



MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
(An Autonomous Institution)

Affiliated to,
Visveswaraya Technological University (VTU), Belagavi

Approved by,
All India Council for Technical Education (AICTE), New Delhi

Approved by,
Government of Karnataka

Accredited by,
National Board of Accreditation (NBA)
National Assessment and Accreditation Council (NAAC)

Certified with,
ISO 9001:2015 (QMS) & ISO 21001:2018 (EQMS)

General Academic Rules and Regulations

Applicable to all Autonomous Programmes of BE, M.Tech, MBA and MCA
(With effect from AY 2023-24)

2023 Scheme



Maharaja Education Trust (R), Mysuru
MAHARAJA INSTITUTE OF TECHNOLOGY MYSORE
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1.PREAMBLE:

There is a need to derive full benefits of the academic autonomy accorded to the college towards addressing the 21st century challenges faced by the technical education system in the country, like:

- Ever increasing influence of science & technology and their impact on human society.
- Shrinking time scale of new developments and the high rate of obsolescence in the older practices.
- Penetration of Information Technology in all sectors of human activity and economic development.
- Service sector becoming a major avenue for employment of technical professionals and also for economic gains.
- Emergence of **knowledge** as a key driver for the progress of nations and for increasing their influence on the world scenario.

The academic autonomy of the college offering technical education attempts to convert these challenges into opportunities, and it is expected that the 21st century engineers will be required to have:

- Strong foundation in the basics of mathematics, science and engineering discipline.
- Command over the chosen area of technical specialization.
- Capacity to apply the professional knowledge and skills acquired.
- Good competence to learn a subject on one's own without major external help.
- Expertise in analysis, design, modeling and simulation of complex systems.
- Scaling up, mass production, system operation and maintenance.
- Estimation of costs and time factors in an assignment.
- Ability for rational, logical, orderly and objective thinking.
- Skills in personnel management and human relations, and
- Leadership qualities including spirit of tolerance, patience and team work.

The college exercises the academic freedom given to it by the University with



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- responsibility and accountability
- Use the available opportunity to demonstrate its capabilities and innovative skills, to become visible in the higher education system and,
- Gain the confidence, gratitude and respect of all its stake holders, especially students, alumni, parents and the society at large

Hence, it becomes particularly important for the College as well as the University to be able to maintain and enhance its reputation, image and visibility in the technical education system as a whole.

2. ACADEMIC PROGRAMMES:

2.1.General:

- a) The Academic Autonomy is applicable for all programmes offered by the college: B.E. Degree programmes at Undergraduate (UG), M. Tech., M.B.A and M.C.A programmes at Postgraduate (PG), M.Sc. (Engineering by research) and the Ph.D programme. The programmes fulfill the minimum academic quality and standards for the award of Degrees prescribed by the University, the Council and the Commission.
- b) The academic Autonomy provides an opportunity to the college to make schemes of instruction, syllabi, scheme of examinations and other aspects, with approval of its Academic Council, while fulfilling the minimum academic standards of the University for the Award of Degrees.
- c) The College has the freedom to start Diploma (post- polytechnic Diploma, post-UG and post-PG levels) and/or Certificate programmes with the approval of its Academic Council. The issuance of certificates/diplomas on completion of such programmes shall be made under the seal of the concerned College only.
- d) The College has the freedom to evolve methods for assessing the students' performance, notifying the results, issuing the grade cards/transcripts, migration and other certificates except the Degree Certificates.
- e) In order to get the various benefits of academic autonomy, the College can



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structure its various academic programmes based on the Semester Scheme by introducing Credits for academic activities, bring in Examination Reforms for better achievement testing, award Letter Grades and Numerical Grade Points/Averages for students' performance and set appropriate Passing Standards as covered later in these Regulations.

- f) Following the guidelines recommended by the University, with regard to Semester Scheme, Credit System, Examinations, Letter Grades and Numerical Grade Points/Averages, enables their students to avail of horizontal/ vertical mobility and transfer of credits from one Autonomous College to another and related benefits of academic autonomy.

2.2.Nomenclature of Programmes:

- a) The College uses the nomenclature for their Degree programmes as specified by the Commission, and the Degree Certificates issued by the University to their awardees bears the name of the College as well. This helps in maintaining the identity of each programme conducted at the College and also ensuring its accountability.
- b) Therefore, the nomenclatures and their abbreviations given below, shall continue to be used for the Degree programmes offered by the College under the University:

Sl. No.	Title	Programme
1	UG Level	Bachelor of Engineering (B.E)
2	PG Level	1. Master of Technology (M. Tech.) 2. Master of Business Administration (M.B.A.) 3. Master of Computer Applications (M.C.A.)
3	Research Level	1. M.Sc. (Engineering) by Research 2. Doctor of Philosophy (Ph.D.)

Besides, the branch, the subject of specialization, if any, shall be indicated in brackets after the abbreviation; e.g., B.E. (Mechanical Engineering), M.Tech. (Signal Processing)

2.3.Programmes Offered:

2.3.1. Undergraduate degree programmes offered by the College are listed in **Table:**

2.3.1



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**Table 2.3.1:** Undergraduate Programmes offered by the College

Sl. No.	Title of the UG Programme	Abbreviation	Established
1	Civil Engineering	CE	2011
2	Computer Science and Engineering	CSE	2007
3	Computer Science and Engineering (Artificial Intelligence)	CF	2022
4	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	CA	2022
5	Computer Science and Business System	CB	2022
6	Computer Science and Engineering (Data Science)	DS	2022
7	Computer Science and Engineering (Internet of Things and Cyber Security Including Block Chain Technology)	IC	2023
8	Computer Engineering	CO	2023
9	Electronics and Communication Engineering	ECE	2007
10	Information Science and Engineering	ISE	2007
11	Mechanical Engineering	ME	2007
12	Mechanical Engineering (Kannada)	MK	2021

2.3.2. Postgraduate degree programmes offered by the College are listed in **Table:**

2.3.2**Table 2.3.2:** Post Graduate Programmes offered by the College

Sl. No.	Title of the UG Programme	Abbreviation	Offered by	Established
1	Signal Processing	LSP	EC	2013
2	Computer Science & Engineering	SCS	CS	2012
3	Thermal Power Engineering	MTP	ME	2012
4	Master of Business Administration	MBA	MBA	2009
5	Master of Computer Applications	MCA	MCA	2008

2.3.3. Research Level programmes offered by the College:



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The college offers the following Research programmes,

1. M.Sc. (Engineering) by Research, and
2. Doctor of Philosophy (Ph.D.),

The research centers recognized by the University are listed in **Table 2.3.3.**

Table 2.3.3: Research Centers recognized by the University

Sl. No.	Research Center	Established
1	Civil Engineering	2015
2	Mechanical Engineering	2015
3	Electronics and Communication Engineering	2015
4	Computer Science and Engineering	2015
5	Master of Business Administration	2015
6	Mathematics	2015
7	Physics	2015
8	Chemistry	2015

3. SHORT TITLE AND COMMENCEMENT

- The regulations listed under this head are common for all programmes offered by the college and are amended based on the Guidelines for Implementation of Academic Autonomy at Colleges by Visvesvaraya Technological University, Belagavi. These regulations shall be effective from academic year 2023-24.
- The regulations are subject to amendments made by the Academic Council with the approval of the Governing Body of the college from time to time, and keeping the recommendations of the Board of Studies in view.

4. Definitions:

- a) “University” means Visvesvaraya Technological University (VTU)
- b) “College” means Maharaja Institute of Technology Mysore, Mandya District
- c) “Commission” means University Grants Commission (UGC)



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- d) “Council” means All India Council for Technical Education (AICTE)
- e) “Statute” means VTU Guidelines and norms for Implementation of Academic Autonomy in Institutions (2018) Amendments in 2022, effective from 2021-22
- f) “Academic Autonomy” means freedom granted by the University to the College in all aspects of conducting its academic programmes for promoting academic excellence
- g) “Autonomous College” means a college notified as an autonomous college as per the VTU Autonomous College Statute, 2023
- h) “Regular Students” means students who are admitted to the first year of the respective programme
- i) “Lateral Entry” means students who are admitted to the third semester of the respective programme (Undergraduate Engineering Programme or the Post Graduate MCA programme, based on the qualification at the time of entry)
- j) “Branch” means specialization in a programme like B.E. degree programme in Civil Engineering or B.E degree programme in Mechanical Engineering or B.E. degree programme in Computer Science and Engineering etc.
- k) “Course” means a subject either theory or practical identified by its title and code number. For example, BMATM101 is a course introduced during 2023, offered by Mathematics Department, during 1st semester, of type **Basic Science**, with title ‘**Mathematics-1 for ME Stream**’.

5. PROGRAMME DURATION AND TOTAL CREDITS

The normal duration of fulltime academic programme is the same as that followed by the University

Table 5.1: Research Centers recognized by the University

Sl. No.	Programmes	Duration (Years)		Total No. of Credits
		Min.	Max.	
1	Bachelor of Engineering (B.E)	4	8	160
2	Bachelor of Engineering (B.E)-Lateral Entry	3	6	120
3	Master of Technology (M.Tech)	2	4	80



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4	Master of Business Administration (MBA)	2	4	100
5	Master of Computer Application (MCA)	2	4	100
6	Master of Science (Engg.) by Research (M.Sc. Engg. by Research)	2	4	-
7	Doctor of Philosophy (Ph.D.)	3	8	-

6. ADMISSION OF STUDENTS

Admission of students to various Programmes shall be made as per the Government of Karnataka and AICTE Norms that are applicable from time to time.

6.1 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 (KCET) conducted by Karnataka Examination Authority (KEA) for candidates 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.



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- 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.

6.2 Admissions to II-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) In addition to Section 6.2(i), 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 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.

