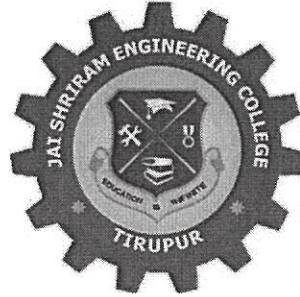


# JAI SHRIRAM ENGINEERING COLLEGE

(An Autonomous Institution Approved by AICTE and Affiliated to Anna University)

TIRUPUR – 638 660



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## REGULATIONS 2024

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**B.E. / B.Tech Programmes (Full-Time)**

**CHOICE BASED CREDIT SYSTEM**

**Applicable to the students admitted in B.E/ B.Tech. Programmes from the**

**Academic year 2024 - 2025 onwards**

*A.M.*

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**PRINCIPAL**  
Jai Shriram Engineering College  
Dharapuram Road,  
Avinashipalayam, Tirupur-638660. TN.

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**PRINCIPAL**  
Jai Shriram Engineering College  
Dharapuram Road,  
Avinashipalayam, Tirupur-638660. TN.

**JAI SHRIRAM ENGINEERING COLLEGE :: TIRUPUR – 638 660****(An Autonomous Institution)****REGULATION 2024****CHOICE BASED CREDIT SYSTEM****Common to all B.E. / B. Tech. Full-Time Degree Programmes****(For the students admitted to B.E. / B.Tech. Programme from the Academic year  
2024 - 2025 onwards)****1. TITLE**

These Regulations shall be called as ‘Academic Regulations 2024’.

**2. SCOPE**

- 2.1** The regulations are applicable to students admitted into B.E. / B.Tech. Degree Programmes from the academic year 2024 – 25 and are subjected to amendments as may be decided by the Academic Council of the College from time to time.
- 2.2** These regulations are quite comprehensive and include definitions of key terms, critical concepts, methods of calculations, roles of various committees, evaluation systems and other academic processes.

**3. DEFINITIONS**

**In this Regulation, unless the context otherwise specifies:**

- 3.1.** “University” means the affiliating university, viz., ANNA UNIVERSITY, CHENNAI
- 3.2.** “Choice-Based Credit System (CBCS)” is a flexible system of learning that permits students to
- learn at their convenient pace.
  - choose electives from a wide range of elective courses offered by the departments.
  - adopt an inter / trans-disciplinary approach in learning and
  - make the best use of the expertise of available faculty.
- 3.3.** “Programme” means Degree Programme (i.e.) B.E. / B.Tech. Degree Programme.
- 3.4.** “Discipline” means Branch or Specialization of B.E. / B.Tech. Degree Programme, like Civil Engineering, Fashion Technology, etc.,



- 3.5. “**Semester**” means a term of study consisting of a minimum of 75 working days (including examinations), generally with eight ‘CONTACT PERIODS’ per day. The Semester scheduled between July and December shall be called ‘Odd Semester’ (I, III, V, VII) and that scheduled between January and June, shall be called ‘Even semester’ (II, IV, VI, VIII).
- 3.6. “**Course**” means a Theory, Theory with Practical and Practical courses etc., that is normally studied in a semester, like Mathematics, Physics, etc.,
- 3.7. “**Contact Periods**’ means duration of Lecture, Tutorial, Practical or Project Work, as applicable.
- 3.8. “**Credit**” means the weightage assigned to a particular course based on the contact periods to teach the prescribed syllabus. One credit is allocated to 15 contact periods for theory and 30 contact periods for practical.
- 3.9. “**Continuous Assessment**” means evaluation of the students’ progress and performance in a course during a semester through various activities such as tests, assignments, quizzes, presentations, practical works, case studies, technology enabled services to community, etc.,
- 3.10. “**End Semester Examination**” means an examination conducted for a course at the end of the semester to evaluate the student’s overall learning achievements.
- 3.11. “**Faculty**” means a group of allied Programmes.
- 3.12. “**Bona fide Student**” means the student who is admitted, joined and on-roll in an Undergraduate Programme.
- 3.13. “**Head of the Department**” means Head of the Department of the programme concerned.
- 3.14. “**Chairperson**” means Head of the Faculty.
- 3.15. “**Head of the Institution**” means the Principal of the College
- 3.16. “**Controller of Examinations**” means the Authorised person of the College who is responsible for all activities of End semester examination.
- 3.17. “**Chairman / BoS**” means Head of the Department concerned.

#### 4. ADMISSION

##### 4.1 First Semester Admission

The candidates seeking admission to the first semester of the eight semester Degree of Bachelor of Engineering (B. E) / Bachelor of Technology (B. Tech) programme:



Should have passed the Higher Secondary Examination (10 + 2) Curriculum in the academic stream with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III subjects of the study conducted by the Government of Tamil Nadu or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(OR)

Should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

#### 4.2 Lateral entry admission

The Candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B. Tech. as per the rules fixed by Government of Tamil Nadu.

(OR)

The candidates who possess the Degree in Science (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. Such candidates shall undergo two additional Engineering subject(s) in the third and fourth semesters as prescribed by the Board of Studies of the Institution.

In addition to the clauses (4.1) and (4.2), the candidates seeking admission should satisfy other eligibility conditions prescribed by the Anna University and Directorate of Technical Education.

4.3 All students admitted provisionally or otherwise to any programme shall submit Photo ID proof issued by State / Central Govt., Original Transfer Certificate from the institution last studied, copies of grade / mark sheets of the qualifying examination and other relevant documents at the time of admission or by the last date prescribed by the Institution.

### 5. PROGRAMMES STRUCTURE

#### 5.1 Curriculum

Every programme has a specific structure, known as the 'Curriculum', which prescribes all the details of courses for undergoing the programme and sets out the sequence semester wise.

**5.2 Programme duration**

- i) Duration of the programme is FOUR years (Eight Semesters) for a student admitted to a programme with qualifications as prescribed in Clause 4.1 of the regulations. The student shall successfully complete all the requirements as per the curriculum and regulations of the programme within the above-said duration of 'FOUR' years.
- ii) Duration of the programme is THREE years (Six Semesters) for a student admitted directly to second year (Lateral entry) with qualifications as prescribed in Clause 4.2 of the regulations. The student shall successfully complete all the requirements as per the curriculum and regulations of the programme within the above-said duration of 'THREE' years.
- iii) Above mentioned period in Clause 5.2 (i) & Clause 5.2 (ii) shall be extended for 'ONE' more year to a student, who is permitted to avail the authorised break of study or opt for dropping of courses, as per the regulations.
- iv) 'Programme Completion' means that a student shall undergo all the courses as prescribed in the respective curriculum and become eligible for appearing in the end semester examination of all the courses within the period as given in Clauses 5.2 [(i), (ii) & (iii)]. Eligibility here refers to issuance of hall ticket to the student for appearing in the End Semester Examination.
- v) After programme completion if there are any arrear course(s), a student shall be permitted to successfully complete the same, within 'SEVEN' years (students admitted under Clause 4.1) and 'SIX' years (students admitted under Clause 4.2). This maximum duration for successful completion shall be reckoned from the date of original admission to the programme.
- vi) In case of a student prevented from appearing in the end semester examination in all the courses of a semester due to shortage of attendance, the period of prevention shall be treated as a break in the programme. In such a case, total duration for completing the programme including all such prevention periods shall not exceed the above-said 'SEVEN' years (students admitted under Clause 4.1) and 'SIX' years (students admitted under Clause 4.2).



### 5.3 Courses Categories

Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses in each semester that have been approved by the respective Board of Studies and Academic Council of the Institute. The courses are categorized as follows:

- 5.3.1 Engineering Sciences (ES)** Courses include Engineering Practices, Engineering Graphics, Basics of Civil / Mechanical / Electrical / Electronics / Instrumentation, Computer Engineering, etc.
- 5.3.2 Humanities, Social Sciences and Management (HSM)** courses include English, Communication skills, Value Education, Professional Ethics and Human Values, etc.
- 5.3.3 Professional Core (PC)** Courses include the core courses relevant to the chosen Programme.
- 5.3.4 Professional Elective (PE)** Courses include the elective courses relevant to the chosen programme.
- 5.3.5 Open Elective (OE)** Courses include the courses offered by a branch to other branches, from the list specified in the respective curriculum of the B.E. / B. Tech. Programmes.
- 5.3.6 Employability Enhancement (EE)** Courses includes project work, seminar and internship in industry or elsewhere
- 5.3.7 Mandatory Courses (MC)** include the courses such as Languages, Well-being etc. The student shall study the Mandatory courses prescribed by the Institution and it will be mentioned in the Grade Sheet. However, it will not be considered for computation of CGPA.
- 5.3.8 Audit Courses (AC)** The student may optionally study audit courses prescribed by the College and they will be mentioned in the Grade Statement. However, they will not be considered for computation of CGPA.
- 5.3.9 Value Added Courses (VAC)** are the courses not prescribed in the respective curriculum, but are offered to the students to provide additional value to the programme, for enhancing the knowledge and skills of the student. Completion of these course(s) is / are not mandatory for successful completion of the programme.
- 5.3.10 Off Campus Courses (OCC)** are the courses that can be undergone by the student, offered by other institutions.



### 5.3 Medium of Instruction

The medium of instruction is English for all courses, examinations, Seminar presentations and Project Work reports except for the programmes offered in Tamil Medium.

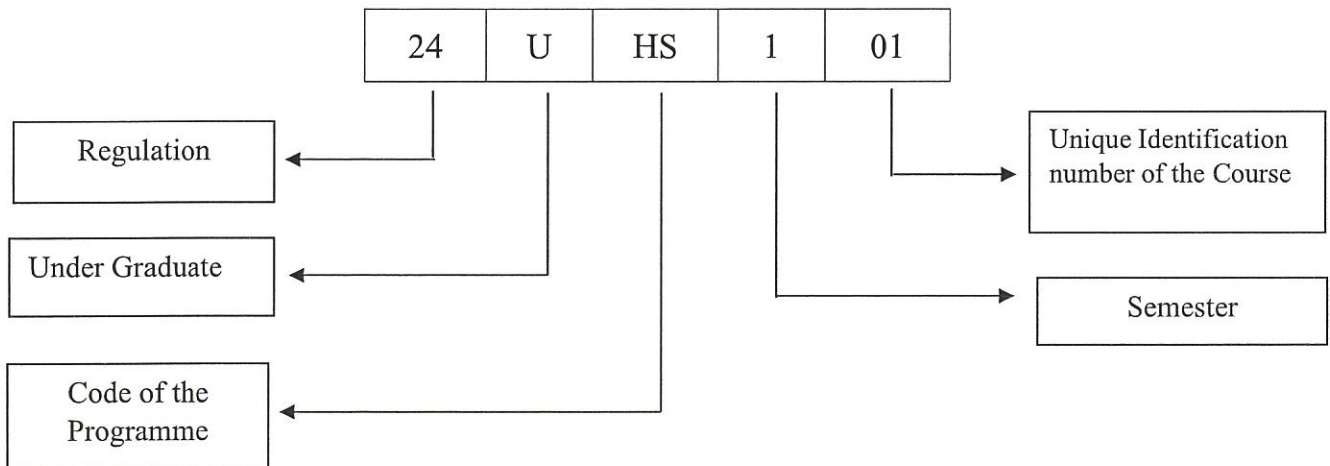
### 5.4 Assignment of Credits

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

Contact period per week	Credits
1 Lecture Period	1
1 Tutorial Period	1
1 Laboratory Period (also, for EEC courses like Seminar / Project Work /Case study / etc.)	0.5

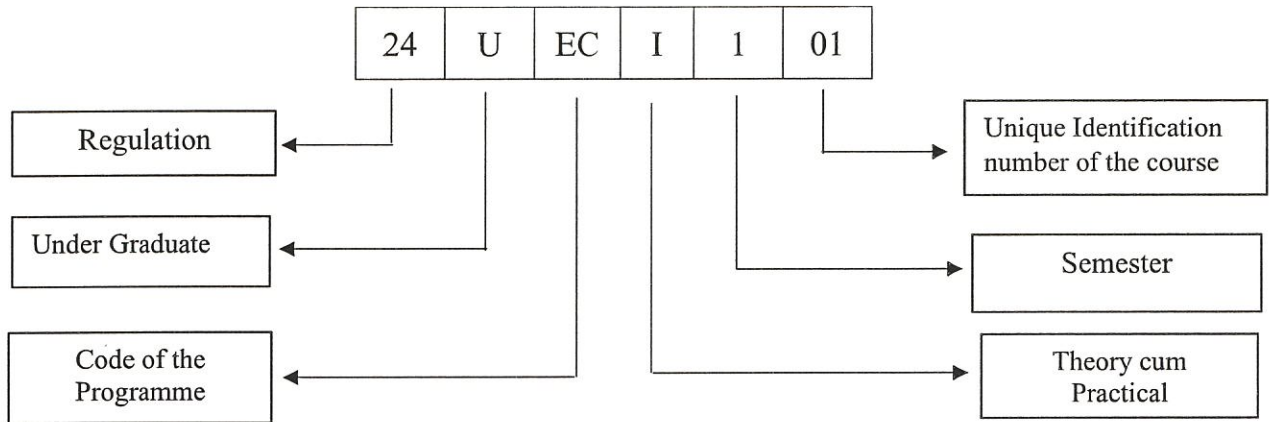
### 5.5 Course Code

Each course offered by a department under Professional Core courses category is assigned with a course code consisting of first two numerals denote the code of the Regulation, next one alphabet denote the Degree of the Programme, next two alphabets denote the Code of the Programme, next one numeral denote the Semester and next two numerals denote the Unique identification number of the course.

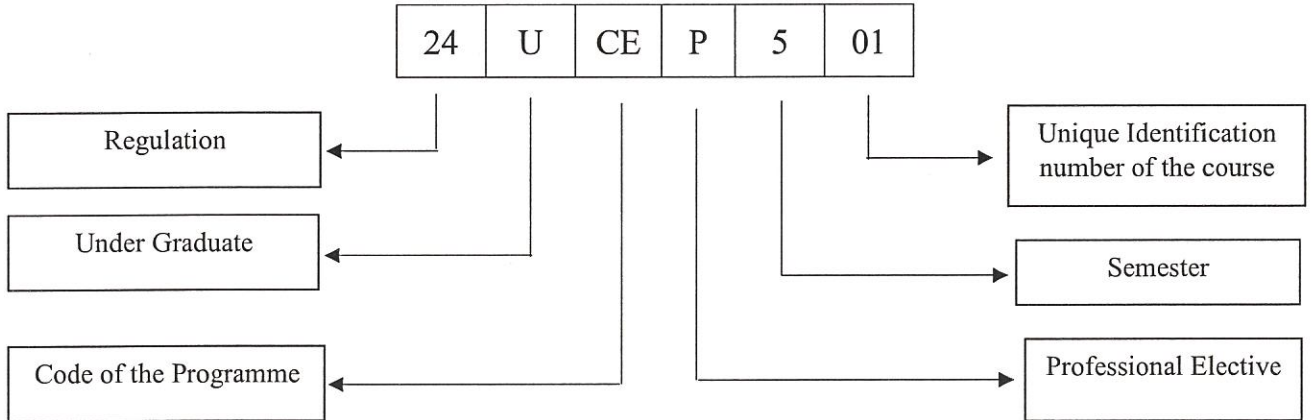


First two numerals denote Regulation, third one alphabet denote Degree, fourth and fifth alphabet denotes Code of the Programme, sixth numeral denote Semester, last two numeral denotes Unique Identification number of the course.

