	S
9	142034	90		90	90		95	90		90	90		90	90		100	S
10	142040	90		90	90		80	90		75	90		80	90		100	A
11	142071	90		90	90		95	90		80	90		100	90		100	A
12	142101	95		95	95		95	95		90	95		95	95		90	S
13	142017	85		85	85		95	85		85	85		90	85		90	S
14	142045	100		100	100		90	100		90	100		100	100		95	S
15	142302	80		80	80		90	80		80	80		100	80		100	S
16	142072	70		70	70		85	70		100	70		95	70		95	A
17	142111	90		90	90		85	90		70	90		90	90		90	S
18	142059	100		100	100		95	100		100	100		95	100		100	S
19	142050	80		80	80		85	80		70	80		100	80		85	A
20	142309	90		90	90		90	90		90	90		100	90		95	S
21	142056	95		95	95		90	95		85	95		95	95		100	S
22	142058	100		100	100		95	100		75	100		100	100		100	S
23	142106	80		30	80		65	80		65	80		80	80		90	S
24	142004	100		100	100		95	100		90	100		100	100		95	S
25	142104	90		90	90		90	90		75	90		90	90		95	S
26	142011	80		80	80		75	80		75	80		100	80		90	S
27	142041	70		70	70		75	70		75	70		85	70		100	S
28	142024	90		90	90		75	90		60	90		95	90		95	S
29	142026	85		85	85		90	85		75	85		75	85		95	S
30	142008	95		95	95		70	95		90	95		100	95		100	S
31	142038	90		90	90		65	90		70	90		90	90		80	S
32	142032	80		80	80		90	80		85	80		90	80		90	S
33	152915	80		80	80		90	80		75	80		85	80		100	S
34	152923	65		65	65		85	65		75	65		90	65		95	S
35	152920	85		85	85		75	85		75	85		95	85		95	S
36	152922	85		85	85		85	85		85	85		90	85		85	S
37	152916	95		95	95		95	95		70	95		100	95		95	S
38	152901	90		90	90		85	90		75	90		75	90		85	A
39	152928	80		80	80		80	80		85	80		95	80		95	S
40	162401	90		75	90		80	90		80	90		90	90		85	S
41	162402	75		90	75		90	75		85	75		100	75		100	S
42	142001	99		100	99		100	99		100	99		100	99		100	S
43	142012	99		100	99		100	99		100	99		100	99		100	S
44	142057	98		100	98		100	98		100	98		100	98		100	S

45	142035	98		100	98		100	98		100	98		100	S
46	142047	70		100	70		100	70		100	70		100	S
47	142108	76		100	76		100	76		100	76		100	S
48	142013	99		100	99		100	99		100	99		100	S
49	142036	98		100	98		100	98		100	98		100	A
50	142067	98		100	98		100	98		100	98		100	S
51	142031	86		100	86		100	86		100	86		100	S
52	142074	96		100	96		100	96		100	96		100	A
53	142044	98		100	98		100	98		100	98		100	S
54	142107	98		100	98		100	98		100	98		100	A
55	142029	98		100	98		100	98		100	98		100	S
56	142016	98		100	98		100	98		100	98		100	S
57	142051	96		100	96		100	96		100	96		100	S
58	142110	98		100	98		100	98		100	98		100	S
59	142066	82		100	82		100	82		100	82		100	S
60	142073	76		100	76		100	76		100	76		100	S
61	142027	98		100	98		100	98		100	98		100	S
62	142030	98		100	98		100	98		100	98		100	S
63	142061	66		100	66		100	66		100	66		100	A
64	142037	98		100	98		100	98		100	98		100	S
65	142064	98		100	98		100	98		100	98		100	S
66	142010	98		100	98		100	98		100	98		100	S
67	142025	94		100	94		100	94		100	94		100	S
68	142303	94		100	94		100	94		100	94		100	S
69	142039	98		100	98		100	98		100	98		100	S
70	142020	86		100	86		100	86		100	86		100	S
71	142028	98		100	98		100	98		100	98		100	S
72	142042	94		100	94		100	94		100	94		100	S
73	142048	96		100	96		100	96		100	96		100	S
74	152921	96		100	96		100	96		100	96		100	S
75	152912	70		100	70		100	70		100	70		100	S
76	152919	76		100	76		100	76		100	76		100	S
77	152905	86		100	86		100	86		100	86		100	S
78	152925	88		100	88		100	88		100	88		100	S
79	152910	88		100	88		100	88		100	88		100	S
80	152924	76		100	76		100	76		100	76		100	S
81	152902	76		100	76		100	76		100	76		100	S
82	142003	95		100	95		100	95		100	95		100	S
83	142068	95		100	95		100	95		100	95		100	S
84	142053	99		100	99		100	99		100	99		100	S
85	142007	70		100	70		100	70		100	70		100	A
86	142305	99		100	99		100	99		100	99		100	A
87	142307	99		100	99		100	99		100	99		100	S
88	142023	58		100	58		100	58		100	58		100	S
89	142046	85		100	85		100	85		100	85		100	S
90	142055	60		100	60		100	60		100	60		100	S
91	142052	75		100	75		100	75		100	75		100	S
92	142103	64		100	64		100	64		100	64		100	S
93	142021	99		100	99		100	99		100	99		100	S
94	142018	80		100	80		100	80		100	80		100	S