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.



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6.3 Admissions to M. Tech. Programme – Eligibility

- i) Candidate should have passed in B.E. /B. Tech. examinations of VTU or any other recognized University or Institution/ AMIE in respective branches and obtained 50% of the marks in the aggregate from all the years of the degree examination (45% in case of SC, ST and Category -1 Karnataka candidates).
- ii) Candidates who have completed their degree through distance mode education from any University (National or International) are not eligible for admission to M. Tech. programmes under any quota.
- iii) **For admission under Government Quota (PGCET Quota):** In addition to Section 6.3(i), candidates should have a qualifying rank in the Entrance Examination conducted by an authority recognized and approved by Government of Karnataka (PGCET).
- iv) **For admission under Management Quota:** In addition to Section 6.3(i), candidates should be GATE qualified or have a qualifying rank in the Entrance Examination conducted by an authority recognized by Government of Karnataka (PGCET)/VTU/any other University on approval by Government of Karnataka.
- v) **Admission to Vacant Seats:** Seats remaining vacant (unfilled), after the completion of PG admission process by KEA, shall be filled by the Institution by inviting applications through Press notification. The seats shall be filled by Candidates preferably who have valid GATE/PGCET score. In the absence of such Candidates, admission shall be based on merit in the entrance test conducted at the Institution level.
- 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.

6.4 Admissions to MBA Programme - Eligibility

- i) Candidates should have passed recognized bachelor's degree of minimum 3 years duration or equivalent examination and obtained an aggregate minimum



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of 50% marks taken together in all the subjects including languages in all the years of the Degree Examination (45% in case of SC, ST and Category -1 Karnataka candidates).

- ii) **For admission under Government Quota:** In addition to Section 6.4(i), candidates should have a qualifying rank in PG CET entrance examination conducted by KEA.
- iii) **For admission under Management Quota:** In addition to Section 6.4(i), candidates should have a qualifying rank in PG CET/ Karnataka Management Aptitude Test (KMAT)/Common Management Admission Test (CMAT)/ any approved entrance examination conducted by the authority recognized by Government of Karnataka/VTU/any other University of Karnataka State.
- iv) For Admission of Candidates from Other Universities of Karnataka/Outside Karnataka [Other than VTU]: The candidates from Universities other than VTU shall have to obtain migration certificate from concerned University and obtain Eligibility approval from VTU.
- v) 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.

6.5 Admissions to MCA Programme - Eligibility

- i) Candidates should have passed recognized bachelor's degree of minimum 3 years duration or equivalent examination and obtained an aggregate minimum of 50% marks taken together in all the subjects including languages in all the years of the Degree Examination (45% in case of SC, ST and Category -1 Karnataka candidates).
- ii) **For admission under Government Quota:** In addition to Section 6.5(i), candidates should have a qualifying rank in PG CET entrance examination conducted by KEA.
- iii) **For admission under Management Quota:** In addition to Section 6.5(i),



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candidates should have a qualifying rank in PG CET any approved entrance examination conducted by the authority recognized by Government of Karnataka/VTU/any other University of Karnataka State.

- iv) **For Admission of Candidates from Other Universities of Karnataka/Outside Karnataka [Other than VTU]:** The candidates from Universities other than VTU shall have to obtain migration certificate from concerned University and obtain Eligibility approval from VTU.
- v) 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.

7. ACADEMIC YEAR

The breakup of Academic Calendar (Odd, Even and Supplementary Semesters) is given in the Table-7.1

Table 7.1: Typical Schedule of Academic Year

Sl. No.	Action Plan	Registration of Courses	Course work	Preparations	Examinations	Declaration of Results	Total
1	Odd Semester	One week before the commencement of the semester	16 weeks	1 week	2 week	1 week	20 weeks
2	Vacation	2 weeks					2 weeks
3	Even Semester	One week before the commencement of the semester	16 weeks	1 week	2 week	1 week	20 weeks
4	Supplementary Semester	Within one week after the announcement of results	7 weeks	1 week			8 weeks
5	Vacation	2 weeks					2 weeks
Total Duration (Fifty two weeks)							52 Weeks

7.1 Semester Scheme:

- a) The Semester Scheme provides several benefits to technical education



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programmes in contrast to the Annual Scheme. Therefore, the College adopts the Semester Scheme for its UG, PG and Research programmes.

- b) **Academic Calendar:** There is uniformity in the functioning of the Semester Scheme for all academic programmes across the College, as this can provide good academic flexibility to their stake holders, particularly the students and the faculty members. For this purpose, each academic year is divided into semesters, with the calendar, durations and academic activities being fixed in advance by the college while maintaining a common opening /reopening date for the odd semester.
- c) The breakdown of an academic year for implementing the Semester Scheme is given in Table 7.1 as a typical example, consisting of two regular semesters and a Supplementary semester in an academic year.
- d) **Course Registration:** A student shall register for courses (core or elective) to earn credits for meeting the requirements of a Degree/ Diploma/Certificate programme. Such courses together with their grades and the credits earned shall be included in the Grade Card issued by the College at the end of each semester, like odd, even, Supplementary and it forms the basis for determining the student's academic performance in that semester.
- e) **Academic Schedules:** The calendar includes important academic activities to assist the students and the faculty. These include, dates assigned for registration of courses, dropping of courses and withdrawal from courses. This enables the students to be well prepared, minimize their chances of failure in CIE and/or SEE and take full advantage of the flexibility provided by the credit system.
- f) **Induction programme as per AICTE guideline:**
- There is a 3-week long induction programme for the UG students entering the institution, right at the start. Normal classes start only after the induction programme is over.
 - The purpose of the Student Induction Programme is to help new students adjust and feel comfortable in the new environment, inculcate in them the ethos and culture of the institution, help them build bonds with other



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students and faculty members, and expose them to a sense of larger purpose and self-exploration. At the start of the induction, the students learn about the institutional policies, processes, practices, culture and values, and their mentor groups are formed. Its purpose is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them and the society at large.

- The Induction programme shall include proficiency modules in Electronics / Programming skills / Mathematics / Kannada for interested students (based on the courses they have taken during their XI and XII standard) to ensure all students are prepared to pursue the Engineering programme. The induction programme shall also include interactive sessions from distinguished alumni from (administrative sector, academic sector, national organization, multi-national organization in India and abroad every programme.
- g) **Registration of Courses:** Each student registers for coursework at the beginning of the semester. The permissible Course load to be either average number of credits of the Semester of the programme (for first year) or to be within the limits of minimum and maximum credits prescribed in each later Semester. A period of 2-3 days is specifically assigned for this event in the Academic Calendar for the students to seek proctor advice, discuss with the course instructors and complete the formalities.
- h) **Dropping of Courses:** A specific time period is fixed, e.g., in the middle of a semester for this purpose to be based on the review to be conducted of students' performance in CIE by the concerned proctor. The review to mainly assist the students having poor performance to be facilitated to drop the identified course(s) (up to the minimum credits specified for the semester) without being mentioned in the Grade Card. Such Courses to be re-registered by these students



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and taken up for study at a later semester in the programme.

- i) **Withdrawal from Courses:** A specific time period shall be identified by the College towards the end of a semester to help review the students' performance in CIE by the proctor, followed by the students having poor performance to withdraw from identified course(s) (subject to having more than 85% attendance and having the minimum of 16 Credits) with mention in the Grade Card (Grade 'W'). Such Courses to be re-registered by these students and taken up for study at a later semester in the programme.
- j) **Audit Courses:** In Addition, a student can register for courses for audit only with a view to supplement his/her knowledge and/or skills. Here also, the student's grades shall have to be reflected in the Grade Card. But, these shall not be taken into account in determining the student's academic performance in the semester. In view of this, it shall not be necessary for the College to issue any separate transcript covering the audit courses to the registrants at these courses.

7.2 Change of Branch

7.2.4 Procedure:

- 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



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branch.

Vacancy, 'V' being defined as

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

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.

7.2.4 Eligibility to Apply

- i) Only those students who are eligible for III semester as per vertical progression regulations shall be eligible to apply for change of branch.
- ii) SNQ category of students is not eligible for change of branch as per Karnataka State Government norms.
- iii) GOI admitted students, foreign nationals and PIO quota students are eligible for applying for change of branch, however, their applications will be considered under sanctioned intake only. These cases could be considered only if vacancy exists after change of branch of regular students.

7.2.4 Procedure to Apply for Change of Branch

- i) The University/College will invite applications for change of branch for



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the academic year.

- ii) The students shall apply to the University/College with the non-refundable application fee as fixed and notified by the University/College in this regard.
- iii) No requests/applications would be entertained after the last date notified.
- iv) Applying for change of branch does not guarantee the approval for change of branch.

7.2.4 Generation of Merit List

- i) On the basis of applications received, University/College will prepare the merit list as detailed below
 - a) Students who have passed in all subjects shall be placed above in the merit list, as per CGPA.
 - b) Students who have failed in few subjects, but eligible to seek admission to 3rd semester as per vertical progression shall be placed below as per the number of courses failed and as per CGPA.
 - c) Foreign students (admitted under any quota) and students admitted under GOI and PIO etc. will be placed last in the merit list as per the section 7.2.4 (i) and (ii)
- ii) Ties, in case, shall be resolved by considering the percentage obtained at 10+2 level by the applicants.
- iii) Merit list does not depend on the re-evaluation process.

7.3 Change of College or Change of Institution

- 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



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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>

8. CREDIT SYSTEM

8.1 General:

The institution follows a Choice Based Credit System (CBCS) from the academic year 2015-16 onwards. The students have an option of choosing from a wide range of electives (department, cluster and institutional) and complete the programme at their own pace. Value added courses are also offered as a part of extended learning in inter-disciplinary and multi- disciplinary domains. Thus the CBCS facilitates continuous learning and assessment. The CBCS for the various programmes provides a great opportunity to the students in their preparation to meet the challenging opportunities ahead.