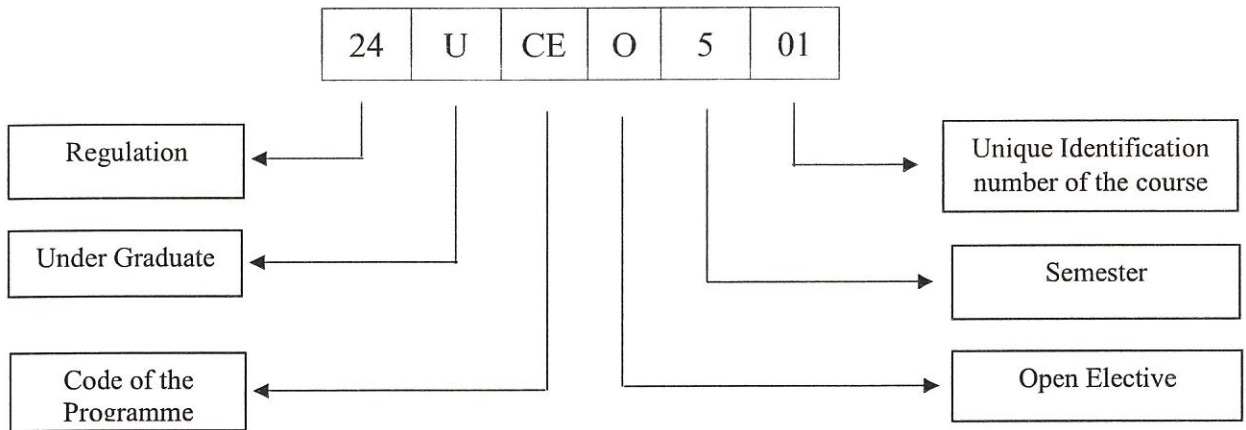




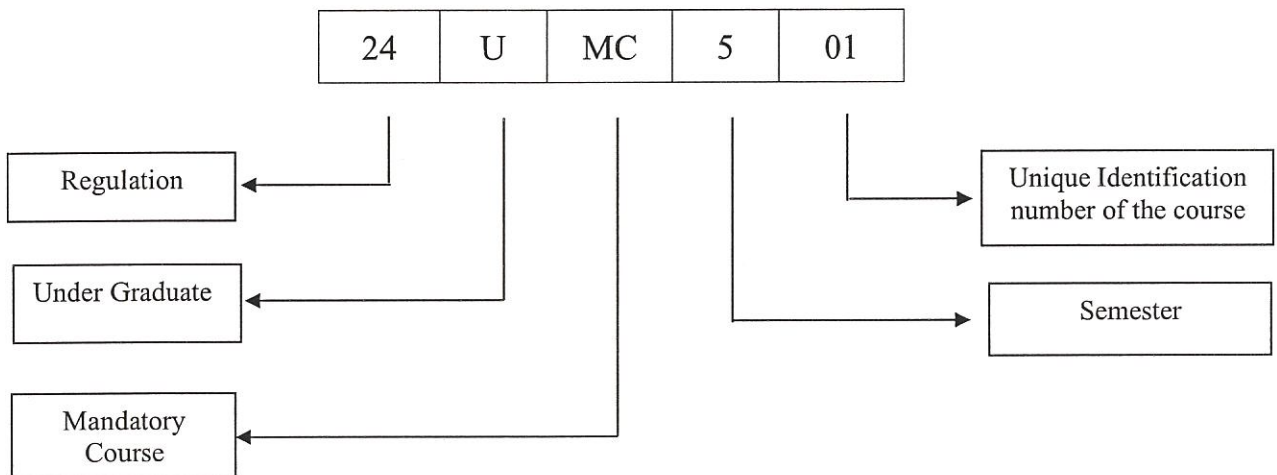
First two numerals denote Regulation, third one alphabet denote Degree, fourth and fifth alphabet denotes Code of the Programme, sixth alphabet denote Theory cum Practical, seventh numeral denote Semester, last two numeral denotes Unique Identification number of the course.



First two numerals denote Regulation, third one alphabet denote Degree, fourth and fifth alphabet denotes Code of the Programme, sixth alphabet denote Professional Elective, seventh numeral denote Semester, last two numeral denotes Unique Identification number of the course.



First two numerals denote Regulation, third one alphabet denotes Degree, fourth and fifth alphabet denotes Code of the Program, sixth alphabet denote Open Elective, seventh numeral denote Semester, last two numeral denotes Unique Identification number of the course.



First two numerals denote Regulation, third one alphabet denote Degree, fourth and fifth alphabet denotes Mandatory Course, sixth numeral denote Semester, last two numeral denotes Unique Identification number of the course.

**6. Induction Programme**

The students shall undergo a mandatory two-week induction programme comprising of physical activity, creative arts, universal human values, general proficiency modules, lectures by eminent people, visits to local areas and familiarization to department / branch immediately after getting admitted in the Institution.

## 7. Academic Calendar

The dates of all academic activities including those of course registration, first and the last day of classes and examinations are published in the Academic Calendar every semester. The academic calendar for each semester shall be available in the Institute website.

## 8. MENTORING & STATUTORY SUPPORT FOR STUDENTS

### 8.1 Faculty Advisor

There shall be a class advisor for each class. The class advisor will be one among the course-instructors of the class. He / She will be appointed by the HoD of the department concerned. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the HoD and the students of the respective class.
- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

### 8.2 Grievance Cell

Each Department shall have a 'Student Grievance Committee'. Students shall approach this committee in the event of academic as well as non-academic grievances. This committee shall be constituted by the respective Head of the Department, with the approval of the competent authority.

### 8.3 Guidance & Counselling Cell

- i) Each Departments shall have a dedicated 'Guidance and Counselling' unit. This cell comprises of psychological counsellors, faculty representatives including the faculty advisor and student representatives. This cell shall help and offer advice in all kinds of matters. This counselling cell shall be constituted by the respective HoD of the department.
- ii) Induction Programme shall be conducted by the respective HoD, aimed at offering the incoming students, an interface to understand and interact with the diverse student



community in the Institution. With the Institute having a stringent anti-ragging policy, the programme also doubles up as an excellent icebreaker. The objectives of this induction programme include:

- Welcoming and orienting the new students at the Institution.
- Guiding the new students about life at the Institution campuses and its activities, college fests, etc.
- Providing academic guidance to the students.
- Enforcing the anti-ragging rule.
- On the whole, the Induction Programme aims to provide the incoming students with a cordial environment to make their transition to the Institute system as smooth as possible.

#### 8.4 Prevention of Sexual Harassment Cell

Sexual Harassment Cell is established to ensure a safe and secure working / studying environment for Girls and Women in the College. More Information about this cell can be accessed at the following link: <https://jayshriram.edu.in/internal-complaints-committee/>

#### 8.5. SC / ST Cell

A separate cell is functioning in the Institute to safeguard the rights and privileges of the students, belonging to SC / ST category. This cell also informs the students about the various scholarships and fellowships and encourages them to apply for relevant ones. More information about this cell can be accessed at the following link: <https://jayshriram.edu.in/SC-ST Cell>

#### 8.6 Common Courses Committee

Each common theory course offered to more than one discipline or group, shall have a “Course Committee” comprising all the teachers teaching the common course with one of them nominated as the course coordinator. The nomination of the course coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The ‘Course Committee’ shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the Course Committee may also prepare a common question paper for the internal assessment test(s).



## 8.7 CLASS COMMITTEE

8.7.1. Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson, who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching- learning process. The functions of the class committee include:

- Solving problems experienced by students in the class room and in the laboratories.
- Clarifying the regulations of the degree programme and the details of rules therein particularly (clause 11).
- Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
- Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
- Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
- Identifying the slow-learners, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such students.

8.7.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.

8.7.3 The class committee shall be constituted within the first week of each semester.

8.7.4 At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee, covering all the elective courses.

8.7.5 The chairperson of the class committee may invite the class adviser(s) and the Head of the Department to the class committee meeting.

8.7.6 The Head of the Institution may participate in any class committee meeting of the institution.

8.7.7 The chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate



it among the students and teachers concerned. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the Management by the Head of the Institution.

**8.7.8** The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. The Class Committee Chairperson shall display the cumulative attendance particulars of each student on the Notice Board at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 6 of this Regulation. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

## **9 CLASS TIMINGS**

The classes are usually scheduled between 09:00 AM to 04:25 PM with a recess from 10:40 AM to 10:55 AM and a lunch break from 12:25 PM to 01:10 PM. Additional classes shall be scheduled in the morning and evening hours at the convenience of the Course Instructor to the students opting for Honours / Minor Programmes. One Contact Period is of 50-minute duration. Regular classes are scheduled in a 6-day week, from Monday to Saturday. The course instructors may also schedule some additional classes / exams / activities with prior approval of the respective Head of the Department.

## **10. REGISTRATION OF COURSE**

**10.1** The Department is responsible for registration of 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 10.2)). The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.

The registration details of the student shall be approved by the 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

i. Courses of the current semester.



ii. Courses dropped in the lower semesters

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.

## 10.2 Flexibility to Add or Drop courses

**10.2.1** 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.

**10.2.2** From the second to final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses shall not exceed 6 per semester. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

**10.2.3** From the V to VIII semesters, the student has the option of registering for additional courses in a semester. With regard to enrolling for B.E. / B. Tech. (Hons) or B.E. / B. Tech. Minor

The total number of credits that a student can add in a semester is limited to 6, subject to a maximum of 2 courses. Maximum number of credits enrolled in a semester (Honours and Minor) shall not exceed 36. The online courses registered for B.E. / B. Tech. (Hons.) and B.E. / B. Tech. minor shall be over and above these 36 credits.

## 10.3 Value Added Courses

- Students may optionally undergo Value Added Courses 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 a Department of an institution with the prior approval from the Head of the Institution.
- The details of the syllabus, time table and course coordinator may be sent to the CoE at least one month before the course is offered for approval.

## 10.4 Off campus courses and Transfer of Credits

Students are permitted to optionally enroll and study a maximum of three off campus courses in physical/online/hybrid mode under each UG programme with the approval of Head of the Institution as per the Regulations. The successful completion of these courses through any of the following modes shall be considered in lieu of professional



elective / open elective courses of curriculum as approved by the Head of the Institution.

**10.4.1** Students are permitted to optionally enroll and study these courses through SWAYAM - NPTEL platforms and credit transfer is to be done based on the marks and certificate provided by the NPTEL. The number of credits and transfer of credits are based on the procedure explained in Table 1 and the Mapping of the marks with the grades is explained in Table 2. The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL.

**Table 1: Duration of the Course and Number of Credits**

No. of Weeks	No. of Credits
4	1
8	2
12	3
16	4

**Table 2: Mapping of Marks scored in NPTEL course and Credits earned**

Letter grade	Marks
O	86 - 100
A+	76 - 85
A	66 - 75
B+	56 - 65
B	50 - 55

**10.4.2** Students are permitted to optionally enroll and study the courses in physical / hybrid / online modes offered by reputed Central / State funded Universities / Institutions which are in the top 20 positions in the latest NIRF ranking and also conducting examination towards award of marks and grades. (NIRF Ranking of any of the last three years with respect to the year in which course is to be registered; NIRF ranking is based on respective stream for professional elective courses and based on any stream for open elective courses).

Students are also permitted to enroll and undergo such courses in Online mode at Universities abroad in top 500 in QS ranking in the last three years.





Students are also permitted to study courses of a particular semester in a University / Institution abroad based on MoU. A learning agreement shall be evolved to map all the courses offered in the programme and the courses offered in University abroad as per the procedure outlined by the Head of the Institution. The credits earned by the students in the University abroad shall be transferred as per the learning agreement.

In the case of 10.4.2, the students can enroll for the courses with the approval of the Head of the institution only if the course is offered directly by Institution/University and not with the edutech platforms.

The marks/credits earned by the student shall be transferred based on the decision of a committee constituted by Head of the Institution.

**10.4.3** Students are also permitted to enroll and study the courses in physical/ hybrid mode (not less than 50% in physical mode) that are offered by (i) National/ State funded research institutions/ laboratories and (ii) reputed companies (manufacturing or software) related to the programme, and (b) reputed companies involved in transfer of knowledge provided the knowledge transferring company is a spinoff from an Engineering/ Technology practicing Industry and sharing the work experience of the respective industry. The companies mentioned in 10.4.3 (ii) (a) and the company with which the knowledge transfer company associated in the case of 10.4.3 (ii) (b) should have average annual turnover of more than 200 crores over a period of 5 years. However, the academic content and delivery shall be in consonance with the Institution academic standards and norms.

The minimum qualification of the course instructor from the company as mentioned in 10.4.3 (ii) shall be B.E./B.Tech with 10 years of research / industrial experience. Such courses shall be offered through MOU / MOA between Institution and such institutions/ organizations/ companies. The design of the courses with regard to the syllabus content, duration of each course and number of credits offered for each course shall be discussed and recommended by the Head of the Department and approved by Head of the Institution as per the Regulations.

For the offer of each course under 10.4.3, a course coordinator shall be nominated from the Department who shall also attend such course and shall coordinate the question paper setting and answer script evaluation with the course instructor from research institution /laboratories /industry/ company for the continuous assessment



and end semester examination conducted by the Institution. The passing requirements are as per regulations.

## 11. ATTENDANCE CRITERION

**11.1** A student who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester. Ideally every student is expected to attend all classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as medical / participation in sports, the student is expected to attend at least 75% of the classes.

Therefore, he/she shall **secure not less than 75%** (after rounding off to the nearest integer) of overall attendance as calculated below

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{(\text{No. of periods / week as prescribed in the curriculum}) \times 15 \text{ taken together for all courses of the semester}} \times 100$$

**11.2** However, a student who secures overall attendance between 65% and 74% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examinations, subject to the condition that the student shall submit the medical certificate / sports participation certificate attested by the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.

**11.3** Students who **secure less than 65% overall attendance** shall not be permitted to write the End semester examination at the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

**11.4** The students should get prior approval from the respective Head of the Department to attend campus recruitments, seminars, project works, internships, co-curricular and extra-curricular activities including Sports. For recognised sports activities, permission of the Head of the Institution has to be obtained through the respective Head of the Department. Only upon prior approval of Head of the Department, attendance for the above said activities shall be considered as 'ON-DUTY'.



Additional classes may be conducted by the Department to the student(s) who are participating only in Sports activities, representing the Institution in the University / State / National / International Level so that such students shall attain the prescribed % of attendance to appear in the End Semester Examinations.

- 11.5** The list of students eligible for appearing in the end semester examination(s) and prevented from writing the end semester examination(s) shall be published and displayed in the Department notice board within TWO working days from the last day of the semester.

## **12. BREAK OF STUDY**

- 12.1** A student is permitted to go on authorised break of study for a maximum period of one year as a single spell.

