

**K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM – 630 612**  
**(An Autonomous Institution, Affiliated to Anna University, Chennai)**

Agenda for Fifth Academic Council Meeting to be held on 24<sup>th</sup> September 2022 through online mode @ 11:00 AM.

1. Review of minutes of 4<sup>th</sup> Academic Council Meeting held on 26<sup>th</sup> February 2022 through online mode.
2. Approval of amendments in Regulations R2020
3. Approval for the introduction of verticals for the award of Minor degree and Honors based on Anna University 2021 Regulations.
4. Presentation of curriculum and syllabi of Mathematical courses to be offered in III & IV semester of B.E – CSE (Cyber Security) Programme
5. Presentation of curriculum and syllabus of VII & VIII semesters of all B.E/B.Tech programs
6. Presentation of curriculum and syllabus of Management courses to be offered in VII & VIII semester B.E / B.Tech Degree Programmes
7. Proposal for the start of following new UG programmes  
B.E. - Electrical and Computer Engineering.(Under the Department of EEE)  
B.E - Robotics and Automation (Under the Department of Mechanical Engineering)  
B.Tech. - Mechanical Engineering- (with specialization in AI & ML)
8. Exemption of personality and character development programmes such as NSS/NSO/YRC for the students admitted in the year 2020-2021
9. Presentation of end semester examinations results held during Jan/Feb 2022 and VIII semester results held during April/May 2022
10. Any other points of common interest



**K.L.N. COLLEGE OF ENGINEERING ,POTTAPALAYAM- 630612****Sivagangai District**

(An Autonomous Institution, Affiliated to Anna University, Chennai)

Ref: KLNCE/Autonomous/Academic Council /2022

26.09.2022

Minutes of the fifth Academic Council meeting held on 24<sup>th</sup>September 2022 through hybrid mode.Meeting ID:Meeting ID[https://meet.google.com/bhs-ppho-](https://meet.google.com/bhs-ppho-vvy)

vvy,Date:24.09.2022,Time:11:00am

S. No.	Name of the member	Category
1.	<b>Dr.A.V.Ramprasad</b> , Principal	Chairperson
2.	<b>Dr.Rames Chandra Panda</b> Sr.Principal Scientist, Honorary faculty, Anna University,Chemical Engineering, CSIR-Central Leather research laboratory, Chennai – 600 020.	Anna University Nominee
3.	<b>Dr.K.Sundareswaran</b> Senior Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli- 620 015.	Anna University Nominee
4.	<b>Dr.Sishaj P Simon</b> Associate Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli- 620 015.	Anna University Nominee
5.	<b>Dr.P. Asokan</b> Professor HAG, Department of Production Engineering, National Institute of Technology, Tiruchirappalli- 620 015.	Academician
6.	<b>Dr. Antony Franklin</b> Associate Professor, Department of Computer Science and Engineering, Indian Institute of Technology, Hyderabad – 502 285.	Academician
7.	<b>Dr. M.Manohar</b> Deputy General Manager, Booster Hardware Fabrication Facilities(Materials & Mechanical Entity) Vikram Sarabhai Space Centre, Department of Space, Government of India,ISRO, Thiruvananthapuram 695 022.	Research Organization
8.	<b>Dr.S.J.Thiruvengadam</b> Professor and Dean(Academics), Thiagarajar College of Engineering,	Academician

	Madurai-625 015.	
9.	<b>Mr.Manikandan</b> Chief Operating Officer, M/s Aparajitha Software Services Pvt Ltd., Madurai	Industrialist
10.	<b>Dr.P.Udhaya Kumar</b>	Chairman BoS/ Department of Mechanical Engineering
11.	<b>Dr.S.M.Kannan</b>	Member Secretary & Chairman BoS / Department of Electrical and Electronics Engineering
12.	<b>Dr.V.Kejalakshmi</b>	Chairman BoS / Department of Electronics and Communication Engineering
13.	<b>Dr.S.Miruna Joe Amali</b>	Chairman BoS / Department of Computer Science and Engineering
14.	<b>Dr.P.Ganesh Kumar</b>	Chairman BoS/ Department of Information Technology& Artificial Intelligence and Data Science
15.	<b>N.Rajkumar</b>	Associate Professor, Department of Automobile Engineering
16.	<b>Dr.S.Nagammai</b>	Chairman BoS/ Department of Electronics and Instrumentation Engineering
17.	<b>Dr.P.R. Vijayalakshmi</b>	Controller of Examinations
18.	<b>Dr.T.Jothimurugan</b>	Chairman BoS/ Department of Master of Business Administration
19.	<b>Dr.M.R.Ilango</b>	Chairman BoS/Department of Master of Computer Applications
20.	<b>Prof.N.V.Karthikeyan</b>	HOD/Physics
21.	<b>Prof. O. D. Shakila</b>	HOD/Chemistry
22.	<b>Dr.A.Raviekkumar</b>	HOD/English
23.	<b>Dr.M.R.Thansekhar</b>	Professor / Mechanical Engineering
24.	<b>Dr.S.Suresh Raja</b>	Associate Professor, Artificial Intelligence and Data Science
25.	<b>Dr.T.R.Muthu</b>	Assistant Professor/ Electronics and Communication Engineering

### Minutes of Academic Council Meeting

The meeting started with the welcome address by the Chairman, Academic Council, by welcoming the members and Special invitees of the Academic Council. The chairman reviewed the fourth Academic Council meeting held on 26<sup>th</sup> February 2022. He briefed the Agenda of the fifth Academic Council meeting and the minutes of fifth Standing Committee

meeting held on 5<sup>th</sup> September 2022, based on the inputs from department Board of Studies (BoS) meetings held during July/ August 2022.

**ACM 05.01: Business brought forwarded by the Chairman, Academic Council:**

- i. Ratification of previous Academic Council meeting minutes: Governing Body meeting was conducted on 9/10/21. All the suggestions given by the AC members during the previous Academic Council meeting were unanimously ratified.
- ii. To consider and approve the introduction of verticals (Grouping Professional Electives based on specialization) for the award of Minor degree and Honors based on Anna University 2021 Regulations.
- iii. To consider and approve the amendments of the Regulations R2020 as R2020A

**Resolved to approve the above points (ii) and (iii) for the students admitted from the Academic Year 2021-2022**

- iv. To approve the online courses and value added courses offered during the Academic Year 2022-2023

**Resolved to approve the above for the Academic year 2022-2023**

**ACM 05.02: Business brought forwarded by the Board of Studies:**

**ACM 05.02.01 DSH: Department of Science and Humanities**

To consider and approve the Curriculum and syllabi of Mathematical courses to be offered in III & IV semester of B.E – Computer Science and Engineering (Cyber Security) Programme to be followed from the Academic Year 2023-2024 as passed in the BOS meeting held on 21.07.2022.

**Resolved to approve the above Curriculum and syllabi of Mathematical courses**

**ACM 05.02.02 DME: Department of Mechanical Engineering**

To consider and approve the curriculum and syllabus of VII & VIII semesters B.E Mechanical Engineering Degree Program as passed in the BOS meeting held on 5.8.2022.

**Resolved to approve the above for B.E Mechanical Engineering Degree Program**

**ACM 05.02.03 DEE : Department of Electrical and Electronics Engineering**

To consider and approve the curriculum and syllabus of VII & VIII semesters B.E Electrical and Electronics Engineering Degree Program as passed in the BOS meeting held on 15.7.2022.

**Resolved to approve the above for B.E. Electrical and Electronics Engineering Degree Program**

**ACM 05.02.04 DEC : Department of Electronics and Communication Engineering**

To consider and approve the curriculum and syllabus of VII & VIII semesters B.E Electronics and Communication Engineering Degree Program as passed in the BOS meeting held on 18.7.2022.

**Resolved to approve the above for B.E. Electronics and Communication Engineering Degree Program**

**ACM 05.02.05 DCS: Department of Computer Science and Engineering**

To consider and approve

- i. The curriculum and syllabus of VII & VIII semesters B.E Computer Science and Engineering Degree Program.
- ii. The Curriculum and syllabus of III & IV semesters B.E Computer Science and Engineering - Cyber Security Degree Program

as passed in the BOS meeting held on 4.8.2022.