I. Major Benefits:

Major benefits accruing by adopting the Credit System are listed below:

- Quantification and uniformity in the listing of courses for all programmes at a College, like core (hard/soft), electives and project work.
- Ease of allocation of courses under different heads by using their credits to meet national/international practices in technical education.
- Convenience to specify the minimum/ maximum limits of course load and its average per semester in the form of credits to be earned by a student.
- Flexibility in programme duration for students by enabling them to pace their course load within minimum/maximum limits based on their preparation and capabilities.
- Wider choice of courses available from any department of the same College



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or even from other similar Colleges, either for credit or for audit.

- Improved facility for students to optimize their learning by availing of transfer of credits earned by them from one College to another.
- In the Credit System, the course work of students is unitized and one credit is assigned to each unit after a student completes the teaching-learning process as prescribed for that unit (credit) and is successful in its assessment.

II. Credit Definition:

Every course offered carries credits which are specified in the scheme of the study and the credit allocation is as given in Table 8.1.2.

Table 8.1.2: Credit Definition

3 (Three) hour Lecture per week	3(Three) Credit
1(One) hour Lecture per week	1(One) credit
2(Two) hours Tutorials per week	1(One) credit
2(Two) hours Practical / lab / drawing per week	1(One) credit

- a) Tutorials conducted for Two hours/ Week/ Semester
- b) Practical classes (Laboratory Courses) conducted for Two hours/ Week/ Semester
- c) Four-credit theory courses shall be designed for 50 hours of Teaching –Learning-Process
- d) Three credit theory courses shall be designed for 40 hours of Teaching –Learning-Process
- e) Two credit theory courses shall be designed for 25 hours of Teaching –Learning-Process
- f) One credit theory course shall be designed for 15 hours of Teaching –Learning-Process

The course content is framed with equal teaching hours for every module / Unit.

8.2 Credit Structure:

A typical Credit Structure for coursework based on the above definition is given in Table 8.2. This shall be applicable for the coursework of students registered for all



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programmes offered by the institution.

Table 8.2: Typical Credit Structure for Various types of Courses

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	-	-

NOTE: Activities like Practical Training, Study Tour, and Participation in Guest Lectures/Conference, association with Co-curricular and Extra-Curricular activities do not carry credits.

Thus, it is more appropriate to specify the eligibility requirements for award of Degree based on course work (like UG, PG) by prescribing the total number of credits to be earned, as an alternative to specifying the Programme duration. This will be of great help in providing the well-needed flexibility to the students in planning their academic programmes and their careers.

8.3 Credits to be earned for award of degree:

The total number of credits to be earned by a student to qualify for the Degree



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award from each Autonomous College is as given in Table 8.3.

Table 8.3: Total Credits to be earned for Award of Degree

Programme		Normal Duration		Maximum number of credits
		Years	Semesters	
UG Degree	B.E./ B. Tech.	4	8	160
	B.E / B.Tech.(Lateral entry)	3	6	120
PG Degree	M. Tech.	2	4	80
	M.B.A.	2	4	100
	M.C.A.	2	4	100

8.4 Course Load in a regular semester:

The ODD and EVEN semesters are known as regular semesters. The course load for a student per semester as well as its minimum and maximum limits, are based on the guidelines by the University, which is based on AICTE Model Curricula for UG/PG Programmes (2023) and considering the academic strength and capability of an average student.

- In the first two semesters, the prescribed course load per semester is fixed and is mandated (16 to 28 credits / semester for the BE programme, M.Tech, MCA programmes, and MBA programme). Withdrawal/dropping of courses in the first and second semester is not allowed.
- In higher semesters, the average load is 22 credits /semester, with its minimum and maximum limits being set at 16 and 28 credits. The variation in credits depends on CGPA. This flexibility enables students (**from 3rd semester onwards**) to cope-up with the course work and helps in improving their academic performance and optimizes the learning outcome.
- **Contact Hours:** Considering the expectations from engineering professionals with UG, PG and Research Degrees in the 21st century, the number of contact hours for students is fixed 28-34 hours/week. This will help students in getting enough time and opportunity to do better preparation for the courses prescribed for credit, to take up self- study, to develop their creative talents and abilities and benefitting from the Add-On courses and



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those taken for audit. This can also enable them to get ready for challenging and exciting careers ahead.

A typical example showing the calculation of contact hours based on course credits is given in Table 8.4

Table 8.4: Typical Course Load per semester

Course Type	Credits of (L:T:P)	Total Credits	Contact hours
Theory Course-1	3:0:0	3	3
Theory Course-2	3:0:0	3	3
Theory with Tutorial-1	2:1:0	3	4
Theory with Tutorial-2	2:1:0	3	4
Theory with Laboratory -1	3:0:1	4	5
Theory with Laboratory -2	3:0:1	4	5
Ability Enhancement Course	1:0:0	1	2
Humanities Course	2:0:0	2	2
Non-Credit Mandatory Course	2 Unit	-	2
Total		23	30

A student shall be permitted to re-register for additional credits (courses awarded with W- Grade/F-Grade), limiting to a maximum of 28 credits, from third semester onwards. This is subject to the following conditions:

- a) The student has secured a CGPA ≥ 7.0
- b) The student doesn't have more than two backlogs from the previous semesters
- c) The student shall ensure that there is no overlapping in time-table for the period and obtain concurrence from the Proctor, subject to the course being offered during the semester.
- d) The student shall submit a copy of documentary evidence in respect of the above (a,b,c) while seeking approval from the concerned HoD.
- e) It is mandatory and responsibility of the student to ensure all the above conditions (a to d) are met for registering additional courses over and above the prescribed credits in a semester, otherwise the registrations for the additional courses shall deemed to be cancelled.



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8.5 Course Load in Regular Semester: (Lateral Entry)

A student shall be permitted to **re-register** for additional credits (courses awarded with W-Grade/NE), limiting to a maximum of **30 credits**, from **third semester** onwards. This is subject to the following conditions:

- a) The student shall ensure that there is no overlapping in time-table for the period and obtain concurrence from the Proctor, subject to the course being offered during the semester.
- b) The student shall submit a copy of documentary evidence in respect of the above while seeking approval from the concerned HoD.

It is mandatory and responsibility of the student to ensure all the above conditions are met for registering additional courses over and above the prescribed credits in a semester, otherwise the registrations for the additional courses shall deemed to be cancelled.

8.6 Course load in Supplementary Semester:

The Supplementary semester is provided for helping students who have failed in their examinations. The Supplementary semester is provided to help the student to avoid losing an academic year. Two Fast Track Semesters are offered during the Four year UG programs. A student is permitted to register for a maximum of 16 credits in each of the Supplementary/Fast Track semester.

First Fast Track after IV semester:

A student of UG program will have the opportunity to register for supplementary semester which is offered after IV semester for courses from I to IV semester, provided he/she has completed the first Internship (if applicable).

Second Fast Track after VIII semester:

A student of UG program will have the opportunity to register for supplementary semester after VIII semester for courses from V to VIII semester provided he/she has completed the required Internship(s).

- a) Students who have satisfied CIE and Attendance requirements for the Course(s) and obtained F Grade in SEE are permitted to appear directly in the



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ensuing examination(s) as backlog paper(s). The student need not repeat the course for attendance and CIE. Students need not re-register for such course(s) in the supplementary/Fast Track semester.

- b) Students who have satisfied CIE and Attendance requirements for the Course(s) and obtained F Grade in SEE are permitted to appear directly in the ensuing examination(s) as backlog paper(s). However, in case, the student wishes to improve CIE, he/she has to re-register for supplementary/Fast-Track semester, as and when offered next.
- c) Course(s) for which the student does not possess satisfactory attendance and CIE score, shall be marked NE in the Grade sheet. The students have to re-register for course(s) marked NE in the supplementary/subsequent semester and earn the required CIE and attendance. Subsequently they are eligible to appear for SEE in such course(s).
- d) Course(s) with Transitional Grades: W, I and X are also eligible to register in supplementary semester, in case they wish to improve the score in CIE.
- e) All courses may not be offered in the supplementary semester. The department / College may offer some courses based on the availability of resources in hand.
- f) Supplementary semester is optional; and the student cannot demand it as a matter of right.
- g) A student is permitted to register for a maximum of 16 credits in Supplementary/Fast Track semester
- h) A student has to choose those courses which are offered by the Institution in a given Supplementary semester

The student has to pay a special fee prescribed by the College to register for a course in the Supplementary semester

8.7 The Proctor System:

The college has a well-organized Proctor System, effective examinations/assessment



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system and a comprehensive Academic Calendar prescribing specific dates for each activity (as in Table 7.1), for good success in realizing the flexibilities.

- i) The college has a Faculty Advisory System (Proctoring system) is to help the students to complete their studies successfully & comfortably. A faculty is called as proctor and the student as proctee. Each Faculty Advisor/Proctor is assigned a group of students.

The functions of the Proctor are to:

- a) Advise the students in the group on all academic matters (like registration of courses, dropping of courses and/or withdrawing from courses),
 - b) Monitor the students' in the group for their individual academic performance,
 - c) Identify students in the group who are slow, average or fast learners to help them pace their studies /learning at the College based on their individual abilities, and
 - d) Serve as a friend, philosopher and guide to all of them in the group during their studentship at the College.
- ii) With the Proctor in place, a student to be normally permitted to register for the average course load in the first semester. And, based on the performance in the semester and faculty advice, he/she to continue with this load (for average and fast learners) or to reduce it to the minimum permissible (for slow learners) by dropping of/withdrawing from some course(s)/credits before the dates prescribed for these. This facility to assist the student to pace the course work, minimize the chances of failure in the course(s) and optimize the learning process.
 - iii) The student's performance in the first year forms the basis for faculty advice on the number of credits to be registered from the third semester onwards (within the minimum/maximum limits of 16 to 28 credits). Further faculty advice and close monitoring to help a slow learner to pace the course work properly by reducing the course load, if required and to minimize the chances



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of failure in the semester.