- 12.2** 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 re-join 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 Institution 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 Department stating the reasons therefore and the probable date of re-joining the programme.

- 12.3** 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 re-joining. The students re-joining in new Regulations shall register for additional courses, if any, as notified by the Head of the Department under change of Regulations. 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.

- 12.3.1** Total number of credits to be earned by the student shall be more than or equal to the total number of credits prescribed in the curriculum in force. If the credit assigned for L T P of the courses are not same in two Regulations under consideration, then equivalence shall be arrived as per the credit assignment followed in the Regulations in force.



- 12.4** The authorized break of study is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 22.2).
- 12.5** The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 12.6** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 12.1).
- 12.7** 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 authorised 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.
- 12.8** No fee is applicable to students during the Break of Study period.

### **13. UNAUTHORIZED ABSENCE**

If a student has not reported officially to the Head of the Department for the entire duration of the semester, without any prior written request (hardcopy or email to official ID of the respective Head of the Department) for 'Break of Study', admission of the student stands cancelled automatically and name of the particular student shall be permanently removed from the roll list, following the Institution procedure. This Institution procedure includes prior intimation to the student & parent / guardian through email regarding unauthorised absence, before the end of the first assessment period in the particular semester.

### **14. RE-JOINING THE PROGRAMME**

After the end of approved 'Break of study', student shall be permitted to re-join the programme in that particular semester, for which 'Break of Study' has been granted to the student. Regulations & Curriculum in force for the specific semester, at the time of re-joining shall be applicable. Appearance of the student (including absence) in the end semester examinations for these courses in that particular semester shall be considered as 'First Appearance'. If there is any change of Regulations & Curriculum, the student has to undergo additional courses or get exemption from undergoing the courses, as recommended by the committee, constituted by the Head of the Institution, for this



purpose. Recommendations of this committee, with the approval of the respective Head of the Department, shall be sent to the Controller of Examination, for further action.

## 15. TERMINATION

**15.1** A student who is not able to complete the requirements for the award of degree, within the maximum permissible duration prescribed, will be deemed to be automatically terminated from the programme and Transfer certificate shall be issued forthwith.

**15.2** Students faced with disciplinary action for any serious offence (For example: ragging) may face premature termination from the programme, based on the recommendations of the disciplinary action committee.

## 16. VACATION

The Institute has two vacations (winter, summer) in an academic year. Period of both vacations shall be announced in the academic calendar.

## 17. TEACHING AND EVALUATION

**17.1** Performance in each course of study shall be evaluated based on (i) Continuous internal assessment throughout the semester and (ii) End Semester examination at the end of the semester.

**17.2** Each course, both theory and practical (including project work & viva voce examinations) shall be evaluated for a maximum of 100 marks.

**17.2.1** For all theory courses, the continuous internal assessment will carry **40 marks** while the End Semester examination will carry **60 marks**.

**17.2.2** For all theory courses with laboratory component, the continuous internal assessment will carry **50 marks** while the End Semester examination will carry **50 marks**.

**17.2.3** For all laboratory courses, the continuous internal assessment will carry **60 marks** while the End Semester examination will carry **40 marks**.

**17.2.4** The continuous internal assessment for the project work will carry **60 marks** while the End Semester examination will carry **40 marks**.

**17.3** Industrial Training and Seminar shall carry 100 marks and shall be evaluated through internal assessment only.

**17.4** The End Semester examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.



**17.5** The End Semester examination for Project Work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the project group and an internal examiner.

**17.6** For the End Semester examination of practical courses including Project Work, the internal and external examiners shall be appointed by the Controller of Examinations.

S. No.	Type/ Category	Continuous assessments	End Semester Examination
1	Theory	40 %	60 %
2	Laboratory integrated Theory	50 %	50 %
3	Laboratory	60 %	40 %
4	Project work / Intern cum project work	60 %	40 %
5	Internship/ Industrial training	100 %	--
6	Mini-Project	100 %	--
7	Seminar	100 %	--

#### Procedure for Awarding Marks for Internal Assessment

For all theory, laboratory courses, theory courses with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below:

#### 17.7 Theory Courses

Two assessments each carrying 100 marks shall be conducted during the semester by the Department / College concerned. The total marks obtained in all assessments put together out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to the two assessments).

Assessment I (100 Marks)		Assessment II (100 Marks)		Total Internal Assessment
Individual Assignment / Case Study / Seminar / Mini Project/ any other experiential learning	Written Test	Individual Assignment / Case Study / Seminar / Mini Project/ any other experiential learning	Written Test	
40	60	40	60	<b>200 *</b>

\*The weighted average shall be converted into 40 marks for internal Assessment.



Two internal assessments will be conducted as a part of continuous assessment. Each internal assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Individual Assignment/ Case study/ Seminar/ Mini project/ any other experiential learning and Test with each having a weightage of 40% and 60% respectively. The tests shall be in written mode. The total internal assessment marks of 200 shall be converted into a maximum of 40 marks and rounded to the nearest integer.

### 17.8 Laboratory Courses

The maximum marks for Internal Assessment shall be 60 marks in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Internal Assessment (100 Marks) *	
Evaluation of Laboratory Observation, Record	Test
75	25

\* Internal assessment marks shall be converted into 60 marks

### 17.9 Theory Courses with Laboratory Component / Laboratory Courses with Theory Component

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.

The procedure for the conduct of internal assessments for theory and laboratory components shall be as per the clause 17.1 and 17.2 respectively.

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

L	T	P	C	Internal Assessment I	Internal Assessment I	End Semester Examination
1	0	4	3	Lab (25%)	Theory (25%)	Lab Only (50%)
1	0	2	2	Lab (25%)	Theory (25%)	Lab Only (50%)
2	0	2	3	Lab (25%)	Theory (25%)	Theory (25%)



						Lab (25%)
3	0	2	4	Lab (25%)	Theory (25%)	Theory (35%) Lab (15%)
2	0	4	4	Lab (25%)	Theory (25%)	Theory (15%) Lab (35%)

### 17.10 Project Work / Internship

The student shall register for Project work in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group. The student is also permitted to undergo a semester long internship in an industry/ academic/ research institution.

**17.10.1** Project Work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing (i) PG degree or (ii) Ph.D. degree.

**17.10.2** The Project Work carried out in industry/ academic/ research institutions shall be jointly supervised. The project work shall be jointly supervised by a supervisor of the department and an expert as a joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress. The review meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the Department and suitable record of the meetings shall be maintained.

**17.10.3** The Head of the Department shall constitute a review committee for Project Work for each programme. The review committee consists of supervisor, an expert from the Department and a project coordinator from the Department. If the project coordinator/expert member happens to be the supervisor, then an alternate member shall be nominated. In the case of Industrial Project, the review committee shall have the supervisor, the coordinator from industry and the project coordinator from the Department.

There shall be three reviews conducted by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 60 marks** and rounded to the nearest integer (as per the scheme given in 17.10.4).

**17.10.4** The project report shall carry a maximum of 10 marks. The project report shall be submitted as per the approved guidelines as given by the Head of the Department.






Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 30 marks. Marks are awarded to each student of the project group is based on the individual performance in the viva-voce examination.

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

**17.10.5** The last date for submission of the project report is on the last working day of the semester. If a student fails to submit the project report on or before the specified deadline, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.

**17.10.6** 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, which includes the concepts and process flow of the developed product, publications and patents, if any.

The evaluation of the start-up report is as per the clause 17.10.4.

### 17.11 Other Employability Enhancement Courses

- (a) The Seminar / Case Study / Mini Project course is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three-member committee appointed by the Head of the Department, consisting of the course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester, the marks shall be consolidated and taken as the final mark. 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. At the end of Industrial /



Practical Training / Internship / Summer Project, the student shall submit an attendance certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a viva-voce Examination, conducted internally by a three-member Departmental Committee constituted by the Head of the Department consisting of the course coordinator and two experts from the Department. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Department to the Controller of Examinations.

- (c) For all the courses under Employability Enhancement Courses Category, except the Project Work, the evaluation shall be done with 100% internal marks and as per the procedure described in clause 17.11 (a) / (b).
- (d) Skill based experiential learning courses will be offered in two categories as purely Laboratory Based Courses and Theory Integrated Laboratory Courses with the following credits. One such course will be offered in every semester from III to VII. A student may accumulate upto 6 credits through such courses, and such credits will be considered in lieu of the Professional Elective and/or Open Elective courses. These courses may be offered with the support of the identified firms/companies and with one course coordinator per course and a mentor from the firm.

#### **Evaluation Procedure:**

The evaluation of the above-mentioned courses is fully internal and shall be jointly done by the course coordinator from the institution and the mentor from the firm.

(a) If the course involves certification from an identified firm/company, then 20% of the total marks will be included in the internal assessment marks, 30% will be included from the marks provided by the firm and 50% shall be evaluated by the respective Course Coordinators of the college by conducting appropriate theory and / or laboratory tests.

(b) If there is no certification from the firm/company, then 50% will be included from the marks provided by the firm and 50% shall be evaluated by the respective Course Coordinators of the college by conducting appropriate theory and / or laboratory tests.

#### **17.12 PASSING REQUIREMENTS**

**17.12.1** A student 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 both theory and laboratory courses (including project work).

**17.12.2** If a student fails to secure a pass in a theory course / laboratory course (except electives), the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination) as per clause 17.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester examinations alone.

**17.12.3** If the course, in which the student has failed, is a Professional Elective or an Open Elective course, the student may be permitted to complete the same course. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 17.12.1, then the candidate shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester examinations alone.

If any other Professional Elective or Open Elective course is opted by the student, the previous registration is cancelled and henceforth it is to be considered as a new Professional Elective or Open Elective course. The student has to register and attend the classes, earn the continuous assessment marks, fulfil the attendance requirements as per clause 7 and appear for the end semester examination.

**17.12.4** If a student is absent during the viva - voce examination, it would be considered as fail. If a student fails to secure a pass in Project Work-I, **the student shall register** for the course again in the subsequent semester and can-do Project Work-I and II together.

**17.12.5** The passing requirement for the courses which are assessed only through purely internal assessments (EEC courses except Project Work and laboratory), is 50% of the internal assessment (continuous assessment) marks only.

**17.12.6** A student can apply for revaluation of the student's semester examination answer paper in a theory course, as per the guidelines of the CoE on payment of a prescribed



fee along with prescribed application to the CoE through the Head of the Institution. The CoE will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institution. Revaluation is not permitted for laboratory course and EE courses.

#### 17.12.7 Assessment for Value Added Courses

The one / two credit course shall carry 100 marks and shall be evaluated through **continuous assessments only**. Two Assessments as per the clause shall be conducted by the Department concerned. The total marks obtained in the assessments shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the Head of the Department shall do the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations. The grades earned by the students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA.

#### 18. Honours Degree

- a. The students should have taken additional courses from a group of Professional Electives of the same programme and earned a minimum of 18 credits.
- b. Should have passed all the courses prescribed in the curriculum and additional courses in the first attempt.
- c. Should have earned a minimum of 7.50 CGPA taking into account of all the courses prescribed in the curriculum and additional courses.

#### 19. Minor Degree

The student should have earned additionally a minimum of 18 credits in any professional electives offered from Engineering Disciplines / Science and Humanities / Management

1. For these 18 credits students can optionally enroll and study a maximum of 6 credits in online mode from SWAYAM-NPTEL platform (in addition to the three online courses permitted for courses of curriculum), as approved by the Head of the Institution.
2. B.E / B.Tech. (Hons.) and B.E./B.Tech. minor with specialisation in another discipline will be optional for students and the students shall be permitted to select any one of them only.



3. For the categories 18, the students, including Lateral Entry, shall be permitted to register for the courses from Semester V onwards provided the students have earned a minimum CGPA of 7.50 until Semester III and have cleared all the courses in the first attempt.
4. For the category 19, the students, including Lateral Entry, 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.
5. B.E / B.Tech. (Hons.) or B.E./ B.Tech. Minor shall be offered by the Department irrespective of the number of students enrolled.
6. If a student decides not to opt for Honours, after completing certain number of additional courses, such 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 grade sheet however, they will not be considered for calculation of CGPA and the same shall be indicated in a foot note appropriately.  
If the student has failed in the additional courses or faced shortage of attendance, they will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.
7. 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 grade sheet, however, they will not be considered for calculation of CGPA and the same shall be indicated in a foot note appropriately.  
If the student has failed in the additional courses or faced shortage of attendance, they will not be printed in the grade sheet and will not be considered for CGPA calculation and classification of degree.  
The student has to enroll for these additional courses separately and pay a tuition fee for studying these six additional courses and pay additional exam fee.



## 20. GRADING OF COURSES

20.1 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:

Letter grade	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
SA (Shortage of Attendance)	0
W (Withdrawal)	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”.

‘SA’ denotes shortage of attendance (as per clause 11.3) and hence prevented from writing the end semester examinations. ‘SA’ will appear only in the result sheet.

“U” denotes that the student has failed to pass in that course. “W” denotes **withdrawal** from the exam for the particular course. The grades U and W will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations as per the Regulations.

If the grade U is given to **Theory Courses/ Laboratory Courses** it is **not required to satisfy the** attendance requirements (vide clause 11), but has to appear for the end semester examination and fulfil the norms specified in clause 14 to earn a pass in the respective courses.

If the grade U is given to **EE course (except Project Work), which are evaluated only through internal assessment**, the student shall register for the course again in the subsequent semester, fulfil the norms as specified in clause 17.12 to earn pass in the course. However, attendance requirement need not be satisfied.



### 20.2 Relative Grading

For those students who have passed the course (theory course / laboratory integrated courses / theory integrated courses / all other EE 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 EE Courses). If the students' strength is greater than 30, the relative grading method shall be adopted.

### 20.3 Absolute Grading

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 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 in the Table below irrespective of the number of students who have passed the course.

**Table – Grade range for absolute grading**

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

**20.4** For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / NSO / YRC / Science club / Literary Club/ Fine Arts Club, a 'completed' remark will appear in the Grade Sheet on successful completion of the same. Every student shall put in a minimum of 75% attendance in the training and attend the camp or events of the clubs compulsorily. The training and camp or club events 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 subsequent years. Successful completion of any one of the above co-curricular activities is compulsory for the award of degree.

**20.4** The grades O, A+, A, B+, B, C obtained for the one/two credit course (not the part of curriculum) shall figure in the Grade Sheet under the title 'Value Added Courses/



**Internship/ Industrial training'**. The courses for which the grades obtained are U, SA will not figure in the Grade Sheet.

**20.5** For the students who complete the Mandatory Course satisfying attendance requirement, the title of the Mandatory Course will be mentioned in the Grade Sheet.

**20.6 Procedure to drop Professional Elective / Open Elective course(s) and computation of Grade point**

A student may accumulate up to 6 credits through such courses, and such credits will be considered in lieu of the Professional Elective and/or Open Elective courses.

In this regard, a student is permitted to drop either 1 or 2 Professional Elective / Open Elective course(s) as per the procedure given below.

