



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

Academic Rules & Regulations Governing the Degree of Bachelor of Engineering. (B.E.)

Under Outcome Based Education (OBE) and
Choice-Based Credit System (CBCS)
(With effect from AY 2023-24)

2023 Scheme

MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE

Autonomous Institute, Affiliated to Visvesvaraya Technological University, Belagavi

(Approved by AICTE, New Delhi & Government of Karnataka)

Accredited by NBA & NAAC

Belawadi, Srirangapatna Taluk, Mandya – 571 477, Karnataka, India



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Preamble:

The quality of Technical Education depends on many factors but largely on –Outcome based socially and industrially relevant curriculum, good quality motivated faculty, teaching learning process, effective industry internship and evaluation of students based on desired outcomes. To regulate, in an orderly manner, the process of admission, registration of students, conduct of classes, teaching-learning, Assessment, Evaluation and Grading processes to award Bachelor of Engineering/ technology degree in the institute, with due consideration to the NEP-2020 policy, and applicable Regulations of UGC and AICTE, in exercise of the powers conferred under clause (j) of Section 12 read with clauses (f) and (g) of sub-section (1) of Section 26 of the University Grants Commission Act, 1956, the Institute hereby makes the following Regulations, namely:-

1. SHORT TITLE, APPLICATION AND COMMENCEMENT

- 1.1. These Regulations may be called the Maharaja Institute of Technology Mysore (An Autonomous Institution affiliated to Visvesvaraya technological University, Belagavi) Regulations, 2023, for the Award of Bachelor of Engineering Degree.
- 1.2. These Regulations shall apply to all B.E/ B.Tech Programmes conducted at the Institute.
- 1.3. They shall come into force with effect from the date of their notification by the Institute.
- 1.4. These Regulations shall be applicable to the batch of students admitted from the academic year 2023-24 and later and will be in force until revised or withdrawn by a notification.

2. DEFINITION OF KEY WORDS:

In these Regulations, unless the context otherwise requires:

- 2.1. **Academic Bank of Credits (ABC):** ABC is a National-level facility that will promote the flexibility of the curriculum framework and interdisciplinary/ Multidisciplinary academic mobility of students across the Higher Educational Institutions in the country with an appropriate “Credit Transfer” mechanism.



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- 2.2. **Academic Year:** Two consecutive semesters (odd followed by an even), including intervening periods constitute one Academic Year.
- 2.3. **Act:** The Visvesvaraya Technological University Act 1994 Including the Amendments Thereon.
- 2.4. **Choice-Based Credit System (CBCS):** The CBCS provides students with choices from the prescribed set of courses viz. Engineering Sciences, Professional Core and Electives, Professional and Open Electives, Non- Credit Mandatory Courses, Internships, and Skill Courses. Under the CBCS, the requirement for awarding a degree or certificate is prescribed in terms of number of credits to be earned by the students.
- 2.5. **University:** Visvesvaraya Technological University (VTU), Belagavi.
- 2.6. **Institute:** Maharaja Institute of Technology Mysore, an Autonomous Institution under the University.
- 2.7. **Course:** Usually referred to as 'subject'/ 'paper' and is a component of a Programme with defined learning objectives, course outcomes and number of credits. The course credits vary depending on the required teaching- learning hours to accomplish the learning outcomes, specified in the course syllabus. A Course may be designed to comprise lectures / tutorials / laboratory work / fieldwork / outreach activities / project work / vocational training / viva- voce / seminars / term papers / assignments / presentations / self-study components etc/, or a combination of some of these.
- 2.8. **Course Code:** An alpha numeric code used to uniquely identify a course in the programmes offered in the institute. Three-digit number used as suffix with the Course Code for identifying the level of the course in the Institute. Digit at hundred's place signifies the semester in which course is offered and the tens place signifies type of course with unit place representing the sequence number in a semester in the Scheme of Teaching and Evaluation.
- 2.9. **Credit:** A unit or weightage by which the Coursework is measured. It represents the number of hours of instructions prescribed per week. One credit is equivalent



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to one hour of lecture or two hours of laboratory / practical Courses / tutorials / fieldwork etc., per week.

2.10. **Credit Point:** This is the product of grade point and number of credits for a Course.

2.11. **Credit Representation:** Refers to the Credit Values for different academic activities considered, as per Table 1. Credits for the Project phases, project viva-voce and internship shall be as specified in the Scheme of Teaching and Examinations.

Table-1: Credit Values

Courses with varying (L:T:P)				Credits (Total)
Lectures (L) (Hours/Week)	Tutorials (T) (Hours/Week)	Laboratory Work (P) (Hours/Week)	Credits (L:T:P)	
3	2	0	3:1:0	4
3	0	2	3:0:1	4
3	0	0	3:0:0	3
2	2	0	2:1:0	3
2	0	2	2:0:1	3
0	0	6	0:0:3	3
1	2	2	1:1:1	3
2	0	0	2:0:0	2
1	2	0	1:1:0	2
1	0	2	1:0:1	2
0	0	4	0:0:2	2
1	0	0	1:0:0	1
0	0	2	0:0:1	1
0	2	0	0:1:0	1
0	0	2	-	-

2.12. **Choice-Based Credit System (CBCS):** The education model refers to customizing the Coursework, Core, Professional Elective, Open Elective, Skill-based ability Enhancement Courses, Non-Credit mandatory Courses, and Internships to provide the necessary support for students to achieve their goals.

2.13. **Continuous Internal Evaluation (CIE) (also known as Formative Assessment):** Refers to the evaluation of student's performance in the course during the teaching-learning process. CIE shall be done by the faculty teaching course and evaluation components may include tests, assignments, group



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discussion, quizzes, course-specific projects, field surveys, Seminars, Alternate Assessment Tool (AATs), etc., conducted during the semester tenure with a weightage for different activities as specified by the Institute.

- 2.14. **Course Evaluation:** This represents the measurement of the impact of the teaching-learning process and offers an opportunity for improving the quality of learning in courses and teaching performance. Courses evaluation is done by adopting different methods such as tests, quizzes, and assignments etc., during the teaching-learning period at the end of some modules or chapters of syllabus contents and at the end of the semester. While the former part of evaluation is called CIE and the latter part of the evaluation is called Semester End Evaluation (SEE).
- 2.15. **Course Registration:** is a formal registration to Courses of study every semester by every student under the supervision of a Mentor (also called faculty Advisor, Counsellors) in the institute to maintain proper records. Registration on the Institute portal is mandatory.
- 2.16. **Cumulative Grade Point Average (CGPA):** This is a measure of the cumulative performance of a student of all semesters and is computed from the 2nd semester onwards. It is a measure of the overall cumulative academic performance of a student over the entire span of the academic programme. CGPA is not an arithmetic mean but a weighted mean. It is also a number that lies between 0 and 10.
- 2.17. **First Attempt:** A student who has studied in a semester and attended any one of the Semester End Examinations of that semester after satisfying attendance and CIE requirements of all the prescribed courses of that semester and has registered for SEE, such an attempt shall be considered the first attempt. Even if the student is absent for all the semester exams after registering for SEE. Such an attempt shall also be considered the first attempt.
- 2.18. **Grade Card:** Refers to the certificate showing the grades earned by a student. A grade card shall be issued to all the registered students after every semester-end



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examination. The grade card shall have the program details (Course code, title, number of credits, grades secured, along with the SGPA of that semester and CGPA (except for the first semester) earned till that semester.

2.19. **Grade Point (GP):** Refers to a numerical weightage allotted to each letter grade on a 10-point scale against a range of percentage of marks secured by students in a course.

2.20. **Letter Grades:** Course Letter Grade (or simply letter grade or grade) is an index of performance of a student in a said course and refers to a qualitative measure of achievement of a student in each course, based on the percentage range of marks secured in CIE and SEE put together or CIE alone. Grades are denoted by letters O, A+, A, B+, B, C, P and F. The rubrics attached to letter grades are as follows:

O: Outstanding,

A+: Excellent,

A: Very Good,

B+: Good,

B: Above Average,

C: Average,

P: Pass and

F: Fail.

Additional letter grades used under special circumstances are,

DX: Attendance below 75%,

AU: Satisfactory in Audit Course,

AB: Absent for the Course,

PP: Passed in Non-credit Course,

NP: Not Passed in Non-Credit Course,

W: Dropped/ withdrawn.

2.21. **Non-Credit Mandatory Courses (NCMC):** In the case of NCMC, students shall attend the classes during the respective semesters to satisfy the attendance



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requirements as well as CIE requirements. In case, any student fails to register for the said course/ fails to secure the minimum of 40% of the prescribed CIE marks, he/she shall be deemed to have not completed the course. In such a case, the student has to fulfil the requirements during subsequent semester/s to appear for CIE. These Courses shall not be considered for CGPA calculation and vertical progression, but completion of the courses shall be mandatory for the award of a degree.

- 2.22. **Major Degree:** A Major Degree will be awarded along with “Honours” distinction if a student completes the specified additional number of credits during the regular programme as per the Regulations governing Honours Degree Programme. A student admitted to the Programme shall be eligible to register to “Honours” programme is he/she fulfills the conditions as per the Regulations.
- 2.23. **Mentor:** A Faculty Advisor allotted by the principal to guide about 15-20 students about their registration to the course and progression in the programme.
- 2.24. **Notification:** A notification issued by the concerned Statutory Officer of the Institute.
- 2.25. **Minor Degree:** A degree along with Minors is awarded in a programme if a student completes the required number of credits of another programme as per the Regulations governing Minor Degree Programme. A student shall be eligible to register to a Minor programme is he/she fulfils the conditions as per the Regulations.
- 2.26. **Multiple Entry and Multiple Exit (MEME):** The multiple entries and exit points in the academic programmes would remove rigid boundaries and create new possibilities for students. To facilitate flexible learning within the stipulated period (eight years for regular students and 06 years for lateral entry students), multiple- entry and multiple-exit options are offered to needy students.
- 2.27. **Passing Standards:** Refers to passing a course only when GP is greater than or equal to 04.
- 2.28. **Principal:** The Head of the Institute.



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- 2.29. Programme: A planned series of events / activities comprising of a combination of courses leading to the award of degree.
- 2.30. **Semester:** one of the two sessions of an Academic year, each session being of sixteen weeks duration (with not less than 90 working days). The odd and even semester shall be as per academic calendar of the institute.
- 2.31. **Semester End Examinations (SEE) (also called Summative Assessment):** Refers to the examinations conducted by the Institute covering the entire syllabus. For this purpose, syllabi shall be modularized, and SEE questions shall be set from each module as specified by the Institute.
- 2.32. **Semester Grade Point Average (SGPA):** It is a measure of academic performance of a student in a semester. It is weighted average or weighted mean of the grade points obtained by a student in the various courses of any semester. It results in a number that lies between 0 and 10. It shall be expressed up to two decimal places.
- 2.33. **Teacher:** A member of the regular faculty at the levels of Professor, or Associate Professor, or Assistant professor, and includes adjunct faculty and faculty on a long-term contract of not less than three years.
- 2.34. **Transcript, Grade Certificate and Grade Card:** Grade card shall be issued to candidates indicating the programme details (Course Code, title, number of credits, grade secured and grade points) for all the registered courses after every semester. On successful completion of all courses/ earning credits, specified in a semester, the grade certificate is issued indicating the programme details along with SGPA of that semester and CGPA earned till that semester. Transcripts to the successful candidates shall be issued after completion of the programme.
- Acronym: 23BEX.X:** 23-refers to the year of “Commencement” of the Regulations; GB- refers to the “Governing Rules” for the “Award of B.E.”, degree; X.X- refers to the “clause” and “sub clause” number.