- iv) The above experience to enable any student to properly plan his/her course load in each succeeding semester, by fixing it to be more than or equal 16 credits and less than or equal to 28 credits based on faculty advice and his/her academic performance in the previous semester. Faculty advice to be also useful to the student in identifying appropriate elective courses.
- v) This experience is to also help fast learners (or outstanding students) to accelerate their programmes by registering and maintaining up to the maximum (equal to 28 credits) course load in each succeeding semester based on their performance in the preceding and the current semesters. Such students to be able to complete the credit requirements of the programme in a shorter time, like 7 semesters in the case of B.E./B. Tech. as example, and use the time towards Value Added Courses or for internship.
- vi) Similarly, slow learners to register only for the minimum (equal to 16) number of credits in each succeeding semester and strive to maintain good performance in all the courses registered and complete the total requirements for the programme at a slower pace, say 9 to 10 semesters in all, in the case of B.E/B. Tech. as example.
- vii) The number of credits earned by a student during the semester/year and Semester Grade Point Average (SGPA) as well as the Cumulative Grade Point Averages (CGPA) shall serve as performance indices to determine the standards as given in the Regulations later.

Expected Outcome of the proctor system:

Reduce the failure rate, motivate the students & improve the overall performance and quality of the student.

9 CURRICULUM FRAMEWORK:

9.1 General Issues:

- a) Curriculum Framework is important in setting the right direction for a Degree/



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Diploma/Certificate programme by the College, as it takes into account the type and quantum of knowledge necessary to be acquired by a student to qualify for a particular award in his/her chosen branch or specialization area.

- b) Besides, this also helps in assigning the credits for each course, sequencing the courses semester-wise and finally arriving at the total number of courses to be studied and the total number of credits to be earned by a student to fulfill the requirements for the conferment. The College takes into account the AICTE Model Curricula notified from time to time and follow them so as to be abreast of the national trends in this connection.
- c) At the time of graduation, the minimum expected skills in every graduating engineer, for global acceptance is defined by NBA, through the Programme Outcomes (POs). The POs are primarily developed through the curriculum, the Course Outcomes (COs) of various courses of the curriculum. Hence, the expected skills to be developed through the POs forms an important factor during curriculum design.

9.2 Curricular Components:

The curriculum includes various curricular components as listed below, with recommended credits (minimum and maximum) for each component, and is dependent on the degree to be awarded:

- a) Humanities and Social Sciences including Management Courses (**HS**);
- b) Basic Sciences Courses (**BS**) (Mathematics, Physics, Chemistry, Biology);
- c) Engineering Sciences Courses (**ES**) (Materials, Workshop, Drawing, Computers);
- d) Professional Core Courses (**PC**), relevant to the chosen specialization/ branch;
- e) Professional Electives Courses (**PE**), relevant to the chosen specialization/ branch;
- f) Open Electives Courses (**OE**), from other technical and/or emerging subject areas, including Sciences and Management;
- g) Group Elective (**GE**), offered for a few programmes



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- h) Group Core (**GC**), offered for a few programmes
- i) Project(s) (**PW**) and Seminar (**SR**)
- j) Internship (**IN**) in Industry, Academic Institution or elsewhere.
- k) Non-credit Mandatory Courses (**NCMC**)

Curriculum includes few elective courses offered through MOOCs under the guidance of the faculty in-charge, who shall be responsible for conducting the required CIE and SEE.

9.3B.E. Degree Programme:

The Curriculum Framework for a B.E. Degree programme includes various curricular components as listed Section 9.2, and complies with recommended ranges by AICTE and VTU. The BE programme includes courses from Basic Sciences (BS), Engineering Sciences, (ES), Professional Core (PC), Professional Elective (PE), Humanities and Social Sciences (HS), Open Electives (OE), Project work(s) (PW), Seminar (SR) and non-credit mandatory courses (NCMC). In addition the BE programme, includes the following:

- a) **Induction Programme:** As per the requirements of AICTE in its Model UG Curriculum (2023), a three-week Induction Programme for the first-year B.E./B. Tech. students at the beginning of their First Semester is included
- b) **Internship:** The scheme also includes Internships that needs to be taken up during summer/winter semester breaks, and is assessed through seminar and report submitted during the Odd/Even semester.

9.3.1 AICTE Activity Points

It is essential for students to earn Activity Points for award of Degree. Regular UG students shall earn 100 Activity Points during the program. Similarly lateral entry students shall earn 75 Activity Points during the program. The Activity Points are reflected in the Grade Card of the VIII semester. Hence, students shall plan to continuously earn the AICTE Activity Points (based on the guidance of the Proctor) as indicated in Table-9.3.1



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**Table-9.3.1: AICTE Activity**

Sl. No	AICTE Activity Head
1	Support to School
2	Business Proposal for village
3	Sustainable water
4	Tourism promotion
5	Promotion of technologies
6	Reduction in Energy consumption
7	Skill rural population
8	Digitized money transaction
9	Women – Social /Economic
10	Efficient garbage disposal
11	Marketing of rural produce
12	Food Preservation/Packaging
13	Automation of local activities
14	Rural outreach programs
15	Contribution to National initiatives - Digital India/ Skill India/ Swachh Bharat Internship etc
16	Contribution to activities in the college (department/Institution Level)

Link for more details regarding activity points

<https://aicte-india.org/sites/default/files/AICTE%20Internship%20Policy.pdf>

9.4 Allocation of Credits for B.E. Degree Programme:

Looking at the UG Engineering Degree programmes practiced at leading institutions in India and abroad and the need for Indian engineering professionals to be able to meet the 21st century challenges, the breakdown of coursework as given in Table 9.4. It is expected that this breakdown leads to a highly useful and respectable B.E. Degree programme under the University.

Table 9.4: Typical Credits distribution for the B.E programme



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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

The above is based on the VTU Autonomous Guidelines (2021-22), and the AICTE Model Curriculum for various UG programs.

- **Basic Science Courses (BS):** Physics, Chemistry, Biology and Mathematics. These are mandatory for all disciplines
- **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).
- **Professional Core Courses (PC):** Refers to Professional Core Course Theory. The theory part of the PC shall be evaluated both by CIE and SEE.
- **Professional Core Courses (PCL):** Refers to Professional Core Course Laboratory. The practical part shall be evaluated by both CIE and SEE.
- **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



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only CIE (no SEE). However, questions from the practical part of IPC shall be included in the SEE question paper.

- **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.
- **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.
- **Project Work(s) (PW):** These are carried out at the parent Institution or any university / Government recognized organization without affecting the regular class work
- **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
- **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.
- **Humanities, Social Sciences and Management Courses (HS):** These are



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mandatory for all disciplines; it includes Management, Skill Enhancement & Ability Enhancement courses (AE).

- **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.

Table 9.4 (a): Course Categories with courses included

Sl. No.	Category	Courses included
1	Humanities and Social Sciences including Management Courses (HS)	Communicative English Professional Writing Skills in English Samskrutika Kannada/ Balake Kannada Indian Constitution Innovation and Design Thinking Social Connect & Responsibility (UHV) Ability Enhancement Courses (3 rd , 4 th and 6 th Semester) Universal Human Values (4 th Sem) Industrial Management & Entrepreneurship Research Methodology and IPR
2	Basic Sciences Courses (BS)	Engineering Physics Engineering Chemistry Engineering Mathematics-1 Engineering Mathematics-2 Engineering Mathematics-3 Scientific Health and Fitness Biology for Engineers Environmental Studies
3	Engineering Sciences Courses (ES)	Engineering Science Course Engineering Science Course-1 Emerging Technology Course Programing Language Course
4	Professional Core Courses (PC)	Professional Core Courses of the respective program Integrated Professional Core Courses of the respective program Professional Laboratory Courses of the respective program



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5	Professional Electives Courses (PE)	Professional elective Courses both Online and offline of the respective program
6	Open Electives Courses (OE)	Open Elective Courses both Online and offline
7	Project(s) (PW), Internship (IN) in Industry and Seminar (SR)	
8	Non-credit Mandatory Courses (NCMC)	

9.4.1 Mandatory Courses

The UG Degree programmes also require the inclusion of certain courses for overall personality development. Hence, the UG programme includes Mandatory Humanities & Social Science Courses, mandatory Ability Enhancement Courses, as well as non-credit mandatory courses, as listed in Table 9.4.1. The non-credit courses are evaluated based on the performance in the CIE (and do not have the SEE component).

Table 9.4.1: Mandatory Courses for B.E. programme

Sl. No.	Course Type	Mandatory Courses for BE programme (both regular and lateral entry students)	Credit
1	HS	Communicative English	1
2	HS	Professional writing skills in English	1
3	HS	Constitution of India, Professional Ethics and Human Rights	1
4	HS	Samskrutika Kannada / Balake Kannada	1
5	HS	Environmental Studies	1
6	AE	Innovation and Design Thinking	1
7	AE	Scientific Foundation of Health	1
9	AE	Mathematics concepts using Python	1
10	AE	Universal Human Values	1
11	NCMC	Personality Development, Aptitude and Communication Skills	P/NP



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12	NCMC	Cultural Activity	P/NP
13	NCMC	Physical Activity	P/NP

9.4.2 Additional Mandatory Courses for lateral entry BE students

In addition to the non-credit mandatory courses for regular BE students, the lateral entry students shall take up the following two non-credit mandatory bridge courses in Mathematics (one in 3rd semester and one in 4th semester) courses as listed in Table 9.4.2. The student shall pass the following non-credit mandatory courses for the award of the degree and must clear these bridge courses before advancing to the 7th semester of the programme.