**Table: Procedure to drop Professional Elective / Open Elective course(s)**

No. of courses	Total No. of credits earned	Courses to be printed in the grade sheet	No. of Professional elective/ open elective can be dropped	No. of credits considered for GPA/CGPA calculation
1	2	1	-	-
2	4	2	1	3
3	6	3	2	6

- The credits earned by the student of the successfully completed Skill Based Courses shall be recorded in the grade sheet.
- If a student has not successfully completed the skill-based courses during the semesters V, VI and VII, then the same shall not be recorded in the grade sheet.
- If a student earns 2 credits in Semester V and then enrolls for another 2 credits in Semester VI, then he / she is permitted to drop one Professional elective/ open elective course in Semester VI. Further, if the student earns 4 credits upto Semester VI and enrolls for another 2 credits in Semester VII, then he/she is permitted to drop an additional professional elective/open elective course in the VII semester.
- If the student has enrolled for skill based courses but has not successfully earned 4 or 6 credits and also dropped 1 or 2 PE/OE courses in anticipation of pass, then he/she has to enroll the PE/OE (as the case may be) to meet the total credit requirements to earn the degree.





**Method for computation of Grade point of dropped PE / OE courses**

The method of Computation of Grade point for the dropped PE/OE courses is given below:

1. If a student has successfully completed two Skill Based Courses, then the computation of Grade point for one PE/OE course dropped in lieu of those two skill-based 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:  $(1 \times 5 + 2 \times 10) / 3 = 8.33$ .

One PE/OE course shall be dropped for 3 credits with grade point computed as above.

2. If a student has successfully completed three Skill Based Courses, then the computation of Grade point for dropping two PE/OE in lieu of those three skill-based courses is as follows.

For three courses of two credit each

Computation of Grade point of each of the two dropped PE/OE courses for the calculation of CGPA = Average grade point of three skill-based courses.

Two PE/OE courses shall be dropped of 3 credits each, with grade point computed as above.

**21. Calculation of Grade Point Average (GPA) / Cumulative Grade Point Average (CGPA)**

After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- The college in which the student has studied
- List of courses studied for Hons., minor and any other additional courses in which the student has passed with the grades under the title additional courses.

The Grade Point Average (GPA) for the semester considering only the courses of curriculum (not the additional courses) and

The Cumulative Grade Point Average (CGPA) of all courses registered from first semester onwards considering only the courses of curriculum (not the additional




courses). However, for the students who have successfully completed the requirements of B.E. / B. Tech. (Hons) and B.E. / B.Tech. Minor vide Clause 19, grades scored in the six additional courses shall be taken into account for the computation of CGPA.

During each semester, the list of curricular courses (not the additional courses) registered and the grades scored in each course 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 curricular courses (not the additional 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 in the semester. U grades will be excluded for calculating GPA and CGPA.

$$\text{GPA / CGPA} = \frac{\sum_{i=1}^n C_i \text{ GP}_i}{\sum_{i=1}^n C_i}$$

where  $C_i$  is the number of Credits assigned to the course

$\text{GP}_i$  is the point corresponding to the grade obtained for each course

$n$  is number of all courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

**21.1** If a student study a greater number of professional and open electives than required as per the student's programme curriculum, the calculation of final CGPA shall be as per 4.14.6 and 4.14.7.

**22.2** 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 VIII semester.

**22.3** In the consolidated grade sheet the CGPA earned shall be converted into percentage of marks as follows:

$$\text{Percentage of Marks} = \text{CGPA} \times 10.$$

## 22. AWARD OF THE DEGREE

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

- i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.



- ii. Successfully completed the course requirements, appeared for the End - Semester examinations and passed all the subjects within the period.
- iii. Successfully passed any additional courses prescribed by the Head of the Institution whenever the student is readmitted under Regulations R-2024 from the earlier Regulations.
- iv. Successfully completed the NCC / NSS / NSO / YRC / Science Club / Literature Club / Fine Arts Club requirements.
- v. No disciplinary action pending against the student.
- vi. The award of Degree must have been approved by the Syndicate of the University.

## 22.2 CLASSIFICATION OF THE DEGREE AWARDED

### 22.2.1 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 and 6 semesters in the case of Lateral Entry in the student's First Appearance within **five** years (Four years in the case of Lateral Entry). Withdrawal from examination will not be considered as an appearance.
- Should have secured a CGPA of not less than **8.50**.
- One-year authorized break of study (if availed of) is included in the five years (four years in the case of lateral entry) for award of First class with Distinction.
- Should NOT have been prevented from writing end semester examination due to lack of attendance in any semester.
- A student who satisfies norms given in clause 18 & 19 becomes eligible for classification of the degree with B.E./B.Tech. (Hons) and B.E./B.Tech. minor.

Details are provided in Table

Degree (i)	Duration of the programme (ii)	Duration permitted (iii)	Additional credits above the requirement of curriculum (iv)	CGPA (v)	Pass in (vi)	Break of study (vii)	Prevention to write end semester examination	Withdrawal from writing end semester Examination (viii)
B. E / B. Tech	4 years	5 years	-	8.50	First attempt	One year authorised	Not permitted	Will not be considered



(Regular)						break of study included in the duration permitted (iii)		as an attempt
B. E / B. Tech (Lateral Entry)	3 years	4 years	-	8.50	First attempt	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 (Hons)	3 / 4 years (Lateral Entry/ Regular)	4 / 5 years (Lateral entry/ Regular)	18 credits from the professional elective of the same programme	8.50	First attempt	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)	3 / 4 years (Lateral Entry/ Regular)	4 / 5 years (Lateral entry/ Regular)	18 credits from the professional elective of the other programme	8.50	First attempt	One year authorised break of study included in the duration permitted (iii)	Not permitted	Will not be considered as an attempt

### 22.2.2 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 eight semesters (6 semesters in the case of Lateral Entry) **within five years**. (Four years in the case of Lateral Entry).



- 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 included in the duration of five years (four years in the case of lateral entry) for award of First class.
- Should have secured a CGPA of not less than **6.50**.
- A student who satisfies norms given in clause 18 & 19 becomes eligible for classification of the degree with B.E./B.Tech. (Honours) and B.E./B.Tech. minor.

Details are provided in Table

Degree (i)	Duration of the programme (ii)	Duration permitted (iii)	Additional credits (iv)	CGPA (v)	Pass in (vi)	Break of study (vii)	Prevention to write end semester examination	Withdrawal from writing end semester Examination (viii)
B. E / B. Tech (Regular)	4 years	5 years	-	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 years	4 years	-	6.50	-	One year authorised break of study included in the duration permitted (iii)	Included in the duration permitted (iii)	-
B. E / B. Tech (Hons)	3 / 4 years (Lateral Entry/ Regular)	4 / 5 years (Lateral entry/ Regular)	18 credits from the professional elective of the same programme	7.50	First attempt	One year authorised break of study included in the duration	Not permitted	Will not be considered as an attempt



						permitted (iii)		
B. E / B. Tech (minor)	3 / 4 years (Lateral Entry/ Regular )	4 / 5 years (Lateral entry/ Regular)	18 credits from the professional elective of the other programme	6.50	-	One year authorised break of study included in the duration permitted (iii)	Included in the duration permitted (iii)	-

**22.2.3** Students who pursue B.E./B.Tech. in Regular mode or lateral entry mode or B.E./B.Tech. minor in specialisation of another discipline and who are not covered in clauses 22.1.1 and 19.2.2 and who qualify for the award of the degree (vide Clause 22.1) shall be declared to have passed the examination in Second Class.

**22.2.4** A student who is absent in the End Semester Examination in a course / project work after having registered for the same shall be considered to have appeared in that examination (except approved withdrawal from end semester examinations as per clause 20) for the purpose of classification.

**22.2.5** Student earned additional 18 credits as per Clause 18 & 19, but does not satisfy the conditions mentioned in 22.2.1 or 22.2.2 shall not be awarded B.E./ B.Tech. (Hons.) In such case if the student becomes eligible for First Class, while computing CGPA with the Professional Elective / Open Elective courses with higher grades the student shall be awarded B.E. / B.Tech. in First Class only.

**22.3** A student who is absent in end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification.

#### **22.4 Photocopy / Revaluation**

A student can apply for photocopy of his/her semester examination answer paper in a theory course, as per the guidelines of the CoE, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institution. The answer script is to be valued and justified by a faculty member, who has handled the subject and recommend for revaluation with the 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. Revaluation is not permitted for practical courses and EE courses.

A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

### 22.5 Review

Students not satisfied with Revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institution. Students applying for Revaluation only are eligible to apply for Review.

### 23. ACADEMIC AUDIT

The Head of the Institution shall initiate the academic audit process once in every year, with the coordination and cooperation of the respective Head of the Department, by inviting external expert(s). The Coordinator of Academic audit shall make the arrangements for the conduct of Academic Audit.

Academic audit shall cover (not limited to),

- 23.1 Course delivery and adherence to the course plan, syllabus coverage, quality of question papers used for continuous assessments, end semester examinations, maintenance of laboratory experimental set ups and equipment, practical assignments, mini projects and conduct of practical classes and their evaluation.
- 23.2 Co-curricular and extra-curricular activities available for students.
- 23.3 Academic functioning of the Department encompassing students, faculty and administration covering punctuality, attendance, discipline, academic environment, learning ecosystem, academic achievements and benchmarking.
- 23.4 The quality criteria prescribed by statutory bodies.
- 23.5 Action taken report shall be presented to the Internal Quality Assurance Cell based on audit report for continuous improvement.
- 23.6 Academic documents of UG programmes for a particular batch of students shall be kept in the respective department for a period of TWO years after the end of programme duration.



**24. REVISION**

The Institute may from time-to-time revise, amend or change the Regulations, curriculum, syllabus and scheme of examinations through the Academic Council with the approval of the Governing Body.

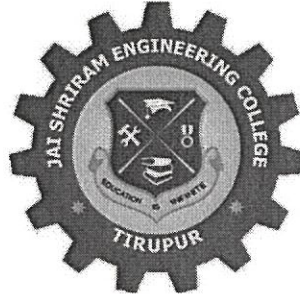




# JAI SHRIRAM ENGINEERING COLLEGE

(An Autonomous Institution Approved by AICTE and Affiliated to Anna University)

TIRUPUR – 638 660



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## REGULATIONS 2024

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**M.E Programme (Full Time)**

**CHOICE BASED CREDIT SYSTEM**

**For the students admitted from the Academic year 2024 - 2025 onwards**



*Prin*

**PRINCIPAL**

**Jai Shriram Engineering College**

**Dharapuram Road,**

**Avinashpalayam, Tirupur-638660. TN.**

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**PRINCIPAL**  
Jai Shriram Engineering College  
Dharapuram Road,  
Avinashipalayam, Tirupur-638660. TN.

**JAI SHRIRAM ENGINEERING COLLEGE :: TIRUPUR – 638 660****(An Autonomous Institution)****REGULATIONS 2024****CHOICE BASED CREDIT SYSTEM****Common to all M.E. Full-Time Degree Programmes****(For the students admitted to M.E. Programme from the Academic year 2024 - 2025 onwards)****1. TITLE**

These Regulations shall be called as 'Academic Regulations 2024'.

**2. SCOPE**

2.1 The regulations are applicable to students admitted into M.E Degree Programmes from the academic year 2024 – 25 and are subjected to amendments as may be decided by the Academic Council of the College from time to time.

2.2 These regulations are quite comprehensive and include definitions of key terms, critical concepts, methods of calculations, roles of various committees, evaluation systems and other academic processes.

**3. DEFINITIONS**

**In this Regulation, unless the context otherwise specifies:**

3.1. "University" means the affiliating university, viz., ANNA UNIVERSITY, CHENNAI

3.2. "Choice-Based Credit System (CBCS)" is a flexible system of learning that permits students to

- a) learn at their convenient pace.
- b) choose electives from a wide range of elective courses offered by the departments.
- c) adopt an inter / trans-disciplinary approach in learning and
- d) make the best use of the expertise of available faculty.

3.3 "Programme" means Post graduate Degree Programme (i.e.) M.E. Degree Programme.

3.4 "Discipline" means Branch or Specialization of M.E. Degree Programme, like Structural Engineering, Applied Electronics, etc.,

3.5. "Semester" means a term of study consisting of a minimum of 90 working days (including examinations), generally with eight 'CONTACT PERIODS' per day. The Semester scheduled between July and December shall be called 'Odd Semester' (I,



III) and that scheduled between January and June, shall be called 'Even semester' (II, IV).

**3.6 "Course"** means a Theory, Theory with Practical and Practical courses etc., that is normally studied in a semester, like Applied Mathematics, Advanced Thermodynamics, etc.,

**3.7 "Contact Periods"** means duration of Lecture, Tutorial, Practical or Project Work, as applicable.

**3.8 "Credit"** means the weightage assigned to a particular course based on the contact periods to teach the prescribed syllabus. One credit is allocated to 15 contact periods for theory and 30 contact periods for practical.

**3.9. "Continuous Assessment"** means evaluation of the students' progress and performance in a course during a semester through various activities such as tests, assignments, quizzes, presentations, practical works, case studies, technology enabled services to community, etc.,

**3.10. "End Semester Examination"** means an examination conducted for a course at the end of the semester to evaluate the student's overall learning achievements.

**3.11 "Head of the Institution"** means the Principal of the College.

**3.12 "Controller of Examinations"** means the Authorised person of the College who is responsible for all activities of End semester examination.

**3.13 "Head of the Department"** means Head of the Department of the programme concerned.

**3.14 "Chairman / BoS"** means Head of the Department concerned.

#### **4. PROGRAMMES OFFERED, MODE OF STUDY AND ADMISSION REQUIREMENTS**

##### **4.1 PG Programmes offered**

- i. M.E. – Applied Electronics
- ii. M.E. – Computer Science and Engineering
- iii. M.E. – Structural Engineering

##### **4.2 Mode of Study**

Students admitted under 'Full-Time' should be available in the College / Institution during the entire duration of working hours (From Morning to Evening on Full-Time basis) for the curricular, co-curricular and extra-curricular activities assigned to them.



The Full-Time students should not attend any other Full-Time programme(s) / course(s) or take up any Full-Time job / Part-Time job in any Institution or Company during the period of the Full-Time programme. Violation of the above rules will result in cancellation of admission to the P.G. programme. However, taking up of job is permitted with authorised break of study as explained in Clause 21.7.

### 4.3 Admission Requirements

4.3.1 Candidates for admission to the first semester of the M.E. Degree Programme shall be required to have passed an appropriate Under-Graduate Degree Examination of Anna University or equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria. This is applicable for students admitted both under Single Window Counselling process and through the Management Quota.

**Note:** TANCA releases the updated criteria during the admissions every academic year.

Admission shall be offered only to the candidates who possess the qualification prescribed against each programme.

Any other relevant qualification which is not prescribed against each programme shall be considered for equivalence by the committee constituted for the purpose. Admission to such degrees shall be offered only after obtaining equivalence to such degrees.

4.3.2 However, the University may decide to restrict admission in any particular year to candidates having a subset of qualifications prescribed at the time of admission.

4.3.3 Notwithstanding the qualifying examination the candidate might have passed, he/she shall have a minimum level of proficiency in the appropriate programme / courses as prescribed by the University from time to time.

4.3.4 Eligibility conditions for admission such as the class obtained, the number of attempts in qualifying examination and physical fitness will be as prescribed by the University from time to time.