**Resolved to approve the above for B.E Computer Science and Engineering and B.E Computer Science and Engineering (Cyber Security) Degree Program**

**ACM 05.02.05 DIT: Department of Information Technology**

To consider and approve

- i. The curriculum and syllabus of VII & VIII semesters B.Tech Information Technology Degree Program.
- ii. The Curriculum and syllabus of V & VI semesters B.Tech Artificial Intelligence and Data Science Degree Program.

as passed in the BOS meeting held on 2.8.2022..

**Resolved to approve the above for B.Tech Information Technology and B.Tech Artificial Intelligence and Data Science Degree Programmes**

**ACM 05.02.06 DAE: Department of Automobile Engineering**

To consider and approve the curriculum and syllabus of VII & VIII semesters B.E Automobile Engineering Degree Program as passed in the BOS meeting held on 13.8.2022.

**Resolved to approve the above for B.E Automobile Engineering Degree Program**

**ACM 05.02.07 DEI : Department of Electronics and Instrumentation Engineering**

To consider and approve the curriculum and syllabus of VII & VIII semesters B.E Electronics and Instrumentation Engineering Degree Program as passed in the BOS meeting held on 16.7.2022.

**Resolved to approve the above for B.E Electronics and Instrumentation Engineering Degree Program**

**ACM 05.02.10. DMBA: Department of Management Studies**

To consider and approve the Curriculum and syllabus of Management courses to be offered in VII & VIII semester B.E / B.Tech Degree Programmes to be followed from the Academic Year 2023-2024 as passed in the BOS meeting held on 30.07.2022.

**Resolved to approve the Curriculum and Syllabus of Management courses to be offered in VII & VIII semester B.E / B.Tech Degree Programmes to be followed from the Academic Year 2023-2024.**

**ACM 05.03: Business brought forwarded by Chairman Academic Council**

**To consider and approve the Curriculum of I - VIII semesters and Syllabus of I & II semester of the following new UG Programmes proposed to start during 2023-2024**

**(a). B.E. - Electrical and Computer Engineering.(Under the Department of Electrical and Electronics Engineering)**

**(b). B.E - Robotics and Automation (Under the Department of Mechanical Engineering)**

**(c). B.Tech. - Mechanical Engineering- (with specialization in Artificial Intelligence and Machine learning)**

**Resolved to approve the above from the Academic Year 2023-2024**

**ACM 05.04: Any Other Matter:**

i. In UG regulation R-2020, as per clause 16.1 iv. Students are eligible for the award of degree, if they have successfully completed any one of the personality and character development programmes such as NSS/NSO/YRC. However, due to pandemic situation, this

co-curricular activity is not mandatory for the award of degree for the students admitted in the year 2020-2021.

**Resolved to approve the above for the students admitted in the Academic Year 2020-2021**

ii. Chairman informed the committee members that, framing and updation of curriculum and syllabus of the program B.E. - CSE (Cyber Security) and B.Tech (AIDS) are done by the BoS of B.E. CSE program and BoS of B.Tech Information - Technology respectively. However the routine academic activities are carried out exclusively under Head of the department and team of faculty members pertaining to the Department concerned.

**Resolved to approve the above**

**ACM 05.05: Business brought forwarded by the Controller of Examinations:**

The Chairman requested Dr. P.R. Vijayalakshmi, Controller of Examinations to brief the end semester examination modalities and the results.

CoE presented the results of end semester examinations of First semester B.E./B.Tech, M.E., MBA and MCA Degree programmes (KLNCE Regulations 2020) held during January/February 2022 and VIII semester B.E/B.Tech programmes (Anna University Regulations 2017) held during April/May 2022, and informed that for the conduct of end semester examinations, the guidelines of Anna University were followed. **The results of the above end semester examinations were approved in the fourth result passing board meeting held on 24.03.2022.**

The following are the suggestions given by Nominees and Experts

1. The experts asked about the weightage of marks for theory component and practical component of theory cum practical courses. Chairman clarified that based on the periods allotted for theory component and practical component, the weightage is given.
2. The experts suggested to modify credits for online courses as follows:  
1 credit for 4 weeks, 2 credits for 8 weeks and 3 credits for 12 weeks courses. Chairman accepted and informed that, this is applicable for the students admitted from the academic year 2021-2022 onwards.
3. Experts asked about the implementation of relative grading system. Controller of Examinations clarified about the relative grading system implemented for the

students admitted during the Academic year 2021-2022 as per the guidelines of Anna University.

4. The experts suggested to incorporate corrective measures to improve the pass percentage in the end semester examination pertaining to first semester B.E./B.Tech Degree programmes. Chairman informed that suitable corrective measures will be taken in this regard.
5. Regarding the introduction of new programme B.E. Mechanical Engineering with specialization in Artificial Intelligence and Machine Learning, the experts asked Mechanical Engineering BoS chairman to discuss more about the curriculum and syllabus of the programme with the stake holders and to get the suggestions. After incorporating the suggestions given by the stake holders, the curriculum and syllabus may be presented in the next BoS meeting to finalize the same. BoS Chairman, Mechanical Engineering agreed to take suitable action in this regard.

Dr.S.M.Kannan, Member Secretary, proposed vote of thanks and the meeting came to an end at 1.00 pm.



**Signature of the Chairman**

Cc to ACM members, Director, Academic Courses.  
Cc to CoE, BoS Chairman, Cc to file,

**ANNEXURE-I**  
**KLNCE - Regulations 2020 Amendments**

Existing	Revised
<p><b>4.1 Categorization of Courses</b></p> <p>Every B.E./B.Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:</p> <ol style="list-style-type: none"> <li>Humanities and Social Sciences (HS) courses include Technical English, Engineering Ethics and Human Values, Communication skills, Environmental Science and Engineering.</li> <li>Basic Sciences (BS) courses include Mathematics, Physics, Chemistry, etc.</li> <li>Engineering Sciences (ES) courses include Industrial Practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.</li> <li>Professional Core (PC) courses include the core courses relevant to the chosen specialization/branch.</li> <li>Professional Elective (PE) courses include the elective courses relevant to the chosen specialization / branch.</li> <li>Open Elective (OE) courses include the courses from other branches which a student can choose from the list specified in the curriculum of B.E. / B. Tech. Programmes.</li> <li>Employability Enhancement Courses (EEC) includes Project Work, Internship, Creative and Innovative Project, Seminar, Professional Practices, Industrial/Practical Training.</li> </ol> <p>Mandatory Courses (MC) include Personality and Character development and the courses recommended by the regulatory bodies such as AICTE, UGC, etc</p>	<p><b>4.1 Categorization of Courses</b></p> <p>Every B.E./B.Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:</p> <ol style="list-style-type: none"> <li>Humanities and Social Sciences (HS) courses include Technical English, Engineering Ethics and Human Values, Communication skills, Environmental Science and Engineering.</li> <li>Basic Sciences (BS) courses include Mathematics, Physics, Chemistry, etc.</li> <li>Engineering Sciences (ES) courses include Industrial Practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.</li> <li>Professional Core (PC) courses include the core courses relevant to the chosen specialization/branch.</li> <li>Professional Elective (PE) courses include the elective courses relevant to the chosen specialization / branch. <ul style="list-style-type: none"> <li>Professional Elective Courses are listed in groups called verticals that represent a particular area of specialisation / diversified group.</li> <li>Students are permitted to choose all the Professional Electives from a particular vertical or from different verticals.</li> <li>Further, only one Professional Elective course shall be chosen in a semester horizontally (row-wise).</li> </ul> </li> <li>Open Elective (OE) courses include the courses from other branches which a student can choose from the list specified in the curriculum of B.E. / B. Tech. Programmes.</li> <li>Employability Enhancement Courses (EEC) includes Project Work, Internship, Creative and Innovative Project, Seminar, Professional Practices, Industrial/Practical Training.</li> </ol> <p>Mandatory Courses (MC) include Personality and Character development and the courses recommended by the regulatory bodies such as AICTE, UGC, etc</p>