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REGULATIONS

23BE1.0. TITLE AND DURATION OF THE PROGRAMME

23BE1.1: The Programme of study, which is an undergraduate Programme, shall be called the degree of Bachelor of Engineering/Bachelor of Technology, abbreviated as B.E. followed by specialization indicated within brackets.

23BE1.2: The duration of the Programme for B.E. degree shall be four academic years, organized in eight semesters, with each semester having duration of 16-18 weeks, having provision for Multiple-Entry-Multiple-Exit and award of Honours degree or Minor degrees.

23BE1.3: The annual academic calendar of events in respect of the Programme of study approved by the Academic Council, shall be notified at least a month before the commencement of each academic year. It is mandatory for students/faculty members to strictly adhere to the Academic Calendar for completion of academic activities. Academic Calendar shall be displayed on the Academic Office homepage of the Institute website.

23BE 2.0. ACADEMIC ELIGIBILITY FOR ADMISSION

The rules specified in the following clauses shall be followed for admission to B.E. Programme, but the orders issued from the Government/the regulatory bodies from time to time shall prevail.

23BE2.1. Admissions to I year B.E. Programme- Eligibility

- i) Candidate should have passed in 2nd PUC / 12th Standard / Equivalent Exam with English as one of the languages and obtained a minimum of 45% of marks in aggregate in Physics and Mathematics along with one of the following subjects, namely Chemistry/Biotechnology/Biology/ Electronics/Computer Science (40% for SC, ST, Cat-1, 2A, 2B, 3A and 3B category candidates of Karnataka).
- ii) **For admission under Government Quota (CET Quota):** In addition to Section 6.1(i), candidates should have a qualifying rank in Common Entrance Test (CET) conducted by Karnataka Examination Authority (KEA) for candidates



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of Karnataka domicile.

- iii) **For admission under COMED-K Quota:** In addition to Section 6.1(i), candidates should have a qualifying rank in COMED-K Entrance Test conducted by Karnataka Unaided Private Engineering Colleges Association Authority (KUPECA) for both Karnataka and Non-Karnataka candidates.
- iv) **For admission under Management Quota:** In addition to Section 6.1(i), candidates should have a qualifying rank in either CET or COMED-K or JEE Mains entrance tests.
- v) Candidates, who have passed a qualifying examination other than 2nd PUC of the Pre-University Education Board of Karnataka, must obtain an eligibility certificate for seeking admission to B.E. Degree Programme from the University.
- vi) Further, as and when the government regulations for admission are revised, the same shall be applicable as criteria for admission to the said courses at our autonomous institution.

23BE2.2. Admissions to 2nd Year B.E. Programme (Lateral Entry) - Eligibility

I. Candidates who have passed Diploma:

- i) Candidates should have passed Three year diploma or equivalent examination in the appropriate branch of engineering as recognized by Government/University and secured not less than 45% marks [40 % in case of SC, ST and Backward Classes of Karnataka candidates] taken together in all the subjects of the final year (fifth and sixth semesters).
- ii) Those candidates who have completed Diploma from other than Karnataka state shall provide the Equivalence/ Eligibility Certificate from the Director of Technical Education of the Government.
- iii) Candidates should have a qualifying rank in Diploma Common Entrance Test (DCET) conducted by Karnataka Examination Authority (KEA) for candidates of Karnataka domicile
- iv) Further, as and when the government regulations for admission are revised, the same shall be applicable as criteria for admission to the said courses at our



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autonomous institution.

II. Candidates who have passed B.Sc. Degree:

Candidates should have passed B.Sc. Degree from a recognized University as defined by UGC with at least 45% marks (40% in case of candidates belonging to reserved category) and passed 10+2 examination with Mathematics as a subject.

- i) Further, as and when the government regulations for admission are revised, the same shall be applicable as criteria for admission to the said courses at our autonomous institution.

23BE2.3. Qualification earned from foreign Countries:

With regard to the qualification earned from foreign countries, an equivalence certificate from the Association of Indian Universities/ University is mandatory for admission to B.E. Programme. In case of any dispute about the equivalence in qualification earned from foreign countries, the decision of the University in this regard shall be final and binding on all concerned.

23BE2.3.4 Additional Requirements:

- i) All the Diploma and B.Sc. degree holders seeking admission to lateral entry shall also pass any deficit courses as specified by the Institution before the completion of the degree.
- ii) Further, all the Diploma and B.Sc. degree holder applicants shall also be required to register and pass the non-credit mandatory Mathematics bridge course(s) specified by the Institution, within two year of joining the programme. However, applicants with B.Sc. degree (with Mathematics major) may apply to the Principal seeking exemption from the bridge course.

23BE3.0. CURRICULUM FRAMEWORK AND ACADEMIC PROCESSES

23BE3.1. Semesters - Odd and Even:

The Institution follows the Choice based credit system and the semester scheme. There are two regular semesters in an academic year. There shall be one Odd and Even Semester in an Academic Year, Even followed by ODD.



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23BE3.2. Curriculum:

- Every Programme has a prescribed course structure which, in general terms, is known as the Curriculum or the Courses of Study or the Scheme of Teaching and Evaluation. It prescribes all the courses/ laboratory/ other requirements for the degree and sets out the nominal sequence semester wise.
- It provides the syllabus and a list of text/ reference books (or other learning material sources) for each course. The Courses of Study details are updated every semester and are made available at the Institute website. Curriculum shall also include some Online Courses including SWAYAM and other MOOCs courses, approved by the University. However, selection of such courses, if any, shall always be within prescribed guidelines of the relevant regulatory bodies and the Institute.

23BE3.2.1. Choice Based Credit System (CBCS):

- 1) A certain quantum of academic work, measured in terms of credits, is laid down as the requirement for completion of B.E. degree in the different available specialization areas. A student earns credits by satisfactorily completing courses/other academic activities every semester.
- 2) The credits are distributed semester wise, as prescribed in the Scheme of Teaching and Evaluation for each of the programmes. The courses generally progress in sequences, building competencies as per the course learning outcomes. The positioning of a course indicates certain academic maturity on the part of the students.
- 3) Some courses do, in addition, may specify a grade/pass/exposure for other courses, offered earlier in the programme, as pre-requisites for the course.
- 4) Since the Institute follows the CBCS, the students shall be offered courses as per the Scheme of Teaching and Evaluation, and the students are required to register for the courses of their choice before the beginning of every semester.
- 5) Students are required to follow the semester wise schedule of courses specified in Scheme of Teaching and Evaluation; they do, however, have freedom to follow alternative schedules to optimize their academic profile with additional courses, keeping the requirements for each course in mind. For students with backlog courses,



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such rescheduling may even become necessary. Such departures from suggested schedules need to be done very carefully, and always with guidance from the Mentor.

23BE3.2.2. Types of Courses:

There will be following types of courses in a B.E. programme, namely:

- 1) Humanities and Social Sciences (HS), including Management, Skill enhancement and Economics.
- 2) Basic Sciences (BS) including Mathematics, Physics, Biology and Chemistry.
- 3) Engineering Sciences (ES) including Workshop, Drawing, Basics of Electrical/ Civil/ Mechanical/ Computer Engineering, Materials, and Instrumentation.
- 4) Professional Core Courses (PC): These are the courses to be compulsorily studied by a student as a core requirement to complete the requirements of a programme in a said discipline of study.
- 5) Professional Elective Courses (PE): These are the courses from which a student can choose and study as part of the requirement to complete the programme in a said discipline of study.
- 6) Open Elective Courses (OE): These courses are supportive to the discipline/ providing extended scope/enabling an exposure to some other discipline/ domain and they are chosen from the pool of courses.
- 7) Skill development Courses (SD): These courses will be nurturing student proficiency skills. These courses are offered to achieve the programme outcomes not specifically covered by the other courses.
- 8) Ability Enhancement Courses (AEC): These are the generic skill courses which are basic and needed to all to ensure progression across all careers.
- 9) Non-Credit Mandatory Courses (NCMC): These are courses on peripheral subjects in a programme, wherein familiarity is considered mandatory.
- 10) Project work (PW), Mini Project work (MP), and Internship (IS) are also considered as courses in the programme.

23BE3.2.3. Offering Courses:

The above types of courses in a B.E. programme are offered as follows:



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- 1) Humanities and Social Sciences (HS) courses will have 1 to 3 credits per course.
- 2) Basic Sciences (BS) courses will have 2 to 4 credits per course.
- 3) Engineering Sciences (ES) courses are common across all disciplines and will have 2 to 4 credits per course.
- 4) Professional Core Courses (PC) will have 2 to 4 credits per course.
- 5) Professional Elective Courses (PE) will have 2 to 4 credits per course.
- 6) Open Elective Courses (OE) may have 2 to 4 credits per course.
- 7) Skill development Courses (SD) and may have 1 to 3 credits per course.
- 8) Ability Enhancement Courses (AE) may have 1 to 2 credits per course
- 9) Non-Credit Mandatory Courses (NCMC) require only a pass in each of the specified courses to qualify for the award of the Degree.
- 10) Project work (PW), Mini Project work (MP) and Internship (IS) are offered which may have 10, 3, and 6 credits respectively.

Courses in the above types may be a combination of Lectures, Tutorials and Practical in any combination with suitable credits assigned to them. All the courses registered by a student under any of the above of courses as required for award of the degree shall be considered as heads of passing which shall be Graded according to his/her performance. However, the Non-Credit Mandatory Courses shall be passed by a student for which Grades are not assigned.

The following procedure shall be used for designing and offering the above courses:

The courses for a programme under the following types from (a) to (l) shall be designed within the framework of UGC and AICTE guidelines by the concerned Board of Studies and approved by the Academic Council of the Institute. The number of courses offered in a programme under each of the above types shall be decided as per the curriculum framework specified under clause 23BE3.4.

The list of different types of theory courses and details of the practical courses used in the programmes are given below respectively from (a) to (i) and (j) to (l).

- a) **Basic Science Courses (BS):** Physics, Chemistry, Biology and Mathematics.

These are mandatory for all disciplines



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- b) **Engineering Science Courses (ES):** Workshop, Drawing, and Basics of Electrical/ Electronics/ Civil/ Mechanical/ Computer Engineering, etc. These are mandatory for all disciplines. This includes Emerging Technology course (ET), Programming Language Course (PL).
- c) **Professional Core Courses (PC):** Refers to Professional Core Course Theory. The theory part of the PC shall be evaluated both by CIE and SEE.
- d) **Professional Core Courses (PCL):** Refers to Professional Core Course Laboratory. The practical part shall be evaluated by both CIE and SEE.
- e) **Integrated Professional Core Courses (IPC):** Refers to Professional Core Course Theory Integrated with practical's of the same course. The theory part of the IPC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPC shall be included in the SEE question paper.
- f) **Professional Elective Courses (PE):** A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.
- g) **Open Elective Courses (OE):** Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.