## 5. PROGRAMME STRUCTURE

### 5.1 Categorization of Courses

Every Post Graduate Degree Programme will have a curriculum with syllabi consisting of theory, theory with practical and practical courses that shall be categorized as follows:



- 5.1.1 Foundation Courses (FC)** may include Mathematics or other basic courses
- 5.1.2 Professional Core (PC)** Courses include the core courses relevant to the chosen specialization/ branch.
- 5.1.3 Professional Elective (PE)** Courses include the elective courses relevant to the chosen specialization/ branch.
- 5.1.4 Research Methodology and IPR (RM)** covers topics on the process of research and patenting.
- 5.1.5 Employability Enhancement (EE)** Courses include Project Work and/or Internship, Seminar, Professional Practices, Summer Project, Case Study and Industrial / Practical Training.
- 5.1.6 Open Elective (OE)** Courses include the courses credited from other post graduate Programmes of M.E. and online courses.
- 5.1.7 Audit courses (AC)** is a non-credit course offered by the college/ department.

## 5.2 Courses per Semester

Curriculum of a semester shall normally have a blend of lecture courses, lecture with practical and practical courses including Employability Enhancement Courses. Each course shall have credits assigned as per Clause 5.3.

## 5.3 Credit Assignment

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

Contact period per week	No. of Credits
1 Lecture Period	1
1 Tutorial Periods	1
1 Practical Periods (Laboratory / Seminar / Project Work etc.)	0.5

## 5.4 Project Work

- 5.4.1** The project work for M.E. Programmes consists of Project Work–I and Project Work–II. The Project Work–I is to be undertaken during Semester III and Project Work–II, which is a continuation of Project Work–I, (except when project work II is carried out in the industry) is to be undertaken during Semester IV.
- 5.4.2** In case of students of M.E. Programmes not completing Project Work-I of project work successfully, the students can undertake Project Work-I again in the subsequent



semester. In such cases the students can enroll for Project Work-II, only after successful completion of Project Work-I.

**5.4.3** Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means the faculty member possessing (i) PG degree with a minimum of 3 years’ experience in teaching or (ii) Ph.D. degree.

**5.4.4** A student may, however, undergo Project Work-II (M.E. Programme) in industry/ research institutions as specified in the curriculum during the final semester. In such cases, the students shall undergo the Project Work-II with the approval obtained from the Head of the institution preferably one month before the start of the industrial project.

The Project Work-II carried out in industry/ research institutions need not be a continuation of Project Work-I. In such cases, the Project Work shall be jointly supervised by a supervisor of the department and an expert as a joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress.

**5.4.5** The Project Work shall be pursued as per the curriculum during the final semester.

**5.5** The deadline for submission of final Project Report (Project Work-II for M.E. programmes) is 60 calendar days from the last working day of the semester in which project work / thesis / dissertation is done. However, the Project Work-I in the case of M.E. Programmes shall be submitted within the last working day of the semester as per the academic calendar published by the Institution.

## **5.6 Internship**

**5.6.1** The students may undergo Internship for a period as specified in the Curriculum during the summer / winter vacation. In this case, the training has to be undergone continuously for at least two weeks in an organisation.

The students may undergo Internship at a Research organization / University/ Industry after due approval from the Head of the Institution for the period prescribed in the curriculum during the summer / winter vacation, in lieu of Industrial training. The attendance certificate and completion certificate obtained from the industry shall be submitted to the CoE office after getting due approval from the Head of the Institution



within 5 working days from the commencement of III semester. The credits earned shall be reflected on the student's III semester grade sheet.

**5.6.2** If Internship is not prescribed in the curriculum, the student may undergo Internship during Summer/ Winter vacation optionally and the credits earned will be indicated in the Grade Sheet. If the student earns three credits in Internship, the student may drop one Professional Elective (only one professional elective can be dropped). In such cases, Internship need to be undergone continuously from one organization or with a combination one two week and one four week programme, from one/two organizations. However, if the number of credits earned is 1 or 2, these credits shall not be considered for classification of the degree. Students shall get permission from the Head of the Institution for taking internship and the Certificate of completion of Internship shall be forwarded to CoE.

Duration of Training / Internship	Credits
2 Weeks*	1
4 Weeks	2
6 Weeks	3

\*40 Internship hours

**5.7** Instead of two electives (professional elective/open elective) in the curriculum, the student may be permitted to choose a maximum of 2 courses from other PG programmes with the approval of the Head of the Department offering such courses.

### **5.8 Value Added Courses**

- The Students may optionally undergo Value Added Courses (VAC) 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. Courses with two/ three credits shall be offered by a Department of an institution with the prior approval from the Head of the Institution.
- The details of the syllabus, time table and course coordinator may be sent to the CoE after approval from the Head of the Institution.
- Students shall be allowed to take these courses offered in other Departments also, but with the permission of the Head of the Institution of student and Head of the Institution offering the course.






- The courses once approved by the Head of the Institution represented by any Department shall be made available in the Institute website and these courses can be offered by the Institution.

### 5.9 Off campus courses and Transfer of Credits

Students are permitted to optionally enroll and study a maximum of three off campus courses in physical/online/hybrid mode under each programme with the approval of Head of the Department as per the Regulations. The successful completion of these courses through any of the following modes shall be considered in lieu of professional elective / open elective courses of curriculum as approved by the Head of the Institution.

**5.9.1** Students are permitted to optionally enroll and study these courses through SWAYAM / NPTEL platforms and credit transfer is to be done based on the marks and certificate provided by the NPTEL. The number of credits and transfer of credits are based on the procedure explained in Table 1 and the Mapping of the marks with the grades is explained in Table 2. The mapping of marks with grades is applicable, only if the student passes the course as per the guidelines of NPTEL.

**Table 1: Duration of the course and Number of credits**

S. No.	No. of Weeks	No. of Credits
1	4	1
2	8	2
3	12	3
4	16	4

**Table 2: Mapping of Marks scored in NPTEL course and Credits earned**

Letter grade	Marks
O	86 - 100
A+	76 - 85
A	66 - 75
B+	56 - 65
B	50 - 55

**5.9.2** Students are permitted to optionally enroll and study the courses in physical / hybrid / online modes offered by reputed Central / State funded Universities / Institutions which are in the top 20 positions in the latest NIRF ranking and also conducting



examination towards award of marks and grades. (NIRF Ranking of any of the last three years with respect to the year in which course is to be registered; NIRF ranking is based on respective stream for professional elective courses and based on any stream for open elective courses).

Students are also permitted to enroll and undergo such courses in Online mode at Universities abroad in top 500 in QS ranking in the last three years.

Students are also permitted to study courses of a particular semester in a University / Institution abroad based on MoU. A learning agreement shall be evolved to map all the courses offered in the programme and the courses offered in University abroad as per the procedure outlined by the Head of the Institution. The credits earned by the students in the University abroad shall be transferred as per the learning agreement.

In the case of 5.9.2, the students can enroll for the courses with the approval of the Head of the Institution only if the course is offered directly by Institution/ University and not with the edutech platforms.

The marks/credits earned by the student shall be transferred based on the decision of a committee constituted by Head of the Department and approved by the Head of the Institution.

**5.9.3** Students are also permitted to enroll and study the courses in physical/ hybrid mode (not less than 50% in physical mode) that are offered by (i) National/ State funded research institutions /laboratories and (ii) (a) reputed companies (manufacturing or software) related to the programme, and (b) reputed companies involved in transfer of knowledge provided the knowledge transferring company is a spinoff from an Engineering/ Technology practicing Industry and sharing the work experience of the respective industry. The companies mentioned in 5.9.3 (ii) (a) and the company with which the knowledge transfer company associated in the case of 5.9.3 (ii) (b) should have average annual turnover of more than 200 crores over a period of 5 years. However, the academic content and delivery shall be in consonance with the Institute academic standards and norms.

The minimum qualification of the course instructor from the company as mentioned in 5.9.3. (ii) shall be B.E./B.Tech with 10 years of research / industrial experience. Such courses shall be offered through MOU / MOA between Institute and such institutions/organizations/ companies. The design of the courses with regard to the



syllabus content, duration of each course and number of credits offered for each course shall be discussed and recommended by Head of the Institution as per the Regulations.

For the offer of each course under 5.9.3, a course coordinator shall be nominated from the Department who shall also attend such course and shall coordinate the question paper setting and answer script evaluation with the course instructor from research institution/ laboratories/ industry/ company for the continuous assessment and end semester examination conducted by the Institution. The passing requirements are as per regulations.

**5.10** A student is permitted to register a maximum of two courses in total from clause 5.7 and 5.9.

#### **5.11 Audit / Mandatory Courses**

Every student is required to complete audit/ mandatory courses as prescribed in the curriculum. These courses are non-credit courses and their completion status will be mentioned in the grade sheets.

#### **5.12 Medium of Instruction**

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

### **6. DURATION OF THE PROGRAMMES**

**6.1** The minimum and maximum period for completion of the P.G. Programmes is given below:

<b>Programme</b>	<b>Minimum Number of Semesters</b>	<b>Maximum Number of Semesters</b>
M.E. (Full-Time)	4	8

**6.2** The Curriculum and Syllabi of all the P.G. Programmes shall be approved by the Academic Council of the Institution. The number of credits to be earned for the successful completion of the programme shall be as specified in the Curriculum of the respective specialization of the P.G. Programme.

**6.3** Each semester shall normally consist of 90 working days (including examination days) or 540 periods of 50 minutes duration. The Head of the Department shall ensure that




every teacher imparts instruction as per the number of periods specified in the syllabus covering the full content of the syllabus for the course being taught.

For the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 12) by students, following method shall be used.

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{\text{No. of periods / week as prescribed in the curriculum) x 15 taken together for all courses of the semester}} \times 100$$

End Semester Examinations conducted by the Institution will be scheduled after the last working day of the semester.

6.4 The minimum prescribed credits required for the award of the degree shall be within the limits specified below:

Programme	Prescribed Credit Range
M.E.	70 - 75

**7. COURSE REGISTRATION**

**7.1 Flexibility to Drop courses**

7.1.1 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.

7.1.2 From the first to pre-final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses cannot exceed 6 for P.G. (Full Time) programmes. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

7.2 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 7.1).

The registration details of the student shall be approved by the 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.

*Rene*  
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 Avinashipalayam, Tirupur-638660. TN.

**The courses that a student registers in a particular semester may include:**

- i. Courses of the current semester and
- ii. Courses dropped in the lower semesters.

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 (W) courses registered by the student for the appearance of Examination.

## 8. EVALUATION OF PROJECT WORK

The evaluation of Project Work for Project Work-I & Project Work-II in the case of M.E. shall be done independently in the respective semesters and marks shall be allotted as per the weightages given in Clause 8.1.

- 8.1** There shall be three assessments (each 100 marks) during the Semester by a review committee. The student shall make presentation on the progress made before the Committee. The Head of the Institution shall constitute the review committee for each programme. The review committee consists of supervisor, expert from the Department and a project coordinator from the Department. If the project coordinator/expert member happens to be the Supervisor then an alternate member shall be nominated. In the case of project work II carried out in industry/academic/research institutions, the review committee shall have the supervisor, coordinator from industry/academic/research institutions and the project coordinator from the Department. The total marks obtained in the three assessments shall be reduced to 60 marks and rounded to the nearest integer (as per the Table given below). There will be a vice-voce Examination during End Semester Examinations conducted by a Committee consisting of the supervisor, one internal examiner and one external examiner. The internal examiner and the external examiner shall be appointed by the Controller of Examination. The distribution of marks for the internal assessment and End semester examination is given below:

Internal Assessment (60 Marks)			End Semester Examination (40 Marks)			
Review I	Review II	Review III	Thesis submission	Viva - Voce		
			External Examiner	Internal Examiner	External Examiner	Supervisor Examiner
20	20	20	10	10	10	10



**8.2** The Project Report prepared according to approved guidelines as given by the Head of the Institution and duly signed by the supervisor(s) and the Head of the Department concerned shall be submitted to the Head of the Institution.

**8.3** If the student fails to obtain 50% of the internal assessment marks in the Project Work-I and Project Work-II / final project, he/she will not be permitted to submit the project report and has to register for the same in the subsequent semester.

If a student fails to submit the project report on or before the specified deadline as mentioned in clause 5.5, he/she is deemed to have failed in the Project Work and shall register for the same in a subsequent semester. This applies to both for Project Work-I and Project Work-II.

If a student fails in the end semester examinations of Project Work-I, he/she has to resubmit the Project Report within 30 days from the date of declaration of the results. If he / she fail in the End semester examination of Project Work-II of Project work of M.E. he/she shall resubmit the Project Report within 60 days from the date of declaration of the results. The resubmission of a project report and subsequent viva-voce examination will be considered as reappearance with payment of exam fee. For this purpose, the same Internal and External examiners shall evaluate the resubmitted report.

If a student has submitted the project report but did not appear for the viva-voce examination, it will be considered as fail and he/she will be permitted to resubmit the report within 30/60 days from the declaration of results and permitted for reappearance in viva-voce examination, for Project Work-I and II respectively.

**8.3.1** A copy of the approved Project Report after the successful completion of viva-voce examinations shall be kept in the library of the college / institution.

**8.3.2** Practical / Industrial Training, Summer Project if specified in the Curriculum shall not exceed the maximum duration of 4 weeks and should be organized by the Head of the Department for every student.

**8.3.3** At the end of Practical / Industrial Training, Summer Project, the student shall submit an Attendance certificate from the organization where he/she has undergone training and also a brief report. The evaluation for 100 marks will be carried out internally based on this report and a viva-voce Examination will be conducted by a Departmental Committee constituted by the Head of the Institution. The attendance certificate



submitted by the students shall be attached to the mark list sent by the Head of the Department to the Controller of Examination.

## 9. CLASS ADVISOR

There shall be a class advisor for each class. The class advisor will be one among the (course-instructors) of the class. He / She will be appointed by the Head of the Department concerned. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the HoD and the students of the respective class.
- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

## 10. CLASS COMMITTEE

**10.1** A Class Committee consists of teachers of the concerned class, student representatives and a chairperson who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include:

- Solving problems experienced by students in the class room and in the laboratories.
- Clarifying the regulations of the programme and the details of rules therein.
- Informing the student representatives, the "academic schedule" including the dates of assessments and the syllabus coverage for each assessment period.
- Informing the student representatives, the details of regulations regarding the weightage used for each assessment. In the case of practical courses (laboratory / project work / seminar etc.) the breakup of marks for each experiment/ exercise/ module of work, should be clearly discussed in the class committee meeting and informed to the students.



- Analyzing the performance of the students of the class after each test and finding the ways and means of improving the performance of the students.
- Identifying the slow learners, if any, in any specific subject and requesting the teachers concerned to provide some additional help or guidance or coaching to such students as frequently as possible.

**10.2** The class committee for a class under a particular programme is normally constituted by the Head of the Department. However, if the students of different programmes are mixed in a class, the class committee is to be constituted by the Head of the Institution.

**10.3** The class committee shall be constituted within the first week of each semester.

**10.4** At least 2 student representatives (usually 1 boy and 1 girl) shall be included in the class committee.

**10.5** The chairperson of the class committee shall invite the Class advisor(s) and the Head of the Department to the meeting of the class committee.