<p><b>4.2 Personality and Character Development</b> All students shall enroll, on admission, in any one of the personality and character development programmes (NSS/NSO/YRC) and undergo training for about <b>80</b> hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.</p>	<p><b>4.2 Personality and Character Development</b> All students shall enroll, on admission, in any one of the personality and character development programmes NSS/NSO/YRC and undergo training / conduct activities for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid. Alternately, activities of science, literature and arts also help for personality and character development. So, students shall conduct and participate actively in Science club/Literary Forum/Fine Arts activities for 80 hours and participate in at least ONE event.</p>
<p><b>4.8 VALUE ADDED COURSES</b> All the students have to undergo atleast one Value Added Course to earn 1 or 2 credits over and above the total credit requirement prescribed in the curriculum for the award of the degree. One-Credit / Two-Credit courses can be offered by the departments during pre-final year of the programme, with the prior approval from the Chairperson, Academic Council. It is to be noted that the Value added courses offered should not be a course listed in the curriculum of any programme offered in the Institution. The details of the syllabus, time table and faculty should be approved by the Chairperson, Academic Council. Students can take a maximum of two 1-credit courses (15 periods each) or one 2 - credits course (30 periods) during the entire duration of the Programme.</p>	<p><b>4.8 VALUE ADDED COURSES</b> The students have to undergo Value Added Courses to earn 1 or 2 credits over and above the total credit requirement prescribed in the curriculum for the award of the degree. One-Credit / Two-Credit courses can be offered by the departments during pre-final year of the programme, with the prior approval from the Chairperson, Academic Council. It is to be noted that the Value added courses offered should not be a course listed in the curriculum of any programme offered in the Institution. The details of the syllabus, time table and faculty may be sent to the Academic Head and the Controller of Examinations after approval from the Head of the Institution, atleast one month before the course is offered. Students can take a maximum of two 1-credit courses (15 periods each) or one 2 - credits course (30 periods) during the entire duration of the Programme. # Students shall undergo the courses offered by naan muthalvan scheme. Such courses are also considered as value added courses.</p>
<p><b>4.9 ONLINE COURSES</b> 4.9.1 Students may be permitted to undergo online courses (which are provided with certificates) with the approval of Head of the Department. 4.9.2 Students may be permitted to credit any</p>	<p><b>4.9 ONLINE COURSES</b> 4.9.1 Students may be permitted to undergo online courses (which are provided with certificates) with the approval of Head of the Department. 4.9.2 Students may be permitted to credit online</p>

<p>approved online course instead of elective courses subject to a maximum of three credits for each course. The approved list of online courses will be provided by standing committee of Academic Council from time to time. The details of online courses taken by the students should be sent to the COE through HOD within one month from the commencement of the classes.</p> <p>Copies of the online course certificates should be submitted to the Head of the Department.</p>	<p>courses instead of two elective courses subject to a maximum of three credits for each course. The approved list of online courses shall be provided by standing committee of Academic Council from time to time. Head of the Department recommends the list of line courses after ensuring that the student has not studied such course and would not repeat it again as Professional Core/Professional Elective/Open Elective Course. The details of online courses taken by the students should be sent to the COE through HOD within one month from the commencement of the classes.</p> <p>Copies of the online course certificates should be submitted to the Head of the Department.</p>
	<p><b>4.11 B.E. / B. Tech. (Hons) Specialisation in the same discipline, B.E. / B. Tech. (Hons) and B.E. / B. Tech. minor in other specialisation</b></p> <ul style="list-style-type: none"> <li>• B.E./ B. Tech. (Hons) Specialisation in the same discipline or B.E / B.Tech. Honours or B.E./B.Tech. minor in other specialisation degree will be optional for students.</li> </ul> <p><b>4.11.1. B.E./B.Tech. Honours (specialisation in the same discipline):</b></p> <ol style="list-style-type: none"> <li>a. The student should have earned additionally a minimum of 18 credits from a vertical of the same programme.</li> <li>b. Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Academic Council.</li> <li>c. The students will be permitted to register the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.</li> <li>d. If a student decides not to opt for Honours, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the</li> </ol>

calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

#### **4.11.2. B.E / B.Tech. Honours**

a. The students should have earned additional courses (minimum of 18 credits) from more than one vertical of the same programme.

b. The students will be permitted to register the courses from V Semester onwards provided the marks earned by the students until III semester should be of CGPA 7.50 and above and cleared all the courses in the first attempt.

c. If a student decides not to opt for Honours, after completing certain number of additional courses, the additional courses studied shall be considered instead of the Professional Elective courses which are part of the curriculum. If the student has studied more number of such courses than the number of Professional Elective courses required as per the curriculum, the courses with higher grades shall be considered for the calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.

#### **4.11.3 B.E./B.Tech. (minor in other specialisation)**

a. The student should have earned additionally a minimum of 18 credits in any one of the verticals of other B.E/B.Tech programmes or from any one of the following verticals

Vertical I: Fintech and block chain

Vertical II: Entrepreneurship

Vertical III: Public Administration

Vertical IV: Business Data Analytics

Vertical V: Environment And Sustainability

b. The students will be permitted to register the courses from Semester V onwards provided the marks earned by the students until Semester III is CGPA 7.50 and above.

c. If a student decides not to opt for Minor, after completing certain number of courses, the additional courses studied shall be considered instead of Open Elective courses which are part of the curriculum. If the student has studied

	more number of such courses than the number of open electives required as per the curriculum, the courses with higher grades shall be considered for calculation of CGPA. Remaining courses shall be printed in the mark sheet, however, they will not be considered for calculation of CGPA.
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<b>Existing</b>	<b>Revised</b>
<p><b>6.1 COURSE ENROLLMENT AND REGISTRATION :</b></p> <p>The Department is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits (vide clause 6.2)). The student can also register for courses for which the student has failed in the earlier semesters.</p> <p>The registration details of the candidates may be approved by the Chairperson, Academic Council and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations. No Elective course shall be offered by any department unless a minimum 10 students register for the course. However, if the students admitted in the associated Branch and Semester is less than 10, this minimum will not be applicable.</p> <p>The courses that a student registers in a particular semester may include Courses of the current semester.</p> <p>The core (Theory / Theory cum practical / practical /EEC) courses that the student has not cleared in the previous semesters.</p> <p>Elective courses which the student failed (either the same elective or a different elective instead).</p>	<p><b>6.1 COURSE ENROLLMENT AND REGISTRATION :</b></p> <p>The Department is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits (vide clause 6.2)). The student can also register for courses for which the student has failed in the earlier semesters.</p> <p>The registration details of the candidates shall be approved by Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations. The courses that a student registers in a particular semester may include</p> <ol style="list-style-type: none"> <li>i. Courses of the current semester.</li> <li>ii. Courses dropped in the lower semesters</li> <li>iii. Courses advanced to Semester VI and VII from Semester VIII.</li> <li>iv. Courses for the award of Honors/minor engineering</li> <li>v. Courses for online credit transfer (attendance is not mandatory) .</li> <li>vi. Core and Elective courses which the student failed.</li> </ol> <p>The maximum number of credits that can be registered in a semester is 36. However, this does not include the number of Re-appearance (U) and Withdrawal (WD) courses registered by the student for the appearance of Examination.</p>