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- h) **Project Work(s) (PW):** These are carried out at the parent Institution or any university / Government recognized organization without affecting the regular class work
- i) **Seminar(s) (SR):** Each student has to present the seminar on specific topic chosen from the relevant field /list provided by the department under the supervision of a faculty coordinator
- j) **Internship(s) (IN):** The internship (a form of experiential / experimental learning) programme not only helps fresh pass-outs in gaining professional know-how, but also benefits corporate sectors. The internship also enhances the employability skills of the student passing out from Technical Institutions.
- k) **Humanities, Social Sciences and Management Courses (HS):** These are mandatory for all disciplines; it includes Management, Skill Enhancement & Ability Enhancement courses (AE).
- l) **Non-Credit Mandatory Courses (NCMC):** These Courses are mandatory, without the benefit of a grade/ credit; passing in each mandatory Course is required to qualify for the award of degree.

The institution shall encourage students to take up,

- An interdisciplinary Research Internship or Industry internship and
- A rural internship, a work-based activity carried out to learn practical experiences in rural areas, for the upliftment of living standards.

With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship in their home town (within or outside the state or abroad), provided favourable facilities are available for the internship and the student remains regularly in contact with the internal guide.

Institute shall not bear any expenses involved in carrying out the internship by students

23BE3.2.4. Audit Courses:

A student desirous of additional exposure to a course, without the rigors of obtaining a good grade, 'audits' a course. The minimum requirement of attendance for an 'Audit Course' is 75%, with any additional requirements as set by the instructor such as submission of



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assignments and minimum performance in some of the in-semester evaluations. Auditing of courses during regular semesters from 3rd semester onwards is permitted under the following conditions:

- 1) Students with CGPA>6.0 will be permitted to ‘Audit’ a course. A course can be audited provided the course is offered in the semester as a credit course for others, and there is no slot clash. Prior permission of the Instructor is required.
- 2) Audit courses would be restricted to a maximum of two (2) courses per student in the entire period of the programme.
- 3) The Course Teacher would award the ‘AU’ grade, if the attendance is satisfactory and additional requirements, as set out by the Course Teacher, are met. If the attendance and performance in additional requirements is not satisfactory, the Course Teacher will award ‘No Grade’. The grade ‘AU’ does not carry any grade points and therefore does not figure in SGPA/ CGPA calculations.
- 4) The course successfully completed in Audit mode will be reflected in the Semester Grade card and the Transcript as Audit Course.

23BE3.3. Prescribed Number of Credits for the Programme

- 1) All courses prescribed by the Institution, except the Non-credit Mandatory courses, shall have credits and be considered as a head of passing for vertical progression. The credits fixed for the courses are awarded to the students on passing the courses registered by him.
- 2) The total number of credits to be earned for the award of B.E. degree by students admitted to the first semester of the four year B.E. programme shall be 160.
- 3) The total number of credits to be earned for the award of B.E. degree by students admitted under lateral entry scheme to the third semester of the four year B.E. programme shall be 120.
- 4) A student shall be awarded B.E. degree with Honours or Minor, if he/she earns a minimum of additional 18 credits, satisfying the conditions specified in “Maharaja Institute of Technology Mysore, (Autonomous Institution Affiliated to VTU), Regulations Governing The Degree of Bachelor of Engineering (B.E.), 2023”



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23BE3.4. Curriculum Framework

The structure of UG programme in Engineering shall have essentially the following types of courses with the breakup of credits as shown against them:

Table 3.4: Credit Breakup for a Programme

Course Category (Abbreviation)	Credit	% of Credit
Basic Sciences Courses (BS)	22	13.75
Engineering Science Courses (ES) & Emerging Technologies (ET), Programming Languages (PLC)	24	15
Professional Core Courses (PC, PCL & IPC)	58	36.25
Professional Elective Courses(PE)	12	7.50
Open Elective Courses(OE)	9	5.62
Project Work(s) (PW)	18	11.25
Seminar(s) (SR), Internship(s) (IN)		
Humanities, Social Sciences and Management Courses (HS) including Ability Enhancement Courses (AE)	17	10.62
Non-Credit Mandatory Courses (NCMC)	Non-credit	0.0
Total	160	100.00

23BE3.5. Scheme of Teaching and Evaluation

1) The Scheme of Teaching and Evaluation shall be framed by distributing the total credits over eight semesters as follows:

Table - 3.5: Semester-wise Allocation of Credits

Year	Semester	Credits	Total Credits	
I	1	20	40	<ul style="list-style-type: none"> • Lecture (L): One hour/week: 1 credit • Tutorial (T): Two hours/week: 1 credit • Practical/Lab/Drawing (P): Two hours/week: 1 credit • Project, Mini-project, Internship: credit as recommended by the University
	2	20		
II	3	22	42	
	4	20		
III	5	22	40	



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	6	18		<ul style="list-style-type: none"> • Credit for the Seminars shall be part of the courses.
IV	7	23	38	
	8	15		
Total		160		

- 2) Course Load: Every student is to register for a set of Courses in each Semester, with the total number of their Credits being limited by considering the permissible weekly Contact Hours (typically: 35 hours/Week); For this, an average Course Load of 18-24 Credits/Semester (e.g., 6-7 Courses) is generally acceptable; to also include 2 or 3 Units of Non-Credit Mandatory Courses in some Semesters.
- 3) Teaching-Learning Process: The theory courses shall be designed to have the syllabus spanning over one semester depending on the credits allocated for them. That is, Four-credit theory courses shall be designed for 55-60 hours of Teaching-Learning process, Three-credit theory courses shall be designed for 40-45 hours of Teaching-Learning process, Two- credit theory courses shall be designed for 25-30 hours of Teaching-Learning process and One credit theory course shall be designed for 15 hours of Teaching- Learning process.
- 4) The Scheme of Teaching and Evaluation provides the list of courses offered in a semester, their types, course credits in L-T-P format and the contact hours. As per this, detailed syllabus content, hour distributions, Text and reference Books, Assessment and Evaluation procedure shall also be provided for all the semesters by the Board of Studies of the respective programmes. A course may include online references and virtual labs as approved by the Institute.
- 5) The composition of courses in the curriculum may be only a theory, a theory with practical or only a practical. These carry separate course codes and each are considered as separate “head of passing”.
- 6) The Syllabus formulated shall be well structured and enable CBCS implementation, provide MEME options and incorporate Outcome Based Education (OBE) framework.



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23BE3.6. Course Registration

- 1) It is mandatory for every student to register for the semester to attend various courses/ earn credits, using the prescribed Course Registration Form (CRF), till he completes his programme. The registration is normally done on the last two working days of each semester upon completion of the SEE. In all circumstances, registration shall be completed on or before the prescribed last date for registration announced in the Academic Calendar.
- 2) **Student Mentoring:** On joining the Institution, a group of students are assigned a Mentor from the concerned department offering the Programme. Students are advised to consult the Mentor on any matter relating to their academic performance and the courses they may register in various semesters. Mentor guides the students to complete their courses of study for the required degree in a smooth and satisfactory manner.
- 3) **Minimum Number of Registrations for Offering a Course:** There is no restriction on minimum registrations in a professional core course. However, the minimum number of students registered to any Professional Elective Course/Open Elective Course/ Ability Enhancement Course (from 3rd semester onward) offered by the Departments shall not be less than ten. In such cases, if the number of registrants for the elective course is less than 10, the department must seek permission from the Dean (academics) within 15 days from the date of commencement of the semester as per the academic calendar of the institute, if that Professional Elective Course/Open Elective Course/ Ability Enhancement Course is to be offered in college.

23BE3.6.1. Course Registration Procedure:

- 1) The procedure involves the following steps:
 - a) A student shall register for required courses each semester with prior permission of the Mentor.
 - b) The student can register for courses he intends to take during a given semester on the basis of his plan for each Programme, as given in the Scheme of Teaching and Evaluation and as per the advice of the Mentor.



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- c) The students shall decide on the courses to be registered during the ensuing semester immediately after their SEE examinations.
- d) The Mentor is expected to discuss with the student his academic performance during the previous semesters and then decide the number and nature of the courses for which the student can register during the semester within the framework of the Regulations.
- e) The Mentor may advise the student to drop one or more courses/activities based on his academic performance. The Mentor may even advise a reduced load program over several semesters for students with poor performance at the end of the first semester/year.
- f) Every student is permitted to register for the courses to an extent subjected the conditions under clause 23BE3.6.2.
- g) Students are not permitted to re-register for a course, which they have already passed.
- h) The student shall fill up the CRF online, stating the courses that they propose to complete during the ensuing semester as per the prescribed curriculum.
- i) They shall take a printout of the completed CRF, take signature of the Mentor and submit to the Dean/ Principal within the date notified by the Institution for registration.
- j) Students having outstanding dues to the Institution, or a hostel may not be permitted to register.
- k) The registration is deemed to be complete only on approval by the Institution.
- l) Without registration, any academic activity (course/seminar etc.) undergone by a student will not be counted towards the requirements of his/her degree.
- m) A student shall exercise the option in respect of a higher semester Professional Elective Course/Open Elective Course/Ability Enhancement Course and register for the same at the end of the previous semester. However, the student may be permitted to opt for a change of Elective Course/s preferably within 15 days from the date of commencement of the semester as per the academic calendar of the Institution.



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23BE3.6.2. Permitted Maximum Credits for Registration:

The student shall be permitted to register in a semester for that number of courses with total credits not exceeding 28. These 28 credits, include Minor/ Honours degree courses, the courses of the regular semester and backlog courses. The registration of these additional credits also includes the courses with a shortage of attendance and the courses with unfulfilled CIE requirements. A student shall pay the prescribed registration fees as notified by the institution from time to time.

23BE3.6.3. Late Registration:

Registration beyond the last date may be permitted only in special cases till the date specified in the Academic Calendar, on payment of a late registration fee.

23BE3.6.4. Registration for Non-credit Mandatory courses:

- a) Formal registration for these courses shall also be done along with other courses, at the beginning of the semesters.
- b) Non-credit requirements are assessed as Pass (PP)/ Not Pass (NP) subject to the fulfillment of the minimum requirements of the specified activities and a minimum of 75% attendance. The award of degree is subject to successful completion of these requirements.
- c) A student will be awarded PP (Pass) grade for the course he is registered for, in that semester, provided the minimum requirement is met during that semester together with attendance criteria.
- d) Not satisfying these requirements will result in a failure grade NP (Not Pass), = and the student has to re-register for the course when offered next in the subsequent semesters and pass within two years. The grades shall be submitted to the University before the commencement of the SEE.