**10.6** The Head of the Institution may participate in any class committee of the institution.

**10.7** The Chairperson of the Class Committee is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate among the concerned students and teachers. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the management by the Head of the Institution.

**10.8** The first meeting of the class committee shall be held within one week from the date of commencement of the semester in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held at suitable intervals. During these meetings the student members, representing the entire class, shall meaningfully interact and express the opinions and suggestions of the class students to improve the effectiveness of the teaching-learning process.

## **11. COURSE COMMITTEE FOR COMMON COURSES**

Each common course offered to more than one group of students shall have a “Course Committee” comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether





all the teachers teaching the common course belong to a single department or to several departments. The 'Course Committee' shall meet as often as possible and ensure uniform evaluation of the tests and arrive at a common scheme of evaluation for the tests. Wherever it is feasible, the course committee may also prepare a common question paper for the Assessment Test(s).

## 12. ATTENDANCE REQUIREMENTS

**12.1** A student who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for completion of a semester.

Ideally every student is expected to attend all classes and earn 100% attendance. However in order to allow provision for certain unavoidable reasons such as prolonged hospitalization / accident / specific illness the student is expected to earn a minimum of 75% attendance to become eligible to write the End-Semester Examinations.

Therefore, every student shall secure not less than 75% of overall attendance in that semester as per clause 6.3.

**12.2** However, a student who secures overall attendance between 65% and 74% in that current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examinations subject to the condition that the student shall submit the medical certificate / sports participation certificate to the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.

**12.3** Students who could secure less than 65% overall attendance will not be permitted to write the end-semester examination of that current semester and are not permitted to go to next semester. They are required to repeat the incomplete semester in the next academic year.

## 13. TEACHING AND EVALUATION

For all theory, laboratory courses, theory courses with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below:

### 13.1 Theory Courses

Two assessments each carrying 100 marks shall be conducted during the semester by the Department / College concerned. The total marks obtained in all assessments put together



out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to the two assessments).

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

\*The weighted average shall be converted into 40 marks for internal Assessment.

Two internal assessments will be conducted as a part of continuous assessment. Each internal assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Individual Assignment/Case study/Seminar/Mini project/ any other experiential learning and Test with each having a weightage of 40% and 60% respectively. The tests shall be in written mode. The total internal assessment marks of 200 shall be converted into a maximum of 40 marks and rounded to the nearest integer.

### 13.2 Laboratory Courses

The maximum marks for Internal Assessment shall be 60 in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Internal Assessment (100 Marks) *	
Evaluation of Laboratory Observation and Record	Test
75	25

\* Internal assessment marks shall be converted into 60 marks

### 13.3 Theory Courses with Laboratory Component/ Laboratory Courses with Theory Component

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.

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

The procedure for the conduct of internal assessments for theory and laboratory components shall be as per the clause 13.1 and 13.2 respectively.

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

#### 13.4 Other Employability Enhancement Courses

- (a) The Seminar / Case study / Mini project course is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar marks can be equally apportioned. A three member committee appointed by Head of the department consisting of course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. 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 shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical training / Internship / Summer Project, the candidate shall submit an attendance certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a viva-voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution consisting of course coordinator and two experts from the Department. The certificates submitted by the candidate shall be attached to the mark list sent by the Head of the Department.



- (c) For all the courses under Employability Enhancement Courses Category, except the Project Work, the evaluation shall be done with 100% internal marks and as per procedure described in 13.4 (a/b).

### 13.5 Assessment for Value Added Course

The value-added course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the Head of the Institution shall do the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations. The grades earned by the students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA.

- 13.6 Internal marks approved by the Head of the Institution shall be displayed by the respective HoDs within 5 days from the last working day.

- 13.7 Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topics covered), separately for each course. 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 records of test marks and attendance. The Head of the department will put his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the institution who will keep this document in safe custody (for five years). The Head of the Institution or any inspection team appointed by the Head of the Institution may inspect the records of attendance and assessments of both current and previous semesters.

### 13.8 Academic Audit

Academic Audit is to be done for every course taught during the semester. For the internal assessments conducted for each course as per details provided in Clause 13, the academic records shall be maintained in the form of documentation for the individual assignments



/ case study report / report of mini project submitted by each student and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses students' record shall be maintained. Further, the attendance of all students shall be maintained as a record.

The Head of the Institution shall arrange to conduct the Academic Audit for every course in a semester by forming the respective committees through Internal Quality Assurance Cell of the college. The Head of the Institution or any inspection team appointed by the Head of the Institution may verify the records of Academic Audit report of the courses of both current and previous semesters, as and when required.

#### **14. REQUIREMENTS FOR APPEARING FOR THE SEMESTER EXAMINATION**

**14.1** A student shall normally be permitted to appear for the End Semester examinations of the current semester if he/she has satisfied the semester completion requirements as per clause 12.1 & 12.2 and has registered for examination in all courses of the current semester.

**14.2** Further, examination registration by a student is mandatory for all the courses in the current semester and all arrear(s) course(s) for the End Semester examinations failing which, the student will not be permitted to move to the higher semester.

**14.3** A student who has passed all the courses prescribed in the curriculum for the award of the degree shall not be permitted to re-enroll to improve his/her marks in a course or the aggregate marks / CGPA.

#### **15. END SEMESTER EXAMINATIONS**

**15.1** There shall be an End-Semester Examination of 3 hours duration in each lecture based course.

The examinations shall ordinarily be conducted between October and December during the odd semesters and between April and June in the even semesters.

For the practical examinations (including project work), both internal and external examiners shall be appointed by the CoE.

#### **15.2 Weightage**

The following will be the weightage for different courses:



i) Lecture or Lecture cum Tutorial based course	
Internal Assessment	40%
End Semester Examination	60%
ii) Laboratory based courses	
Internal Assessment	60%
End Semester Examination	40%
iii) Project work	
Internal Assessment	60%
Evaluation of Project report by External examiner	10%
Viva-Voce Examination	30%
iv) Industrial training/Internship/ Practical training / Summer project / Seminar (All Employability Enhancement Courses except Project Work)	
Internal Assessment	100%

## 16. PASSING REQUIREMENTS

**16.1** A student 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 both theory and laboratory courses (including project work).

**16.2** If a student fails to secure a pass in a theory course (except electives)/ laboratory courses, the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination) as per clause 16.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester examinations alone.

**16.3** If the course, in which the student has failed, is a professional elective or an open elective, the student may be permitted to complete the same course. In such case, the internal assessment marks obtained by the candidate in the first appearance shall be



retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 16.1, then the candidate shall be declared to have passed the examination if he/she secure a minimum of 50% marks prescribed for the university end semester examinations alone.

If any other professional elective or open elective course is opted by the student, the previous registration is cancelled and henceforth it is to be considered as a new professional elective or open elective course. The student has to register and attend the classes, earn the continuous assessment marks, fulfill the attendance requirements as per Clause 10 and appear for the end semester examination.

**16.4** If a student is absent during the viva voce examination, it would be considered as fail.

If a student fails to secure a pass in project work even after availing clause (8.3), the student shall register for the course again.

**16.5** The passing requirement for the courses which are assessed only through purely internal assessment (EE courses except project work), is 50% of the internal assessment marks only.

**16.6** A student can apply for revaluation of his/her semester examination answer paper in a theory course as per the guidelines of CoE, on payment of a prescribed fee along with prescribed application to the CoE through the Head of the Institution. The CoE will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institution. Revaluation is not permitted for laboratory course and EE courses.

## **17. AWARD OF LETTER GRADES**

**17.1** 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:

Letter grade	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
SA (Shortage of Attendance)	0
W (Withdrawal)	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”. ‘SA’ denotes shortage of attendance (as per clause 12.3) and hence Prevention from writing the end semester examinations. ‘SA’ will appear only in the result sheet.

“U” denotes that the student has failed to pass in that course. “W” denotes withdrawal from the exam for the particular course. The grades U and W will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations as per the Regulations.

If the grade U is given to Theory Courses/ Laboratory Courses it is not required to satisfy the attendance requirements (vide clause 12), but has to appear for the end semester examination and fulfil the norms specified in clause 16 to earn a pass in the respective courses. If the grade U is given to Project work, the course has to be registered again and attendance requirement (vide clause 12) should be satisfied.

If the grade U is given to EE course (except project work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester fullfill the norms as specified in Clause 16 to earn pass in the course. However, attendance requirement need not be satisfied.

#### 17.1.1 Relative grading

For those students who have passed the course (theory course / laboratory integrated courses / theory integrated courses / all other EE 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 EE Courses). If the students’ strength is greater than 30, the relative grading method shall be adopted.





**17.1.2 Absolute grading**

- In all the courses, for those students who have passed the course, if their strength is less than or equal to 30 then 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 in the Table below irrespective of the number of students who have passed the course.

**Table – Grade range for absolute grading**

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

**17.2** The grades O, A+, A, B+, B, C obtained for the one/two credit courses (not part of curriculum) under the title ‘Value Added Courses’ and ‘internship/industrial training’ (if not part of curriculum) shall figure in the Grade Sheet. For these courses if the grades obtained are U, SA, it will not figure in the Grade Sheet.

**17.3** For the students who complete the Audit Course satisfying attendance requirement, the title of the Audit Course will be mentioned in the Grade Sheet. If the attendance requirement is not satisfied, it will not be shown in the Grade Sheet.

**17.4 Grade Sheet**

After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- The college in which the student has studied.
- 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 enrolled from first semester onwards.

GPA for a semester is the ratio of the sum of the products of the number of credits acquired for courses and the corresponding points to the sum of the number of credits acquired for the courses in the semester. CGPA will be calculated in a similar manner, considering all the courses registered from first semester. RA grades will be excluded for calculating GPA and CGPA.



$$\text{GPA / CGPA} = \frac{\sum_{i=1}^n C_i \text{ GP}_i}{\sum_{i=1}^n C_i}$$

where

$C_i$  is the number of credits assigned to the course

$\text{GP}_i$  is the Grade point corresponding to the grade obtained for each Course

$n$  is number of all Courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

#### 17.4.1 Grade sheet

In the consolidated grade sheet the CGPA earned shall be converted into percentage of marks as follows:

Percentage of Marks = CGPA  $\times$  10.

### 18. ELIGIBILITY FOR THE AWARD OF THE DEGREE

18.1 A student shall be declared to be eligible for the award of the M.E Degree provided the student has

- i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- ii. Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 4 semesters within a maximum period of 4 years reckoned from the commencement of the first semester to which the student was admitted.
- iii. Successfully passed any additional courses prescribed by Principal based on curriculum and syllabi of the specific programme whenever readmitted under regulations other than R- 2024
- iv. No disciplinary action pending against the student.
- v. The award of Degree must have been approved by the Syndicate of the University.

### 19. CLASSIFICATION OF THE DEGREE AWARDED

#### 19.1 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 four semesters in the student's First Appearance within **three** years, which includes authorised break of study of one year (if availed). Withdrawal from examination (vide Clause 20) will not be considered as an appearance.
- 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.

### 19.2 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 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).
- Should have secured a CGPA of not less than **6.50**.

### 19.3 Second Class

All other students (not covered in clauses 19.1 and 19.2) who qualify for the award of the degree (vide Clause 19.1) shall be declared to have passed the examination in **Second Class**.

19.4 A student who is absent in End Semester Examination in a course / project work after having registered for the same shall be considered to have appeared in that examination (except approved withdrawal from end semester examinations as per clause 20) for the purpose of classification.

### 19.5 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 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

reevaluation and the results will be intimated to the student concerned through the Head of the Institutions. Reevaluation is not permitted for practical courses and for EE courses. A student can apply for reevaluation of answer scripts for not exceeding 5 subjects at a time.

### 19.6 Review

Students not satisfied with Reevaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to Controller of Examinations through the Head of the Institution.

Students applying for Reevaluation only are eligible to apply for Review.

## 20. PROVISION FOR WITHDRAWAL FROM EXAMINATION

**20.1** A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Head of the Institution) be granted permission to withdraw from appearing for the End Semester Examination in any course or courses in **ANY ONE** of the semester examinations during the entire duration of the degree programme. The application shall be sent to CoE through the Head of the Institutions with required documents.

**20.2** Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 12) and if it is made within TEN days after the date of the examination(s) in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations. For a student to withdraw from a course / courses, he/she should have registered for the course, fulfilled the attendance requirements (vide clause 12) and earned continuous assessment marks. Notwithstanding the requirement of mandatory 10 days' notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

**20.3** In case of withdrawal from a course / courses, it will figure both in Marks Sheet as well as in Result Sheet. However, withdrawal shall not be considered as an appearance for the eligibility of a student for First Class with Distinction.



**20.4** If a student withdraws from writing end semester examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the end semester examination(s).

**20.5** If a student applies for withdrawal from Project work, he/she will be permitted for the withdrawal only after the submission of project report before the deadline. However, the student may appear for the viva voce examination within 30/60 days after the declaration of results for Project Work I and II respectively and the same is not considered as reappearance.

**20.6** Withdrawal is permitted for the end semester examinations in the final semester, as per clause 19.1.

## **21. BREAK OF STUDY**

**21.1** A student is permitted to avail authorised break of study for a maximum period of one year in a single spell.

**21.2** 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 Institution, 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.

**21.3** A student is permitted to rejoin 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 rejoining in new Regulations shall apply to the Controller of Examinations in the prescribed format through the Head of the Department at the beginning of the readmitted semester itself for prescribing additional/equivalent courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in- force and the old curriculum.



- 21.4** The authorized break of study of maximum of one year is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 19.1).
- 21.5** The total period for completion of the Programme reckoned from, the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 6.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 21.6** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 21.1).
- 21.7** If a student in Full Time mode wants to take up job / start-up / entrepreneurship during the period of study he/she shall apply for authorised break of study for one year. The student shall undertake the job / start-up / entrepreneurship only after getting approval of the same by the Head of the Institution with due proof to that effect.
- 21.8** No fee is applicable to students during the Break of Study period.

## **22. DISCIPLINE**

- 22.1** Every student is required to observe disciplined and decorous behaviour both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the College. The Head of Institution shall constitute a disciplinary committee consisting of Head of Institution, Two Heads of Department of which one should be from the faculty of the student, to enquire to take suitable disciplinary action.
- 22.2** If a student indulges in malpractice in any of the End semester / internal examination he / she shall be liable for punitive action as prescribed by the College from time to time.

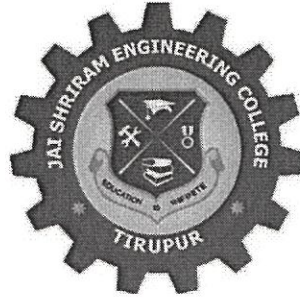
## **23. REVISION**

The College may from time-to-time revise, amend or change the Regulations, scheme of Examinations and syllabi if found necessary through the Board of Studies and Academic Council of the College and implement either in retrospective or prospective manner as decided by the Academic Council.

