



**J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY
(Autonomous)**

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

NAAC 'A' Grade, ISO: 900:2015 Certified Institution,
Recognized UGC (2f) Status by UGC.

**B.E & B.TECH
REGULATIONS 2024
CHOICE BASED CREDIT SYSTEM
Common to all B.E. & B.Tech.**

**T.N.Palayam, Gobichettipalayam TK,
Erode- DT- 638506, Tamilnadu.**

Common to all B.E. & B.Tech. Full-Time Programmes

(For Students Admitted from the Academic Year 2024 -25 Onwards)

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In this Regulation, unless the context otherwise specifies:

AY	Academic Year
CIA	Continuous Internal Assessment
CAM	Continuous Assessment Marks
CBCS	Choice Based Credit System
CGPA	Cumulative Grade Point Average obtained upto a particular semester or upto the end of the programme.
Programme	A degree with a major specialization in an Engineering / Technology discipline offered by the College
Course	Course is any subject of study that maybe classified as Theory only, Practical only, Theory cum Practical, Project and any other subjects.
ESE	End Semester Examination
PC	Professional Core
PE	Professional Elective
BS	Basic Sciences
ES	Engineering Sciences
OE	Open Elective
UG	Under Graduate
CoE	Controller of Examination
HoD	Head of The Department
University	Anna University, Chennai, India
College	J.K.K. Munirajah College of Technology, T.N. Palayam.

2. INTRODUCTION

The modern student has evolved, seeking independence and autonomy in their learning journey. Employers now expect students to possess a versatile skill set and a collaborative mindset. However, traditional rigid learning systems often limit students' ability to explore their interests and develop a holistic personality. To address this, Our JKKMCT Institution is introducing the Choice Based Credit System (CBCS) to its academic curriculum. This innovative approach empowers students to: Register for courses of their choice, catering to individual learning paces, Select from a range of credits, allowing for flexibility and adaptability, Alter their academic plan as they progress, enabling them to explore diverse interests, Choose interdisciplinary courses from other departments, fostering additional skills and expertise, The CBCS system benefits all learners, including slow learners, by offering essential courses in both semesters. By providing a student-centric, flexible, and industry-relevant education, our institution aims to equip graduates with the skills and knowledge necessary for success in their chosen fields.

3. ADMISSION PROCEDURE

Candidate, seeking admission to the B.E./B.Tech. Programme, shall satisfy the conditions of admission prescribed by the Directorate of Technical Education (DOTE) and Anna University, Chennai as given below.

3.1 REGULAR ADMISSION

Candidates, for admission to first semester to eight semesters B.E./B.Tech. Degree Programmes, shall be required to have passed: Higher Secondary Examination (10 +2) of curriculum (Regular Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics, and Chemistry subjects of any Board prescribed by the Directorate of Technical Education (DoTE) and Anna University, Chennai.

(or)

Should have passed Higher Secondary Examination of Vocational Stream (Engineering/Technology), prescribed by the Directorate of Technical Education (DoTE) and Anna University, Chennai.

3.2 LATERAL ENTRY ADMISSION

The candidates from Diploma in Engineering / Technology awarded by the State Board of Technical Education and Training, Tamil Nadu or its equivalent are eligible to apply for lateral Entry admission to the third semester of B.E. / B.Tech. programmes in the branch of study as per the eligibility criteria prescribed by the Directorate of Technical Education from time to time.

(or)

The candidates from the Bachelor Degree in Science (B.Sc.) (10+2+3 stream) with Mathematics as a subject in B.Sc. are eligible to apply for lateral entry admission to the third semester of B.E./B.Tech. programmes, as per the eligibility criteria prescribed by the DoTE from time to time. Such candidates shall undergo two additional Engineering subject(s) one each in third and fourth semesters, as bridge courses.

