

K.L.N. COLLEGE OF ENGINEERING

Pottapalayam-630612, Sivagangai District

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

UG – REGULATIONS 2020 AMENDMENTS IV

Amendments to the Regulations 2020 (CBCS) for the UG programmes offered in K.L.N. College of Engineering, Affiliated to Anna University, Chennai, approved in Eighth Academic Council Meeting held on 02.03.2024.

Existing (Applicable for the students admitted from the academic year 2021-2022 onwards)	Revised (Applicable for the students admitted from the academic year 2021-2022 onwards)
<p>4.3 Mandatory Three Week Induction Programme</p> <p>The students are expected to undergo a mandatory three week induction programme comprising of physical activity, creative arts, universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department/branch & innovations immediately after admission.</p>	<p>4.3 Mandatory Three Week Induction Programme</p> <p>The students are expected to undergo a mandatory three week induction programme comprising of physical activity, creative arts, universal human values, proficiency modules, lectures by eminent people, visits to local areas and familiarization to department/branch & innovations immediately after admission in first year.</p> <p>The completion of the Induction Programme shall be printed in the Grade Sheet as “COMPLETED”</p>
<p>4.9 ONLINE COURSES</p> <p>4.9.1 Students may be permitted to undergo online courses (which are provided with certificates) with the approval of Head of the Department.</p> <p>4.9.2 Students may be permitted to credit online 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>4.9 ONLINE COURSES</p> <p>4.9.1 Students may be permitted to undergo online courses (which are provided with certificates) with the approval of Head of the Department.</p> <p>4.9.2 Students are also permitted to undergo skill rack or MATLAB self paced courses and can earn certifications.</p> <p>4.9.3 Students may be permitted to credit online courses instead of three 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>4.9.4 Maximum of one credit can be considered through the MATLAB self-paced or skill rack certifications. For the credit transfer of these courses instead of the elective course, one credit earned through these platforms may be added with the credits earned through NPTEL online courses in SWAYAM platform.</p> <p>4.9.5 If a candidate has successfully completed MATLAB or Skillrack course for one credit and has not completed any online course through SWAYAM platform, the candidate is not eligible for credit transfer of elective course but the grade earned will be printed in grade sheet as additional course.</p> <p>Copies of the online course certificates should be submitted to the Head of the Department.</p>
<p>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.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.</p> <p>4.11.1. B.E./B.Tech. Honours (specialisation in the same discipline):</p> <p>a. The student should have earned additionally a minimum of 18 credits from a vertical of the same programme.</p> <p>b. Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Academic Council.</p> <p>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.</p> <p>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 calculation of</p>	<p>4.11 B.E. / B. Tech. (Hons) and B.E. / B. Tech. minor in other specialisation B.E./ B. Tech. (Hons) or B.E./B.Tech. minor in other specialisation degree will be optional for students.</p> <p>4.11.1. B.E / B.Tech. (Hons)</p> <p>a) The students should have earned additional courses (minimum of 18 credits) from one or more than one vertical of the same programme.</p> <p>b) Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Academic Council.</p> <p>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.</p> <p>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 calculation of CGPA. Remaining courses shall be printed in the mark</p>

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

sheet, however, they will not be considered for calculation of CGPA.

e) If the student has failed in the additional courses or faced shortage of attendance, the courses will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.

4.11.2. B.E./B.Tech. (Minor with Specialization in another Programme)

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.

b) Students can earn maximum of 6 credits in online mode (SWAYAM platform), out of these 18 credits as approved by Academic Council.

c) 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.

d) 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.

e) If the student has failed in the additional courses or faced shortage of attendance, the courses will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.

<p>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.</p>	
<p>12.4.1 Project Work</p> <ul style="list-style-type: none"> • If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-register for the same in a subsequent semester. 	<p>12.4.1 Project Work</p> <p>a) If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-register for the same in a subsequent semester.</p> <p>b) If a student has submitted the project report but absent in the end semester examination of project work, the student is deemed to be failed. In this case and also if the student attend and fails in the end semester examination of project work of B.E/B.Tech., he/she shall attend the end semester examination again within 60 days from the date of declaration of results. The subsequent viva-voce examination will be considered as re-appearance with payment of exam fees. In case the student fails in the subsequent viva-voce examination also, the student shall redo the course again when offered next.</p> <p>12.4.1.1 Students shall also undertake a start-up activity for the development of products as part of project work. If the outcome of a start up is a fully developed product and whose concept is tested and validated, then it shall be considered in lieu of the project work. Such students shall submit a start up report. The evaluation of the start-up is as per the evaluation of project work.</p>
<p>12.7 Assessment for Online Courses Students may be permitted to credit two or three online courses (which are provided with certificate), 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</p>	<p>12.7 Assessment for Online Courses Students may be permitted to credit online courses (which are provided with certificate), subject to a maximum of nine 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 three elective courses for the entire course of study. The students who opt for B.E/B.Tech. (Hons.) or</p>

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.