# JAI SHRIRAM ENGINEERING COLLEGE

(An Autonomous Institution Approved by AICTE and Affiliated to Anna University)

**TIRUPUR – 638 660**



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## REGULATIONS 2024

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**M.B.A Programme (Full Time)**

**CHOICE BASED CREDIT SYSTEM**

**For the students admitted from the Academic year 2024 - 2025 onwards**

*A.M.*

*Rene*

**PRINCIPAL**

Jai Shriram Engineering College  
Dharapuram Road,  
Avinashipalayam, Tirupur-638660. TN.

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*R. S.*

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**JAI SHRIRAM ENGINEERING COLLEGE :: TIRUPUR – 638 660**  
(An Autonomous Institution)

**M.B.A REGULATION 2024**  
**CHOICE BASED CREDIT SYSTEM**

(For the students admitted to M.B.A Programme from the Academic year 2024 - 2025 onwards)

**1. TITLE**

These Regulations shall be called as 'Academic Regulations 2024'.

**2. SCOPE**

- 2.1** The regulations are applicable to students admitted into M.B.A Degree Programmes from the academic year 2024 – 25 and are subjected to amendments as may be decided by the Academic Council of the College from time to time.
- 2.2** These regulations are quite comprehensive and include definitions of key terms, critical concepts, methods of calculations, roles of various committees, evaluation systems and other academic processes.

**3. DEFINITIONS**

**In this Regulation, unless the context otherwise specifies:**

**3.1. "University"** means the affiliating university, viz., ANNA UNIVERSITY, CHENNAI

**3.2. "Choice-Based Credit System (CBCS)"** is a flexible system of learning that permits students to

- a) learn at their convenient pace.
- b) choose electives from a wide range of elective courses offered departments.
- c) adopt an inter / trans-disciplinary approach in learning and
- d) make the best use of the expertise of available faculty.

**3.3 "Programme"** means Post Graduate Degree Programme (i.e.) Programme.

**3.4 "Specialisation"** means a discipline of the Post Graduate Degree Programme in Marketing, Finance, HR, etc.



- 3.5. “Semester”** means a term of study consisting of a minimum of 90 working days (including examinations), generally with eight ‘CONTACT PERIODS’ per day. The Semester scheduled between July and December shall be called ‘Odd Semester’ (I, III) and that scheduled between January and June, shall be called ‘Even semester’ (II, IV).
- 3.6 “Course”** means a Theory, Theory with Practical and Practical courses etc., that is normally studied in a semester, like Business Research Methods, Marketing Management etc.,
- 3.7 “Contact Periods’** means duration of Lecture, Tutorial, Practical or Project Work, as applicable.
- 3.8 “Credit”** means the weightage assigned to a particular course based on the contact periods to teach the prescribed syllabus. One credit is allocated to 15 contact periods for theory and 30 contact periods for practical.
- 3.9. “Continuous Assessment”** means evaluation of the students’ progress and performance in a course during a semester through various activities such as tests, assignments, quizzes, presentations, practical works, case studies, technology enabled services to community, etc.,
- 3.10. “End Semester Examination”** means an examination conducted for a course at the end of the semester to evaluate the student’s overall learning achievements.
- 3.11 “Head of the Institution”** means the Principal of the College.
- 3.12 “Controller of Examinations”** means the Authorised person of the College who is responsible for all activities of End semester examination.
- 3.13 “Head of the Department”** means Head of the Department of the programme concerned.
- 3.14 “Chairman / BoS”** means Head of the Department concerned.
- 4. PROGRAMMES OFFERED, MODE OF STUDY AND ADMISSION REQUIREMENTS**

**4.1 PG Programmes offered**

M.B.A – Master of Business Administration



## 4.2 Mode of Study

Students admitted under 'Full-Time' should be available in the College / Institution during the entire duration of working hours (From Morning to Evening on Full-Time basis) for the curricular, co-curricular and extra-curricular activities assigned to them.

The Full-Time students should not attend any other Full-Time programme(s) / course(s) or take up any Full-Time job / Part-Time job in any Institution or Company during the period of the Full-Time programme. Violation of the above rules will result in cancellation of admission to the P.G. programme. However, taking up of job is permitted with authorised break of study as explained in Clause 21.7.

## 4.3 Admission Requirements

**4.3.1** Candidates for admission to the first semester of the Post-Graduate Degree Programme shall be required to have passed an appropriate Under-Graduate Degree **Examination of Anna University** or equivalent as specified under qualification for admission as per the Tamil Nadu single window counselling process. The Govt of Tamil Nadu releases the updated eligibility criteria for the admission. Admission shall be offered only to candidates who possess the qualification prescribed and the eligibility criteria for the programme.

**4.3.2** However, the University may decide to restrict admission in any particular year to candidates having a subset of qualifications prescribed at the time of admission.

**4.3.3** Notwithstanding the qualifying examination the candidate might have passed, he/she shall have a minimum level of proficiency in the appropriate programme / courses as prescribed by the University from time to time.

**4.3.4** Eligibility conditions for admission such as the class obtained, the number of attempts in qualifying examination and physical fitness will be as prescribed by the University from time to time.

## 5. PROGRAMME STRUCTURE

### 5.1 Categorization of Courses

Every Post Graduate Degree Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

**5.1.1 Foundation Courses (FC)** may include Mathematics or other basic courses



**5.1.2 Professional Core (PC)** Courses include the core courses relevant to the chosen specialization/branch.

**5.1.3 Professional Elective (PE)** Courses include the elective courses relevant to the chosen specialization.

**5.1.4 Non-Functional Elective (NE)** Courses include elective courses outside of the area of specialization

**5.1.5 Employability Enhancement (EE)** Courses include Project Work and/or Internship, Seminar, Professional Practices, Summer Project, Case Study and Industrial / Practical Training.

## 5.2 Courses per Semester

Curriculum of a semester shall normally have a blend of lecture courses and practical courses including Employability Enhancement Courses. Each course shall have credits assigned as per clause 5.3.

## 5.3 Credit Assignment

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

Contact period per week	No. of Credits
1 Lecture Period	1
1 Tutorial Periods	1
1 Practical Periods (Laboratory / Seminar / Project Work etc.)	0.5

## 5.4 Project Work

The Project work is an important component of Post - Graduate programmes. The Project Work has to be undertaken in the final semester.

**5.4.1** The Project work for M.B.A shall be pursued for a period of 16 weeks during the final semester, with an additional of maximum 4 weeks for report writing, the total project duration not exceeding 20 weeks.

**5.4.2** The Project work shall be carried out under the supervision of a faculty member in the Department concerned. The faculty member must be possessing a M.B.A. degree (i) with a minimum of 2 years of teaching experience or (ii) Ph.D. degree.




**5.4.3** A student shall be permitted to work on projects in an Industrial/Research Organization, on the recommendations of the Head of the Department. In such cases, the student shall be instructed to meet the supervisor periodically once every week and attend the review committee meetings for evaluating the progress. In case the student is undertaking the project work in the department the student has to report every day to the supervisor either in physical mode or online mode.

**5.4.4** The review meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the Institution and suitable record of the meetings shall be maintained.

**5.5** The deadline for submission of final Project Report is 30 calendar days from the last working day of the semester in which project is done.

### **5.6 Internship**

The students need to undergo Internship for a period of continuous 4 weeks in an organization/ Research organization / Educational institution / industry (after due approval from the Head of the Institution) after the completion of the second semester examination. Students shall get approval from the Head of the Institution and the Certificate of completion of Internship shall be forwarded to CoE.

Attendance Certificate signed by the competent authority of the industry, as per the format provided by Head of the Department shall be submitted to the Head of the Institution. The attendance certificate shall be forwarded to CoE by the Head of the Institution for processing results.

<b>DURATION OF INTERSHIP</b>	<b>CREDITS</b>
4 Weeks*	2

\*1 Week = 40 Internship Hours

**5.7** Instead of Non-functional elective, the student may be permitted to choose ONE course from other PG programmes with the approval of the Head of the Department offering such courses.

### **5.8 Value Added Courses**

The students may optionally undergo Value Added Courses (VAC) over and above the topics covered in the curriculum to obtain practical and industry specific knowledge. The credits earned through the Value-Added Courses shall be over and above the total credit requirements prescribed in the curriculum for the award of the degree. One / Two credit



courses shall be offered by a Department of an institution with the prior approval from the Head of the Institution. The details of the syllabus, time table and course coordinator may be sent to the CoE at least one month before the course is offered for approval. Students can take a maximum of two one credit courses / one two credit course during the entire duration of the Programme.

### 5.9 Online (SWAYAM/ MOOC) Courses

Students may be permitted to undergo Online (SWAYAM/ MOOC) courses with the approval of the Head of the Department concerned and the Head of the Institution. Credits earned through SWAYAM/ MOOC (which are provided with certificate) after due approval shall be considered for the following categories.

#### 5.9.1 Transfer of Credits

Credits earned through SWAYAM/MOOC courses are eligible for transfer of credits provided it is similar/equivalent to the course for which transfer is requested, however it cannot be claimed elsewhere and is restricted to two such courses per semester.

If the credits earned for such courses are

- a. Greater than the credits mentioned in the curriculum only shall be considered
- b. Less than the credits mentioned in the curriculum, it will not be considered for credit transfer, however it shall be considered as additional credits

#### 5.9.2 Additional Credits

However, students who have undergone SWAYAM/ MOOC courses that do not fit into any of the categories mentioned above will be considered as additional credits only. These credits will not be considered for SGPA/CGPA calculation.

#### 5.9.3 Waiver of Elective

Credits earned through SWAYAM / MOOC courses are eligible for waiver of Elective, provided if it hadn't been claimed elsewhere however it is restricted to one such course per semester. The waiver of Elective will be considered for every three credits earned. However, if the credits earned in a single course is more than three, the extra credits earned will not be considered for additional credits. Students who have undergone SWAYAM/MOOC courses that do not fit into any of the categories mentioned above will be considered as additional credits only. These credits will not be considered for SGPA/CGPA calculation.



5.10 A student is permitted to register a maximum of two courses in total from clause 5.7 and 5.9

**5.11 Medium of Instruction**

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

**6. DURATION OF THE PROGRAMMES**

6.1 The minimum and maximum period for completion of the P.G. Programmes is given below:

Programme	Minimum Number of Semesters	Maximum Number of Semesters
M.B.A (Full-Time)	4	8

6.2 The Curriculum and Syllabi of the P.G. Programmes shall be approved by the Academic Council of the institution. The number of Credits to be earned for the successful completion of the programme shall be as specified in the Curriculum of the P.G. Programme.

6.3 Each semester shall normally consist of 75 working days or 540 periods of each 50 minutes duration, for full-time mode of study or 250 periods for part-time mode of study. 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.

For the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 12) by students, following method shall be used.

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{\text{No. of periods / week as prescribed in the curriculum) x 15 taken together for all courses of the semester}} \times 100$$

End Semester Examinations conducted by the Institution will be scheduled after the last working day of the semester.

6.4 The minimum prescribed credits required for the award of the degree shall be within the limits specified below:

Programme	Prescribed Credit Range
M.B.A	90 - 94




## 7. COURSE REGISTRATION

### 7.1 Flexibility to Drop courses

7.1.1 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.

7.1.2 From the first to pre-final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses cannot exceed 6 for M.B.A (Full Time) programmes. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

7.2 The Institution 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 7.1)).

The registration details of the candidates may be approved by the 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

- i. Courses of the current semester.
- ii. Courses dropped in the lower semesters.

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 (W) courses registered by the student for the appearance of Examination.

## 8. EVALUATION OF PROJECT WORK

8.1 The evaluation of project work shall be done as per the weightages given in Table.

There shall be three assessments (each 100 marks) during the Semester by a review committee. The student shall make presentation on the progress made before the Committee. The Head of the Institution shall constitute the review committee for each programme. The review committee consists of supervisor, expert from the Department and a project coordinator from the Department. If the project coordinator/expert member happens to be the Supervisor then an alternate member shall be nominated.

The total marks obtained in the three assessments shall be reduced to 60 marks and rounded to the nearest integer (as per the Table given below). There will be a vice-voce





Examination during End Semester Examinations conducted by a Committee consisting of the supervisor, one internal examiner and one external examiner. The internal examiner and the external examiner shall be appointed by the Controller of Examination. The distribution of marks for the internal assessment and End semester examination is given below:

Internal Assessment (60 Marks)			End Semester Examination (40 Marks)			
Review I	Review II	Review III	Thesis submission	Viva - Voce		
			External Examiner	Internal Examiner	External Examiner	Internal Examiner
20	20	20	10	10	10	10

**8.2** The Project Report prepared according to approved guidelines as given by the Head of the Department and duly signed by the supervisor(s) and the Head of the Department concerned shall be submitted to the Head of the Institution.

**8.3** If the student fails to obtain 50% of the internal assessment marks in the final project, he/she will not be permitted to submit the project report and has to register for the same in the subsequent semester.

If a student 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 register for the same in a subsequent semester.

If a student fails in the end semester examinations of the Final Project work of M.B.A., he/she shall resubmit the Project Report within 30 days from the date of declaration of the results. The resubmission of a project report and subsequent viva-voce examination will be considered as reappearance with payment of exam fee. For this purpose, the same Internal and External examiners shall evaluate the resubmitted report.

If a student has submitted the project report but did not appear for the viva-voce examination it is considered as fail and he/she will be permitted to resubmit the report within 30 days from the declaration of results and permitted for reappearance in viva-voce examination.



**8.3.1** A copy of the approved Project Report after the successful completion of viva-voce examinations shall be kept in the library of the college / institution.

**8.3.2** At the end of Summer Internship, the student shall submit an Attendance certificate from the organization where he/she has undergone training and also a brief report. The evaluation for 100 marks will be carried out internally based on this report and a viva-voce Examination will be conducted by a Departmental Committee constituted by the Head of the Institution. The attendance certificate submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examination.

## 9. CLASS ADVISOR

There shall be a class advisor for each class. The class advisor will be one among the (course-instructors) of the class. He / She will be appointed by the Head of the Department concerned. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the HoD and the students of the respective class.
- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

## 10. CLASS COMMITTEE

**10.1** A Class Committee consists of teachers of the concerned class, student representatives and a chairperson who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include:

- Solving problems experienced by students in the class room and in the laboratories.
- Clarifying the regulations of the programme and the details of rules therein.
- Informing the student representatives, the "academic schedule" including the dates of assessments and the syllabus coverage for each assessment period.



- Informing the student representatives, the details of regulations regarding the weightage used for each assessment. In the case of practical courses (laboratory / project work / seminar etc.) the breakup of marks for each experiment/ exercise/ module of work, should be clearly discussed in the class committee meeting and informed to the students.
- Analyzing the performance of the students of the class after each test and finding the ways and means of improving the performance of the students.
- Identifying the slow learners, if any, in any specific subject and requesting the teachers concerned to provide some additional help or guidance or coaching to such students as frequently as possible.

**10.2** The class committee for a class under a particular programme is normally constituted by the Head of the Department. However, if the students of different programmes are mixed in a class, the class committee is to be constituted by the Head of the Institution.

**10.3** The class committee shall be constituted within the first week of each semester.

**10.4** At least 2 student representatives (usually 1 boy and 1 girl) shall be included in the class committee.

**10.5** The chairperson of the class committee shall invite the Class advisor(s) and the Head of the Department to the meeting of the class committee.