4. PROGRAMMES OFFERED

A candidate may select any one of the programme offered by the college which are approved by AICTE and Affiliated by the Anna University. Details of programmes currently being offered by the college are given below

Table 4.1 B.E/B.Tech Programme

S.NO	Course Code	Name of the Programme
1	AU	B.E - Automobile Engineering
2	CE	B.E - Civil Engineering
3	CS	B.E - Computer Science and Engineering
4	EE	B.E - Electrical And Electronics Engineering
5	EC	B.E - Electronics And Communication Engineering
6	ME	B.E - Mechanical Engineering
7	IT	B.Tech - Information Technology
8	AD	B.Tech - Artificial Intelligence And Data Science
9	CB	B.E - Computer Science and Engineering (Cyber Security)

5. STRUCTURE OF THE PROGRAMMES

Credit Assignment

Each course is assigned certain number of credits based on the following:

Table 5.1 Credit Points

Contact Period Per Week	Credits
1 Lecture	1
1 Tutorial	1
Period of 1 Practical (laboratory /Seminar / Mini Project work)	0.5

CATEGORIZATION OF COURSES

Every B.E./B.Tech. Programme will have curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- I. **Humanities and Social Sciences (HSS)** courses include Technical English, Engineering Ethics and Human Values, and Environmental Science and Engineering.
- II. **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, Biology, Environmental Science etc.

- III. **Engineering Sciences (ES)** Courses include Engineering Practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
- IV. **Professional Core (PC)** Courses include the core courses relevant to the chosen specialization/branch.
- V. **Professional Elective (PE)** Courses include the elective courses relevant to the chosen specialization/ branch.
- VI. **Open Elective (OE)** Courses include the courses relevant to the chosen specialization / branch which a student can choose from the curriculum.
- VII. **Employability Enhancement Courses (EEC)** includes project work and/or internship, seminar, professional practices, communication skills, case study and industrial/practical Training, Employability Skills.

Table 5.2 Category wise Suggested Credits

S.No.	Category	Range of Total Credits (%)		Suggested Credits (for Total=161)
		Min	Max	
1.	Humanities and Social Sciences (HSS), Including Management.	5	18	10
2.	Basic Sciences (BS) including Mathematics, Physics, Chemistry	15	23	20
3.	Engineering Sciences (ES), including Materials, Workshop, Drawing, Basics Of Electrical/Electronics/Mechanical/Computer Engineering Instrumentation.	15	20	18
4.	Professional Core (PC), relevant to the chosen specialization/branch	30	70	65
5.	Professional Electives (PE), relevant to the chosen specialization/ branch.	10	20	18
6.	Open Electives (OE), from other technical and/ or Emerging subject areas.	5	14	10
7.	Employability Enhancement Courses (EEC)	10	22	20
Total Credits				161

6. PERSONALITY AND CHARACTER DEVELOPMENT

All students shall enroll their names in at least one or more personality and character development programmes (NSS/YRC/RRC/SPORTS/YOGA) and undergo training for about 40 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.

- **National Service Scheme (NSS)** will have social service activities in and around the College/ Institution and neighboring villages.
- **Sports** will have Indoor, Outdoor Games, Drills and Physical exercises.
- **Youth Red Cross (YRC)** will have activities related to social services in and around College/Institution. While the training activities will normally be during weekends, the camp will normally be during vacation period.
- **YOGA** will have a physical, mental, and spiritual practice that originated aims to unite the body, mind, and spirit, promoting overall well-being and self-awareness.

7. NUMBER OF COURSES PER SEMESTER

Curriculum of a semester shall normally have a blend of courses including Theory /Lab Embedded Theory/ Project Embedded Theory/ Laboratory courses, **not exceeding 7 Theory Courses and 4 Laboratory Courses.**

8. INDUSTRIAL TRAINING/INTERNSHIP

The students may undergo Industrial training / Research organization for a period as specified in the Curriculum during the summer / winter vacation. In this case, the training has to be undergone continuously for the entire period, due approval from Head of the Institution and Attendance Certificate will be provided to the COE by the head of the department for the result process.

If Industrial Training / Internship are not prescribed in the curriculum, the student may undergo Industrial Training/ Internship optionally and the credits earned will be indicated in the Grade Sheet. **If the student earns three credits in Industrial Training / Internship, the student may drop one Professional Elective.** In such cases, Industrial Training / Internship need to be undergone continuously from one organization for the period of one / two Weeks. Students shall get Certificate of completion of Industrial Training/Internship should be forwarded to the Controller of Examination through their respective Head of the Department. The student is allowed to undergo a maximum of 6 weeks Industrial Training/Internship during the entire

The student is allowed to undergo a maximum of 6 weeks Industrial Training during the entire duration of study.