95	142043	70	100	70	100	70	100	70	100	70	100	70	100	S
96	142065	99	100	99	100	99	100	99	100	99	100	99	100	A
97	142060	70	100	70	100	70	100	70	100	70	100	70	100	S
98	142006	80	100	80	100	80	100	80	100	80	100	80	100	A
99	142304	70	100	70	100	70	100	70	100	70	100	70	100	A
100	142014	72	100	72	100	72	100	72	100	72	100	72	100	A
101	142015	99	100	99	100	99	100	99	100	99	100	99	100	A
102	142069	80	100	80	100	80	100	80	100	80	100	80	100	A
103	142054	80	100	80	100	80	100	80	100	80	100	80	100	A
104	142062	99	100	99	100	99	100	99	100	99	100	99	100	S
105	142019	99	100	99	100	99	100	99	100	99	100	99	100	S
106	142005	80	100	80	100	80	100	80	100	80	100	80	100	A
107	142033	99	100	99	100	99	100	99	100	99	100	99	100	A
108	142105	85	100	85	100	85	100	85	100	85	100	85	100	A
109	142002	99	100	99	100	99	100	99	100	99	100	99	100	S
110	142102	99	100	99	100	99	100	99	100	99	100	99	100	S
111	142311	99	100	99	100	99	100	99	100	99	100	99	100	A
112	142310	99	100	99	100	99	100	99	100	99	100	99	100	S
113	142109	90	100	90	100	90	100	90	100	90	100	90	100	S
114	152909	70	100	70	100	70	100	70	100	70	100	70	100	A
115	152918	70	100	70	100	70	100	70	100	70	100	70	100	S
116	152911	75	100	75	100	75	100	75	100	75	100	75	100	A
117	152904	99	100	99	100	99	100	99	100	99	100	99	100	A
118	152913	75	100	75	100	75	100	75	100	75	100	75	100	A
119	152908	75	100	75	100	75	100	75	100	75	100	75	100	A
120	152917	75	100	75	100	75	100	75	100	75	100	75	100	A
121	152906	70	100	70	100	70	100	70	100	70	100	70	100	A
122	152914	70	100	70	100	70	100	70	100	70	100	70	100	S
123	152927	80	100	80	100	80	100	80	100	80	100	80	100	A

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Model, $\geq 70$ in Viva, $\geq 80$ in Record $\geq A(9)$ grade in AU   L – Level   C- Count   P – Total Present																
	CO1			CO2			CO3			CO4			CO5			AU
	T	V	R	T	V	R	T	V	R	T	V	R	T	V	R	
P	123		123	123		123	123		123	123		123	123		123	123
C	92		116	92		112	92		104	92		121	92		122	123
%	74.8		94.31	74.8		91.06	74.8		84.55	74.8		98.37	74.8		99.19	100
L	2		3	2		3	2		3	2		3	2		3	3

**Attainment Calculation:**

**Survey:**

<b>Survey</b>	<b>C408.1</b>	<b>C408.2</b>	<b>C408.3</b>	<b>C408.4</b>	<b>C408.5</b>
<b>Obtained %</b>	<b>96.84</b>	<b>96.41</b>	<b>96.24</b>	<b>96.24</b>	<b>96.67</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C408:**

Course	Internal Test	Viva	Record	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C408.1	2		3	2.2	3	2.68	3	2.74
C408.2	2		3	2.2	3	2.68	3	2.74
C408.3	2		3	2.2	3	2.68	3	2.74
C408.4	2		3	2.2	3	2.68	3	2.74
C408.5	2		3	2.2	3	2.68	3	2.74
C408								<b>2.74</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C408.1	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C408.2	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C408.3	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C408.4	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]
C408.5	AU Exam	[06*Model + 0.2*Viva + 0.2*Record]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C408 = \frac{C408.1 + C408.2 + C408.3 + C408.4 + C408.5}{5} = 2.74$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: EE6801 Electrical Energy Generation, Utilization and Conservation: C409**

**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar	Quiz	AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4		
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	CO5	
1	142009	90	94	96	96	98	90	90	90	90	90	D
2	142308	60	44	60	20	90	80	90	90	90	90	D
3	142022	50	22	48	56	96	80	90	90	90	90	E
4	142112	65	47	84	36	94	90	90	90	90	100	C
5	142070	40	60	24	0	80	90	90	90	90	100	E
6	142306	44	0	12	8	A	80	90	90	90	100	U
7	142063	12	0	36	16	78	80	90	90	90	100	U
8	142301	94	86	80	68	98	90	90	90	90	100	D
9	142034	92	80	78	84	90	90	90	90	90	100	C
10	142040	60	16	20	28	80	90	90	90	90	100	E
11	142071	66	82	90	82	90	90	90	90	90	100	U
12	142101	90	78	90	82	94	90	90	90	90	100	A
13	142017	30	74	40	60	90	90	90	90	90	90	E
14	142045	62	74	96	84	96	90	90	90	90	90	D
15	142302	80	72	A	A	92	90	90	90	90	90	B
16	142072	16	0	48	12	82	90	90	90	90	90	U
17	142111	30	74	72	16	76	90	90	90	90	100	E
18	142059	65	99	92	88	96	90	90	90	90	100	E
19	142050	40	60	84	80	90	90	90	90	90	100	E
20	142309	A	A	96	92	96	90	90	90	90	100	B
21	142056	60	64	88	92	84	90	90	90	90	100	C
22	142058	70	34	92	60	92	90	90	90	90	100	E
23	142004	74	66	72	88	94	100	90	90	90	100	E
24	142106	30	70	32	24	76	80	90	90	90	100	E
25	142104	20	60	42	38	78	80	90	90	90	100	C
26	142011	60	60	76	44	92	80	90	90	90	100	C
27	142041	50	30	96	40	94	80	90	90	90	90	D
28	142024	28	48	84	76	88	80	90	90	90	90	E
29	142026	76	88	96	64	90	90	90	90	90	80	B
30	142008	94	94	96	96	96	90	90	90	90	90	S
31	142038	82	90	92	40	92	80	90	90	90	90	B
32	142032	80	80	96	80	94	90	90	90	90	80	C
33	152915	42	58	36	16	84	90	90	90	90	70	E
34	152923	40	24	44	0	80	90	90	90	90	60	U
35	152920	24	0	16	0	78	90	90	90	90	80	U
36	152922	40	24	40	32	72	90	90	90	90	80	E
37	152916	62	42	32	32	86	80	90	90	90	50	U
38	152901	0	12	20	0	80	80	90	90	90	90	B
39	152928	38	62	64	36	94	90	90	90	90	90	C
40	162401	38	62	32	28	96	80	90	90	90	90	C
41	162402	80	84	84	56	96	60	90	90	90	90	C
42	142001	72	76	88	92	84	90	90	90	90	80	C
43	142012	80	100	84	76	84	90	90	90	80	80	B
44	142057	A	A	80	80	80	90	90	90	90	70	C