B.E/B.Tech (Minor with Specialization in another programme) can transfer 6 more credits through online courses. These online courses shall be chosen from the SWAYAM platform, provided the offering organisation conducts regular examination and provides marks.

12.7.a. The number of credits may be assigned as per the table 12.7.1 and the Mapping of the marks with the grades is explained in Table 12.7.2. The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL.

Table: 12.7.1. Number of Credits

No. of Weeks	Total No. of credits earned
4	1
8	2
12	3
16	4

Table 12.7.2 : Mapping of Marks scored in NPTEL course and grades earned

Letter Grade	Marks	Grade Points
O	90-100	10
A+	80-89	9
A	70-79	8
B+	60-69	7
B	50-59	6
C	40-49	5

12.7.b. 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).

12.7.c. Grade earned by a student through end semester exam and continuous assessment (as per 12.7.b.) shall be compared with the grade earned by him/her in NPTEL examination (as per 12.7.a) and the higher grade shall be considered for CGPA calculation and the same shall be printed in grade sheet.

12.7.d. If the candidate is absent or fails in the examination conducted by CoE, the grade earned in NPTEL examination (as per 12.7.a) shall be assigned to the candidate.

12.7.e. For Skillrack/MATLAB Self Paced course one internal test will be conducted by the mentor and the marks entered through this test will be converted into grade as per table 12.7.3.

Table 12.7.3 Skillrack/MATLAB Marks to grades

Marks range	Letter Grade	Grade Points
91- 100	O	10
81-90	A+	9
71-80	A	8
61-70	B+	7
56-60	B	6
50-55	C	5
<50	U	0

For the credit transfer of the elective courses, the above grades shall be converted as per the following example:

- The credit earned in the successfully completed Skillrack/MATLAB courses shall be recorded in the grade sheet.
- If a student has not successfully completed the Skillrack/MATLAB courses, then the same shall not be recorded in the grade sheet.
- If a student earns 1 credit through Skillrack/MATLAB course or NPTEL (4 weeks) and 2 more credits through NPTEL (8 weeks) then he/she can drop one professional elective or one open elective and the total grade point of the dropped course can be evaluated as per the following example.
 - Course 1 (Skillrack/MATLAB/NPTEL-4 weeks) – C grade – 5 points
 - Course 2 (NPTEL – 8weeks) – O grade – 10 points
 - Then, the grade point of the dropped course for the calculation of Grade point is obtained as: $(1 \times 5 + 2 \times 10) / 3 = 8.33$.
- If a student has successfully completed two 8 week courses only, then he/she can drop only one professional elective/open elective. The computation of Grade point for one PE/OE course

dropped in lieu of those two NPTEL courses is as follows.

Grade point = (2 credits * higher grade point obtained + 1 credit * lower grade point obtained) / 3 credits.

For example, for two courses of two credit each, if the grades obtained are,

Course 1 – C grade – 5 points; Course 2– O grade – 10 points

Then, the grade point of the dropped course for the calculation of CGPA is obtained as: $(1 \times 5 + 2 \times 10) / 3 = 8.33$.

15. AWARD OF LETTER GRADES

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

Letter Grade	Grade Points	Marks range
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
W (Withdrawal)	-	-
SA (Shortage of Attendance)	-	-

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.

15. AWARD OF LETTER GRADES

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

Letter Grade	Grade Points	Marks range
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
W (Withdrawal)	-	-
SA (Shortage of Attendance)	-	-

Relative grading shall be followed for all theory courses if the number of students who have passed the course is greater than 30. In all the courses, if the number of students who have passed the course is less than or equal to 30 then absolute grading shall be followed. For the Project Work/internship/Mini project and Laboratory Courses absolute grading procedure shall be followed irrespective of the number of students who have passed the course.

15.4 If a student successfully completes all the requirements of the programme and also meets the requirements of B.E. / B. Tech. (Hons) or B.E. / B. Tech. Minor but desires not to opt for the additional qualification, then he/she has to submit a declaration with regard to the same 30 days before the completion of semester VIII.