DURATION OF TRAINING / INTERNSHIP	CREDITS
2 Weeks*	1
4 Weeks	2
6 Weeks	3

***1 Week = 40 Internship Hours**

a. INDUSTRIAL VISIT

Every student will be encouraged to go for at least one Industrial Visit every year starting from the second year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

b. SELF STUDY COURSES

- i. Students may be permitted to credit a maximum of one Self Study course with the approval of head of the department.
- ii. The student can opt for one Self Study courses provided the student does not have current arrears and maintains a CGPA of 7.5 and above.
- iii. The Department may offer self-study courses. The purpose of the course is to permit the student to study a course / a topic of the student's choice. The syllabus for the self-study course should not contain the topics covered partially or fully under the program curriculum. The students shall study on their own under the guidance of a faculty members. No formal lectures need to be delivered. The syllabus of the course and mode of assessments shall be approved by the head of the department and forwarded to the Controller of Examination through the head of the institution. The Head of the Department shall be responsible for the periodic monitoring and evaluation of the course before the commencement of the semester.
- iv. Self study course can be considered as equivalent to the inplant training with **one** credit weightage and its should be include in semester grade sheet.

c. MEDIUM OF INSTRUCTION

The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports.

d. ONLINE COURSE

A Student may be permitted to study online courses with the approval of Head of the Department, subject to a maximum of 6 credits. The Head of institute shall ensure that the student has not studied such courses and would not repeat it again as Professional Core / Professional Elective / Open Elective courses. A student can get exemption for a maximum of 6 credits during the entire programme (in lieu of core elective or open elective). These online courses shall be chosen from the SWAYAM platform, provided the offering organization conducts regular examination and provides marks. The credits earned shall be transferred and the marks earned shall be converted into grades and transferred, provided the student has passed in the examination as per the norms of the offering organization.

e. VALUE ADDED COURSES

The Departments can offer Value Added Courses over and above the regular Curriculum and Syllabus, based on the industry needs. Such courses may be of minimum 30 hours of duration. Which is optional and non credit courses, the faculty can offer such courses with the prior approval of the Head of the Institution through the Head of the Department. The details of the syllabus, timetable and faculty may be send to the Head of the Institution in advance (at least one month before) for approval before the course is offered. Industry Experts can be used to offer such Value Added Courses. Under such circumstances, a faculty will be assigned by Head of the Department as Value Added Course Faculty in-charge to carryout assessment related works. Students can take one or two such courses during the period of study for better employability.

9. DURATION OF THE PROGRAMME

A Regular student (admitted after 10+2) or equivalent is normally expected to satisfactorily fulfil the requirements for award of the degree B.E. / B.Tech. within four academic years (8 semesters) **from the date of admission but in any case not more than 7 years (14 Semesters)**; lateral entry students shall fulfil such requirements within three academic years (6 semesters) **from the date of admission but in any case not more than 6 years (12 semesters)** leading to the award of Degree of Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) of Anna University, Chennai.

10. COURSE ENROLLMENT AND REGISTRATION

- i. Each student shall be assigned to a Faculty Advisor who shall advice and counsel the student about the details of the academic programme and the choice of courses considering the student's academic background and career objectives.
- ii. Depending on academic and nonacademic resources available to each programme, courses offered may vary. Students will get a chance to make their own plan of study by changing the pace with which they study (fast/normal/slow) and to opt for a faculty member of their choice.

- iii. **The number of credits registered for during a semester should not be less than 15 credits and should not exceed 30 credits (Normally it is 18 credits).**
- iv. Every student shall enroll for the courses of the succeeding semester in the current semester. However, the student **shall confirm the enrollment by registering the courses within the first five working days after the commencement of the concerned semester.**
- v. No elective course shall be offered by a Department unless a minimum of 10 students register for that course. In case of below 10 students in a class, the whole students must be select a common elective courses for a semester.
- vi. After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment marks and appear for the End Semester Examinations.
- vii. Each student on admission shall register for all the courses prescribed in the curriculum in the student's first Semester of study.
- viii. The student shall enroll for the courses with the guidance of the student's Faculty Advisor. If the student wishes, the student may drop or add courses within five working days after the commencement of the concerned semester and complete the registration process duly authorized by the Faculty Advisor.