<p><b>6.2 FLEXIBILITY TO ADD OR DROP COURSES:</b></p> <p>6.2.3 The students satisfying the following conditions shall be permitted to carry out their final semester Project work for six months in industry/research organizations.</p> <p>The student should not have current arrears and shall have CGPA of 7.50 and above. The student shall undergo the eighth semester courses in the sixth and seventh semesters. The Head of Department, in consultation with the faculty handling the said courses shall forward the proposal recommended by the Head of Institution to the Controller of Examinations through the standing committee of the Academic Council for approval at least 2 weeks before the commencement of the sixth/seventh semester of the program.</p>	<p><b>6.2 FLEXIBILITY TO ADD OR DROP COURSES:</b></p> <p>6.2.3 The students satisfying the following conditions shall be permitted to carry out their final semester Project work for six months in industry/research organizations.</p> <p>The student should have CGPA of 7.50 and above upto IV Semester and in all higher semesters. The student shall undergo one of the eighth semester courses in sixth semester if he/she is not having any current arrear at the end of IV semester and should have CGPA of 7.50. The student shall undergo another eighth semester course in VII semester if he/she is not having any arrear at the end of V semester. The student who is not having any current arrear at the end of VI Semester and completed the eighth semester courses earlier shall be permitted to carry out their final semester Project work for six months in industry/research organizations.</p> <p>The Head of Department, in consultation with the faculty handling the said courses shall forward the proposal recommended by the Head of Institution to the Controller of Examinations through the standing committee of the Academic Council for approval at least 2 weeks before the commencement of the sixth/seventh semester of the program.</p> <p><b>Note: Applicable also to the students admitted in the academic year 2020-2021</b></p>
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Existing	Revised
<p><b>11 SYSTEM OF EXAMINATION:</b></p> <p>11.2 Each course, both theory and practical (including project work) shall be evaluated for a maximum of 100 marks.</p> <p>For all theory and practical courses including project work, the continuous internal assessment will carry 30 marks while the End - Semester examination will carry 70 marks.</p>	<p><b>11 SYSTEM OF EXAMINATION:</b></p> <p>11.2 Each course, both theory and practical (including project work) shall be evaluated for a maximum of 100 marks.</p> <p>11.2.1 For all theory courses, the continuous internal assessment will carry 40 marks while the End Semester examination will carry 60 marks.</p> <p>11.2.2 For all theory courses with laboratory component, the continuous internal assessment</p>

	<p>will carry 50 marks while the End Semester examination will carry 50 marks.</p> <p>11.2.3 For all laboratory courses/mini project, the continuous internal assessment will carry 60 marks while the End Semester examination will carry 40 marks.</p> <p>11.2.4 The continuous internal assessment for the project work will carry 40 marks while the End Semester examination will carry 60 marks.</p>
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Existing	Revised																																																
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Table 12.2. Assessment of Theory Course

Assessment I (100 marks)		Assessment II (100 marks)		Assessment III (100 marks)	
Assignment/ Case study/ Seminar/ Mini-Project	Written test	Assignment/ Case study/ Seminar/ Mini-Project	Written test	Assignment/ Case study/ Seminar/ Mini-Project	Written test
40	60	40	60	40	60

Existing	Revised
<p><b>12.2 Laboratory Courses</b></p> <p>The maximum marks for Internal Assessment shall be 30 in case of laboratory courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records maintained. There shall be at least two tests namely midterm test and model exam. The criteria for arriving at the Internal Assessment marks of 30 are as follows: 70 marks shall be awarded for successful completion of prescribed experiments done in the laboratory and 30 marks shall be awarded for midterm test and for model exam. The total marks shall be arrived to 30 and rounded to the nearest integer.</p>	<p><b>12.2 Laboratory Courses</b></p> <p>The maximum marks for Internal Assessment shall be 60 in case of laboratory courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records maintained. There shall be at least two tests namely midterm test and model exam. The criteria for arriving at the Internal Assessment marks of 60 are as follows: 75 marks shall be awarded for successful completion of prescribed experiments done in the laboratory and 25 marks shall be awarded for midterm test and for model exam. The total marks shall be arrived to 60 and rounded to the nearest integer. Continuous Internal Assessment of laboratory courses is given in Table 12.3.</p>

Table 12.3 Assessment of laboratory Course

S.No	Category	Marks allotted
i.	Evaluation of Laboratory observation, Record	75 Marks
ii.	Test (Mid- term + Model exam)	25 Marks

Existing	Revised
<p><b>12.3 Theory Courses With Laboratory Component</b></p> <p>There shall be three tests. The first two tests (each 100 marks) will be from theory portions and the third test (maximum mark 100) will be for laboratory component. The sum of marks of first two tests shall be arrived to 60 marks and the third test mark shall be arrived to 40 marks. The sum of 100 marks may then be arrived at for 30 rounded to the nearest integer.</p>	<p><b>12.3 Theory Courses With Laboratory Component</b></p> <p>Weightage of internal assessment and end semester examination marks will be 50% each. The distribution of marks for the theory and laboratory components in the internal assessments and end semester examination for different types of courses are provided in the Table 12.4.a. Procedure for awarding the internal marks is shown in Table 12.4.b</p>

**Table 12.4 a. Theory Courses With Laboratory Component (Weightage of marks)**

L	T	P	C	Internal Assessment		End Semester Examination
1	0	4	3	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
1	0	2	2	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
2	0	2	3	Theory (25%)	Laboratory (25%)	Theory (25%) Laboratory (25%)
2	1	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory (15%)
3	0	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory (15%)
2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Laboratory (35%)

**Table 12.4.b. Assessment of Theory Courses with laboratory Component**

Theory component				Laboratory component	
Assessment –I		Assessment –II		Assessment –III	
Individual Assignment / case study/ seminar / mini project	Written test	Individual Assignment / case study/ seminar / mini project	Written test	Evaluation of Laboratory observation, Record	Practical test
<b>40</b>	<b>60</b>	<b>40</b>	<b>60</b>	<b>75</b>	<b>25</b>

Existing	Revised
<p><b>12.4 Project Work</b></p> <p>Project work may be assigned to a single student or to a group of students not exceeding 4 per group.</p> <p>For project work out of 100 marks, the maximum marks for continuous assessment is fixed as 30 and End Semester Examination carries 70 marks</p> <p>The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of three members in the review committee.</p> <p>The project supervisor will be one of the members of the Review Committee.</p> <p>There shall be three assessments during the semester by a review committee. The student shall make presentation on the progress made before the committee. The total marks obtained in the three Reviews shall be arrived to 30 marks.</p> <p>The project report shall carry a maximum 20 marks. The project report shall be submitted as per the approved guidelines as given by Academic Council. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 50 marks. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.</p>	<p><b>12.4.1 Project Work</b></p> <p>Project work may be assigned to a single student or to a group of students not exceeding 4 per group.</p> <p>Project work shall be carried out under the supervision of a “qualified teacher” (possessing PG Degree or Ph.D Degree) in the department concerned.</p> <p>The maximum marks for Continuous Assessment is fixed as 40 and the End Semester Examination (project report evaluation and viva-voce examination) carries 60 marks for project work.</p> <p>The Head of the Department shall constitute a review committee for each programme. There shall be a minimum of three members in the review committee.</p> <p>The project supervisor will be one of the members of the Review Committee.</p> <p>There shall be three assessments during the semester by a review committee. The student shall make presentation on the progress made before the committee. The total marks obtained in the three Reviews shall be arrived to 40 marks.</p> <p>The project report shall carry a maximum 20 marks. The project report shall be submitted as per the approved guidelines as given by Academic Council. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 40 for project work .Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.</p> <p>The continuous assessment and End Semester Examinations marks for Project Work and the Viva-Voce Examination will be distributed as indicated in Table 12.5.a.</p>
<p><b>Mini Project</b></p>	<p><b>12.4.2 Mini Project</b></p> <p>The maximum marks for Continuous Assessment is fixed as 60 and the End Semester Examination (project report evaluation and viva-voce examination) carries 40 marks for mini project work.</p> <p>The Head of the Department shall constitute a review committee for each programme. There shall be a</p>

	<p>minimum of three members in the review committee.</p> <p>The mini project supervisor will be one of the members of the Review Committee.</p> <p>There shall be three assessments during the semester by a review committee. The student shall make presentation on the progress made before the committee. The total marks obtained in the three Reviews shall be arrived to 60 marks</p> <p>The project report shall carry a maximum 20 marks. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 20 for mini project. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.</p> <p>The continuous assessment and End Semester Examinations marks for Mini Project and the Viva-Voce Examination will be distributed as indicated in Table 12.5. b.</p>
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**Table 12.5.a. Assessment of Project Work**

Continuous Assessment 40 Marks			End Semester Examination 60 Marks				
Review 1 (5 Marks)	Review 2 (15 Marks)	Review 3 (20 Marks)	Report Evaluation (20 Marks)		Viva-Voce (40 Marks)		
Review Committee and Guide			External Examiner	Internal Examiner	External Examiner	Internal Examiner	Supervisor
40			10	10	20	10	10