45	142035	40	72	84	56	36	90	90	90	90		80		E
46	142047	48	84	100	52	82	90	90	90	70		60		D
47	142108	40	72	70	70	A	90	90	90	80		70		U
48	142013	72	84	72	76	76	90	90	90	90		80		C
49	142036	68	64	96	80	84	90	90	90	90		80		B
50	142031	56	48	60	88	54	90	90	80	80		70		C
51	142074	84	92	96	92	92	90	90	70	70		60		C
52	142044	92	100	96	92	80	90	90	90	70		60		C
53	142107	64	84	76	44	74	100	90	90	80		70		C
54	142029	72	48	96	88	84	90	90	90	90		80		E
55	142016	84	96	A	A	82	90	90	90	70		60		E
56	142051	52	76	96	68	A	90	90	80	90		80		D
57	142110	56	48	41	41	38	90	90	90	90		80		C
58	142066	60	96	92	88	92	90	100	90	90		90		U
59	142073	36	52	96	92	12	90	90	90	70		60		C
60	142027	36	72	100	40	26	90	90	80	80		70		E
61	142067	92	96	88	76	70	90	90	90	70		60		U
62	142030	52	100	92	76	88	90	90	90	90		80		B
63	142061	A	A	A	A	A	80	70	50	60		80		U
64	142037	92	100	72	92	A	90	90	90	90		80		B
65	142064	A	A	100	72	92	90	90	90	80		70		C
66	142010	96	96	98	98	94	90	90	90	90		90		C
67	142025	80	84	88	32	72	90	90	90	90		80		B
68	142303	36	80	92	92	70	90	90	90	90		80		C
69	142039	40	88	92	92	90	90	90	90	80		70		A
70	142020	24	76	A	A	64	90	90	90	80		70		B
71	142028	A	A	A	A	60	90	90	90	70		60		D
72	142042	0	16	8	8	0	70	80	80	90		50		U
73	142048	96	88	92	52	84	90	90	90	90		80		U
74	152921	48	68	70	70	80	90	90	90	90		80		E
75	152912	64	80	84	76	44	90	90	80	80		70		E
76	152919	16	44	70	70	30	70	70	80	90		80		U
77	152905	40	8	88	84	76	90	90	90	80		70		E
78	152925	28	72	60	60	10	90	90	70	70		60		U
79	152910	34	36	80	80	40	90	90	80	70		60		E
80	152924	72	28	A	A	75	90	90	90	70		60		U
81	152902	28	20	70	70	80	90	90	80	80		60		U
82	142003	80	68	A	A	96	90	90	90	90		100		D
83	142068	72	60	96	96	96	90	90	90	90		100		B
84	142053	80	80	88	72	96	90	90	90	90		100		D
85	142007	76	24	60	52	92	90	90	90	90		100		D
86	142305	56	80	A	A	94	90	90	90	90		90		C
87	142307	32	72	80	96	90	80	90	90	90		100		C
88	142023	A	A	80	84	98	90	90	90	90		100		C
89	142055	68	36	84	96	98	90	90	90	90		100		A
90	142046	0	32	40	16	92	80	90	90	90		90		U
91	142052	A	A	A	A	A	90	90	90	90		90		A
92	142103	36	12	74	90	96	90	90	90	90		100		E
93	142021	96	88	96	96	98	90	90	90	90		100		B
94	142018	60	44	30	18	92	90	90	90	90		100		U

95	142043	68	64	60	44	84	90	90	90	90	100	E
96	142065	80	44	A	A	86	90	90	90	90	100	U
97	142060	52	72	76	92	90	90	90	90	90	100	E
98	142006	A	A	A	A	A	90	90	90	90	90	C
99	142304	20	44	60	56	92	90	90	90	90	90	E
100	142014	A	A	A	A	A	90	90	90	90	90	D
101	142015	100	96	96	92	96	100	90	90	90	80	A
102	142069	4	28	50	22	90	90	90	90	90	100	E
103	142054	32	40	40	24	98	90	90	90	90	100	E
104	142062	72	80	60	32	90	90	90	90	90	100	B
105	142019	84	72	90	86	84	90	90	90	90	100	C
106	142005	A	A	A	A	A	90	90	90	90	100	C
107	142033	A	A	96	96	96	90	90	90	90	100	B
108	142105	16	40	50	22	92	80	90	90	90	80	E
109	142002	80	40	90	82	94	90	90	90	90	90	A
110	142102	80	84	A	A	98	90	90	90	90	100	B
111	142311	52	80	92	80	92	90	90	90	90	100	C
112	142310	A	A	A	A	A	90	90	90	90	80	E
113	142109	40	32	60	76	84	90	90	90	90	100	E
114	152909	20	16	80	64	72	90	90	90	90	100	D
115	152918	28	72	78	54	78	90	90	90	90	100	U
116	152911	64	36	40	64	80	80	90	90	90	100	U
117	152904	72	52	86	86	88	90	90	90	90	100	E
118	152908	20	44	40	32	80	80	90	90	90	100	U
119	152913	32	20	42	34	76	80	90	90	90	80	E
120	152917	72	28	80	60	84	80	90	90	90	80	E
121	152906	24	76	40	64	82	80	90	90	90	80	E
122	152914	0	68	30	10	84	80	90	90	90	70	E
123	152927	40	64	44	60	86	80	90	90	90	60	D

<b>Benchmark:</b> % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU													
L – Level, C-Count													
	CIT					Assignments			Survey		Quiz		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4		CO5		
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1		Q1		
C	55	67	79	64	103	120	121	120	122	0	108		51
%	49.55	60.36	73.15	59.26	91.15	97.56	98.37	97.56	99.19	0	87.8		41.46
L	0	1	2	0	3	3	3	3	3	0	3		0

### Attainment Calculation:

#### Survey:

<b>Survey</b>	<b>C409.1</b>	<b>C409.2</b>	<b>C409.3</b>	<b>C409.4</b>	<b>C409.5</b>
<b>Obtained %</b>	<b>96.64</b>	<b>95.69</b>	<b>96.07</b>	<b>94.54</b>	<b>94.51</b>
<b>Obtained Level</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C409:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C409.1	0	3	-	-		0.9	0	0.36	3	0.89
C409.2	1	3	-	-		1.6	0	0.64	3	1.11
C409.3	2	3	-	-		2.3	0	0.92	3	1.34
C409.4	0	-	3	-		0.6	0	0.24	3	0.79
C409.5	3	-	-	3		3	0	1.2	3	1.56
<b>C409</b>										<b>1.14</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C409.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C409.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C409.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C409.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C409.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C409 = \frac{C409.1 + C409.2 + C409.3 + C409.4 + C409.5}{5} = 1.14$$