11. FLEXIBILITY TO ADD COURSES

A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree in the prescribed duration. From the II to VIII semesters, the student has the option of registering for additional / drop courses. However the maximum number of credits the student can register in a particular semester cannot exceed 30 credits. the student has the option of dropping few existing courses offered during the semester at the time of registration with the approval of Head of the Department and Head of the Institution due to valid reasons. Total number of credits of such courses dropped shall not exceed 6 credits per semester. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule / one week before the commencement of CIA-1, whichever is earlier.

12. RE APPEARANCE REGISTRATION

If the theory course, in which the student has failed, is a professional elective or an open elective, the student may register for the same or any other professional elective or open elective course respectively in the subsequent semesters.

If a student is prevented from writing End Semester Examination of a course due to lack of attendance, the student has to register for that course again, when offered next, attend the classes and fulfill the attendance requirements. If the course, in which the student has lack of attendance, is a Professional Elective or an Open Elective, the student may register for the same or any other Professional Elective or Open Elective course respectively in the subsequent semesters.

13. REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION OF A COURSE

Students have satisfied the attendance requirements for appearing the End Semester Examinations of particular courses.

Each semester shall normally consist of 75 working days or 600 periods (per day 8 periods), each period 45 minutes duration. The Head of the Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.

The attendance percentage for an individual course will be calculated as given below:

$$\text{Individual Course Attendance percentage} = \frac{\text{Total no.of periods attended for a course}}{\text{Total No.of periods for a course}} \times 100$$

A. Ideally every student is expected to attend all periods / all the courses in a semester and earn 100% attendance. However, the students shall secure minimum 75% attendance in all the courses wise taking into account the number of periods required for that courses as specified in the curriculum.

B. If a student secures attendance between 65% and less than 75% in any courses in the current semester due to medical reasons (hospitalization /accident/specific illness) or due to participation in the College / University / State / National / International level Sports events with prior permission from the Head of the Department concerned, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the end semester examination of that course.

In all such cases, the students should submit the required documents on joining after the absence to the Head of the Department through the Faculty Advisor.

C. A student shall normally be permitted to appear for End Semester Examination of the courses if the student has satisfied the attendance requirements and has registered for examination in those courses of that semester by paying the prescribed fee.

D. A student is mandatory for registration in all the courses which is the current semester and all arrear course(s) for the End Semester Examinations, failing which the student will not be permitted to move to the higher semester.

E. Students who secure less than 65% attendance in a course will not be permitted to write the End-Semester Examination of all the courses and in case of students may register for previous semester arrear examinations to write an end semester examination. The student has to register and repeat all courses in a subsequent semester when it is offered next. A student who has already appeared for a course in a semester and passed the examination is not entitled to reappear in the same course for improvement of grades.

14. FACULTY ADVISOR

To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department of the students will attach a certain number of students to a teacher of the Department who shall function as Faculty Advisor for those students throughout their period of study. The Faculty Advisor shall advise the students in registering of courses, authorizes the process, monitor their attendance and progress and counsel them periodically. If necessary, the Faculty Advisor may also discuss with or inform the parents about the progress / performance of the students concerned.

The responsibilities for the faculty advisor shall be

- To inform the students about the various facilities and activities available to enhance the student's curricular and co-curricular activities.
- To guide student enrollment and registration of the courses.
- To authorize the final registration of the courses at the beginning of each semester.
- To monitor the academic and general performance of the students including attendance and to counsel them accordingly.

15. OVERALL MONITORING COMMITTEE

In addition, there shall be an overall monitoring committee for each semester of a programme which comprises of (i) the Course Coordinators / Course teachers (as applicable), (ii) the Faculty- in-charge of the programme and (iii) the Head of Department. This overall monitoring committee shall meet periodically to discuss academic related matters, progress and status of the students of the semester concerned. The overall monitoring committee can invite the Faculty Advisors or students for any of the committee meetings if necessary.