Table 9.4.2: Additional Mandatory Courses for lateral entry

Sl. No.	Additional Mandatory Courses for Lateral Entry Students of BE Programme
1	Dip-Mathematics-1
2	Dip-Mathematics-2

9.4.3 Sequencing of Courses for B.E. Degree:

The above breakdown of the B.E. Degree curriculum shall form the basis for proper sequencing of the coursework for the programmes. Based on this, a typical sequencing plan for coursework for B.E. Degree programme is given in Table 9.4.3. College also takes into account the provisions in the AICTE Model Curriculum while finalizing the sequencing of courses.

Table 9.4.3: Typical sequencing of curricular components for the B.E programme

Semesters	Course Categories
I–II	<ul style="list-style-type: none"> ➤ HS, BS and ES, Common for all Programmes as per AICTE Model Curriculum. ➤ N C and Mandatory Induction Programme (3 weeks).
III-IV	<ul style="list-style-type: none"> ➤ PC: In two/three groups (like Circuit, Non-Circuit). ➤ HS, BS and ES, Common for all Programmes (to be continued). ➤ Also, NC (to be continued, if required). ➤ Area-wise Orientation, Add-On Courses.



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V-VI	<ul style="list-style-type: none"> ➤ PC/PE/OE, Core and Electives. ➤ Branch-wise Orientation, Add-On Courses, Seminar, Internship.
VII-VIII	<ul style="list-style-type: none"> ➤ PE/OE, Electives, Project work (PW), Dissertation. ➤ Add-On Courses, Seminar, Final wrap-up of Programme.

9.5 PG Degree Programmes:

9.5.1 M.Tech. Programmes:

The College offers PG programmes in Engineering leading to M. Tech, degree. Typical allocation of credits for the programme is given in Table 12. Here, hard core includes all compulsory Courses, whereas soft core covers a choice to be made from among the suggested compulsory Courses. The credit range for each category is based on the guidelines from the University (2022) and the AICTE model curriculum (2022).

Table 9.5.1: Typical Credits distribution for M.Tech. Programme

Course Category	Typical Credits
Basic Core Courses (BCC)	3
Mandatory Credit Course (MCC)	3
Programme Core Courses (PC)	32
Programme Electives (PE)	12
Open Elective (OE)	3
Project Work (PW)	21
Seminar (SR), Industrial Internship/ Field Work (NT)	6
Non-Credit Mandatory Course	4 Units
Total	80

In view of the enhanced focus on Research for M.Tech, programmes, it is



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recommended that the Project work leads to a Research publication in a reputed Journal/Conference or the filing of patent/design with the patent office, or, the start-up initiative with a sustainable and viable business model accepted by the incubation center of the college together with the formal registration of the startup.

9.5.2 M.B.A Programme:

The College offers the PG programme in Master of Business Administration (M.B.A.), with credit distribution among various curricular components as given in Table 9.5.2. The MBA programme includes courses from Professional Core (PC), Functional Electives (FE), Cross Functional Electives (XE), Humanities and Social Sciences (HS), Project (PJ), Seminar (SR) and non-credit mandatory courses (NC).

Table 9.5.2: Typical Credits distribution for the M.B.A. programme

Course Category	Typical credits
Programme Core Courses (Hard/Soft) (PC)	52
Humanities and Social Sciences (HS)	06
Functional Electives (Specialization) (FE)	18
Cross Functional Electives (XE)	06
Seminar (SR)	04
Project Work (PW)	10
Internship/ Field Work (IN)	04
Non-Credit Mandatory Course (NMC)	2 Units
Total	100

It is recommended that the Project work of the M.B.A. programme, leads to a Research publication in a reputed Journal/ Conference, or, the start-up initiative with a sustainable and viable business model accepted by the incubation center of the college together with the formal registration of the startup.



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9.5.3 M.C.A. Programme:

The College offers the PG programme in Master of Computer Applications (M.C.A.), with credit distribution among various curricular components as given in Table 9.5.3.

Table 9.5.3: Typical Credits distribution for the M.C.A. programme

Course Category	Typical Credits
Programme Core Courses (Hard/Soft) (PC)	62
Humanities and Social Sciences (HS)	
Electives (Specialization/Humanities/other)	12
Seminar (SR), mini project with lab	4
Project Work (PW)	22
Industrial Internship (IN)	
Non-Credit Mandatory Course (NCMC)	3 Units
Total	100

It is recommended that the Project work of the M.C.A. programme, leads to a Research publication in a reputed Journal/ Conference or the filing of patent with the patent office, or, the start-up initiative with a sustainable and viable business model accepted by the incubation center of the college together with the formal registration of the startup.

Coursework of Research Degree Programmes: The College offers M. Sc. (Engineering by Research) and Ph.D. programmes. For details, refer to the exclusive Academic Rules & Regulations for Research Programmes.

10 ASSESSMENT:

10.1 Achievement Testing through CIE and SEE:

- The assessment of students' performance in course work during and/or at the conclusion of a programme has to be done using examinations. In general, an



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examination addresses different objectives, like achievement-testing, prediction-testing, endurance-testing, creativity-testing and testing for ranking.

- b) In technical education, the assessment has to be preferably of the achievement- testing type, so that a student's knowledge, understanding and competence in the courses studied are properly assessed and certified. The Regulations given below enable the Autonomous Colleges to achieve this goal and gain the confidence and respect of their stake holders, particularly students. Typically achievement- testing is done in two parts as follows, both of them being important in assessing a student's achievement:
- **Sessional:** Involving **Continuous Internal Evaluation (CIE)**, to be conducted by the course instructor all through the semester. This includes mid-term tests, weekly/ fortnightly class tests, homework assignments, problem solving, group discussions, quiz, seminar, mini-project and other means.
 - **Terminal:** covering **Semester End Examinations (SEE)**, to be conducted by the course instructor jointly with an external examiner at the end of a semester, on dates to be fixed at the College level. This includes a written examination for theory courses and practical/design examination with built-in oral part for laboratory/design courses.
- c) Both CIE and SEE being equally important in judging the coursework performance of students, they need to be conducted with equal rigor and equal seriousness in the credit system. This makes it necessary that both of them are assigned equal (50:50) weightage. And, a student's performance in coursework shall be judged by taking into account the results of both CIE and SEE individually and also together by giving equal weightage for them. This practice is followed for all courses offered and for all programmes.
- d) Three Tests are conducted and the best two of three are considered for CIE component. Additional CIE component is through quizzes/AAT as decided by



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the course faculty and reflected in course outcome.

The TESTs/quizzes/ AAT shall be conducted by the course faculty with due approval from the HoD. Advance notification for the conduction of Quiz is mandatory and the responsibility lies with the concerned course faculty.

Compensatory Test: A Compensatory Test will be provided to those students who are having satisfactory attendance, course-wise but remained absent for the TEST due to a valid/unavoidable circumstances with prior permission OR aim for improvement in the CIE component of the course.

The purpose of conducting internal assessments is to ensure continuous evaluation and measure continuous learning. Hence, the Compensatory Test is conducted purely to address genuine student cases. Hence, only ONE Compensatory Test will be conducted by the course faculty which includes the portion of both internal tests during the period indicated in the Academic Calendar.

10.2 Question Papers:

- a) **Question Paper Pattern:** For an effective achievement testing of students in a course, a good question paper needs to be used as the principal tool. This makes it necessary for the question papers used at CIE and SEE to;
- Cover all sections of the course syllabus uniformly.
 - Be unambiguous and free from any defects/errors.
 - Emphasize knowledge testing, problem solving and quantitative methods.
 - Contain adequate data/ other information on the problems assigned, and
 - Have clear and complete instructions to the candidates.
- b) **Question Paper Planning:** The above requirements make it necessary for a Question Paper to cover the entire syllabus, with a provision for the students to answer questions from the whole syllabus. As students need to be given some choice in the questions included in the Paper, it is necessary for the Question Papers at SEE, in particular, to have built in choice under each module of the syllabus. This factor shall be taken note of and strictly followed by each Autonomous College, while planning of the Question Papers.



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- c) Besides, it is also necessary for the Course syllabi to be drafted properly, be defect-free and also properly given in modular form to enable the setting of good question papers covering the whole syllabus. These aspects have to be taken into account, in particular, by the Boards of Studies.
- d) **Typical Question Paper:** The questions to be included in the Question Papers at CIE and SEE can be of two types as follows and the course instructors as well as the external examiners shall have to be well trained/experienced to set them.
- Multiple Choice Question, having each question to be answered by tick marking the correct answer from the choices (commonly four) given against it. Such a question paper to be useful in the testing of knowledge, skills, comprehension, application, analysis, synthesis, evaluation and understanding of the students. CIE to include questions of this type through quiz or other assessments.
 - Comprehensive Questions, having all questions of the regular type to be answered in detail. Such a Question Paper to be useful in the testing of overall achievement and maturity of the students in a course through long questions relating to theoretical/practical knowledge, derivations, problem solving, modeling, simulation, design, application and quantitative evaluation. Questions of this type are included in both CIE and SEE.
 - **CIE:** The CIE shall be conducted exclusively by the course instructor. The instructor to spell out the components of CIE to the students in advance, maintain transparency in its operation, declare the evaluation results in time and then return the answer scripts and assignment sheets to them as soon as possible. The instructor to also solve the questions from these test papers during tutorial sessions for the benefit of all the students concerned, especially slow learners.

10.3 Continuous Internal Evaluation: UG and PG Programmes

Assessment and evaluation in specific courses: Computer Aided Engineering Drawing



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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
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 or 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.