**KLNCE/B.E - EEE – 2014-2018 Batch –**  
**Course: EE6009 Power Electronics for Renewable Energy Systems: C410E4**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		Quiz	AU
		CO1 CIT1	CO2 CIT2	CO3 CIT3	CO4 CIT4	CO5 CIT5	CO1 A1	CO2 A2	CO3 A3	CO3 S1	CO4 S2	CO5 Q1	
1	142009	100	92	96	96	100	100	100	100	95	96	90	C
2	142308	88	40	42	38	68	90	90	90	89	90	95	D
3	142022	36	56	46	50	86	100	100	90	96	95	99	D
4	142112	60	16	46	50	86	90	100	90	91	90	98	E
5	142070	60	38	60	48	56	90	90	100	98	98	98	E
6	142306	56	40	2	14	A	90	80	100	95	96	90	E
7	142063	32	20	30	38	74	90	90	100	89	90	92	U
8	142301	100	84	90	90	98	100	100	90	92	90	90	E
9	142034	92	56	80	68	20	100	80	90	90	90	91	E
10	142040	80	12	20	16	40	90	80	90	85	86	87	E
11	142071	88	64	40	48	96	90	100	100	92	92	88	E
12	142101	80	76	0	0	68	100	70	80	95	96	95	B
13	142017	68	60	38	42	60	100	80	90	96	96	90	E
14	142045	84	88	80	72	98	100	90	90	90	90	91	D
15	142302	88	68	60	56	94	90	100	90	96	96	92	B
16	142072	8	52	12	16	20	80	100	100	85	85	86	U
17	142111	44	72	60	56	70	90	90	90	85	85	86	U
18	142059	96	84	90	82	100	10	100	100	97	97	96	C
19	142050	56	32	70	74	90	80	80	90	88	90	91	C
20	142309	A	A	60	80	96	OD	OD	OD	98	98	97	E
21	142056	88	76	90	78	100	100	90	90	98	97	96	D
22	142058	A	A	60	64	78	100	90	90	92	92	93	B
23	142004	A	A	62	58	98	100	100	100	98	98	92	C
24	142106	8	40	30	30	80	100	90	100	92	95	91	D
25	142104	51	51	4	8	88	70	90	90	88	90	90	D
26	142011	8	48	80	72	66	90	90	90	87	90	89	D
27	142041	84	32	60	64	70	90	90	90	95	96	92	C
28	142024	56	24	4	4	80	100	100	100	94	94	90	E
29	142026	92	48	82	78	60	100	90	80	98	96	95	C
30	142008	100	84	98	94	98	90	90	90	98	96	94	E
31	142038	92	80	50	58	96	100	80	90	90	90	90	E
32	142032	84	68	70	78	92	90	90	90	90	89	90	C
33	152915	24	28	60	64	60	80	100	90	88	88	87	D
34	152923	32	0	30	34	58	70	100	100	85	80	82	D
35	152920	28	0	50	46	42	80	80	90	80	82	84	D
36	152922	16	0	68	60	66	70	80	90	80	82	84	E
37	152916	32	4	64	64	76	80	80	80	85	80	82	E
38	152901	32	8	58	54	54	80	80	90	85	85	86	E
39	152928	60	8	70	74	96	80	80	90	90	92	92	E
40	162401	96	84	70	70	100	80	70	80	95	92	90	E
41	162402	68	20	A	A	78	80	80	90	90	92	90	B
42	142001	48	52	80	74	84	100	100	100	100	100	100	C
43	142012	88	70	68	68	88	100	100	100	100	100	100	B
44	142057	68	56	68	58	0	100	100	100	100	100	100	D

45	142035	56	36	52	40	30	100	100	100	100	100	100	E
46	142047	52	52	64	54	78	100	100	100	100	100	100	D
47	142108	48	56	52	66	0	100	100	100	100	100	100	E
48	142013	64	60	56	60	0	100	100	100	100	100	100	D
49	142036	64	68	64	66	76	100	100	100	100	100	100	C
50	142067	60	66	68	68	98	100	100	100	100	100	100	B
51	142031	52	64	84	60	60	100	100	100	100	100	100	E
52	142074	72	60	68	76	96	100	100	100	100	100	100	C
53	142044	48	28	64	38	56	100	100	100	100	100	100	B
54	142107	80	56	64	50	84	100	100	100	100	100	100	C
55	142029	64	76	64	58	90	100	100	100	100	100	100	E
56	142016	56	38	52	66	76	100	100	100	80	80	100	B
57	142051	52	50	50	36	0	100	100	100	80	80	100	C
58	142110	0	52	68	72	84	100	100	100	100	100	100	U
59	142066	56	52	68	40	32	0	0	100	100	100	100	C
60	142073	52	38	52	50	62	100	100	100	70	70	100	C
61	142027	52	62	68	60	70	100	100	100	100	100	100	C
62	142030	68	68	0	68	86	100	100	100	100	100	100	B
63	142061	56	20	0	22	0	100	100	100	0	0	100	E
64	142037	84	0	0	72	92	100	100	100	100	100	100	B
65	142064	0	56	72	0	92	100	100	100	100	100	100	B
66	142010	84	72	68	36	94	100	100	100	100	100	100	B
67	142025	0	64	68	74	84	100	100	100	100	100	100	S
68	142303	60	66	50	50	70	100	100	100	100	100	100	C
69	142039	68	64	0	78	92	100	100	100	100	100	100	E
70	142020	84	56	0	50	86	100	100	100	0	0	100	E
71	142028	0	0	0	0	64	0	0	0	100	100	100	C
72	142042	0	0	0	6	16	100	100	100	100	100	100	
73	142048	72	60	50	62	84	100	100	100	100	100	100	C
74	152921	56	32	52	56	74	100	100	100	100	100	100	E
75	152912	68	66	60	72	62	100	100	100	100	100	100	D
76	152919	16	2	16	0	20	100	100	100	100	100	100	U
77	152905	56	32	52	52	60	100	100	100	100	100	100	E
78	152925	32	16	4	50	58	100	100	100	100	100	100	E
79	152910	64	34	60	74	60	100	100	100	100	100	100	E
80	152924	72	46	52	70	70	0	0	0	0	0	100	C
81	152902	48	8	50	64	74	100	100	100	100	100	100	E
82	142003	96	88	80	72	98	100	100	90	95	96	92	C
83	142068	96	84	80	44	100	100	100	100	98	97	90	C
84	142053	88	80	54	58	92	100	80	90	92	90	89	C
85	142007	92	56	A	A	82	80	90	90	100	95	90	E
86	142305	92	88	74	78	98	90	90	90	100	96	92	D
87	142307	96	80	72	68	98	90	90	100	98	97	96	E
88	142023	68	72	80	80	92	90	90	90	99	98	90	D
89	142055	96	88	88	92	A	80	90	90	95	92	90	B
90	142046	72	28	24	32	80	80	80	90	96	90	82	B
91	142052	72	60	A	A	O	100	90	80	A	A	A	E
92	142103	80	48	66	66	92	90	90	90	96	92	95	C
93	142021	92	84	92	96	96	90	100	90	98	92	96	B
94	142018	12	48	76	72	78	80	80	90	97	94	89	U