16. ASSESSMENT PROCEDURE FOR AWARDING MARKS

All B.E./B.Tech. Programmes consist of Theory Courses, Laboratory Courses and Employability Enhancement Courses. Employability Enhancement Courses include Project Work, Seminar, Professional Practices, Case Study and Industrial/ Practical Training. Appearance in End Semester Examination is mandatory for all courses including Theory, Laboratory and Project work. Performance in each course of study shall be evaluated based on the following tables,

Table 16.1 Assessment Procedure for Awarding marks

S.No	Category of Course	Continuous Internal Assessment	End semester Examination	Total Marks
1	Theory Courses	40	60	100
2	Laboratory Courses	60	40	100
3	Project works	60	40	100
4	Integrated Theory & Practical	50	50	100
5	All other EECs (Other than Theory EEC)	100	NIL	100
6	Mandatory Courses (MC)	100	NIL	100
7	Online Courses	-	-	100

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' for every semester which consists of attendance marked in each theory / Laboratory/ EEC class, the assessment marks and the record of class work (topics covered), separately for each course handled by the teacher. This should be submitted to the Head of the Department periodically (at least three times in a semester) for checking the syllabus coverage and the record of assessment marks and attendance. The Head of the Department will affix his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Department who shall keep this document in safe custody (for eight years). The records of attendance and assessment of both current and previous semesters should be available for inspection.

A. ASSESSMENT FOR THEORY COURSES:

Table 16.2 Assessment Procedure for Theory courses

Continuous Internal Assessment I (100Marks)		Continuous Internal Assessment II (100Marks)		Total Internal Assessment
Individual Assignment / Case Study /Seminar /Mini Project Learning / Project / Objective Questions /any other experiential	Written Test	Individual Assignment/Case Study/Seminar/Mini Project Learning / Project / Objective Questions /any other experiential	Written Test	
40	60	40	60	200*

*** The weighted average is converted in to 40 marks**

B. ASSESSMENT FOR LABORATORY COURSES:

Table 16.3 Assessment Procedure for Laboratory Courses

Continuous Internal Assessment (100 Marks)		
Continuous Evaluation of Laboratory Observation / Record	Model Test	Total Marks
75	25	100*

* The weighted average is converted in to 60 marks

C. ASSESSMENT FOR PROJECT WORK:

Table 16.4 Assessment Procedures for Project work

Continuous Internal Assessment (60 Marks)			End Semester Examinations (40Marks)		
Review I	Review II	Review III	Project Report	Viva-Voce Examination	
20	20	20	External	Internal	External
			20	10	10

If the project report is not submitted on or before the specified deadline then the student(s) is deemed to have failed in the Project Work. The failed student(s) shall register for the same in the subsequent semester and repeat the project work again.

D. ASSESSMENT FOR PROJECT EMBEDDED THEORY COURSES:

If there is a theory course with laboratory component, there shall be two assessments: the first assessment (maximum mark is 100) will be similar to assessment of theory course and the second assessment (maximum mark is 100) will be similar to assessment of laboratory course respectively. The weightage of first assessment shall be 50 % and the second assessment be 50 %. The weighted average of these two assessments shall be converted into 50 marks and rounded to the nearest integer.

Table 16.5 Assessment Procedure for Integrated Theory & Practical Courses

Assessment I (50% weightage) (Theory Component)		Assessment II (50% weightage) (Laboratory Component)		Total Internal Assessment
Individual Assignment / Case Study / Seminar / Mini Project	Written Test	Continuous Evaluation of Laboratory Observation, Record	Model Test	
40	60	75	25	200*

*The weighted average shall be converted into 50 marks for internal Assessment.

E. ASSESSMENT FOR INDUSTRIAL TRAINING / INTERNSHIP

Continuous Assessment procedure for the industrial training / internship / lectures specified in curriculum described in the syllabus of the concerned courses and the reappearance is in mandatory in case of failure. Industrial Training / Internship. After completion of the III Semester, the student may undergo industrial training/internship in reputed organization after getting prior permission from the head of the institution. After completion of the training period, the student must submit the detailed report along with attendance certificate to COE through the head of the department with the approval of head of the institution. The student failed to complete the industrial training/internship as specified in their curriculum period. They must complete such training/internship within the end of the course duration.