23BE3.6.5. Course substitution:

A student obtaining 'F' grade four times in a course, other than the Professional core courses, is permitted to choose an equivalent course for substitution on approval by the University. The student shall re-register for the new course and complete the course



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requirements subjected to the conditions of clause 23BE5.2. A student shall not be permitted to avail this option beyond a maximum of two courses during the programme.

23BE3.7. Attendance Requirement

All students shall maintain a minimum attendance of 85% in each course registered. In case of shortfall, the concerned **Head of the Department** shall consider and shall condone deficiency up to a limit of 10% in special cases and shall submit a list of such candidates to the office of CoE. However, all the relevant documents pertaining to condonation of attendance shall be maintained by the respective department and produced as and when required by the Institutional authorities. **Any student failing to meet the above standard of attendance in any course(s) registered shall not be allowed to appear for SEE of such course(s).**

- In the event of condonation, the students are not eligible for make-up examination in that course during that semester.
- Attendance at CIE and SEE: Attendance at all examinations, both CIE and SEE of each course registered shall be compulsory for the students and there shall not be any provision for re-examination/consideration.
- Any student against whom any disciplinary action by the College is pending shall not be permitted to attend any SEE in that Semester.
- Each Semester is considered as a unit and the candidate has to put in a minimum attendance of 85% in each course with a provision of condonation of 10% attendance for reasons such as medical emergencies and legitimate grounds.
- The basis for the calculation of the attendance shall be the period prescribed by the College by its calendar of events. For the first semester students, the same is reckoned from the date of admission to the programme.
- The students shall take note of his/her attendance status periodically from the respective faculty and strive to make up the shortage. However, the departments shall periodically announce the attendance status of the students. Non-receipt of such information from the college shall not be considered as valid reason for exemption from the attendance requirements.



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- If a student does not fulfill the attendance requirements in any course, he/she is not permitted to attend the Semester End Examination (SEE) in that course and is deemed to have been awarded “F” grade in that course (option for withdrawal is not available in such cases).

23BE4.0. ASSESSMENT AND EVALUATION PROCEDURE

Formative, Summative and other Assessments shall be conducted as per the Institution calendar of events in all the courses of the programme offered to the students, within the framework of Scheme of Teaching and Evaluation. The Assessment and Evaluation for specific theory and practical courses, including theory question paper setting patterns is recommended by the Board of Studies and is approved by the Institution.

23BE4.1 Assessments and Evaluation Process:

- 1) CIE and SEE constitute the major evaluations prescribed for each course, with only those students maintaining a minimum standard in CIE are permitted to appear in the SEE of the course.
- 2) In such cases where a laboratory is attached to the course, CIE marks shall be awarded separately for both theory and the laboratory. However, the laboratory may or may not have the SEE component in the evaluation.
- 3) In such cases where a laboratory carries more credits and is not part of the theory, they are listed separately in the Scheme of Teaching and Evaluation. Hence, they are treated as separate “heads of passing” which are assessed and evaluated independently.
- 4) CIE and SEE are to carry 50% weightage each, to enable the course to be evaluated for a total of 100 marks, irrespective of its credits.
- 5) The evaluation system of the programme is comprehensive and continuous during the entire period of the Semester, by the faculty who is teaching the course. For a course, the evaluation and grading will be on the following parameters:

A	Continuous Internal Evaluation (CIE)	25 marks
B	Internal Assessment Tests (IAT)	25 marks
Total of CIE (A+B)		50 marks



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C	Semester End Examination (SEE)	50 marks
Total of CIE and SEE (A+B+C)		100 marks

22GB4.2. Continuous Internal Evaluation (CIE)

1) For a theory course, with an L-T-P distribution of L-0-0, the CIE will carry a maximum of 50% weightage of the total marks of a course. Before the start of the Academic session of each semester, a faculty may choose for his course Internal Assessment Test and a minimum of two of the following assessment methods with suitable weightage for each.

- ❖ Assignments (Individual and/or Group)
- ❖ Seminars
- ❖ Oral/Online Quizzes
- ❖ Group Discussions
- ❖ Case studies/Case lets
- ❖ Practical orientation on Design Thinking, Creativity & Innovation
- ❖ Participatory & Industry-integrated learning
- ❖ Practical activities / problem solving exercises
- ❖ Class presentations
- ❖ Analysis of Industry/Technical/Business Reports
- ❖ Reports on Guest Lectures / Webinars / Industrial Visits
- ❖ Industrial / Social / Rural projects
- ❖ Participation in Seminars/ Academic Events/Symposia, etc.
- ❖ Any other academic activity

Assessment and evaluation in specific courses: Computer Aided Engineering Drawing

The CIE marks for CAED course offered In the 1st year shall be assessed as follows:

1. The CIE marks awarded in the case of Drawing shall be based on Weekly evaluation of the classwork (sketching and computer- aided drawing) \with each drawing evaluated as mentioned module wise in the syllabus. The marks (or all the drawing sheets are added and scaled do to 30marks



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2. One class test similar to SEE will be conducted after completion of the syllabus for 100 marks and scaled down to 20Marks.
3. CIE marks (out of 50) scored by the student is the sum of classwork evaluation and test marks.

Continuous Internal Evaluation for Field Work:

Field works include Surveying Practice/ Socio-Economic survey/ Marketing survey/ traffic survey/environmental survey.

Marks distribution for Field Work for CIE

Sl. No.	Description	% of Marks	In Marks
1	Field Work Report Evaluation	80%	40
2	Internal Assessment Test	20%	10
Total		100%	50

- Fieldwork evaluation includes attendance, data collection through survey, use of data for design drawing, and report. The split-up of marks for the report shall be decided by the faculty member who is guiding them for the design drawing and report. The criteria for split-up of marks shall be done to achieve the course outcomes. The report evaluation shall be carried out for 100 marks and scored marks shall be scaled down to 40 marks.
- The assessment shall be through a presentation of the report followed by the viva-voce. This test shall be conducted by the fieldwork project guide and fieldwork coordinator. If the fieldwork coordinator happens to be the same faculty, then, HOD or senior faculty member will conduct the test with the guide. A test similar to SEE shall be conducted for 100 marks and marks scored shall be scaled down to 10 marks.
- The sum of the report and test marks shall be the total CIE marks for fieldwork.

SEE for fieldwork Conducted by the two examiners of the same institute appointed by the COE. Marks distribution for Field Work for CIE

Sl. No.	Description	% of Marks	In Marks
1	Report and Design Drawing	60%	60
2	Viva Voce	40%	40
Total		100%	100

The examination is conducted for 3 hours duration



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CIE for Practical Courses (Experiment Based): 1 Credit Courses

- CIE marks for a practical course shall be 50 marks.
- The split up of CIE marks for record/journal and test to be split in the ratio 60:40
- Record write up for individual experiment will be evaluated for 10 Marks
- Total marks scored for record writing and conduction shall be scaled down to 30 marks (60% of maximum marks)
- One test for 100 marks after the completion of the experiments at the end of the semester

Test

Marks distribution for Experiment based Practical Course for CIE

Sl. No.	Description	% of Marks	In Marks
1	Write-up, Conduction, result and Procedure	60%	60
2	Viva-Voce	40%	40
Total		100%	100

The Test marks should be scaled down to 20marks (40% of the **maximum CIE Lab Marks (50)**)

Final CIE in Practical Course:

Marks distribution for Experiment based Practical Course for Final CIE

Sl. No.	Description	% of Marks	In Marks
1	Scaled Down marks of record/journal	60% of the maximum	30
2	Scaled Down marks of test	40% of the maximum	20
Total		100%	50

CIE for Practical Courses (Program Based): Includes Ability Enhancement Course

Internal test for laboratory course with software experiments shall be conducted for a total of 100 mark at the end the semester and the assessment pattern is

Marks distribution for Program based Practical Course for CIE

Sl. No.	Description	% of Marks	In Marks
1	Observation, write-up, algorithm/program/execution	80% of the maximum	80
2	Viva-Voce	20% of the maximum	20



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Total	100%	100
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Marks scored by the student for 100 are scaled down to 50 marks.

SEE for practical Course (Irrespective of Experiment or program based):

- SEE marks for practical course shall be 50 marks

Marks distribution for Experiment based Practical Course for Final CIE

SL. No.	Description	% of Marks	Marks
1	Write-up, Procedure	20%	20
2	Conduction and result	60%	60
3	Viva-Voce	20%	20
Total		100%	100

- See for practical course is evaluated for 100 marks and scored marks shall be scaled down to 50 marks.
- Change of experiment/program is allowed only once and 20% marks allotted to the procedure/write-up part to be made zero.
- Duration of SEE shall be 3 hours.

Internships: 8 Credits

Internship shall be evaluated as per the following guidelines

Report Evaluation:

The split-up of marks for report evaluation shall be based on

Marks distribution for Internship report Evaluation

Sl. No.	Description	% of Marks	In Marks
1	Report	20%	20
2	Presentation of the Outcomes in the report	40%	40
3	Technical content of the report	40%	40
Total		100%	100

Viva-voce:

The split-up of marks for Viva-voce shall be based on

Marks distribution for Internship Viva-Voce

SL. No.	Description	% of Marks	In Marks
1	Demonstration of skills	50%	50
2	Question-Answer session	40%	40



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3	Clarity in answering the questions	10%	10
Total		100%	100

Final CIE in Internship Course:

Final Internship Marks for CIE

SL. No.	Description	% of Marks	In Marks
1	Report Evaluation	50%	50
2	Viva-Voce	50%	50
Total		100%	100

Seminar: 1 Credit

Seminar shall be evaluated as per the following guidelines

Report Evaluation:

The split-up of marks for report evaluation shall be based on

Seminar report evaluation for CIE

SL. No.	Description	% of Marks	In Marks
1	Report	10%	10
2	Literature Survey	20%	20
3	Technical content of the report	20%	20
Total		100%	50

Viva-voce:

The split-up of marks for Viva-voce shall be based on

Seminar presentation evaluation for CIE

SL. No.	Description	% of Marks	In Marks
1	Seminar Presentation Skill	25%	25
2	Understanding of fundamentals	15%	15
3	Clarity in answering the questions	10%	10
Total		100%	50

Final CIE in Seminar Course:

Final Seminar Marks for CIE

SL. No.	Description	% of Marks	In Marks
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1	Report Evaluation	50%	50
2	Viva-Voce	50%	50
Total		100%	100

Mini Project: 2 Credits

- The CIE marks awarded for mini project shall be based on the evaluation of mini-project work by the guide, report writing and viva-voce in the ratio 50:25:25.
- Marks awarded for the mini Project report shall be the same for all the student of the batch. The faculty guide/mentor guiding the mini project shall evaluate the performance for 50% of the maximum marks of CIE for the report.

Mini Project evaluation for CIE

SL. No.	Description	% of Marks	In Marks
1	Project work by the guide	50%	50
2	Report writing	25%	25
3	Viva-Voce	25%	25
Total		100%	100

Major Project Phase-I: 2 Credits

- The CIE marks awarded for major project phase-I shall be based on the evaluation of project work by the guide, project presentation skill and viva-voce in the ratio 50:25:25.
- Marks awarded for the major project phase-I report shall be the same for all the students of the batch. The faculty guide/mentor guiding the major project phase-I shall evaluate the performance for 50% of the maximum marks of CIE for the report.