95	142043	88	64	70	66	62	90	100	100	88	90	85	C
96	142065	84	76	46	50	92	90	100	100	89	90	89	E
97	142060	76	12	60	64	90	80	90	100	95	92	95	C
98	142006	84	60	A	A	A	90	90	90	A	A	A	D
99	142304	76	28	60	64	72	80	80	90	98	89	90	D
100	142014	80	80	A	A	A	90	90	100	A	A	A	C
101	142015	76	92	A	A	96	100	100	90	96	90	95	B
102	142069	24	44	4	4	36	80	90	90	85	86	85	E
103	142054	64	20	12	16	42	A	90	100	85	87	86	E
104	142062	96	88	A	A	100	100	100	90	98	95	90	B
105	142019	80	88	80	84	98	100	100	100	97	92	80	B
106	142005	A	A	A	A	A	A	90	A	A	A	90	C
107	142033	A	A	90	98	100	A	90	90	98	95	90	B
108	142105	76	32	60	68	78	80	80	80	68	90	90	D
109	142002	84	56	80	92	88	90	90	90	92	92	90	S
110	142102	72	64	64	72	92	90	90	90	72	90	80	E
111	142311	84	72	48	57	94	100	90	80	57	90	90	B
112	142310	92	80	A	A	A	A	A	A	A	A	100	B
113	142109	72	48	50	46	66	90	90	90	46	95	90	B
114	152909	76	20	72	76	82	90	90	100	76	95	90	E
115	152918	A	A	74	74	78	90	90	100	74	90	90	C
116	152911	64	16	60	72	84	80	80	90	72	95	90	U
117	152904	100	56	72	80	98	90	90	90	80	90	100	C
118	152908	40	24	60	64	56	80	80	90	64	90	90	U
119	152913	100	0	62	62	78	80	80	80	62	96	90	E
120	152917	0	44	60	76	96	80	80	90	76	96	80	D
121	152906	28	28	30	30	44	90	90	80	30	95	80	E
122	152914	28	32	52	64	48	80	90	90	64	95	80	U
123	152927	72	64	80	80	78	100	100	90	80	90	90	E

Benchmark: % of Students secured $\geq 60$ marks in CITs, $\geq 80$ in assignment, $\geq 65$ in Seminar/Quiz, Tutorial and $\geq C$ (7) grade in AU												
L – Level, C-Count												
	CIT					Assignments			Survey		Quiz	AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	Q1	
C	73	49	67	64	93	111	116	118	109	115	120	53
%	62.39	41.88	58.77	56.14	80	93.28	95.08	97.52	92.37	97.46	100	43.09
L	1	0	0	0	3	3	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C410E4.1	C410E4.2	C410E4.3	C410E4.4	C410E4.5
Obtained %	94.21	94.25	94.69	94.83	93.07
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C410E4:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C410E4.1	1	3	-	-		1.6	0	0.64	3	1.11
C410E4.2	0	3	-	-		0.9	0	0.36	3	0.89
C410E4.3	0	3	3	-		0.9	0	0.36	3	0.89
C410E4.4	0	-	3	-		0.6	0	0.24	3	0.79
C410E4.5	3	-	-	3		3	0	1.2	3	1.56
<b>C410E4</b>										<b>1.05</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C410E4.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C410E4.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C401E4.3	AU Exam	[0.7*Internal Test + 0.2*Assignment + 0.1*Seminar]
C410E4.4	AU Exam	[0.8*Internal Test + 0.2*Seminar]
C410E4.5	AU Exam	[0.8*Internal Test + 0.2*Quiz]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C410E4 = \frac{C410E4.1 + C410E4.2 + C410E4.3 + C410E4.4 + C410E4.5}{5} = 1.05$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: GE6757 Total Quality Management: C411E5**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	CIT					Assignment			Seminar		AU
		CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
		CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	
1	142009	96	98	92	92	90	99	99	99	99	99	B
2	142308	60	68	76	76	70	98	98	90	85	85	E
3	142022	92	64	76	76	80	97	97	85	90	90	E
4	142112	76	72	88	88	40	96	96	90	92	85	E
5	142070	16	A	20	20	4	93	93	92	91	91	E
6	142306	64	60	A	A	A	95	95	91	85	92	U
7	142063	78	66	64	64	50	92	92	85	80	93	U
8	142301	92	88	92	92	80	99	99	95	99	99	C
9	142034	76	56	84	84	20	98	98	90	80	94	C
10	142040	28	38	24	24	20	91	91	91	85	96	C
11	142071	72	A	A	A	82	99	99	94	90	90	B
12	142101	64	62	A	A	15	99	99	96	92	92	A
13	142017	80	56	80	80	50	99	99	98	95	95	C
14	142045	92	86	92	92	75	99	99	85	99	99	C
15	142302	80	88	A	A	85	99	99	99	95	95	C
16	142072	28	26	56	56	25	98	98	85	91	91	U
17	142111	84	70	76	76	60	97	97	90	91	92	U
18	142059	92	88	88	88	80	99	99	99	99	96	B
19	142050	56	74	92	92	80	96	96	96	90	98	B
20	142309	A	A	A	A	84	99	99	99	99	90	C
21	142056	92	88	92	92	69	99	99	99	99	89	C
22	142058	52	A	72	72	60	98	98	80	90	85	C
23	142004	60	62	76	76	60	97	97	92	91	95	E
24	142106	92	92	84	84	70	99	99	99	92	92	B
25	142104	48	62	72	72	40	97	97	99	99	93	C
26	142011	56	58	94	94	20	98	98	91	94	98	B
27	142041	28	60	36	36	1	97	97	85	96	92	C
28	142024	56	66	88	88	70	98	98	80	95	88	C
29	142026	80	86	64	64	50	98	98	92	85	89	E
30	142008	96	92	92	92	80	99	99	99	88	95	B
31	142038	72	74	92	92	20	96	96	92	89	85	B
32	142032	88	78	68	68	50	98	98	99	96	95	D
33	152915	52	34	64	64	20	97	97	92	92	99	D
34	152907	36	24	52	52	30	96	96	94	94	92	D
35	152923	24	36	52	52	50	91	91	96	96	99	E
36	152920	72	30	68	68	50	97	97	99	99	98	D
37	152922	28	16	64	64	40	96	96	80	80	92	U
38	152916	28	16	32	32	8	91	91	85	85	89	B
39	152926	88	56	76	76	50	98	98	85	80	80	C
40	152901	92	88	92	92	80	99	99	85	89	89	E
41	152928	36	14	84	84	40	96	96	85	80	80	D
42	142001	13	0	96	96	82	100	100	100	100	100	E
43	142012	85	80	100	68	98	100	100	100	100	100	B
44	142057	53	50	100	100	98	100	100	100	100	100	C
45	142035	68	0	64	72	80	100	100	100	100	100	E