**10.6** The Head of the Institution may participate in any class committee of the institution.

**10.7** The Chairperson of the Class Committee is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate among the concerned students and teachers. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the management by the Head of the Institution.

**10.8** The first meeting of the class committee shall be held within one week from the date of commencement of the semester in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held at suitable intervals. During these meetings the student members, representing the entire class, shall meaningfully interact and express the opinions and suggestions of the class students to improve the effectiveness of the teaching-learning process.



## 11. COURSE COMMITTEE FOR COMMON COURSES

Each common course offered to more than one group of students shall have a “Course Committee” comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The ‘Course Committee’ shall meet as often as possible and ensure uniform evaluation of the tests and arrive at a common scheme of evaluation for the tests. Wherever it is feasible, the course committee may also prepare a common question paper for the Assessment Test(s).

## 12. ATTENDANCE REQUIREMENTS

**12.1** A student who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for completion of a semester.

Ideally every student is expected to attend all classes and earn 100% attendance. However, in order to allow provision for certain unavoidable reasons such as prolonged hospitalization / accident / specific illness the student is expected to earn a minimum of 75% attendance to become eligible to write the End-Semester Examinations.

Therefore, every student shall secure not less than 75% of overall attendance in that semester as per clause 6.3

**12.2** However, a student who secures overall attendance between 65% and 74% in that current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examinations subject to the condition that the student shall submit the medical certificate / sports participation certificate to the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.

**12.3** Students who could secure less than 65% overall attendance and Candidates who do not satisfy the clauses 12.1 & 12.2 will not be permitted to write the end-semester examination of that current semester and are not permitted to go to next semester. They are required to repeat the incomplete semester in the next academic year.



### 13. TEACHING AND EVALUATION

13.1 For all theory, laboratory courses, theory courses with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below:

#### i) THEORY COURSES

Two assessments each carrying 100 marks shall be conducted during the semester by the Department / College concerned. The total marks obtained in all assessments put together out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to the two assessments).

Assessment I (100 Marks)		Assessment II (100 Marks)		Total Internal Assessment
Assignment	Written Test	Assignment	Written Test	
40	60	40	60	200*

Note: Faculty members can choose a common method for evaluating all students under assignment such as case study / seminar / mini project / online certificate courses

\*200 Marks is to be converted into 40 marks for internal Assessment.

Two internal assessments will be conducted as a part of continuous assessment. Each internal assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Individual Assignment/ Case study/ Seminar/ Mini project and Test with each having a weightage of 40% and 60% respectively. The tests shall be in written mode. The total internal assessment marks of 200 shall be converted into a maximum of 40 marks and rounded to the nearest integer.

#### ii) LABORATORY COURSES

The maximum marks for Internal Assessment shall be 60 in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Internal Assessment (100 Marks) *	
Evaluation of Laboratory Observation and Record	Test
75	25



\* Internal assessment marks shall be converted into 60 marks

### iii) OTHER EMPLOYABILITY ENHANCEMENT COURSES

#### (a) Evaluation of Seminar

The Seminar is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar marks can be equally apportioned. A three member committee appointed by Head of the Institution consisting of course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).

#### (b) Evaluation of Summer Internship

Summer internship will comprise of 4 weeks. The students will be working under a department appointed guide. The candidate shall submit an attendance certificate from the organization where he/she has undergone internship and a brief report. The evaluation for 100 marks will be carried out internally based on this report and a Viva-Voce Examination will be conducted by a Departmental Committee constituted by the Head of the Institution. The evaluation will be done as follows: 20 marks for evaluation by the guide, 40 marks for the report and 40 marks for the viva voce examination. Certificates submitted by the students along with the report shall be sent by the Head of the Institution to the Controller of Examination.

#### (c) Evaluation of Creativity and Innovation Laboratory

The creativity and innovation laboratory course are an activity-based course with both theoretical and practical content and is to be considered as purely INTERNAL (with 100% internal marks only). Each student is expected to present seminars and to come out with innovative products or services. This will be evaluated by the faculty member(s) handling the course and the consolidated marks can be taken as the final mark. No end semester examination is required for this course.

### 13.2 Assessment for Value Added Course

The one / two credit course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments shall be conducted during the semester



by the Department concerned. The total marks obtained in the assessments shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the Head of the Institution shall do the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations. The grades earned by the students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA.

### 13.3 Assessment for Online courses

Students may be permitted to credit two online courses (which are provided with certificate), subject to a maximum of six credits. The online course of 3 credits can be considered instead of one elective course. These online courses shall be chosen from the SWAYAM platform, provided the offering organisation 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 organisation. The details regarding online courses taken up by the student and marks/credits earned and the approval for the course shall be sent to the Controller of Examinations in the subsequent semester(s) along with the details of the elective(s) to be dropped.

13.4 Internal marks approved by the Head of the Institution shall be displayed by the respective HoDs within 5 days from the last working day.

13.5 Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topics covered), separately for each course. 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 records of test marks and attendance. The Head of the department will put his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the institution who will keep this document in safe custody (for five years). The Head of the Institution or any inspection team appointed by the Head of



the Institution may inspect the records of attendance and assessments of both current and previous semesters.

### 13.6 Academic Audit

Academic Audit is to be done for every course taught during the semester. For the internal assessments conducted for each course as per details provided in Clause 13, the academic records shall be maintained in the form of documentation for the individual assignments / case study report / report of mini project submitted by each student and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses students' record shall be maintained. Further, the attendance of all students shall be maintained as a record.

The Head of the Institution shall arrange to conduct the Academic Audit for every course in a semester by forming the respective committees through IQAC with an external course expert as one of the members drawn from a Management / Technical institution of repute near the institute.

The Head of the Institution or any inspection team appointed by the Head of the Institution may verify the records of Academic Audit report of the courses of both current and previous semesters, as and when required.

## 14. REQUIREMENTS FOR APPEARING FOR SEMESTER EXAMINATION

14.1 A candidate shall normally be permitted to appear for the End Semester examinations of the current semester if he/she has satisfied the semester completion requirements as per clause 12.1 & 12.2 and has registered for examination in all courses of the current semester.

14.2 Further, registration is mandatory for all the courses in the current semester as well as for arrear(s) course(s) for the End Semester examinations failing which, the candidate will not be permitted to move to the higher semester.

14.3 A student who has passed all the courses prescribed in the curriculum for the award of the degree shall not be permitted to re-enrol to improve his/her marks in a course or the aggregate marks / CGPA.





## 15. END SEMESTER EXAMINATIONS

15.1 There shall be an End-Semester Examination of 3 hours duration in each lecture-based course.

The examinations shall ordinarily be conducted between October and December during the odd semesters and between April and June in the even semesters.

For the practical examinations (including project work), both internal and external examiners shall be appointed by the CoE.

## 15.2 WEIGHTAGE

The following will be the weightage for different courses:

i) Lecture or Lecture cum Tutorial based course	
Internal Assessment	40%
End Semester Examination	60%
ii) Laboratory based courses	
Internal Assessment	60%
End Semester Examination	40%
iii) Project work	
Internal Assessment	60%
Evaluation of Project report by External examiner	10%
Viva-Voce Examination	30%
iv) Industrial training/Internship/ Practical training / Summer project / Seminar (All Employability Enhancement Courses except Project Work)	
Internal Assessment	100%

## 16 PASSING REQUIREMENTS

16.1 A student 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 both theory and laboratory courses (including project work).

16.2 If a student fails to secure a pass in a theory course (except electives)/ laboratory courses, the student shall register and appear only for the end semester examination

in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination) as per clause 16.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the end semester examinations alone.

**16.3** If the course, in which the student has failed, is a professional elective or an open elective, the student may be permitted to complete the same course. In such case, the internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 18.1, then the candidate shall be declared to have passed the examination if he/she secure a minimum of 50% marks prescribed for the university end semester examinations alone.

If any other professional elective or open elective course is opted by the student, the previous registration is cancelled and henceforth it is to be considered as a new professional elective or open elective course. The student has to register and attend the classes, earn the continuous assessment marks, fulfill the attendance requirements as per Clause 12 and appear for the end semester examination.

**16.4** If a student is absent during the viva voce examination, it would be considered as fail. If a student fails to secure a pass in project work even after availing clause (8.3), the student shall register for the course again.

**16.5** The passing requirement for the courses which are assessed only through purely internal assessment (EE courses except project work), is 50% of the internal assessment marks only.

**16.6** A student can apply for revaluation of his/her semester examination answer paper in a theory course as per the guidelines of CoE, on payment of a prescribed fee along with prescribed application to the CoE through the Head of the Institution. The CoE will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institution. Revaluation is not permitted for laboratory course and EE courses.



## 17. AWARD OF LETTER GRADES

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:

Letter grade	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
SA (Shortage of Attendance)	0
WD (Withdrawal)	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”.

‘SA’ denotes shortage of attendance (as per clause 12.3) and hence Prevention from writing the end semester examinations. ‘SA’ will appear only in the result sheet.

“U” denotes that the student has failed to pass in that course. “WD” denotes withdrawal from the exam for the particular course. The grades U and W will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations as per the Regulations.

If the grade U is given to Theory Courses/ Laboratory Courses it is not required to satisfy the attendance requirements (vide clause 12), but has to appear for the end semester examination and fulfil the norms specified in clause 16 to earn a pass in the respective courses. If the grade U is given to Project work, the course has to be registered again and attendance requirement (vide clause 12) should be satisfied.

If the grade U is given to EE course (except project work), which are evaluated only through internal assessment, the student shall register for the course again in the subsequent semester fullfill the norms as specified in Clause 16 to earn pass in the course. However, attendance requirement need not be satisfied.




### 17.1.1 Relative Grading

For those students who have passed the course (theory course / laboratory integrated courses / theory integrated courses / all other EE 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 EE Courses). If the students' strength is greater than 30, the relative grading method shall be adopted.

### 17.1.2 Absolute Grading

- For all the courses, if the students' strength is less than or equal to 30 then 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 in the Table.

**Table – Grade range for absolute grading**

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

17.2 The grades O, A+, A, B+, B, C obtained for the one/two credit courses (not part of curriculum) under the title 'Value Added Courses' and 'internship/industrial training' (if not part of curriculum) shall figure in the Grade Sheet. For these courses if the grades obtained are RA, SA then it shall not figure in the Grade Sheet.

17.3 For the students who complete the Audit Course satisfying attendance requirement, the title of the Audit Course will be mentioned in the Grade Sheet. If the attendance requirement is not satisfied, it will not be shown in the Grade Sheet.

### 17.4 GRADE SHEET

After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- The college in which the candidate has studied.
- The list of courses enrolled during the semester and the grades scored.
- The Grade Point Average (GPA) for the semester




- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

GPA for a semester is the ratio of the sum of the products of the number of credits acquired for courses and the corresponding points to the sum of the number of credits acquired for the courses in the semester. CGPA will be calculated in a similar manner, considering all the courses registered from first semester. RA grades will be excluded for calculating GPA and CGPA.

$$\text{GPA / CGPA} = \frac{\sum_{i=1}^n C_i \text{ GP}_i}{\sum_{i=1}^n C_i}$$

where

**C<sub>i</sub> is the number of credits assigned to the course**

**GP<sub>i</sub> is the Grade point corresponding to the grade obtained for each Course**

**n** is number of all Courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

## 18. ELIGIBILITY FOR THE AWARD OF THE DEGREE

**18.1** A student shall be declared to be eligible for the award of the M.B.A. 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, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 4 semesters within a maximum period of 4 years reckoned from the commencement of the first semester to which the candidate was admitted.

## 19. CLASSIFICATION OF THE DEGREE AWARDED

### 19.1 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 four semesters in the student's First Appearance within **three** years, which includes authorised break

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of study of one year (if availed). Withdrawal from examination (vide Clause 18) will not be considered as an appearance.

- 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.

### **19.2 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 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).
- Should have secured a CGPA of not less than **6.50**.

### **19.3 SECOND CLASS:**

All other students (not covered in clauses 18.1) who qualify for the award of the degree (vide Clause 17.1) shall be declared to have passed the examination in **Second Class**.

**19.4** A student who is absent in End Semester Examination in a course / project work after having registered for the same shall be considered to have appeared in that examination (except approved withdrawal from end semester examinations as per clause 20) for the purpose of classification.

### **19.5 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 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. Revaluation is not permitted for practical courses and for EE courses.



A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

### 19.6 Review

Candidates not satisfied with Revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to Controller of Examinations through the Head of the Institution.

Candidates applying for Revaluation only are eligible to apply for Review.

## 20. PROVISIONS FOR WITHDRAWAL FROM EXAMINATION

**20.1** A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Head of the Institution) be granted permission to withdraw from appearing for the End Semester Examination in any course or courses in **ANY ONE** of the semester examinations during the entire duration of the degree programme. The application shall be sent to CoE through the Head of the Institutions with required documents.

**20.2** Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 12) and if it is made within TEN days after the date of the examination(s) in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations. For a student to withdraw from a course / courses, he/she should have registered for the course, fulfilled the attendance requirements (vide clause 10) and earned continuous assessment marks.

**20.2.1** Notwithstanding the requirement of mandatory 10 days' notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.

**20.3** In case of withdrawal from a course / courses, it will figure both in Marks Sheet as well as in Result Sheet. However, withdrawal shall not be considered as an appearance for the eligibility of a student for First Class with Distinction.

**20.4** If a student withdraws from writing end semester examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the end semester examination(s).



**20.5** If a student applies for withdrawal from Project work, he/she will be permitted only after the submission of project report before the deadline. However, the candidate may appear for the viva voce examination within 30 days after the declaration of results and the same is not considered as reappearance.

**20.6** Withdrawal is permitted for the end semester examinations in the final semester, as per clause 20.1.

## **21. BREAK OF STUDY**

**21.1** A student is permitted to avail authorised break of study for a maximum period of one year in a single spell.

**21.2** 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 Director, Student Affairs 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.

**21.3** The students permitted to rejoin 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 rejoining in new regulations shall register for additional courses, if any, as notified by the Head of the Institution under change of regulations. 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.

**21.4** The authorized break of study of maximum of one year is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 19.1).





- 21.5** The total period for completion of the Programme reckoned from, the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 6.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 21.6** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 21.1).
- 21.7** If a student in Full Time mode wants to take up job / start-up / entrepreneurship during the period of study he/she shall apply for authorised break of study for one year. The student shall undertake the job / start-up / entrepreneurship only after getting approval of the same by Head of the Institution with due proof to that effect.
- 21.8** No fee is applicable to students during the Break of Study period.

## **22. DISCIPLINE**

- 22.1** Every student is required to observe disciplined and decorous behaviour both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the University / College. The Head of Institution shall constitute a disciplinary committee consisting of Head of Institution, Two Heads of Department of which one should be from the faculty of the student, to enquire to take suitable disciplinary action.
- 22.2** If a student indulges in malpractice in any of the End semester / internal examination he / she shall be liable for punitive action as prescribed by the College from time to time.

## **23. REVISION OF REGULATION AND CURRICULUM**

The College may from time-to-time revise, amend or change the Regulations, scheme of Examinations and syllabi if found necessary through the Board of Studies and Academic Council of the College and implement either in retrospective or prospective manner as decided by the Academic Council.