**Table 12.5.b. Assessment of Mini Project**

Continuous Assessment (60 Marks)			End Semester Examination (40 Marks)			
Review 1 (20 Marks)	Review 2 (20 Marks)	Review 3 (20 Marks)	Report Evaluation (20 Marks)		Viva-Voce (20 Marks)	
Review Committee and Guide			External Examiner	Internal Examiner	External Examiner	Internal Examiner
60			10	10	10	10

Existing	Revised
<p><b>12.5 Other Employability Enhancement Courses:</b></p> <p>Other Employability Enhancement Courses are evaluated through Internal Assessment only</p>	<p><b>12.5 Other Employability Enhancement Courses (OEEC):</b></p> <p>Other Employability Enhancement Courses except Professional Communication Laboratory and Mini Project are evaluated through Internal Assessment only.</p> <p>For any student, if the grade U is given to OEEC Course which is evaluated only through internal assessment, the student shall register for the course again in the subsequent semester, fulfill the norms to earn pass in the course. However, attendance requirement need not be satisfied.</p>
<p><b>12.7 Assessment for Online Courses</b></p> <p>Students may be permitted to credit one online course (which is provided with certificate) subject to a maximum of three credits. The approved list of online courses will be provided by the Chairperson, Academic Council from time to time. This online course of 3 credits (minimum 8 weeks of course duration) can be considered instead of one elective course. Credit transfer is applicable for one elective course only for the entire course of study.</p>	<p><b>12.7 Assessment for Online Courses</b></p> <p>Students may be permitted to credit <b>two or three online courses (which are provided with certificate)</b>, subject to a maximum of six credits. The online course(s) of 3 or 4 credits (12 weeks or 8weeks+4weeks or 8weeks+8weeks) can be considered instead of one elective course. Credit transfer is applicable for maximum of two elective courses for the entire course of study. These online courses shall be chosen from the SWAYAM platform, provided the offering organisation conducts regular examination and provides marks. After successful completion of the online course conducted by organization (SWAYAM), the student has to register the online course in the Institution along with other courses. The course shall be evaluated through continuous assessment (40 Marks) conducted by NPTEL mentor and End Semester Examination conducted by CoE (60 Marks). Grades earned through end semester exam and continuous assessment shall be considered for credit transfer of elective course.</p>

**14.1 Passing Requirements**

A candidate who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End semester Examinations] with a minimum of 50% of the marks prescribed for the end-semester Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory, theory cum practical and practical courses (including project work).

**14.1 Passing Requirements**

A candidate who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End semester Examinations] **with a minimum of 45% of the marks prescribed for the end-semester Examination**, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for theory, theory with Laboratory component, laboratory with theory component and laboratory courses (including project work).

The performance of a student will be reported using letter grades, each carrying certain points as detailed in the table 15.1.

**Table 15.1 Award of Letter Grades**

	<b>Letter Grade</b>	<b>Grade Points</b>	<b>Marks range</b>
R 2020 (students admitted in the academic year 2020-2021)	O (Outstanding)	<b>10</b>	91- 100
	A+(Excellent)	<b>9</b>	81-90
	A (Very Good)	<b>8</b>	71-80
	B+ (Good)	<b>7</b>	61-70
	B (Average)	<b>6</b>	50-60
	RA (Reappearance)	<b>0</b>	<50
	W (Withdrawal)	<b>0</b>	
	SA (Shortage of Attendance)	<b>0</b>	

	<b>Letter Grade</b>	<b>Grade Points</b>	<b>Marks range</b>
R 2020 (students admitted from the academic year 2021-2022 onwards)	O (Outstanding)	<b>10</b>	91- 100
	A+(Excellent)	<b>9</b>	81-90
	A (Very Good)	<b>8</b>	71-80
	B+ (Good)	<b>7</b>	61-70
	B (Average)	<b>6</b>	56-60
	C (Satisfactory)	<b>5</b>	50-55
	U (Reappearance)	<b>0</b>	<50
	WD (Withdrawal)	<b>-</b>	
	SA (Shortage of Attendance)	<b>-</b>	

Note:

Fixed grading is applicable for all laboratory courses and for the theory courses in which students enrollment is less than or equal to 30. Relative Grading is applicable for all theory courses in which student enrollment is greater than 30.

Existing	Revised
<p><b>16. Eligibility for the Award of Degree</b></p> <p><b>16.1 iv.</b> Successfully completed the NSS / NSO / YRC requirements.</p> <p><b>16.2 Classification of the Degree Awarded</b></p>	<p><b>16. Eligibility for the Award of Degree</b></p> <p><b>16.1 iv.</b> Successfully completed the NSS / NSO / YRC / Science Club / Literature Club / Fine Arts Club requirements.</p> <p><b>16.2 Classification of the Degree Awarded</b> Refer the tables 16.2.1 and 16.2.2 for First Class with Distinction and First Class respectively</p> <p><b>16.2.3 SECOND CLASS:</b></p> <p>B.E./B.Tech. Regular and lateral entry and B.E./B.Tech. minor in other specialisation degree students not covered in clauses 16.2.1 and 16.2.2 who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in Second Class.</p> <p><b>16.2.5</b> Student earned additional 18 credits as per Clause 4.10.1 and 4.10.2 but does not satisfy the conditions mentioned in 16.2.1 or 16.2.2 shall not be awarded B.E./B.Tech. Honours. In such cases the mark sheet will show the additional courses studied and those courses shall not be considered for CGPA computation. In such case if the student becomes eligible for First Class, while computing CGPA without taking into account the additional course studied, the student shall be awarded B.E. / B.Tech. in First Class only.</p>

**Table 16.2.1. First Class With Distinction**

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CGPA (v)	Pass in (vi)	Break of study (vii)	Prevention due to lack of attendance	Withdrawal from writing end semester examination (viii)
B.E./B.Tech. (Regular)	4	5	-	8.50	First attempt	One year authorized break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. Lateral Entry	3	4	-	8.50	First attempt	One year authorized break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. (Honours) Specialization in the same discipline	3/4 years (Lateral entry and Regular respectively)	4/5 years (Lateral entry and Regular respectively)	18 credits from any one vertical of the same programme	8.50	First attempt	One year authorized break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. (Honours)	3/4 years (Lateral entry and Regular respectively)	4/5 years (Lateral entry and Regular respectively)	18 credits from more than one verticals of the same programme	8.50	First attempt	One year authorized break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. minor in other specialization	3/4 years (Lateral entry and Regular respectively)	4/5 years (Lateral entry and Regular respectively)	18 credits from any one vertical of the other programme	8.50	First attempt	One year authorized break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt

Table 16.2.2. First Class

Degree (i)	Duration of programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CGPA (v)	Pass in (vi)	Break of study (vii)	Prevention due to lack of attendance	Withdrawal from writing end semester examination (viii)
B.E./B.Tech. (Regular)	4	5	-	6.50	-	One year authorised break of study included in the Duration permitted (iii)	included in the Duration permitted (iii)	-
B.E./B.Tech. Lateral Entry	3	4	-	6.50	-	One year authorised break of study included in the Duration permitted (iii)	included in the Duration permitted (iii)	-
B.E./B.Tech. (Honours) Specialization in the same discipline	3/4 years (Lateral entry and Regular respectively)	4/5 years (Lateral entry and Regular respectively)	18 credits from any one vertical of the same programme	<b>7.50</b>	<b>First attempt</b>	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. (Honours)	3/4 years (Lateral entry and Regular respectively)	4/5 years (Lateral entry and Regular respectively)	18 credits from more than one verticals of the same programme	<b>7.50</b>	<b>First attempt</b>	One year authorised break of study included in the Duration permitted (iii)	Not permitted	Will not be considered as an attempt
B.E./B.Tech. minor in other specialization	3/4 years (Lateral entry and Regular respectively)	4/5 years (Lateral entry and Regular respectively)	18 credits from any one vertical of the other programme	<b>6.50</b>	-	One year authorised break of study included in the Duration permitted (iii)	included in the Duration permitted (iii)	Will not be considered as an attempt

**K.L.N. COLLEGE OF ENGINEERING****Pottapalayam-630612, Sivagangai District****(An Autonomous Institution, Affiliated to Anna University, Chennai)****PG – REGULATIONS 2020 AMENDMENTS**

Amendments to the Regulations 2020 (CBCS) for PG programmes (students admitted from the academic year 2021-2022 onwards) offered in K.L.N. College of Engineering, Affiliated to Anna University, Chennai, approved in fifth Academic Council Meeting held on 24.09.2022.