46	142047	45	90	76	12	90	100	100	100	100	100	E
47	142108	55	80	68	8	78	100	100	100	100	100	C
48	142013	75	90	100	88	96	100	100	100	100	100	C
49	142036	85	90	64	60	98	100	100	100	100	100	D
50	142067	80	90	100	8	92	100	100	100	100	100	C
51	142031	60	100	96	24	68	100	100	100	100	100	C
52	142074	93	70	100	96	66	100	100	100	100	100	C
53	142044	63	80	96	88	98	100	100	100	100	100	B
54	142107	65	20	72	32	56	100	100	100	100	100	D
55	142029	68	50	88	52	82	100	100	100	100	100	E
56	142016	78	90	96	100	98	100	100	100	100	100	C
57	142051	60	50	88	84	98	100	100	100	100	100	C
58	142110	43	50	44	32	68	100	100	100	100	100	E
59	142066	60	80	92	100	96	100	100	100	100	100	C
60	142073	A	A	72	36	84	100	100	100	100	100	D
61	142027	90	10	16	0	70	100	100	100	100	100	C
62	142030	93	100	88	96	98	100	100	100	100	100	B
63	142061	40	0	24	20	A	100	100	100	100	100	UA
64	142037	60	80	0	0	96	100	100	100	100	100	B
65	142064	80	80	0	0	98	100	100	100	100	100	A
66	142010	88	100	96	100	98	100	100	100	100	100	B
67	142025	60	100	100	92	76	100	100	100	100	100	C
68	142303	58	80	80	36	90	100	100	100	100	100	D
69	142039	78	80	100	100	98	100	100	100	100	100	C
70	142020	55	90	60	76	76	100	100	100	100	100	D
71	142028	63	0	A	0	98	100	100	100	100	100	C
72	142042	A	A	4	0	22	100	100	100	100	100	UA
73	142048	58	80	88	96	98	100	100	100	100	100	D
74	152921	50	90	76	12	72	100	100	100	100	100	E
75	152912	60	100	72	48	42	100	100	100	100	100	C
76	152919	7.5	0	8	0	26	100	100	100	100	100	C
77	152905	48	0	88	24	42	100	100	100	100	100	E
78	152925	20	30	24	60	66	100	100	100	100	100	U
79	152910	53	80	60	44	60	100	100	100	100	100	D
80	152924	25	0	68	48	88	100	100	100	100	100	C
81	152902	73	50	52	52	36	100	100	100	100	100	E
82	142003	85	80	92	80	98	100	100	100	100	100	C
83	142068	95	90	100	96	A	100	100	100	100	100	D
84	142053	80	60	92	88	98	100	100	100	100	100	C
85	142007	83	50	A	A	70	100	100	100	100	100	B
86	142305	98	90	96	100	98	100	100	100	100	100	C
87	142307	75	80	96	100	98	100	100	100	100	100	B
88	142023	55	80	96	76	72	100	100	100	100	100	D
89	142046	73	50	96	80	98	100	100	100	100	100	B
90	142055	60	20	56	48	56	100	100	100	100	100	E
91	142052	50	0	A	A	64	100	100	100	100	100	C
92	142103	80	40	100	88	A	100	100	100	100	100	C
93	142021	90	80	100	96	98	100	100	100	100	100	B
94	142018	53	60	92	32	78	100	100	100	100	100	E
95	142043	70	60	88	60	80	100	100	100	100	100	D