10.3.1: 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.

10.3.2: 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 and the SEE marks scaled down to 50

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**Table 10.3.3: 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:****Table 10.3.4: 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

Table 10.3.4: 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
Total		100%	100

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

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

1. SEE marks for practical course shall be 50 marks

Table 10.3.5: 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

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.

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

Table 10.3.6: 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



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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

Table 10.3.7: 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
3	Clarity in answering the questions	10%	10
Total		100%	100

Final CIE in Internship Course:

Table 10.3.8: 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

Table 10.3.9: 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

Table 10.3.10: Seminar presentation evaluation for CIE

SL. No.	Description	% of Marks	In Marks
1	Seminar Presentation Skill	25%	25



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2	Understanding of fundamentals	15%	15
3	Clarity in answering the questions	10%	10
Total		100%	50

Final CIE in Seminar Course:**Table 10.3.11: Final Seminar Marks for CIE**

SL. No.	Description	% of Marks	In Marks
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.

Table 10.3.12: 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.

Table 10.3.13: Major Project Phase-I report evaluation for CIE

SL. No.	Description	% of Marks	In Marks
1	Project work by the guide	50%	50



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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.
- 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.

Table 10.3.14: 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.

Table 10.3.15: 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

Final CIE Marks = (A) + (B)

Average internal assessment shall be the average of the 2-tests 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.

Table 10.3.16: CIE Split up for Professional Course (PC)



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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-tests 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.

Table 10.3.17: 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-tests 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.

Table 10.3.18: 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-tests conducted.

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

Table 10.3.19: 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



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		Total Marks	100%	25	10
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.

Class Work:-A

Table 10.3.20: 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

Table 10.3.21: 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)

Table 10.3.22: 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

Final CIE Marks = (A) + (B)



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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.

Table 10.3.23: 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.

Average internal assessment shall be the average of the 2-tests conducted.

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.

10.4 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



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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.
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.
 - a) **Maintenance of Standards:** For ensuring a high standard in both CIE and SEE fully meeting the provisions of the University Statutes and being able to declare the results of students' performance at both these in a time bound manner as per their Academic Calendars, each Autonomous College follows the suggestions given below for conducting the examinations:



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- **SEE:** The SEE shall be conducted jointly by the course instructor and an external examiner appointed for this purpose by the Autonomous College. Here, the external examiner to mainly associate with the work of Question Paper setting, because of the difficulties in having him/her for conducting the evaluation of students' answer scripts due to the tight time schedule for the various tasks connected with SEE, as covered below.
- **SEE Answer Scripts:** The answer scripts of SEE shall be normally evaluated by the course instructor only. But as a healthy step, a Departmental Committee at each Autonomous College to preferably oversee this task and ensure the quality and standard of evaluation and also of the grades awarded in all the cases. The next step to be taken before declaring the results, to include an external review of the SEE conducted.
- **External Review of SEE:** An external review shall be conducted under the aegis of the Board of Studies/Board of Examiners of the Autonomous College by appointing a panel of experts from outside the College for this purpose aiming at a complete review of SEE operation in the College. This shall include such steps as, question paper review, checking random samples of answer scripts, analysis of results/grades awarded and other related aspects. This step to be also necessary for gaining the confidence of the University and of the society at large, on the fairness, transparency and acceptability of the examination practice among the stakeholders.
- b) **Attendance Standards:** All students of Autonomous Colleges under the University shall maintain a minimum attendance of 85% in each course registered. In case of any short fall in this, the Academic Council of the College shall consider the same and shall condone the deficiency in special cases up to 10%. 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).
- c) **Attendance at CIE and SEE:** Attendance at all examinations, both CIE and



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SEE of each course registered shall be compulsory for the students and there shall not be any provision for re-examinations. Any student against whom any disciplinary action by the College/University is pending shall not be permitted to attend any SEE in that Semester.

- d) Passing Standards:** High standards shall be maintained in all aspects of the examinations at Autonomous Colleges under the University. For this purpose, each Autonomous College shall follow the standards of passing at CIE and SEE for each Course, registered, as given in Tables 10.7.1.

Table 10.6.1: Passing Standards at Colleges using Absolute Grading

Evaluation Method	Passing Standard
Continuous Internal Evaluation-CIE	Score: $\geq 40\%$
Semester End Examination-SEE	Score: $\geq 35\%$
Overall Score for Passing is $\geq 40\%$	

e) Successive Failures:

- If a student fails to pass a course even after FOUR Attempts, that course is deemed to be exempted for him/her. Then, the student may choose a course of his/her choice with the same number of credits from the pool of courses stipulated by the concerned BoS. The course so selected should not have been studied by the student or to be studied in higher semester(s). The faculty advisor shall guide/advise the student in this regard.
- This provision is given only for two courses (one at a time) during the entire duration of the programme. However, this is optional and the student can prefer to repeat the same course in which he/she has failed repeatedly.
- 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 NE** in that course (option for withdrawal is not available in such cases).

- f) Project work Evaluation:** The evaluation of CIE of the project work shall be based on the progress of the student in the work assigned by the project



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supervisor periodically evaluated by him/her together with a Project Evaluation Committee (PEC) constituted for this purpose by the department.

- PEC comprises two faculty of the department/programme-wise and one faculty supervisor/Project guide (as assigned by the department for every student/student group).
- Seminar presentation, project report (dissertation) and final oral examination conducted by a common Project Evaluation Committee at the College level shall form the SEE of the project work.
- The evaluation of **SEE** of the project work shall be jointly conducted by the Project Guide and an External examiner.

g) Plagiarism index for Project report/Thesis:

- All project reports shall go through the plagiarism check and the plagiarism index has to be less than 20%.
- A proportionate reduction of marks when the plagiarism check and the plagiarism index is between more than 20% and less than 40%.
- Thesis/Project reports with plagiarism more than 40% and less than 60% shall be asked for resubmission within a stipulated period of six months.
- Thesis/Project reports with plagiarism more than 60% shall be rejected.

h) In the case of other requirements, such as seminar, industrial internship, field work, comprehensive viva voce, if any, the assessment shall be made as laid down by the Academic Council of the College.

i) There shall be no re-examination for any Course in the credit system to take care of such students:

- Who have absented themselves from attending CIE or SEE without any valid reason;
- Who have failed (Grade F) to meet the minimum passing, Standard prescribed for CIE and/or SEE;
- Who have been detained for shortage of attendance in any coursework;
- Who have withdrawn (Grade W) from a Course.



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Such students shall be required to re-register for the Course(s) and go through CIE and SEE again and obtain a Grade E or better in each case. While such students shall have to re- register for the same Course(s) if hard core, they can re-register for alternative Course(s) from among the soft core or elective Courses, as applicable. The re-registration shall be possible only when the particular Course is offered again either in a main (Odd/Even) or a supplementary semester.

- j) **Monitoring/Assessment for Research Degrees:** Students registered for Research Degrees shall be monitored and assessed at College level. For details, refer to the exclusive Academic Rules & Regulations for Research Programmes.

10.5 Evaluation Process

A. First Evaluation and Moderation

I. First Evaluation

Answer scripts (coded scripts) of each class shall be evaluated by an examiner from the panel of examiners, preferably having a minimum of 3 years of experience, according to the scheme of evaluation for the respective course.

II. Moderation

The answer scripts are blind reviewed to ensure quality and accuracy of evaluation as per scheme.

- i) **Moderator:** An external examiner chosen from the panel of examiners approved by the Academic Council.
- ii) **No. of Scripts:** 10% of total scripts spanning the entire range of marks awarded in first valuation are selected for moderation.

Final Marks Awarded After Moderation:

- If the difference between the evaluator & moderator marks is $\leq 10\%$ of maximum marks, then the average of the two evaluation marks will be considered.



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- If the difference between evaluator & moderator marks is more than 10% of maximum marks, then such scripts will go for third evaluation.

III. Third Evaluation

- i) **Evaluator:** An external examiner chosen from the panel of examiners or a senior professor in the department who has taught the course earlier, nominated by COE in consultation with BOE Chairman will be the evaluator.

Final Marks Awarded After Third Evaluation:

- The average marks of the nearest two evaluation marks are taken as final marks.
- If one of the three evaluation marks falls exactly midway between the other two, then higher two evaluation marks are taken and the average of this is awarded as final marks.

B. Disclosure of Answer Books (Answer Book Seeing)

To bring transparency in the evaluation system the evaluated answer books along with the marks awarded to each question is disclosed to students on request as detailed below.

I. Who Can See?

- i) Interested students who are not satisfied with the results of a course can see the answer books after applying for it.
- ii) Such students will have to appear in person and produce the proof of his/her identity to the concerned authorities before seeing of answer books. Answer books will not be disclosed to any person other than the one who has written the exam.

II. Who Will Show? Office of the CoE

III. When? Within 3 to 4 working days after the announcement of results

IV. How to apply?

- i) Interested student must pay the prescribed fee, fill the application form and submit the duly signed application form along with the fee paid receipt to office of CoE by appearing in person before the last date mentioned. In case



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the student is not able to appear in person for some reason, parent/guardian of the student may apply on his/her behalf. However, the student should authorize the same.

- ii) At the time of submitting application, student will produce the proof of his/her identity to the concerned authorities.
- iii) Applications received after the last date and applications found to be not correct in any respect will not be considered.