<b>Existing</b>	<b>Revised</b>
<p><b>3.6 Value Added Courses:</b></p> <p>The Students have to undergo a minimum of one Value Added Course and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One / Two credit courses shall be offered by the department with the prior approval from the Head of the Institution. The details of the syllabus, time table and faculty may be sent to the Academic Council and the Controller of Examinations after approval from the Head of the Institution concerned atleast one month before the course is offered. Students can take a maximum of two 1 credit courses / one 2 credit course during the entire duration of the Programme.</p>	<p><b>3.6 Value Added Courses:</b></p> <p>The Students may optionally undergo Value Added Course and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One / Two credit courses may be offered by the department with the prior approval from the Chairman, Academic Council.</p> <p>It is to be noted that the Value added courses offered should not be a course listed in the curriculum of any programme offered in the Institution. The details of the syllabus, time table and faculty may be sent to the Academic Head and the Controller of Examinations after approval from the Head of the Institution, atleast one month before the course is offered. Students can take a maximum of two 1 credit courses / one 2 credit course during the entire duration of the Programme.</p>

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<p><b>11.3 Assessment for Online Courses</b></p> <p>Students may be permitted to credit one online course (which is provided with certificate) subject to a maximum of three credits. The approved list of online courses will be provided by the Academic Council from time to time. This online course of 3 credits (minimum 8 weeks of course duration) can be considered instead of one elective course</p>	<p><b>11.3 Assessment for Online Courses</b></p> <p>Students may be permitted to credit <b>two or three online courses (which are provided with certificate)</b>, subject to a maximum of six credits. The online course(s) of 3 or 4 credits (12 weeks or 8weeks+4weeks or 8weeks+8weeks) can be considered instead of one elective course. Credit transfer is applicable for maximum of two elective courses for the entire course of study. These online courses shall be chosen from the SWAYAM platform, provided the offering organisation conducts regular examination and provides marks. After successful completion of the online course conducted by organization (SWAYAM), the student has to register the online course in the Institution along with other courses. The course shall be evaluated through continuous assessment (40 Marks) conducted by NPTEL mentor and End Semester Examination conducted by CoE (60 Marks). Grades earned through end semester exam and continuous assessment shall be considered for credit transfer of elective course.</p>

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Assessment I (100 marks)		Assessment II (100 marks)		Assessment III (100 marks)	
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40	60	40	60	40	60

<b>Existing</b>	<b>Revised</b>
<p><b>11.1 ii) Laboratory Courses</b></p> <p>The maximum marks for Internal Assessment shall be 30 in case of laboratory courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records maintained. There shall be at least two tests namely midterm test and model exam. The criteria for arriving at the Internal Assessment marks of 30 are as follows: 70 marks shall be awarded for successful completion of prescribed experiments done in the laboratory and 30 marks shall be awarded for midterm test and for model exam. The total marks shall be arrived to 30 and rounded to the nearest integer.</p>	<p><b>11.1 ii) Laboratory Courses</b></p> <p>The maximum marks for Internal Assessment shall be 60 in case of laboratory courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records maintained. There shall be at least two tests namely midterm test and model exam. The criteria for arriving at the Internal Assessment marks of 60 are as follows: 75 marks shall be awarded for successful completion of prescribed experiments done in the laboratory and 25 marks shall be awarded for midterm test and for model exam. The total marks shall be arrived to 60 and rounded to the nearest integer. Continuous Internal Assessment of laboratory courses is given in Table 11.1.ii)</p>

Table 11.1.ii) Assessment of laboratory Course

<b>S.No</b>	<b>Category</b>	<b>Marks allotted</b>
i.	Evaluation of Laboratory observation, Record	75 Marks
ii.	Test (Mid- term + Model exam)	25 Marks

<b>Existing</b>	<b>Revised</b>
<p><b>11.1.iii) Theory Courses With Laboratory Component</b></p> <p>There shall be three tests. The first two tests (each 100 marks) will be from theory portions and the third test (maximum mark 100) will be for laboratory component. The sum of marks of first two tests shall be arrived to 60 marks and the third test mark shall be arrived to 40 marks. The sum of 100 marks may then be arrived at for 30 rounded to the nearest integer.</p>	<p><b>11.1.iii) Theory Courses With Laboratory Component/ Laboratory Component with Theory courses</b></p> <p>Weightage of internal assessment and end semester examination marks will be 50% each.</p> <p>The distribution of marks for the theory and laboratory components in the internal assessments and end semester examination for different types of courses are provided in the Table 11.1.iii..a. Procedure for awarding the internal marks is shown in Table 11.1.iii..b.</p>

**Table 11.1. iii. a. Theory Courses With Laboratory Component (Weightage of marks)**

L	T	P	C	Internal Assessment		End Semester Examination
1	0	4	3	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
1	0	2	2	Laboratory (25%)	Theory (25%)	Laboratory only (50%)
2	0	2	3	Theory (25%)	Laboratory (25%)	Theory (25%) Laboratory (25%)
2	1	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory (15%)
3	0	2	4	Theory (25%)	Laboratory (25%)	Theory (35%) Laboratory (15%)
2	0	4	4	Theory (25%)	Laboratory (25%)	Theory (15%) Laboratory (35%)

**Table 11.1.iii. b. Assessment of Theory Courses with laboratory Component**

Theory component				Laboratory component	
Assessment –I		Assessment –II		Assessment –III	
Individual Assignment / case study/ seminar / mini project	Written test	Individual Assignment / case study/ seminar / mini project	Written test	Evaluation of Laboratory observation, Record	Practical test
<b>40</b>	<b>60</b>	<b>40</b>	<b>60</b>	<b>75</b>	<b>25</b>

Existing	Revised
<p><b>13. END SEMESTER EXAMINATIONS</b> 13.2 Weightage</p> <p>The following will be the weightage for different courses.</p> <p>i) Theory and Theory cum Lab component based courses</p> <p>Internal Assessment(30) - 30%</p> <p>End Semester Examinations (70) - 70%</p> <p>ii) Laboratory courses</p> <p>Internal Assessment (30) - 30%</p> <p>End Semester Examinations (70) - 70%</p> <p>iii) Project work</p> <p>Internal Assessment (30) - 30%</p> <p>Evaluation of Project Report by external examiner 20 - 20%</p> <p>Viva-Voce Examination 50 - 50%</p> <p>iv) Practical training / summer project / seminar</p> <p>Internal Assessment - 100%</p>	<p><b>13. END SEMESTER EXAMINATIONS</b> 13.2 Weightage</p> <p>The following will be the weightage for different courses.</p> <p>i. A. Theory Courses</p> <p>Internal Assessment(40) - 40%</p> <p>End Semester Examinations (60) - 60%</p> <p>B. Theory courses with Laboratory component</p> <p>Internal Assessment(50) - 50%</p> <p>End Semester Examinations (50) - 50%</p> <p>ii) Laboratory courses</p> <p>Internal Assessment (60) - 60%</p> <p>End Semester Examinations (40) - 40%</p> <p>iii) Project work as per table 13.2</p> <p>Internal Assessment (40) - 40%</p> <p>Evaluation of Project Report by external examiner (20 ) - 20%</p> <p>Viva-Voce Examination (40 ) - 40%</p> <p>iv) Practical training / summer project / seminar</p> <p>Internal Assessment - 100%</p>

Table 13.2: Assessment of Project Work

Continuous Assessment (40 Marks)			End Semester Examination (60 Marks)				
Review 1 (5 Marks)	Review 2 (15Marks)	Review 3 (20Marks)	Report Evaluation (20 Marks)	Viva-Voce (40 Marks)			
Review Committee and Guide			External Examiner	Internal Examiner	External Examiner	Internal Examiner	Supervisor
40			10	10	20	10	10

Existing	Revised
<p><b>14. PASSING REQUIREMENTS</b></p> <p>14.1 A candidate who secures not less than 50% of total marks prescribed for the course with a minimum of 50% of the marks prescribed for each of the course of the End Semester Examinations in both theory and practical courses shall be declared to have passed in the course and acquired the relevant number of credits.</p>	<p><b>14. PASSING REQUIREMENTS</b></p> <p>14.1 A candidate who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End semester Examinations] <b>with a minimum of 45% of the marks prescribed for the end-semester Examination</b>, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory, Theory courses with Laboratory component/ Laboratory courses with Theory component and Laboratory courses (including project work).</p>

The performance of a student will be reported using letter grades, each carrying certain points as detailed in the table 15.1.