96	142065	63	60	88	96	86	100	100	100	100	100	E
97	142060	55	30	88	56	80	100	100	100	100	100	E
98	142006	78	0	A	A	98	100	100	100	100	100	E
99	142304	90	60	96	40	80	100	100	100	100	100	E
100	142014	68	0	A	A	98	100	100	100	100	100	C
101	142015	93	90	100	96	A	100	100	100	100	100	A
102	142069	38	0	80	48	28	100	100	100	100	100	E
103	142054	60	70	80	32	56	100	100	100	100	100	E
104	142062	93	90	A	A	98	100	100	100	100	100	B
105	142019	85	70	A	A	98	100	100	100	100	100	E
106	142005	63	0	A	A	90	100	100	100	100	100	E
107	142033	0	0	96	100	98	100	100	100	100	100	B
108	142105	68	0	80	80	60	100	100	100	100	100	E
109	142002	80	70	96	88	98	100	100	100	100	100	C
110	142102	68	80	92	72	60	100	100	100	100	100	C
111	142311	78	90	96	84	94	100	100	100	100	100	C
112	142310	80	0	A	A	82	100	100	100	100	100	B
113	142109	50	50	96	56	A	100	100	100	100	100	E
114	152909	50	80	88	64	A	100	100	100	100	100	D
115	152918	93	80	96	88	56	100	100	100	100	100	E
116	152911	33	0	84	28	26	100	100	100	100	100	U
117	152904	80	10	88	64	86	100	100	100	100	100	E
118	152913	70	0	96	40	60	100	100	100	100	100	E
119	152908	53	0	88	64	56	100	100	100	100	100	D
120	152917	45	0	88	24	80	100	100	100	100	100	C
121	152906	53	0	100	24	66	100	100	100	100	100	E
122	152914	45	0	52	40	32	100	100	100	100	100	U
123	152927	70	50	96	40	80	100	100	100	100	100	C

**Benchmark:** % of Students secured  $\geq 60$  marks in CITs,  $\geq 80$  in assignment,  $\geq 65$  in Seminar/Quiz, Tutorial and  $\geq C$  (7) grade in AU |  
L – Level, C-Count

	CIT					Assignments			Survey		AU
	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
	CIT1	CIT2	CIT3	CIT4	CIT5	A1	A2	A3	S1	S2	
C	77	67	91	68	81	123	123	123	123	123	64
%	64.17	57.26	83.49	61.82	70	100	100	100	100	100	52.89
L	1	0	3	1	2	3	3	3	3	3	0

### Attainment Calculation:

#### Survey:

Survey	C411E5.1	C411E5.2	C411E5.3	C411E5.4	C411E5.5
Obtained %	95.18	96.22	95.14	94.56	94.59
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					

**Course Outcome Attainment – C411E45:**

Course	Internal Test	Assign.	Seminar	Quiz	Tutorial	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C411E5.1	1	3	-			1.6	0	0.64	3	1.11
C411E5.2	0	3	-			0.9	0	0.36	3	0.89
C411E5.3	3	3	-			3	0	1.2	3	1.56
C411E5.4	1	-	3			1.4	0	0.56	3	1.05
C411E5.5	3	-	3			2.2	0	0.88	3	1.3
<b>C411E5</b>										<b>1.18</b>

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C411E5.1	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C411E5.2	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C411E5.3	AU Exam	[0.7*Internal Test + 0.3*Assignment]
C411E5.4	AU Exam	[0.8*Internal Test + 0.2*Seminars]
C411E5.5	AU Exam	[0.8*Internal Test + 0.2*Seminars]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C411E5 = \frac{C411E5.1 + C411E5.2 + C411E5.3 + C411E5.4 + C411E5.5}{5} = 1.18$$

**KLNCE/B.E - EEE – 2014-2018 Batch – Course: C412 Project Work: C412**  
**Internal Assessment/ Assignment/ Tutorial/ Seminar/ Quiz/AU marks**

S.No.	Roll.No.	Review					AU
		CO1	CO2	CO3	CO4	CO5	
		R	R	R	R	R	
1	142009	97	97	97	97	97	S
2	142308	98	98	98	98	98	S
3	142112	98	98	98	98	98	S
4	142022	98	97	97	97	97	S
5	142070	88	88	88	88	88	A
6	142306	88	88	92	90	98	A
7	142063	96	93	92	96	96	S
8	142301	90	95	99	98	98	S
9	142034	93	93	93	93	93	S
10	142040	92	93	93	93	93	S
11	142071	98	98	98	98	98	S
12	142101	96	96	97	96	97	S
13	142017	90	92	91	91	92	S
14	142045	92	92	92	92	92	S
15	142302	92	92	92	92	92	S
16	142072	88	88	88	88	88	A
17	142111	88	88	92	90	98	A
18	142059	96	96	96	97	97	S
19	142050	96	96	96	95	95	S
20	142309	97	97	96	96	95	S
21	142056	98	98	98	98	97	S
22	142058	98	97	98	98	96	S
23	142106	94	94	94	94	94	S
24	142004	92	94	94	94	94	S
25	142104	92	94	94	94	94	S
26	142011	96	96	96	95	94	S
27	142041	94	94	94	94	94	S
28	142024	92	91	91	91	92	S
29	142026	98	98	98	98	96	S
30	142008	96	97	96	95	94	S
31	142038	97	98	98	97	97	S
32	142032	95	95	95	95	94	S
33	152915	85	85	85	85	85	A
34	152923	98	98	98	98	99	S
35	152920	96	96	96	96	97	S
36	152922	96	96	96	96	96	S
37	152916	96	97	96	96	97	S
38	152901	99	99	99	98	99	S
39	152928	99	99	99	98	98	S
40	162402	96	96	96	96	96	S
41	162401	96	96	96	96	96	S
42	142001	99	99	99	98	99	S
43	142012	98	97	97	97	98	S
44	142057	96	97	96	96	96	S
45	142035	99	99	98	98	99	S