V. Grievances

- i) If a student is satisfied with the valuation of his/her book and has no grievance, then he/she will fill in a ‘Satisfactory Evaluation Form’ and submit it to Office of CoE.
- ii) If a student has any grievance with respect to the totaling of marks or marks not being awarded to any question/s, then he/she shall fill an ‘Evaluation Grievances Form’ and submit the same to Office of CoE.
- iii) The BoE chairperson will look into such grievances and take corrective measures under the directions of CoE.
- iv) If a student has any grievance with respect to wrong evaluation or expected marks not being awarded, then he/she can apply for ‘challenge evaluation’ by filling a ‘challenge evaluation Form’ and paying the prescribed fees. The form and the copy of the fee receipt will have to be submitted to the office of CoE before the notified last date.

C. Challenge Evaluation

I. Who Can Apply?

- i) Any student who has grievance with respect to evaluation of his/her answer book after revaluation of main SEE can apply.
- ii) Any student who has grievance with respect to evaluation of his/he answer book in Make-up examinations, Backlog Courses examinations or Supplementary Semester End Examinations can apply.



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II. How to Apply?

- i) Students must pay the prescribed fee, fill the ‘Challenge Evaluation Form’ and submit the duly signed application form along with the fee paid receipt to office of COE by appearing in person before the last date mentioned.
- ii) At the time of submitting application, student will produce the proof of his/her identity to the concerned authorities.
- iii) Applications received after the last date and applications not duly signed and submitted by the person seeking challenge evaluation will not be considered.

III. Process

- i) Challenge evaluation will be done jointly by Two Examiners.
- ii) The examiner who has evaluated the same answer book earlier will not be called for challenge evaluation.
- iii) Only those questions for which the student has applied for revaluation will be evaluated in challenge evaluation. The existing marks will not be disclosed to the examiners during challenge evaluation.

Challenge Evaluation Marks:

The marks awarded in the challenge evaluation will be the final SEE marks. There will be no scope for any further review or appeal over and above this result.

10.6 Gracing Policy

- i) If the candidate has failed in only one subject of the examination, then, he/she shall be eligible to a maximum of 3 marks (out of 50 marks), if after gracing the candidate gets minimum prescribed marks and passes in the subject.
- ii) Grace marks awarded for passing the examination is shown only in the ledger and not in the statement of marks.

10.7 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



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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.
- 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



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withdrawal is not available in such cases).

10.8 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.

11 GRADING

11.1 General:

- a) In recent years, the grading system has replaced the evaluation of students' performance in a Course based on absolute marks, because of its many advantages. Therefore, Autonomous Colleges under the University shall follow this practice. Here again, it is necessary to maintain uniformity in the grading practices at different Colleges to ensure that the migration of students or transfer of credits among Autonomous Colleges under the University is made easy.
- b) **Letter Grades:** A letter grade is basically a qualitative measure (an alphabet/letter) giving the performance of a student, such as, Outstanding (**O**), Excellent (**A+**), Very Good (**A**), Good (**B+**), Above Average (**B**), Average (**C**), Pass (**P**) and Fail (**F**), based on the raw score (marks, as in conventional practice) obtained by the student. This is usually arrived at after the student's performance in a Course, which includes both CIE and SEE, is assessed and raw score (marks) for the total are awarded to begin with, followed by grouping of all the students at a Course under different grading levels, as above. If a student is absent for SEE of any of the course, the letter grade assigned to that course shall be F. If the student fails to satisfy Attendance and/or CIE requirement for course(s), then such course(s) shall be marked as



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Not Eligible (NE), i.e., Not Eligible to appear for SEE in that Course(s).

c) **Absolute Grading:** The College adopts the absolute grading system.

11.2 Grade Points:

Depending on the letter grades assigned, a student earns certain grade points. As the grading system can have different scales for grade points (like 5, 8, 10.) with more number of points in the scale being desirable for providing higher resolution in the assessment. Moreover, all Autonomous Colleges under the University need to follow the same scale for uniformity in their operations. Hence, the Autonomous Colleges under the University shall follow the 10- point grading system, as given in Table 11.2 for both the relative grading system and the absolute grading system.

Table 11.2: Grade Points Scales for both Relative and Absolute Grading

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

11.2.1 The grade points given in Table 11.2 helps in the evaluation of credit points earned by the student in a Course as the credit points are equal to the number of credits assigned to the Course multiplied by the grade points awarded to the student in that Course. This shall be used in arriving at the credit index of the student for that semester, as it is the sum total of all the credit points earned by the student for all the Courses registered in that semester.

11.2.2 Earning of Credits: A student shall be considered to have completed a Course successfully and earned credits if he/she secures an acceptable letter grade in the range **O** to **P**. Letter grade **F** in any Course implies failure of the student in that



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Course and no credit shall be earned

Transitional Grades: The transitional grades, such as, 'I', 'W' and 'X' shall be awarded to a student in the following cases. These grades need to be converted into one or the other of the letter grades (O to F) after the student completes his/her Course requirements, including the examinations.

Grade 'I': Awarded to a student having satisfactory attendance at classes and meeting the passing standard at CIE in a Course, but remained absent from SEE for valid and convincing reasons acceptable to the College, like:

- Accident or severe illness may lead to hospitalization, which disables the student from attending Semester End Examination (SEE);
- A calamity in the family at the time of SEE, which requires the student to be away from the College;
- In the event of (i) and (ii) above, it is the compulsory responsibility of the student/ parent/ guardian to inform the college authorities (Proctor/HoD) immediately. The information can be in the form of either written communication, personal communication by parent/guardian/peer or an e-mail or mobile message. The candidate needs to submit all the relevant evidences (Admit/discharge reports from Government/reputed hospitals, police reports, certificates from competent authorities, etc.). Prior intimation is mandatory.

Any intimation after the conduct of examination shall not be entertained.

- In OPD cases such as serious bone injury or orthopedic cases, a diagnostic report with doctors' advice from a reputed government/leading hospital will be considered. **No prescriptions from standalone clinics can be considered for recommendation of 'I' grade**
- **Mere submission of the documents, before the commencement the SEE, does not qualify for the award of I-Grade.**
- The HoD, forwards the request for I-Grade to the CoE. All requests for I-



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Grade, are consolidated and awarded either I-Grade/ F-Grade, based on the reason (together with the documents), and the recommendations of the **Institute level committee** constituted for the same.

- The student is indisposed and cannot take up the SEE, and hence applies for I-Grade, and is aware that his/her request may/may not be considered (Awarded I-Grade if request considered, else awarded F-Grade). The student shall know the status of his request within a week after the conclusion of the last SEE exam, and not before the commencement of the exam.

Grade 'X': Awarded to a student having satisfactory attendance and CIE rating ($\geq 90\%$) in a course, but SEE performance observed to be poor, which could result in an overall 'F' Grade in the Course. No 'F' Grade is awarded in this case but student's performance record is maintained separately. The student will be provided an opportunity in the make-up examination. Hence, the X-Grade is a provision that is automatically addressed during the declaration of the results, and is not an option for students to apply for.

‘W’ Grade:

- ‘W’ Grade is temporarily awarded to a student who has withdrawn from a course.
- ‘W’ Grade for credit courses shall be recorded in the grade card. A student may withdraw from an audit course in which case there shall be no mention of the course in the grade card
- A student with “W” grade must re-register for the course during the Supplementary semester of that academic year and the “W” grade shall be converted to one of the other letter grades (O to P) after the completion of SEE of supplementary semester.
- If the student does not register or appear for the SEE of supplementary semester, the “W” grade shall be converted to an “NE” grade (For B.E. Programme) or “F” grade (For M. Tech. and MBA Programmes).



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- “W” grade is not awarded in supplementary semester.

11.3 Make-up Examination:

The Make-up Examination facility shall be available to the students who have been awarded the transitional Grades (I-Grade or the X- Grade). The Make-up Examination shall be held as per dates notified in the Academic Calendar. 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).

11.4 Grade Card:

Each student shall be issued a Grade Card (or transcript) at the end of each semester. While this shall have a list of all the Courses registered by a student in the semester together with their credits, the letter grades with grade points awarded in each case and those with grades ‘I’, ‘W’ and ‘X’, only those Courses registered for credit and having grade points shall be included in the computation of the student's performance, like SGPA and CGPA. And, the Courses taken for audit shall not form part of this computation. The results of mandatory courses, which are of the non-credit type, shall also be reflected in the Grade Card as PP (for Passed) or NP (for Not Passed). It shall be noted that each UG student shall have to obtain the grade PP in each mandatory course to qualify for the Degree award by the University.

Note: If a student awarded ‘F’ Grade in a **course**, and re-registers for the **same course** later, and applies for Course withdrawal in the **same course**, will be awarded ‘W’ Grade. However, for computation of vertical progression, the course will be treated as ‘F’ Grade.

11.5 Grade Point Averages:

a)SGPA and CGPA:



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The credit index can be used further for calculating the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA), both being important academic performance indices of the student. While SGPA is equal to the credit index for a semester divided by the total number of credits registered by the student in that semester, CGPA gives the sum total of credit indices of all the previous semesters divided by the total number of credits registered in all these semesters. Both the equations together facilitate the declaration of academic performance of a student, at the end of a semester and at the end of successive semesters respectively. Thus,

Semester Grade Point Average (SGPA)

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

(Considering all courses registered in that semester (including those with F Grade)

Cumulative Grade Point Average (CGPA)

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

(For all courses registered until that semester (excluding those with F Grade)

b) Illustrative Example:

An illustrative example given in Table 20 indicates the use of the two equations in calculating SGPA and CGPA, Both of them shall be normally calculated up to the second decimal position, so that the CGPA, in particular, can be made use of in rank ordering the students' performance in a class at an Autonomous College. If two students get the same CGPA, the tie shall be resolved by considering the number of times a student has obtained higher SGPA. But, if it is not resolved even at this stage, the number of times a student has obtained higher grades like S, A, B, shall be taken into account in rank ordering of the students in the class.

Table 11.5: SGPA/CGPA Calculations: An Illustrative Example

Semester Odd:1 st Sem	Course No.	Credits	Grade	Grade Points	Credit Points	SGPA, CGPA
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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:2nd 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.						