Major Project Phase-I report evaluation for CIE

SL. No.	Description	% of Marks	In Marks
1	Project work by the guide	50%	50
2	Report writing	25%	25
3	Viva-Voce	25%	25
Total		100%	100

Major Project Phase-II: 5 Credits

- The CIE marks awarded for major project phase-II shall be based on the evaluation of project work by guide, project presentation skill and viva-voce in the ratio 50:25:25.



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- Marks awarded for the major project phase-II report shall be the same for all the students of the batch. The faculty guide/mentor guiding the major project phase-II shall evaluate the performance for 50% of the maximum marks of CIE for the report.

Major Project Phase-II report evaluation for CIE

SL. No.	Description	% of Marks	In Marks
1	Project work by the guide	50%	50
2	Report writing	25%	25
3	Viva-Voce	25%	25
Total		100%	100

Theory Course with 4 Credits: Profession Core Course (PC)

This section of regulations is applicable to all theory-based courses. The minimum CIE marks requirement is 40% of maximum marks in each component.

CIE Split up for Professional Course (PC)

Components		Number	Weightage	Max. Marks	Min. Marks
(i)	Internal Assessment-Tests (A)	2	50%	25	10
(ii)	Assignments/Quiz/Activity (B)	2	50%	25	10
Total Marks				50	20

$$\text{Final CIE Marks} = (A) + (B)$$

Average internal assessment shall be the average of the 2 test marks conducted.

Theory Course with 3 Credits: Professional Core Course (PC)

This section of regulations is applicable to all theory-based courses. The minimum CIE marks requirement is 40% of maximum marks in each component.

CIE Split up for Professional Course (PC)

Components		Number	Weightage	Max. Marks	Min. Marks
(i)	Internal Assessment-Tests (A)	2	50%	25	10
(ii)	Assignments/Quiz/Activity (B)	2	50%	25	10
Total Marks				50	20

$$\text{Final CIE Marks} = (A) + (B)$$

Average internal assessment shall be the average of the 2 test marks conducted.

Theory Course with 3 Credits: Professional Elective Course (PE)

This section of regulations is applicable to all theory-based courses. The minimum CIE marks requirement is 40% of maximum marks in each component.



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CIE Split up for Professional Elective Course (PE)

Components		Number	Weightage	Max. Marks	Min. Marks
(i)	Internal Assessment-Tests (A)	2	50%	25	10
(ii)	Assignments/Quiz/Activity (B)	2	50%	25	10
Total Marks				50	20

Final CIE Marks = (A) + (B)

Average internal assessment shall be the average of the 2 test marks conducted.

Theory Course with 3 Credits: Open Elective (OE)

This section of regulations is applicable to all theory-based courses. The minimum CIE marks requirement is 40% of maximum marks in each component.

CIE Split up for Open Elective (OE)

Components		Number	Weightage	Max. Marks	Min. Marks
(i)	Internal Assessment-Tests (A)	2	50%	25	10
(ii)	Assignments/Quiz/Activity (B)	2	50%	25	10
Total Marks				50	20

Final CIE Marks = (A) + (B)

Average internal assessment shall be the average of the 2 test marks conducted.

Theory Course with 4 credits: Integrated Professional Core Course (IPC)

CIE Split up for Integrated Professional Core Course (IPC)

Components		Number	Weightage	Max. Marks	Min. Marks
Theory (A)	Internal Assessment-Tests (A)	2	60%	15	06
	Assignments/Quiz/Activity (B)	2	40%	10	04
	Total Marks			100%	25
Components		Number	Weightage	Max. Marks	Min. Marks
Laboratory(B)	Record Writing	Continuous	60%	15	06
	Test at the end of the semester	1	40%	10	04
	Total Marks			100%	25

Final CIE Marks = (A) + (B)

Laboratory-based Ability Enhancement Courses and other courses with 1 Credit:

This section of regulations is applicable to all laboratory-based, activity-based and experiential learning courses viz., Social Innovation, Engineering Exploration, Career Electives (Add-on Courses) etc.



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**Class Work:-A****CIE Split up for Laboratory based Ability Enhancement Course**

SL. No.	Description	% of Marks	In Marks
1	Write-up, Conduction, result and Procedure	60%	30
2	Viva-Voce	40%	20
Total		100%	50

The Test marks should be scaled down to 30marks (60% of the maximum Marks)

Laboratory Test: -B**CIE Split up for Test in Laboratory based Ability Enhancement Course**

SL. No.	Description	% of Marks	In Marks
1	Write-up, Conduction, result and Procedure	60%	30
2	Viva-Voce	40%	20
Total		100%	50

The Test marks should be scaled down to 20marks (40% of the maximum Marks)

Final CIE for Laboratory based Ability Enhancement Course

SL. No.	Description	% of Marks	In Marks
1	Scaled Down marks of record/journal-A	60% of the maximum	30
2	Scaled Down marks of test-B	40% of the maximum	20
Total		100%	50

$$\text{Final CIE Marks} = (A) + (B)$$

Theory Based Ability Enhancement Courses and other courses with 1 Credit: (IDT, UHV, SFH, CIP, ENG-1, ENG-2, BIO, AEC)

This section of regulations is applicable to all theory-based courses. The minimum CIE marks requirement is 40% of maximum marks in each component.

Final CIE for Theory based Ability Enhancement Course

Components		Number	Weightage	Max. Marks	Min. Marks
(i)	Internal Assessment-Tests (A)	2	50%	25	10
(ii)	Assignments/Quiz/Activity (B)	2	50%	25	10
Total Marks (A+B)				50	20

The CIE question paper shall have MCQ set for 25 questions, each carrying one mark.



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Average internal assessment shall be the average of the 2 test marks conducted.

Theory Course with 1 Credit: (AEC, BIO, UHV, IDT, Eng-1, Eng-2, Kan-1, Kan-2, CIP, SFH)

The SEE question paper shall have MCQ set for 50 questions, each carrying one mark. The time duration for SEE is one hour

CIE Assessment Pattern – MOOCs Online Courses

For MOOCs Online course there will be no CIE and SEE. The grade awarded in the online course certificate provided by the competent authority will be considered. If grades are not mentioned, but marks are mentioned in the online course certificate, then, the marks are converted to equivalent Letter Grade.

1.1 Semester End Examinations: UG and PG Programmes

Theory Course with 4, 3 and 2 Credits: Professional Core Course (PC)/Professional Elective/Open Elective

1. Question paper pattern will be ten questions. Each question is set for 20marks. The medium of the question paper shall be English unless otherwise it is mentioned.
2. There shall be 2 question from each module, each of the two questions under a module (with a maximum of 3 sub questions), may have mix of topics under that module if necessary.
3. The students have to answer 5 full questions selecting one full question from each module.
4. Marks scored will be proportionally scaled down to 50 marks

Theory Course with 4, 3 and 2 Credits: Integrated Profession Core Course (IPC)

1. Question paper pattern will be ten questions. Each question is set for 20marks. The medium of the question paper shall be English unless otherwise it is mentioned.
2. There shall be 2 question from each module, each of the two questions under a module (with a maximum of 3 sub questions), may have mix of topics under that module if necessary.
3. The students have to answer 5 full questions selecting one full question from each module.



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4. The question paper may include at least one question from the laboratory component.
5. Marks scored will be proportionally scaled down to 50 marks

Theory Course with 1 Credit: (AEC, BIO, UHV, IDT, Eng-1, Eng-2, Kan-1, Kan-2, CIP, SFH)

The SEE question paper shall have MCQ set for 50 questions, each carrying one mark. The time duration for SEE is one hour

SEE for practical Course (Irrespective of Experiment or program based):

1. SEE marks for practical course shall be 50 marks

SL. No.	Description	% of Marks	Marks
1	Write-up, Procedure	20%	20
2	Conduction and result	60%	60
3	Viva-Voce	20%	20
Total		100%	100

2. SEE for practical course is evaluated for 100 marks and scored marks shall be scaled down to 50 marks.
3. Change of experiment/program is allowed only once and 20% marks allotted to the procedure/write-up part to be made zero.
4. Duration of SEE shall be 3 hours.

23BE4.3. Semester-End Examination:

- 1) Only those students who satisfy the attendance requirement as per 23BE3.7 and CIE requirement as per 23BE4.2 shall be eligible to appear for SEE of that course.
- 2) SEE shall be conducted for a maximum of 100 Marks. The marks secured by the students for 100 marks shall be proportionately scaled down to a maximum of 50 marks to add the same with the CIE marks for the award of the letter grade.
- 3) The Semester End Examination for all the courses offered during the semester shall be conducted at the end of each semester except when there are no students taking examinations for any course as per the Scheme of Teaching and Evaluation.
- 4) Only those students who satisfy the attendance requirement as per 23BE3.7 and CIE requirement as per 23BE4.2 shall be eligible to appear for SEE of that course.
- 5) SEE shall be conducted for a maximum of 100 Marks. The marks secured by the students for 100 marks shall be proportionately scaled down to a maximum of 50



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marks to add the same with the CIE marks for the award of the letter grade. (Except for the project work the total SEE marks are 100)

- 6) The SEE for all the Programmes of study shall be conducted at the end of each semester.
- 7) Students having no backlog courses may not have more than one examination scheduled on the same day. However, students having backlog course may face a situation where they may have,
 - a) Two examinations scheduled at the same time of the day,
 - b) To take two examinations on the same day, one during the morning session and the other in the afternoon session, and
 - c) Examinations on consecutive days.
- 8) The students shall be prepared to appear for the examinations specified above under (b) and (c) cases. However, the Institution shall take utmost care to avoid scheduling as specified under (a) as far as possible. But in view of time constraint to complete the examinations and announce results on time, if it becomes unavoidable, the students shall choose to appear for the examination as per the advice of their Mentor. As changing the examination date is not an option, the examination time table shall not be modified/ altered/ adjusted in any of the above three cases.
- 9) The passing standards in CIE, SEE, a course and a semester for all types of the courses in which grades are awarded shall be as per the clause 23BE6.3.
- 10) A student securing an 'F' grade in any courses shall reappear for that course during the subsequent SEE. The CIE marks awarded to the student at the first attempt in the concerned course shall be carried forward. Revised CIE marks are considered only for courses where grade DX was awarded.
- 11) For a pass ('P' grade), sum total of CIE and SEE marks must be 40% of the maximum marks prescribed for a course as per the Scheme of Teaching and Evaluation.

23BE4.4. Makeup Examination:

- 1) The makeup examination facility shall be available to those students who have



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appeared and failed in the SEE in one or more courses in a semester. However, the students passing in the makeup examination shall lose their eligibility to be considered for the award of Ranks.