46	142047	99	98	98	98	99	S
47	142108	96	96	96	96	96	S
48	142013	97	97	98	97	98	S
49	142036	96	96	97	96	96	S
50	142067	97	97	98	97	98	S
51	142031	97	97	98	98	98	S
52	142074	96	96	97	96	96	S
53	142044	96	96	97	96	96	S
54	142107	96	96	96	97	96	S
55	142029	97	97	97	98	97	S
56	142016	99	98	99	99	98	S
57	142051	98	98	99	99	98	S
58	142110	99	98	99	99	99	S
59	142066	98	99	99	99	99	S
60	142073	98	98	99	99	99	S
61	142027	96	96	96	97	96	S
62	142030	96	97	97	96	97	S
63	142061	77	77	77	77	77	B
64	142037	98	98	98	99	99	S
65	142064	98	98	98	99	99	S
66	142010	98	98	98	98	98	S
67	142025	98	99	98	98	98	S
68	142303	99	99	98	99	98	S
69	142039	98	98	97	98	98	S
70	142020	98	99	99	98	98	S
71	142028	98	99	99	98	98	S
72	142042	78	79	77	74	70	B
73	142048	99	99	99	98	98	S
74	152921	98	99	99	98	98	S
75	152912	98	99	99	98	98	S
76	152919	85	85	85	85	85	A
77	152905	99	99	99	98	98	S
78	152925	85	85	85	85	85	A
79	152910	99	99	99	98	98	S
80	152924	98	99	99	98	98	S
81	152902	98	98	98	98	98	S
82	142003	98	99	98	98	98	S
83	142068	99	99	98	98	98	S
84	142053	98	98	98	98	98	S
85	142007	98	99	98	98	98	S
86	142305	98	98	98	97	98	S
87	142307	98	98	98	98	99	S
88	142023	98	98	98	98	98	S
89	142055	99	99	99	98	98	S
90	142046	98	98	98	98	98	S
91	142052	99	99	99	98	99	S
92	142103	99	99	99	98	98	S
93	142021	90	88	89	86	87	S
94	142018	92	93	92	92	92	S
95	142043	92	93	92	92	92	S

96	142065	96	95	96	95	95	S
97	142060	92	92	92	92	92	S
98	142006	89	92	90	88	90	S
99	142304	92	93	92	92	93	S
100	142014	93	93	92	93	92	S
101	142015	96	96	96	96	95	S
102	142069	95	96	95	95	95	S
103	142054	95	96	96	96	97	S
104	142062	95	96	95	96	95	S
105	142019	97	97	97	98	98	S
106	142005	96	96	96	97	96	S
107	142033	99	99	98	99	99	S
108	142105	96	97	96	97	97	S
109	142002	96	97	96	96	96	S
110	142102	96	96	96	96	96	S
111	142311	95	96	95	95	95	S
112	142310	98	99	99	99	98	S
113	142109	98	99	99	98	99	S
114	152909	98	98	98	99	99	S
115	152918	98	99	98	99	99	S
116	152911	98	99	99	99	98	S
117	152904	98	99	98	99	99	S
118	152908	99	99	99	98	99	S
119	152913	98	99	98	98	98	S
120	152917	98	99	98	99	98	S
121	152906	98	99	98	98	98	S
122	152914	98	99	98	98	98	S
123	152927	98	99	98	98	98	S

<b>Benchmark:</b> % of Students secured $\geq 80$ marks in Reviews, $\geq 80$ and $\geq A$ (9 grade in AU						
L – Level, C-Count						
	Review					AU
	CO1	CO2	CO3	CO4	CO5	
	R	R	R	R	R	
C	121	121	121	121	121	121
%	98.37	98.37	98.37	98.37	98.37	98.37
L	3	3	3	3	3	3

**Attainment Calculation:**

**Survey:**

Survey	C412.1	C412.2	C412.3	C412.4	C412.5
Obtained %	95.75	95.08	95.0	95.59	96.57
Obtained Level	3	3	3	3	3
Survey Level: If Obtained percentage $\geq 80$ ; 3 If Obtained percentage $\geq 70$ ; 2 If Obtained percentage $\geq 60$ ; 1; Otherwise = 0					



**Course Outcome Attainment – C412:**

Course	Internal Test	IA	AU Exam	Direct Attainment	Survey	Overall attainment
C412.1	3	3	3	3	3	3
C412.2	3	3	3	3	3	3
C412.3	3	3	3	3	3	3
C412.4	3	3	3	3	3	3
C412.5	3	3	3	3	3	3
C412						3

**Formula for Attainment Calculations:**

CO	Attainment = (0.6*AU + 0.4*IA)	
	External Assessment (AU)	Internal Assessment (IA)
C412.1	AU Exam	[1*Review]
C412.2	AU Exam	[1*Review]
C412.3	AU Exam	[1*Review]
C412.4	AU Exam	[1*Review]
C412.5	AU Exam	[1*Review]

**Overall Attainment: [0.8\*DI + 0.2\*Survey]**

$$C412 = \frac{C412.1 + C412.2 + C412.3 + C412.4 + C412.5}{5} = 3$$



## SALIENT FEATURES OF THE DEPARTMENT

- Started offering B.E. in Electrical and Electronics Engineering in the year 1994 with an intake of 40 (No.-732-50-8/RC/94, dated 11th August 1994, AICTE), an intake of 60 in 1996, an intake of 90 in 2002 (F.No :730-52-227(E)/ET/97 dated 19.06.2002), with the latest intake of 120 in 2011 (F.No.Southern/1-400215781/2011/EOA, dated 01.09.2011, AICTE).
- Started offering M.E. in Power Systems Engineering in the year 2005 with an intake of 20 and increased intake to 24 in 2012 (F.No.Southern/1-687512981/2012/EOA, dated 10.05.2012, AICTE).
- Accredited in March 2004 (First time - F.No.NBA/ACCR-242/2003, dated 24/03/04) and Re-accredited (Second time - F.No.NBA/ACCR-242/2003, dated July 19, 2008), Re-accredited (Third time - For 2 years w.e.f. 28-08-2012), Re-accredited (Fourth time - For 3 years w.e.f. July 2016, upto 30.06.2019, F.No. 33-01/20100-NBA, dated 04.02.2017) by National Board Accreditation, New Delhi.
- Recognized Research Centre No.4490408, Approved by Anna University, Chennai with effect from December 2012, offering guidance for M.S & Ph.D.(Full time/Part time) (Renewed upto December 2018, Lr.No. 4904/IR/EEE/AR1 dated 18.02.2016).
- Both UG and PG programs are permanently affiliated to Anna University, Chennai with effect from December 2012.  
MODROB fund of Rs.5 lakhs was allotted for the year 2011-2012 for the Power Electronics laboratory (No.8024/RIFD/MOD-131(pvt)/Policy-III/2011-2012, dated 06.03.2012).
- Department of Science and Technology (DST), sanctioned financial assistance of ₹19,75,800/- for the project entitled 'Smart Meter for measuring Power Quality Disturbances using GSM Technology', Dr.K.Gnanambal, Professor/EEE is the Principal Investigator (Ref. No. IDP/IND/4/2015 dated 03.08.2016).

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