Table 15.1 Award of Letter Grades

	Letter Grade	Grade Points	Marks range
R 2020  (students admitted in the academic year 2020-2021)	O (Outstanding)	10	91- 100
	A+(Excellent)	9	81-90
	A (Very Good)	8	71-80
	B+ (Good)	7	61-70
	B (Average)	6	50-60
	RA (Reappearance)	0	<50
	W (Withdrawal)	0	
	SA (Shortage of Attendance)	0	

	Letter Grade	Grade Points	Marks range
R 2020  (students admitted from the academic year 2021-2022 onwards)	O (Outstanding)	10	91- 100
	A+(Excellent)	9	81-90
	A (Very Good)	8	71-80
	B+ (Good)	7	61-70
	B (Average)	6	56-60
	C (Satisfactory)	5	50-55
	U (Reappearance)	0	<50
	WD (Withdrawal)	-	

**Note:**

Fixed grading is applicable for all laboratory courses and for the theory courses in which students enrollment is less than or equal to 30. Relative Grading is applicable for all theory courses in which student enrollment is greater than 30.

Existing	Revised
<p><b>17.2 Classification of the Degree Awarded</b></p> <p><b>17.2 First Class</b></p> <p>A student who satisfies the following conditions shall be declared to have passed the examination in First class:</p> <p><b>M.E.(Full Time), M.B.A. (Full Time) and M.C.A. (Full Time)</b></p> <ul style="list-style-type: none"> <li>• Should have passed the examinations in all the courses of all four semesters within Three years, which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable).</li> <li>• In case of one year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable), should have passed all the examination in all the courses of all eight semesters within four years (three years in the case of lateral entry).</li> <li>• Should have secured a CGPA of not less than 7.00.</li> </ul> <p><b>M.E. Part time (Day Time)</b></p> <ul style="list-style-type: none"> <li>• Should have passed the examinations in all the courses of all six semesters within four years, which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable).</li> <li>• <b>Should have secured a CGPA of not less than 7.00.</b></li> </ul>	<p><b>17.2 Classification of the Degree Awarded</b></p> <p><b>17.2 First Class</b></p> <p>A student who satisfies the following conditions shall be declared to have passed the examination in First class:</p> <p><b>M.E.(Full Time), M.B.A. (Full Time) and M.C.A. (Full Time)</b></p> <ul style="list-style-type: none"> <li>• Should have passed the examinations in all the courses of all four semesters within Three years, which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable).</li> <li>• <b>Should have secured a CGPA of not less than 6.5.</b></li> </ul> <p><b>M.E. Part time (Day Time)</b></p> <ul style="list-style-type: none"> <li>• Should have passed the examinations in all the courses of all six semesters within four years, which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable).</li> <li>• <b>Should have secured a CGPA of not less than 6.5.</b></li> </ul>

# **ANNEXURE-II**

## **List of Online Courses**

**K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM****An Autonomous Institution Affiliated to Anna University, Chennai**

List of Online Courses recommended for the AY 2022-23 (ODD)

**B.E. - Mechanical Engineering**

Sl.No	Course Title	Course Duration
1	Metal Additive Manufacturing	12 Weeks
2	Automation in Manufacturing	12 Weeks
3	Dynamic Behaviour of Materials	12 Weeks
4	Advances in welding and joining technologies	8 weeks
5	Laser Based Manufacturing	8 Weeks
6	Principles of Metal Forming Technology	8 Weeks
7	Fluidization Engineering	12 Weeks
8	Natural Gas Engineering	8 weeks
9	Thermal Processing of Foods	12 Weeks
10	Heat Exchangers: Fundamentals and Design Analysis	12 Weeks
11	BioMEMS and Microfluidics	8 Weeks
12	Dynamics and Control of Mechanical Systems	12 Weeks
13	Foundation of Computational Fluid Dynamics	8 Weeks
14	Foundations of Cognitive Robotics	4 weeks
15	Introduction To Composites	12 Weeks
16	Mechanics and Control of Robotic Manipulators	8 Weeks
17	Mechanism and Robot Kinematics	8 Weeks

**B.E. - Electrical and Electronics Engineering**

Sl.No	Course title	Course Duration
1	Programming in Modern C++	12 Weeks
2	Cloud computing	12 Weeks
3	Artificial Intelligence: Search methods for problem solving	12 Weeks
4	Introduction to Machine Learning	12 weeks
5	Introduction To Internet Of Things	12 weeks
6	C-Based VLSI Design	12 weeks
7	Deep Learning for Computer Vision	12 weeks
8	Data Structure and Algorithms Using Java	12 weeks
9	Computer Vision	12 Weeks
10	Introduction to Fuzzy set theory, Arithmetic and logic	12 Weeks
11	Fundamentals of Nano and Quantum Photonics	12 Weeks
12	Deep Learning	12 weeks

13	The Joy of Computing using Python	12 weeks
14	Design of photovoltaic systems	12 weeks
15	VLSI Interconnects	8 weeks
16	Big Data Computing	8 weeks
17	Data science for engineers	8 weeks
18	Data Base Management System	8 weeks
19	Introduction to Smart Grid	8 weeks
20	DC Micro grid and control systems	8 weeks

### **B.E. - Electronics & Communication Engineering**

Sl.No	Course title	Course Duration
1	Software Testing	12 Weeks
2	Artificial Intelligence :Search Methods For Problem solving	12 Weeks
3	Programming, Data Structures And Algorithms using Python	8 Weeks
4	Data Science for Engineers	8 Weeks
5	Introduction to Machine Learning	12 Weeks
6	Reinforcement Learning	12 Weeks
7	Deep Learning for Computer Vision	12 Weeks
8	Introduction to Operating Systems	8 Weeks
9	Getting Started with Competitive Programming	12 Weeks
10	Computer Vision	12 Weeks
11	Data Base Management System	8 Weeks
12	Data Structure And Algorithms Using Java	12 Weeks
13	Embedded System Design With ARM	8 Weeks
14	Hardware Modeling Using Verilog	8 Weeks
15	Introduction To Internet Of Things	12 Weeks
16	Introduction To Machine Learning - KGP	8 Weeks
17	Natural Language Processing	12 Weeks
18.	Object Oriented Analysis And Design	8 Weeks
19	Operating System Fundamentals	12 Weeks
20	Problem Solving Through Programming In C	12 Weeks

21	Programming In Java	12 Weeks
22	Programming In Modern C++	12 Weeks
23	C-Based VLSI Design	12 Weeks
24	Machine Learning for Earth System Sciences	8 Weeks
25	The Joy of Computing using Python	12 Weeks
26	Deep Learning - IIT Ropar	12 Weeks
27	Design & Implementation of Human-Computer Interfaces	12 Weeks
28	Real-Time Digital Signal Processing	12 Weeks
29	Modern Digital Communication Techniques	12 Weeks
30	System Design Through VERILOG	8 Weeks
31	Signal Processing for mm Wave communication for 5G and beyond	12 Weeks
32	Soft skills	12 Weeks
33	Developing Soft Skills and Personality	8 Weeks
34	Soft Skills For Business Negotiations And Marketing Strategies	12 Weeks
35	Plastic Waste Management	8 Weeks

### **B.E. - Computer Science and Engineering**

<b>Sl.No</b>	<b>Course title</b>	<b>Course Duration</b>
1	Big Data Computing	8 Weeks
2	Computer Vision	12 Weeks
3	Software Testing	12 Weeks
4	Reinforcement Learning	12 Weeks
5	Social Network Analysis	12 Weeks
6	Real Time Systems	12 Weeks
7	Social Networks	12 Weeks