- 2) If a student has satisfactory attendance in a course and has secured a minimum of 40% in CIE but could not appear in SEE for valid and convincing reasons as specified under 23BE3.7.1, shall be eligible to appear for the makeup examination, after due recommendation by the Dean-Academics and approval from the Principal.
- 3) Following may be considered as other valid reasons for semester end makeup examination:
 - a) Serious illness/ personal accident in the case of the student himself.
 - b) Serious illness/ Accident/ Death of parent /guardian.
- 4) Students claiming semester end makeup examination on the above reasons are required to apply to the Dean-Academics, on or before the prescribed last date for registration for such makeup examination announced in the Academic Calendar, along with proper medical certificate issued by a competent Authority. In the event of death and/ or serious illness/ accident of parent or guardian, the application should be supported by adequate evidence of the same/ appropriate documents. Decision of the Principal is final in these matters.
- 5) The Makeup Examinations for both the semesters shall be conducted once in a year at the end of the even semester.
- 6) The standard of the Make-up Examination shall be the same as that of the regular SEE for the Courses. The student will be provided an opportunity in the make-up exam. The Grade earned by the student will be retained in case of 'I' Grades, while in the case of 'X' Grades, the student will be awarded the next lower passing Grade (that is: Grades ('O' to 'C') will be reduced to the next lower grade, while the Grade 'P' will remain unchanged).

23BE4.5. Maintenance of Examination Records

- 1) The candidate shall write tests, assignments/unit-tests /written quizzes in Blue Books, which shall be preserved under the supervision of the Head of the Department at the



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department for at least 3 years after the announcement of results and shall be made available for verification as per the direction of the Dean-Academics.

- 2) Any corrections or overwriting of CIE marks on the blue book/drawing sheet laboratory record etc, where CIE marks are awarded, shall bear the signature(s) of the concerned Teacher(s) and the Head of the Department.
- 3) CIE marks shall reach the COE before the commencement of examinations as per the notification from the office of the COE from time to time. After submission of CIE marks to the COE, any request under any circumstances for a change of CIE marks shall not be considered.
- 4) CIE marks of those students, who come under 23BE4.6(4) and (5), shall also be sent to the COE along with other course CIE Marks.
- 5) The final list, incorporating corrections (if any), of CIE marks awarded to the students in the Theory/Practical/Internship/ Mini - Project Work/Major- Project Work shall be displayed on the notice board of the college much before the closure of the semester.
- 6) The college/Department shall enter the CIE marks of each on the Institute's online CIE marks portal and submit a certified copy of the same to the COE within the stipulated date notified. Every page of the CIE marks sheet (hardcopy) shall bear the signatures of the concerned Teacher/Teachers, Head of the Department, and the Principal/ Dean.

23BE4.6. Review Committee for CIE

- 1) Review of assessment is an organized procedure that ensures the use of valid assessment methods and consistent application of criteria, to provide fair academic judgment and reliable outcomes in the form of marks or grades. It assures appropriate designing and implementation of assessment activities along with the generation of valid and reliable results.
- 2) After each test, the Dean shall ensure that the evaluation is fair in each of the courses, scheme of valuation is uniformly followed and that the award of marks in the courses follows a normal distribution curve. If there are any lapses or the marks distribution is either left skewed or right skewed, corrective measures shall be taken and the Report



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to be submitted to the institution.

- 3) There shall be a Review Committee for Internal Assessments in every Department, which shall be chaired by the Head of Department and two senior faculty members nominated by the Principal/Dean. This Committee shall be responsible for the entire process of Internal Assessment in the Department, including redressal of grievances, if any.

4) Guideline for the Review Committee:

Review may be conducted after each test or after the tests in case there is a large number of failures or high marks, or when large numbers of students have received the same marks, or when there are wide discrepancies between marks allocated to individual students in different courses,

- a) Split-up of marks used for each of the different types of assessment in the course may be checked.
- b) Checking of the questions to find whether it maps to course outcomes.
- c) Checking the difficulty level of questions paper i.e., is the difficulty level on the high extreme, very easy or otherwise.
- d) Whether the assessment modes are used to cover the entire syllabus or not.
- e) Checking the manner of awarding the marks, i.e., has correction been at the extremes, liberal or tough?
- f) Moderation should not be restricted to just assessment but also includes the assessment design (scheme of evaluation).

23BE4.7. Rejection of Result

- 1) A student is permitted to reject the total performance of a semester (including CIE marks) or reject only the result of his/her performance in SEE of a semester. The rejection is permitted only once during the entire Programme of study.
- 2) Students who desire to reject the SEE results of a semester shall reject the total performance (irrespective of the earned course grades) in all the courses of the semester either rejecting or retaining the CIE marks. However, rejection of the performance of the VIII semester project shall not be permitted.



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- 3) Students who desire to reject the total SEE performance of an odd or even semester including CIE marks, have to repeat that odd or even semester of the prevailing scheme by taking readmission during the subsequent academic year/s, governed by clauses 23BE5.3 and 23BE 5.2.
- a) If the rejection of SEE results excluding CIE marks is of the odd semester, students shall be allowed to take admission to the immediate next even semester.
 - b) If the rejection of SEE results excluding CIE marks is of an even semester, then students shall be allowed to take admission to the next odd semester.
 - c) Readmission to odd/even semesters shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number, which was allotted earlier. The maximum duration of the Program shall be counted with reference to the University Seat Number (USN).
 - d) Applications for rejection of results excluding CIE and approval to reappear for SEE shall be sent to the COE through the Dean-Academics within 30 days from the date of announcement of the results, with prescribed fee as notified by the Institution from time to time. Late submission of applications shall not be accepted for any reason.
 - e) Application for rejection of results including CIE and approval for readmission shall be sent to the Principal, through the CoE within 30 days from the date of the announcement of the results with prescribed fee as notified by the Institution from time to time. Late submission of application shall not be accepted for any reason.
- 4) Registration for SEE is compulsory if the student/s has satisfied the attendance and CIE requirement of ODD/EVEN semester.

In case, the students fail to register for SEE of the odd semester after satisfying the attendance and CIE requirements of the semester, they shall be permitted to move to an even semester of that academic year.

However, such students have to register for odd semester examinations conducted at the end of the academic year for all the semesters and registration shall be considered for the first attempt.



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- 5) In case, students fail to register for the odd semester SEE after completing successfully the even semester, they shall not be permitted to move to the higher odd semester of the subsequent academic year. Irrespective of a student appearing for SEE, he/she has to register for SEE for odd and even semesters before completing the academic year.
- 6) Students who opt for rejection of results of the SEE shall be eligible for the award of the Degree and Minor Degree but not for the award of ranks and Honors Degree.

23BE4.8. Academic Malpractice

Academic malpractices shall be seriously viewed and appropriate action taken. In case of malpractice during any of the internal examinations like assignments, quizzes, and tests, the Course Teacher/Invigilator shall report the matter to the Principal/Dean for penal action. If the Principal/ Dean finds that the offence is serious enough then the matter shall be further referred to the Malpractice Committee (MPC) of the Institution. Also, any malpractice in the SEE shall also be referred to the MPC irrespective of the seriousness of the malpractice.

23BE5.0. MAXIMUM DURATION FOR PROGRAMME COMPLETION

23BE5.1: Multiple-Entry-Multiple-Exit Options

While earning credits towards their B.E. degree, the students may judiciously use the options provided to them through CBCS and MEME clauses in the Regulations, to obtain additional certificate and a B.Sc. degree. However, they shall earn the required credits for the award of the degree within the maximum specified duration. The following distinctions are awarded under MEME options:

1) Certificate in Respective Programmes of Engineering

A student who exits at the end of II year of the programme shall be awarded a certificate, if he/she successfully passes the registered courses and earns:

- a) Atleast 50% of the credit requirements of B.E./B.Tech. programme. (i.e. 80 credits) However, it is 25% for lateral admission candidates (i.e. 40 credits).
- b) Atleast 50% of the programme professional core courses courses may be specified, so the leaving student has decent skills), and



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c) A minimum CGPA of 5.0.

2) **B.Sc. in Respective Programmes of Engineering**

A student who exit the end of III year of the programme shall be awarded a B.Sc. degree, if he/she successfully passes the registered courses and earns:

- a) Atleast 75% of the credit requirements of B.E./B.Tech. programme (i.e. 120 credits); and completed atleast 3 years (80 credits and 2 years respectively for lateral admission candidates) in the programme.
- b) 100% of programme professional core courses
- c) A minimum CGPA of 5.0.

With B.Sc., the student is eligible for entry into programmes which take B.Sc. as admission eligibility criteria.

3) **Re-entry to complete the programme**

A student exiting with a certificate or B.Sc. should be entitled to re-enroll in the programme. All the credits will be transferred, if the student enrolls back within a limited period of 3 years of exiting. In case a student enrolls after that, then the transfer of credits should be examined by looking at the change in the curriculum from what the student did.

Exits are permitted by the Institution within 15 days of announcement of 2nd year and 3rd year results, on written request for the award of certificate and B.Sc. degree by a student when he/she is eligible. Corresponding to these two exits, a maximum of two re-entries are permitted with the condition that he/she complete the programme within the maximum specified duration.

4) **Programme Completion in another Institution**

The Institution accepts a student to earn a certificate/B.Sc. from other institution and complete the degree programme. This will enhance the value of certificates and the B.Sc. Degree.

23BE5.2.Minimum and Maximum Duration for Programme Completion

The minimum duration of the program is four academic years for regular students and three years for lateral entry students. Students admitted to first-semester B.E., shall



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complete the programme within eight academic years from the year of the first admission, failing which they will not be eligible for the award of a degree. Students admitted to third semester B.E., under the lateral entry category shall complete the programme within six academic years from the year of the first admission, failing which they will not be eligible for the award of degree.

23BE5.3. Readmission

- 1) Students who are temporarily discontinuing the programme and getting readmitted to the eligible semester are permitted subjected to the clause 23BE5.2.
- 2) The permission for readmission is only on request through the Principal and is not treated as a matter of right. Such students shall not claim any benefits based on the readmission.
- 3) Students who take re-admission to any semester of the existing scheme from another scheme, as a repeater/fresher because of various reasons, shall attend and complete all the remaining semesters of the programme adhering to the Regulations of the prevailing scheme and shall complete additional courses, if any, as per the decision of equivalence committee in concurrence with concerned Board of Studies on establishing the equivalence between two schemes. Such a candidate shall not be eligible for the award of rank.
- 4) Readmission to odd/even semester shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number (USN), which was allotted at the time of his/her admission to the programme. The maximum duration of the programme shall be counted with reference to the USN allotted during his/her first admission to the programme.
- 5) A student who has not obtained the eligibility for 3rd semester even after three academic years from the date of admission to 1 semester shall discontinue the programme or get readmitted to 1st semester of first year B.E., with a new University Seat Number (USN) but retaining the same year of admission.



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- 6) In case, the forecasted or estimated credits are going to be less than that of the credits prescribed by the Institution on the completion of all the semesters of the programme under the prevailing scheme, the candidate shall register for a course or courses not studied earlier and make up the credits which are equal to or greater than the prescribed credits.
- 7) In case of any difficulty, Principal shall decide on individual cases, which shall be final.