F. OTHER EMPLOYABILITY ENHANCEMENT COURSES

- (a) The Seminar / Case Study / Mini Project course is to be considered as purely INTERNAL (with 100% internal marks only).
- (b) The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%). (b) The Industrial / Practical Training, Summer Project, Internship, shall carry 100 marks and shall be evaluated through internal assessment only.
- (c) For all the courses under Employability Enhancement Courses Category, except the Project Work, the evaluation should be done in internal mode

17. PASSING REQUIREMENTS

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

If a student fails to secure a pass in a particular course, i.e., failing to obtain minimum marks, as stated above, it is mandatory that he/she shall reappear for the examination in that course in the subsequent semester(s) whenever the examinations are conducted for that course, till he / she secures a 'Pass'. **Continuous Internal Assessment (CIA) marks obtained by the student in the first appearance shall be retained and considered valid for THREE SUBSEQUENT ATTEMPT**, However, from the fourth attempt onwards, the student shall be declared to have passed the course if **he/she secures a minimum of 50% in the course prescribed during the End Semester Examinations.**

A student can apply for photocopy / revaluation of the student's semester examination answer paper in a theory course, within one week from the declaration of results, on payment of a prescribed fee along with prescribed application to the Controller of Examinations through the Head of Departments. The CoE will arrange for the photocopy / revaluation and the results will be intimated to the student concerned through the Head of the Department. Revaluation is not permitted for theory cum laboratory courses, laboratory courses and project work.

18. AWARDS OF LETTER GRADES

18.1. The award of letter grades will be decided using **relative grading principle except Laboratory Courses and Project Work**. The performance of a student will be reported using letter grades, each carrying certain points as detailed below:

Table 18.1. Letter Grading Points

Letter Grade	Description	Grade Points
O	Outstanding	10
A+	Excellent	9
A	Very Good	8
B+	Good	7
B	Average	6
C	Satisfactory	5
U	Re-appearance	0

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+", "B", "C"

'U' denoted as a Reappearance is required for that particular course

18.2. Relative Grading

If the students' **strength is greater than 30**, the relative grading method shall be adopted. **For those students who have passed the course (theory course / laboratory integrated courses / theory integrated courses / all other EEC except laboratory course / Project Work Courses), the relative grading shall be done.** The marks of those students who have passed only shall be inputted in the software developed for relative grading. The evolved relative grading method normalizes the results data using the BOX-COX transformation method and computes the grade range for each course separately and awards the grade to each student. (theory course / laboratory integrated courses / theory integrated courses and all other EEC Courses).

18.3. Absolute Grading

For all the courses, if the students strength is less than or equal to 30 than the absolute grading shall be followed with the grade range as specified in the table, for the project work / internship and laboratory courses absolute grading procedure shall be followed as given the table.

Table 18.3. Letter Grading for absolute grading

O	A+	A	B+	B	C	U
91-100	81-90	71-80	61-70	56-60	50-55	<50

18.4 For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / sports /YRC, a satisfactory / not satisfactory grading will appear in the mark sheet. Every student shall put in a minimum of 75 % attendance in the training and attend the camp compulsorily. The training and camp shall be completed during the first year of the programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the second year. A satisfactory grade in the above co-curricular activities is compulsory for the award of degree.

19. GPA AND CGPA CALCULATION

The CoE shall call for a meeting of the result passing board after the End Semester Examinations, to release the results and with the approval of the board will declare the results. After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- The list of courses registered during the semester and the grades scored.
- The Grade Point Average (GPA) for the semester and
- The Cumulative Grade Point Average (CGPA) of all courses registered from first semester onwards.

During each semester, the list of courses registered and the grades scored in each courses are used to compute the Grade Point Average (GPA). GPA is the ratio of the sum of the products of the number of credits of courses registered and the grade points corresponding to the grades scored in those courses, taken for all the courses, to the sum of the number of credits of all the courses registered in the semester.

$$\text{GPA / CGPA} = \frac{\sum_{i=1}^n [C_i * (GP)_i]}{\sum_{i=1}^n [C_i]}$$

Where

C_i : is the number of Credits assigned to the course.

GP_i : is the Grade Point corresponding to the grade obtained for each course.

n : number of courses successfully cleared during the particular Semester in the case of SGPA and all the semesters, under Consideration, in the case CGPA.

U grades will be excluded for calculating GPA and CGPA.

For the non credit courses grades shall not be counted for the computation of GPA/CGPA. For the Co-curricular activities such as NCC / NSS / NSO / YRC etc., a completed status will appear in the grade sheet.

20. PHOTOCOPY / REVALUATION

A student can apply for photocopy of his/her semester examination answer paper in a theory course, as per the guidelines of COE on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of department & Head of the Institutions. The answer script is to be valued and justified by a faculty member, who handled the subject and recommend for revaluation with breakup of marks for each question. Based on the recommendation, the student can register for the revaluation through proper application to the Controller of Examinations.