**B.Tech. – Information Technology**

<b>Sl.No</b>	<b>Course title</b>	<b>Course Duration</b>
1	Artificial Intelligence : Search Methods For Problem solving	12 weeks
2	Introduction To Industry 4.0 And Industrial Internet Of Things	12 weeks
3	Data Science for Engineers	8 Weeks
4	Advanced Distributed systems	12 Weeks
5	Scalable Data Science	8 Weeks
6	Multi-Core Computer Architecture - Storage and Interconnects	8 weeks
7	Social Networks	12 Weeks
8	Applied Accelerated Artificial Intelligence	12 Weeks
9	Computer Vision	12 Weeks
10	Spatial Informatics	8 Weeks

**MBA**

<b>Sl.No</b>	<b>Course title</b>	<b>Course Duration</b>
1	Operation and supply chain management	12 weeks
2	Human Resource Development	12 weeks
3	Soft skills for business negotiation and marketing strategies	12 weeks
4	Entrepreneurship	12 weeks
5	Corporate Finance	12 weeks
6	Marketing Management	8 weeks
7	Principle of Human resource Management	8 weeks


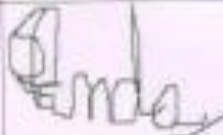
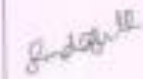
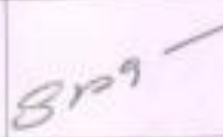
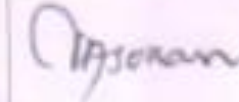
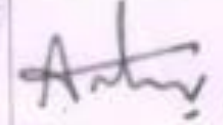
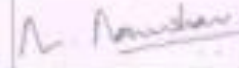
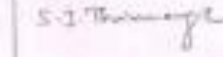
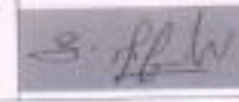
**ANNEXURE-III**  
**List of Value added Courses**

## List of Value added Courses

- Advanced Air Mobility Systems
- Cyber Security
- AWS Cloud Practitioner
- Extended Reality
- Computer Vision
- Bio-Informatics
- Intelligent Process Automation
- Placement Linked Skill Development
- Design Thinking and Innovation
- Embedded Systems and Controller Applications
- Cloud Computing using Amazon Web services
- Design of Internet of Things
- Python for Machine Learning
- Sales Force Trailhead academy - ADX201 - Administrative essentials for new admins in Lightning Experience Php and MySql
- Inbound Marketing
- Tally ERP
- Human Values and Business Ethics
- Motor Sports Engineering
- New Product Development

**K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM-636612**  
 Pottapalayam, Sivagangai District  
 (An Autonomous Institution, Affiliated to Anna University, Chennai)  
 Ref: KLNCE/Autonomous/Academic Council (2022) 24.02.2022  
 Minutes of the Fifth Academic Council meeting held on 24th September 2022 through hybrid mode  
 Google Meeting ID: <https://meet.google.com/ldr-ppfo-vyy>

Date : 24.09.2022, Time: 11:00am

S.NO	Name of the member	Role	Mail	Signature
1	Dr.A.V.Rasappan, Principal, KLNCE	Chairperson	avrasappan@gmail.com	
2	Dr.Ramesh Chandras Prabhu Sr.Principal Scientist, Honorary faculty, Anna University, Chemical Engineering, CSIR-Central Leather research laboratory, Chennai - 600 020.	Anna University Nominee	rcprabhu@gmail.com	
3	Dr.K.Sundareswaran Senior Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Anna University Nominee	rcbkw@gmail.com	
4	Dr.Sidhaj P Sivas Professor, Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Anna University Nominee	sidhajpms@gmail.com	
5	Dr.P.Anilan Professor HAG, Department of Production Engineering, National Institute of Technology, Tiruchirappalli - 620 015.	Academician	anilank44@gmail.com	
6	Dr.A.Arshay Franklin Associate Professor, Department of Computer Science and Engineering, Indian Institute of Technology, Hyderabad - 502 285.	Academician	arshayfranklin@csce.iitahyderabad.ac.in	
7	Dr.M.Manohar Deputy General Manager, Booster Hardware Fabrication Facilities (Materials & Mechanical Entity) Vikram Sarabhai Space Centre, Department of Space, Government of India, ISRO, Trivandrum - 695 022	Research Organization	manohar@gmail.com	
8	Dr.S.J.Thiruvengadam, Professor and Dean(Academics), Thiagarajar College of Engineering, Madurai-625 015.	Academician	stt@tce.edu	
9	Mr. S.M. Manikandan Chief Operating Officer, M/s. Aparajitha Software Services Pvt. Ltd., Madurai.	Industrialist	manikandan@aparajitha.co.in smanikand1971@gmail.com	

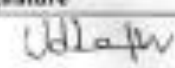
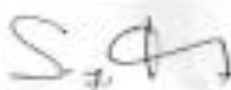

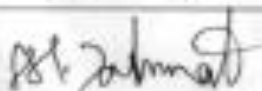

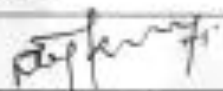
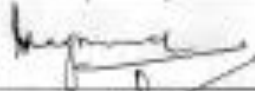
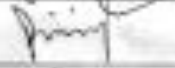
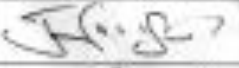
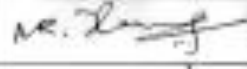
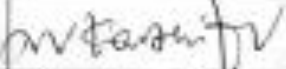
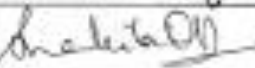
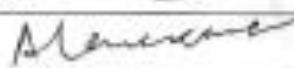
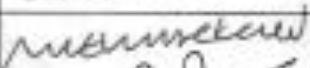
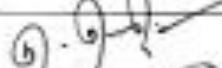
**K.L.N. COLLEGE OF ENGINEERING, POTTAPALAYAM- 630612**  
**Pottapalayam, Sivagangai District**  
**(An Autonomous Institution, Affiliated to Anna University, Chennai)**

Ref: KLNCE/Autonomous/Academic Council /2022 26.02.2022

Minutes of the Fifth Academic Council meeting held on 24th September 2022 through hybrid mode

Google Meeting ID: <https://meet.google.com/bhs-ppho-vyy>

Date :24.09.2022, Time:11:00am

MEMBERS PRESENT			
S. No.	Name of the member	Category	Signature
10.	<b>Dr.P.Udhaya Kumar</b>	Chairman BoS/ Department of Mechanical Engineering	
11.	<b>Dr.S.M.Kannan</b>	Member Secretary & Chairman BoS / Department of Electrical and Electronics Engineering	
12.	<b>Dr.V.Kejalakshmi</b>	Chairman BoS / Department of Electronics and Communication Engineering	
13.	<b>Dr.S.Miruna Joe Amali</b>	Chairman BoS / Department of Computer Science and Engineering	
14.	<b>Dr.P.Ganesh Kumar</b>	Chairman BoS/ Department of Information Technology & Artificial Intelligence and Data Science	
15.	<b>N.Rajkumar</b>	Associate Professor, Department of Automobile Engineering	
16.	<b>Dr.S.Nagammai</b>	Chairman BoS/ Department of Electronics and Instrumentation Engineering	
17.	<b>Dr.P.R.Vijayalakshmi</b>	Controller of Examination	
18.	<b>Dr.T.Jothimurugan</b>	Chairman BoS/ Department of Master of Business Administration	
19.	<b>Dr.M.R.Ilango</b>	Chairman BoS/Department of Master of Computer Applications	
20.	<b>Prof.N.V.Karthikeyan</b>	HOD/Physics	
21.	<b>Prof. O. D. Shakile</b>	HOD/Chemistry	
22.	<b>Dr.A.Raviakkumar</b>	HOD/English	
23.	<b>Dr.M.R.Thansekhar</b>	Professor / Mechanical Engineering	
24.	<b>Dr.S.Suresh Raja</b>	Associate Professor, Artificial Intelligence and Data Science	
25.	<b>Dr.T.R.Muthu</b>	Assistant Professor/ Electronics and Communication Engineering	