220BE6.0. GRADING AND VERTICAL PROGRESSION

220BE6.1. Award of Grades:

- 1) The Institution adopts absolute grading system wherein the marks are converted to grades, and every semester result will be declared with semester grade point average (SGPA) on successful completion of all courses of that semester.
- 2) The total marks obtained by the student in CIE and SEE of a course is expressed as a percentage to compute the grade points and the letter grade is awarded as indicated in the table below:
- 3) If there is no SEE for a course, then the CIE marks alone will be the basis for the determination of letter grade.

Letter Grade and Corresponding Grade Points on a Typical 10 – Point Scale								
Letter Grade	O	A+	A	B+	B	C	P	F
	Out standing	Excellent	Very Good	Good	Above Average	Average	Pass	Fail
Grade	10	9	8	7	6	5	4	0
% of Marks	90-100	80-89	70-79	60-69	55-59	50-54	40-49	0-39

23BE6.2. Other Letter Grades:

The letter grades specified in 23BE6.1 are used as student performance measures in all kinds of assessments. However, the following letter grades are also awarded under the



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circumstances defined below (Letter Grade: Grade Point - Circumstances).

- ❖ DX: 0 - Credits are not included in CGPA, Attendance below 75%, hence Repeat the course (In case of electives, course change is permitted)
- ❖ AU: 0 - Satisfactory in an Audit course
- ❖ AB: Absent for the Course
- ❖ PP: 0 - Passed in Non-credit course
- ❖ NP: 0 - Not Passed in Non-credit course
- ❖ IC: No credits - Incomplete (a place holder; gets converted to an appropriate grade after clearing SEE examination else converted to 'F') else automatically converted to 'F'.
- ❖ W: No credits - Dropped/ withdrawn (W is not a grade but only a place holder indicating that the course has been dropped/withdrawn and it must be cleared in subsequent semesters).

23BE6.3. Passing Standards

- 1) Maximum and Minimum CIE Marks: The maximum weightage of CIE mark shall be 50. To appear for the SEE, the minimum CIE marks to be secured in each of the courses shall be 40 % of the maximum marks of CIE.
- 2) Maximum and Minimum SEE Marks: The maximum weightage of SEE marks shall be 50 and marks to be secured for passing shall be 35 % of the maximum marks of SEE.
- 3) Eligibility for Passing a Course: The overall passing marks shall be 40% of the maximum marks (the sum of the CIE and SEE should be 40% of the maximum marks) of the course. That is, minimum passing grade in a course (head of passing) shall be "P".
- 4) Semester Passing Standards:
 - a) A student shall be declared successful or 'passed' in the entire undergraduate programme, only when he secures a Grade Point of 4.0 ("P" Grade) or above in every registered course in each Semester during the entire programme for the Degree Award, as required.



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- b) A Student shall be declared successful or ‘passed’ in any Non-Credit Course if he secures a ‘Satisfactory Grade (PP)’ for that Mandatory Course.
- 5) A student who satisfy the conditions (1), (2), and (3) above, and obtain any grade from ‘O’ to ‘P’ in a course shall be considered to have passed that course.
- 6) A student shall be awarded letter grade in a course as indicated below, if he/she,
- Fails to satisfy the conditions under Section (5) above: ‘F’ Grade,
 - Absents himself/herself from the SEE: ‘AB’ Grade,
 - Has attendance shortage in a course: ‘DX’ Grade, and
 - Course is Incomplete for any reason: ‘IC’.
- 7) Students satisfying the attendance requirement but failing to secure the minimum percentage of CIE marks, in any course/s, shall not be eligible for the SEE, conducted by the Institution and they shall be considered as fail in that Course/those Courses and marked as DX in the grade cards against this course/s. However, they can appear for SEE conducted for other Courses of the same semester and backlog course/s if any.
- 8) Students who have satisfied the attendance requirement but not the CIE requirements can be permitted to register afresh and appear for SEE after satisfying the CIE requirements in the same Course(s) when offered during the next immediate semester/s or later.
- 9) Each appearance to SEE or absence after completing CIE and attendance requirements to complete a course shall be treated as an attempt.

23BE6.4. Vertical Progression

- 1) A student progresses according to his/her performance and could register for the higher semesters subjected to conditions under clause 23BE5.2.

Year of Study	Programme	Eligibility Criteria
I Year		-



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II Year	B.E.	Students having “F” grades for the courses totalling to more than 16 credits in the 1st and 2nd semesters of the first year of the programme shall not be permitted to move to the 3rd semester (2nd year) of the programme. These courses include courses marked as NE. The students who fail to satisfy CIE and attendance requirements shall repeat the courses whenever offered next and become eligible for the 2nd year.
	M. Tech.	Students having more than four backlog courses of first year shall not be eligible for taking admission to II year (III Semester). Mandatory Non-credit courses and Online courses shall not be considered for the promotion.
	MBA	Students having more than four backlog courses of first year shall not be eligible for taking admission to II year (III Semester). Mandatory Non-credit courses shall not be considered for the
III Year	B.E.	A student is permitted to move to 5 th semester (III year) irrespective of number of F and / NE grades in the previous year.
IV Year	B.E.	A student shall be given admission to the 7 th semester (IV year) provided he/she passes all courses of 1st and 2nd semesters.

Vertical Progression in case of B.E. Students Admitted to Second Year (Lateral Entry)

- i) There shall be no restriction for vertical movement from odd semester to even semester
- ii) The vertical movement of students from a year of study (even semester) to the next year of study (odd semester) is as per the below mentioned criteria.

Vertical Progression Criteria for B.E. Students admitted to II Year

Year of Study	Eligibility Criteria
II Year	--
III Year	A student is permitted to move to 5 th semester (III year) irrespective of number of F and / NE grades in the previous year.
IV Year	--

2) Obtaining CIE:

From the 3rd semester (II year) onwards the student who obtains the required attendance for the course, but not the required CIE marks is allowed to move forward



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to the next semester. However, the student shall mandatorily obtain the required CIE in the subsequent semester. Obtaining minimum CIE marks for the course is mandatory. It may also be noted that the student shall not be permitted to appear for SEE in such courses until he/she obtains the required CIE.

3) Completion of backlog courses: From 3rd semester (II year) onwards,

- a) The student who obtains required attendance, CIE, and appearing for SEE obtains “F” Grade shall be allowed to move forward to the next semester (odd /even) irrespective of several “F” grades, subjected to satisfying the clause 23BE3.3 and 23BE5.2.
 - b) There shall be no restriction for promotion from an even to next odd semester (or odd to next even semester) even if the student has not satisfied the attendance requirement in one or more courses (including bridge courses for lateral entry students), but he/she shall not be eligible to appear for SEE in those course(s). Such students shall repeat those courses whenever offered next.
- 4) A student shall be given admission to the 7th semester (IV year) provided he/she passes all courses of 1st and 2nd semesters.**
- 5) Permitted Maximum credits for registration: The student shall be permitted to register for total courses to an extent subjected to the conditions under clause 23BE3.6.2.**
- 6) Successive Failures and alternate course selection:**
- a) If a student is not completing a course, other than the professional core course, even after four attempts, may drop that course and choose an alternate course having the same number of credits from the pool of courses suggested by the concerned Board of Studies.
 - b) The course so selected should not have been studied by the student or to be studied in future at higher semesters. The faculty advisor shall guide/ advise the student in this regard.
 - c) The college shall make arrangements for the registration and conduction of CIE for the alternate course selected.



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- d) This provision is given only for two courses (one at a time) during the entire maximum duration of the programme.
- e) This provision is optional; the student/s can continue registering for the same course without opting for a change.

23BE6.5. Condition for Re-Registering a Course:

- 1) Students who do not pass the course as per clause 23BE6.3(3) and awarded “F” Grade may Re-Register and improve their performance.
- 2) Such student, after passing the failed course in subsequent examination/s, will be awarded letter grade based on the marks he scores while passing in the subsequent examination/s.

23BE6.6. Computation of SGPA and CGPA:

- 1) Semester Grade Point Average (SGPA) will be awarded at the end of each Semester and Cumulative Grade Point Average (CGPA) will be awarded at the end of the program. However, CGPA is calculated at the end of each semester from the second semester onwards and reflected in the grade card for indicating the progress of the student.
- 2) Each course in a program is associated with number of credits (C). Based on the number of Credits for a course and obtained Grade Point (GP) for that course in a Semester, the GPA is calculated as given below:
 - a) The SGPA is the ratio of sum of the product of the number of credits with the grade points secured by a student in all the courses taken by him and the sum of the number of credits of all the courses undergone by a student, i.e.,

Semester Grade Point Average (SGPA)

$$SGPA = \frac{\sum(\text{Course Credits})(\text{Grade Points})}{\sum(\text{Course Credits})}$$

- b) The CGPA is also calculated in the same manner considering all the courses undergone by a student over all the semesters of a programme, i.e.



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Cumulative Grade Point Average (CGPA)

$$CGPA = \frac{\sum(\text{Course Credits})(\text{Grade Points})}{\sum(\text{Course Credits})}$$

Finally, the SGPA and CGPA shall be rounded off to 2 decimal points and reported in the grade cards. An illustrative example to calculate SGPA and CGPA for one academic year is shown below

Table 23BE6.6: An illustrative example to calculate SGPA and CGPA for one academic year

Semester Odd:1 st Sem	Course No.	Credits	Grade	Grade Points	Credit Points	SGPA, CGPA
I	XX101	5:00:00	B	8	40	SGPA 117 / 20 = 5.85
I	XX102	3:02:00	W	-	--	
I	XX103	3:00:00	A	9	27	
I	XX104	0:01:01	F	0	0	
I	XX105	4:01:00	D	6	30	
I	XX106	5:00:00	E	4	20	
Total	20 (18*)	Total			117	
Semester Even:2 nd Sem	Course No.	Credits	Grade	Grade Points	Credit Points	SGPA, CGPA
II	XX107	3:01:01	C	7	35	SGPA 157 / 25 = 6.28
II	XX108	4:00:00	B	8	32	
II	XX109	3:00:00	D	6	18	
II	XX110	4:01:00	E	4	20	
II	XX111	2:01:01	A	9	36	
II	XX112	2:00:00	F	0	0	
II	XX113	0:02:00	B	8	16	
Total	25 (23*)	Total			157	
CGPA Calculation after 2 semesters		CGPA=(117+157)/41=6.68				
Supplementary	XX102	3:02:00	D	6	30	SGPA = 56/9 = 6.22
Supplementary	XX104	0:01:01	C	7	14	
Supplementary	XX112	2:00:00	D	6	12	
Total	9	Total		56		
New CGPA after Supplementary results		New CGPA = (117+157+56)/(41+9) = 6.60				
*Total No. of credits excluding those with 'F' and 'W' grades particularly important to keep track of the number of credits earned by a student up to any semester.						