The Controller of Examinations will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institutions. **Photocopy / Revaluation are not permitted for practical courses and for EEC courses. A student can apply for Photocopy / Revaluation of answer scripts for not exceeding 5 subjects at a time**

21. ELIGIBILITY FOR THE AWARD OF DEGREE

A student shall be declared to be eligible for the award of the B.E. / B.Tech. Degree provided the student has

- Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time
- Successfully completed the course requirements and acquired required number of total credits, appeared for the End Semester Examinations and passed all the courses within the period as prescribed in Clause 9.
- Successfully completed the NCC / NSS / Sports / YRC requirements.
- No disciplinary action pending against the student.

A.CLASSIFICATION OF THE DEGREE AWARDED

(i) FIRST CLASS WITH DISTINCTION:

A student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:

- ❖ Should have passed the examination in all the courses of all the eight semesters in the student's First Appearance within five years, which includes authorized break of study of one year.
- ❖ Should have secured a CGPA of not less than 8.50
- ❖ Should NOT have been prevented from writing end semester examination due to lack of attendance in any of the courses.

(ii) FIRST CLASS:

A student who satisfies the following conditions shall be declared to have passed the examination in First class:

- ❖ Should have passed the examination in all the courses of all the eight semesters in the student's First Appearance within five years, One year authorized break of study (if availed of) or prevention from writing the End Semester Examination due to lack of attendance (if applicable is include in the duration of the programme).
- ❖ Should have secured a CGPA of not less than 6.50

(iii) SECOND CLASS:

- ❖ All other students (OTHER THAN FIRST CLASS & DISTINCTION) who qualify for the award of the degree shall be declared to have passed the examination in Second Class.
- ❖ A student who is absent in End Semester Examination of a course/project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification.

22. PROVISION FOR WITHDRAWAL FROM EXAMINATION

- ❖ Student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by HOD) be granted permission to withdraw from appearing for the End Semester Examination in any course or courses in ANYONE of the semester examinations during the entire duration of the degree programme. The application shall be sent to principal through HOD with required documents.
- ❖ Withdrawal of application shall be valid only if the student is eligible to write the examination and if it is made within TEN working days before the commencement of the End Semester Examination in that course or courses and also recommended by the Head of the Department.
- ❖ Notwithstanding the requirement of mandatory TEN working days' notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- ❖ Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.

23. BREAK OF STUDY FROM A PROGRAMME

- ❖ A student is permitted to go on authorized break of study for a maximum period of one year as a single spell.
- ❖ Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the student may apply for additional break of study not exceeding another one year. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he/she applies to the head of the department in advance, but not later than the last date for registering for the End Semester Examination of the semester in question, through the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.
- ❖ The student permitted to re join the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students re-joining in new Regulations shall register for additional courses (if required). Such students have to make a request to the Head of the Department, will analyze the regulation already studied by the student and the current Regulation and instruct any additional courses to be studied under the current Regulation. These courses may be from any of the semesters of the curriculum in force, so as to bridge the curriculum in force and the old curriculum. In such cases, the total number of credits to be earned by the student may be more than or equal to the total number of credits prescribed in the curriculum in force.
- ❖ The total period for completion of the programme consider from, the commencement of the first semester to which the student was admitted shall not exceed the maximum period irrespective of the period of break of study in order that the student may be eligible for the award of the degree.
- ❖ If a student in Full Time mode wants to take up a job / start up / entrepreneurship during the period of study he/she shall apply for authorized break of study for one year. The student shall join the job / start up / entrepreneurship only after getting approval of the same by the Head of the Institution with due proof to that effect.
- ❖ If a student has not reported to the department for a period of two consecutive semesters without any intimation, the name of the student shall be deleted permanently from the college enrollment. Such students are not entitled to seek readmission under any circumstances.
- ❖ If a student indulges in malpractice in any of the examinations, the student shall be liable to be punitive action as prescribed by the University from time to time.
- ❖ No fee is applicable to students during the Break of Study period.

24. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The Institution may from time to time revise, amend or change the Regulations, Curriculum, Syllabi and Scheme of Examinations through respective Board of Studies and the Academic Council of the Institution.