23BE6.7. Conversions of CGPA into Percentage of marks and Class Equivalence



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The following formula for conversion of the CGPA on a 10-point scale into the percentage of marks (M) for employment/ higher studies, etc. may be used;

$$\text{Percentage of Marks (M)} = 10 \times (\text{CGPA} - 0.75)$$

Semester	I	II	III	IV	V	VI	VII	VIII
Credits of the semester	20	20	20	20	20	20	24	16
SGPA	5.0	6.73	9.20	6.86	8.18	7.73	9.18	9.40
$\sum \text{CrP}$	100	175	220	165	204	185	184	169
$\text{CGPA} = \frac{100+175+220+165+204+185+184+169}{160} = \frac{1402}{160} = 8.76$							Percentage = $10 \times (8.76 - 0.75) =$ 80.01%	
$\text{CGPA for Lateral Entry Students} = \frac{220+165+204+185+184+169}{120} = \frac{1127}{120} = 9.39$							Percentage = $10 \times (9.39 - 0.75) =$ 86.4%	

22BE6.8. Class Equivalence

Subsequent to the conversion of final CGPA, after successful completion of the Program, into the percentage of marks (M), a graduating student is reckoned to have passed in

Sl. No.	Class Awarded	CGPA	Percentage
1	First Class with Distinction	≥ 7.75	$\geq 70\%$
2	First Class	≥ 6.75	$\geq 60\%$ and $< 70\%$
3	Second Class	< 6.75	$< 60\%$

Minimum CGPA of 5 for award of degree

22BE6.9. Award of Grade Cards, Certificates and Transcripts:

- 1) **Grade Cards:** At the end of each semester, a Grade Card shall be issued to all the registered students of that semester, indicating the Course code, Title, Number of credits, Letter grade awarded, and Credits earned, for all the Courses as specified in the scheme of teaching and evaluation, along with total credits earned, SGPA, and CGPA as applicable. This may have F grades and other temporary grades awarded to the student.
- 2) **Grade Certificate:** The Grade Certificate, having the same format of Grade card but indicating the month and year of clearing a course, is issued to the student on demand only on clearing all the temporary grades specified in the Grade Card.



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- 3) **Transcripts:** Transcript is the consolidated statement of the academic performance of a student for all the semesters since joining the programme and is generally given to a student on successful completion of the programme along with the degree certificate.
- 4) For those students who have taken multiple attempts to clear a course, the transcript given on successful completion of the programme will only contain earned pass grade ('0' to 'E', AU and PP); the courses cleared subsequently will however be shown in the respective semester with Month and Year in which the student has finally cleared the course. The transcript will show only the overall CGPA based on all the courses taken by the student. Credits earned beyond the requirement for the award of the degree shall be shown as additional courses separately, indicating the grade earned by the student. Additional copies of the transcript can be obtained if needed, on request submitted along with payment of applicable fee.
- 5) Students who have not yet completed the programme can obtain an interim Transcript at the end of any semester, if needed, on request and upon payment of applicable fee. The interim Transcript includes failed courses, which have not been cleared at the time of issue.

23BE6.9.1. Mandatory Earning of Activity points:

Sl. No.	Student category	Activity Points Prescribed
1	Regular Students admitted to the 4 year Degree Programme	100
2	Students entering 4 year Degree Programme through lateral entry	75
3	Students transferred from Universities to the 5 th Semester	50

The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

- 1) Activity Points (non-credit) have no effect on SGPA/CGPA.

In case a student fails to earn the prescribed activity Points before the commencement of 8th semester examinations, the Eighth Semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of the degree only after the release of the Eighth Semester Grade Card.



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23BE7.0. ELIGIBILITY FOR AWARD OF DEGREE, PRIZES, MEDALS, AND RANKS

23BE7.1. B.E. degree

- 1) Students shall be declared to have completed the undergraduate Programme of B.E. degree and is eligible for the award of degree provided they have undergone the stipulated course work of all the semesters under the Scheme of Teaching and Examinations and have earned the prescribed number of credits as per clause 23BE3.3 within the permitted maximum duration specified under clause 23BE5.2.
- 2) For the award of degree, completion of bridge courses, if any, as applicable is compulsory.

23BE7.2. B.E. (Honors) Degree

- a) Students shall be declared to have completed the undergraduate Programme of B.E., degree with Honours, provided they have,
- b) Been declared eligible for the award of the degree as per clause 23BE7.1,
- c) Earned additional 18 or more credits through Institute-approved online courses, and Satisfied the conditions of “Maharaja Institute of Technology Mysore (An Autonomous Institution affiliated to Visvesvaraya technological University, Belagavi) Regulations, 2023, for the Award of Bachelor of Engineering Degree.”

23BE7.3. B.E. with Minor Degree

- 1) Students shall be declared to have completed the undergraduate Programme of B.E., degree with Minors, provided they have,
 - a) Been declared eligible for the award of the degree as per clause 23BE7.1,
 - b) has earned additional 18 or more credits through Institute-approved online courses, and
 - c) Satisfied the conditions of “Maharaja Institute of Technology Mysore (An Autonomous Institution affiliated to Visvesvaraya technological University, Belagavi) Regulations, 2023, for the Award of Bachelor of Engineering Degree.”

23BE7.4. Award of Degree for an Extraordinary Student:

- 1) The Institute through college can offer a fast-track degree for an extraordinary



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student. The same is done by offering courses of his/ her choice to fulfill the requirement of the programme in three and half years.

- 2) However, the degree shall be awarded on completion of 04 years.
- 3) The course completion letter shall be issued jointly by the University and the College immediately after completion of the programme, notwithstanding the minimum duration.
- 4) The extraordinary student is one with a CGPA ≥ 9 in 2nd and 3rd semesters and continues to maintain the same in all the semesters. Otherwise, his/her registration for this “Award” shall stand canceled automatically.
- 5) Aspirant students shall register with the Institute at the 4th semester level, with the prescribed registration fee as fixed by the Institute from time to time. Such students shall register for more credits, other than the regular semester credits, along with the 5th semester registration.

23BE7.5. Non-compliance Cases

1) Non-compliance of Mini-project

The mini-project shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up/complete the mini-project shall be declared fail in that course and shall have to complete the same during subsequent SEE after satisfying the Mini- project requirements.

2) Non-compliance of Major-project

The Project Work shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up/complete the Major-project shall be declared fail in that course and shall have to complete the same during subsequent SEE after satisfying the Major-project requirements.

3) Non-compliance of Internship

All the students of B.E., shall have to undergo mandatory internship The internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take up /complete the internship, shall



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be declared fail in that Course and shall have to complete the same during subsequent University examinations after satisfying the internship requirements,.

4) Non-compliance to earn credits in Honours and Minors

When a student registering for minor or honors degree is unable to complete all the required courses or earn the required credits within the maximum programme duration or at the time of becoming eligible for the award of the Degree, may withdraw from these additional degree programmes and request for the award of a certificate. The Institute shall consider those additional courses passed as Value Added Courses and issue a certificate to that effect.

23BE7.6. Award of Prizes, Medals, and Ranks

- For the award of Prizes and Medals, the conditions stipulated by the Donor may be considered as per the statutes framed by the College for such awards. The ranks are given to candidates who do not obtain F grade in any courses of their study.
- The total number of ranks awarded shall be 10 or 10% of total number of candidates appeared in final semester whichever less in that branch. In case, if there is less than 10 students appeared in the final semester examination then only one rank will awarded from that branch.
- In case of fractional number of ranks, it is rounded to higher integer only when the first decimal place value is greater than or equal to 5.
- For award of rank in a specialization of B.E. programme, the CGPA secured by the students from III to VIII Semester is considered.
- Ranks are awarded based on the merit of the students as determined by CGPA. If two or more students get the same CGPA, the tie shall be resolved by considering the actual marks obtained by the student. If it is not resolved even at this stage, the number of times a student has obtained higher SGPA. If it is not resolved still at this stage, the number of times a student has obtained higher grades like S, A, B, etc., shall be taken into account to decide the order of the rank.



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A student shall be eligible for a rank at the time of award of degree, provided the student,

- i) Has passed first to final semester in all the courses in first attempt only in case of students admitted in first year.
- ii) Has passed third to final semester in all the courses in first attempt only in case of students admitted under lateral entry scheme.
- iii) Has completed all the prescribed Audit / Mandatory Courses.
- iv) Is not a repeater in any semester because of rejection of result of a Semester / Shortage of attendance etc.
- v) Has completed all the semester without any break / discontinuity.

The following types of students are not consider for the rank,

- i) Students who dropped the course in any semester.
- ii) Students who wrote Make-up / Supplementary exams in any semester.

Students who have N / I / W / X / F grade in a course in any semester

23BE8.0. CHANGE OF BRANCH

- i) A student admitted to a branch of the undergraduate programme shall normally continue to study in that branch till completion. However, in special cases a student admitted to a branch of the undergraduate programme shall be permitted to change from one branch of study to another at the beginning of III semester only.
- ii) Change of branch shall be permitted in accordance with the provisions laid down by the University and Academic Council.
- iii) Change of branch shall be permitted, if the strength in any branch does not fall below 75% of the admissions at first year level in the respective branch/branches. This admission at first year excludes all supernumerary admissions viz., fee waiver quota (SNQ), J&K quota, PIO, GOI, PM quota etc.
- iv) Change of branch can be made only against the clear vacancy in the branch.

Vacancy, 'V' being defined as

$$V = I - (Reg + Rep)$$



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Where,

I = Sanctioned intake for the branch prescribed by AICTE for the previous academic session when the students were admitted at 1st semester level.

Reg = No. of regular students who become eligible to be promoted to 3rd semester as per vertical progression norms, excluding all supernumerary admissions viz., SNQ, GOI, PIO etc.

Rep = No. of students from previous batch who become eligible to join 3rd semester.

- v) Change of branch shall be strictly in the order of merit of the applicants. For this purpose, the CGPA obtained at the end of the second semester shall be considered.
- vi) Branch once changed cannot be reverted and/or changed again.
- vii) Change of branch shall not be considered as a matter of right.

23BE9.0. CHANGE OF COLLEGE: TRANSFER OF STUDENTS

- Transfer of students from one college to another college within Karnataka state is permitted as approved by the academic council of the institution and VTU only at the beginning of 3rd semester, subject to availability of seats within the permitted intake in respective institution,
- The candidate seeking admissions are to be only from VTU and shall have to apply for establishment of equivalence with prescribed fee as notified by the institution and VTU
- The candidates from other universities must obtain eligibility or equivalence approval from VTU
- The Regulations Governing the Change of College:
<https://vtu.ac.in/wp-content/uploads/2021/01/Notified-COC-Regulations.pdf>

23BE10.0. MISCELLANEOUS

- 1) Guidelines for using Online content in courses at the Institute as per the University Regulations.
- 2) The Regulations Governing the Academic Bank of Credits shall be followed as per the University Regulations.

23BE11.0. APPLICABILITY AND POWER TO MODIFY



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- 1) The regulations governing the degree of Bachelor of Engineering of “Maharaja Institute of Technology Mysore (An Autonomous Institution affiliated to Visvesvaraya technological University, Belagavi) Regulations, 2023, for the Award of Bachelor of Engineering Degree.” shall be binding on all concerned.
- 2) Notwithstanding anything contained in the foregoing, the Institute shall have the power to issue directions/ orders to address and removal of any difficulty.
- 3) Nothing in the foregoing may be construed as limiting the power of the Institute to amend, modify or repeal any or all of the above.