11.6 Vertical Progression

11.6.1 Students Admitted to First Year

- 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.
- iii) For the award of degree, a CGPA \geq 5.00 at the end of the program shall be mandatory.

Table 11.6.1: Vertical Progression Criteria for Students admitted to I Year

Year of Study	Programme	Eligibility Criteria



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I Year		-
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.

11.6.1 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.

Table 11.6.2: 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	--

For the award of degree, a CGPA \geq 5.00 at the end of the program shall be mandatory.

Note: From II year onwards, the number of maximum credits that a student can



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register in a semester shall be 28. In any case, the number of credits shall not be less than 16 after dropping/ withdrawal of a course/(s) in that semester.

11.7 Award of Class:

Sometimes, it is necessary to provide equivalence of these averages, viz., SGPA and CGPA with the percentages and/or Class awarded as in the conventional system of declaring the results of University examinations.

There is no formula for the conversion of CGPA into percentage of marks. However, the following Formula for Conversion of Final CGPA to percentage of marks (M), when the CGPA is on a 10-point scale, can be referred for employment/higher studies:

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

11.7.1 Classes Awarded:

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.

Minimum standard for CGPA = 5.0

Students who have completed all courses of the Programme but do not have the CGPA ≥ 5 at the end of the Programme, shall not be eligible for the award of Degree.

In such cases:

- Student shall be permitted to appear again for SEE in course(s) [other than Project, Internship, Technical Seminar and Laboratories], of any semester(s) without rejection of CIE marks for any number of times towards improving SEE.
- In case the student earns improved Grades, the same may be considered for calculation of CGPA.

11.8 Graduation Ceremony

- The College conducts annual Graduation Day ceremony for the award of Degrees



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to students completing the prescribed academic requirements. The Graduation Day is conducted after the University Convocation.

- The College awards Ranks and Medals to the meritorious students during the Graduation Day Ceremony to encourage the students to strive for excellence.
- For award of Rank in a specialization of B.E. Programme the CGPA secured by the students from III to VIII semester shall be considered.
- If two or more students get the same CGPA, the tie shall be resolved by considering the number of times the student has obtained the higher SGPA. If it is not resolved even at this stage, the number of times the student has obtained the higher Grades like 'O', 'A+', 'A' shall be taken in to account to decide the order of the Rank.

12. OTHER ACADEMIC MATTERS:

12.1 Choice Based Credit System:

- a) It is necessary to implement a Choice Based Credit System for academic programmes at all the Autonomous Colleges under the University. This shall be of considerable benefit to the students for customizing their programmes of direct interest to them, developing their individual capabilities and talents and preparing them for exciting careers ahead in the 21st century.
- b) This makes it necessary for the Autonomous Colleges to provide for:
 - i) Easy access to the Schemes of Instruction, Syllabi, Credit Structure of programmes and the Courses being conducted by all students (either in print or in electronic form) so as to assist them in course work planning.
 - ii) Institutionalizing the conduct of course work by adopting a centralized time table for all the programmes at a College, with a view to assist the students in customizing their programmes and also optimizing the use of physical facilities.
 - iii) Establishing a dynamic Faculty Advisory System at each College with 5-10 students assigned to an Advisor, for guiding them in planning/implementing their course work in a flexible and effective manner and also monitoring them.



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12.2 Temporary Withdrawal:

A student may withdraw temporarily from the programme on grounds like, prolonged illness, grave calamity in the family or any other genuine reason. The withdrawal shall be for periods which are integral multiples of a semester, provided that:

- The student applies to the college within 6 weeks of the commencement of the semester or from the date he/she last attended the classes, whichever is later, stating fully the reasons for such a withdrawal, together with supporting documents and endorsement of his/her parent/guardian.
- The college is satisfied of the genuineness of the case and that, even by taking into account the expected period of withdrawal, the student has the possibility to complete the programme requirements within the time limits specified by the university.
- The student does not have any dues or demands at the college/university including tuition and other fees as well as library material.

A student availing of temporary withdrawal from the college under the above provision shall be required to pay such fees and/or charges as fixed by the College until such time as his/her name appears on the students' roll list. **However, the fees/charges once paid shall not be refunded.**

Normally, a student is entitled to avail **the temporary withdrawal facility only once during his/her studentship of the programme.** However, any other concession for the concerned student shall have to be approved by the Academic Council of the college. Hence, the students shall be advised by the Principal to use this provision only in exceptional cases.

12.3 Termination from the Programme:

A student shall be required to withdraw from the programme and leave the Autonomous College on the following grounds:

- a) **Successive Failures:** If a student fails (Grade F) to pass a Course and earn the credits prescribed for the Course **even after five attempts**, the



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admission of the student to the programme shall be terminated. However, such a student can seek admission to the programme afresh.

- b) Failure to secure CGPA ≥ 5.00 on three consecutive occasions to lead the student being asked to discontinue the programme and leave the College.

However,

- Failure to secure a CGPA ≥ 5.00 at the end of any semester for the first time, to attract warning before approval of the student to continue in the following semester (on probation).
- There is a provision for the rejection of total performance of a semester and re-registration for the semester. This shall be done only once in the entire course of studies.
 - a) Absence from classes for more than six weeks at a time in a semester without leave of absence being granted by the competent Authority.
 - b) Failure to meet the standards of discipline as prescribed by the Autonomous College from time to time.

12.4 Students' Feedback:

- a) The college obtains feedback from students on their course work and various academic activities conducted. The feedback is obtained on-line from the students at regular intervals maintaining confidentiality
- b) The feedback received from the students is reviewed/discussed by a committee constituted for the purpose and necessary corrective measures are taken.

12.5 Recommendations for Degree Award:

A. Eligibility for the Award of Degree:

Degree is awarded to the students satisfying the following conditions:

- i) Securing the required credits as indicated in Table 5.1.
- ii) Secured CGPA ≥ 5.00 (To be read with Section (C)].
- iii) Should not have any Transitional grades (I, X, W) in any courses.
- iv) Should have passed in all mandatory non-credit courses.
- v) Should have completed Additional Mathematics I and II courses, if admitted



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to second year (Applicable to B.E. Lateral Entry).

- vi) Should not have any dues to the institute.
- vii) Should not have any pending disciplinary proceedings.
- viii) Should have acquired the prescribed AICTE Activity Points.

B. Activity Points for the Award of Degree

Apart from technical knowledge and skills, to be successful as professionals, students should have excellent soft skills, leadership qualities and team spirit. They should have entrepreneurial capabilities and social responsibility. So, AICTE has created a unique mechanism of awarding Activity Points over and above the academic grades.

- i) Every regular student admitted to the 4 year degree programme and every student entering 4 year degree programme through lateral entry, shall earn 100 and 75 Activity points respectively for the award of degree through AICTE activity programme.
- ii) Students transferred from other Universities to fifth semester are required to earn 50 Activity points from the year of entry to the Institute.
- iii) The activity points earned by the student shall be reflected in the eighth semester grade card.
- iv) The activities can be spread over the years (duration of the programme), anytime during the semester weekends and holidays, as per the interest and convenience of the student from the year of entry to the programme. However, minimum hours specified must be satisfied.
- v) Activity points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.
- vi) If a student fails to earn the prescribed Activity points, eighth semester Grade
- vii) Card shall be issued only after earning the required Activity points. Students shall be admitted for the award of degree only after the release of the eighth semester grade card.
- viii) The activity points to be earned by the student may vary from time to time



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as per the guidelines from the competent authority.

C. Recommendations for the Award of Degree

- i) The College shall forward its recommendations to the University in respect of students qualifying for UG/PG/ Research Degree Awards after receiving approval from the Academic Council.
- ii) Only those students recommended for the Award of Degree Award shall be entitled to receive the relevant Provisional Certificates/Transcripts from the College.

D. Noncompliance of CGPA \geq 5.00 at the end of the Program

- i) Students who have completed all the courses of the program but not having a CGPA \geq 5.00 at the end of the program shall not be eligible for the award of the degree.
- ii) In cases of students not eligible for the award of degree as per Section (C) (i), students are permitted to appear again for SEE in course/s of any semester/s by rejecting the performance of the course/s [other than Internship, Project (Mini and Main), and Laboratory Courses] for any number of times, subject to the provision of maximum duration of the program, to make up the CGPA \geq 5.00 for the award of the Degree.
- iii) Students shall obtain written permission from the Controller of Examinations to reappear for SEE to make up the CGPA \geq 5.00.

E. Consideration of Grades obtained from Reappeared Courses:

- i) In case the students earn improved grade/s in all the reappeared course/s, the CGPA shall be calculated considering the improved grade/s. If it is \geq 5.00, the student shall be eligible for the award of the degree. If it is $<$ 5.00, the students shall follow the procedure laid in Section (C) (ii).
- ii) In case the students earn the improved grade/s in some course/s and the same or lesser than the previously earned pass grade/s in some of the reappeared course/s, the CGPA shall be calculated considering the improved grade/s and the pass grades earned before the reappearance. If it is \geq 5.00, the student shall



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be eligible for the award of the degree. If it is < 5.00 , the students shall follow the procedure laid in Section (C) (ii).

- iii) In case the students earn the improved grade/s in some course/s and fail in the other reappeared course/s, the CGPA shall be calculated by considering the improved grade/s and the previously earned pass grade/s of the reappeared course/s in which the students have failed. If it is ≥ 5.00 , the student shall be eligible for the award of the degree. If it is < 5.00 , the students shall follow the procedure laid in Section (C) (ii).
- iv) In case, the students fail (i.e., earn 'F' Grade) in all the reappeared course/s, pass grade/s of the course/s earned by the students before the reappearance shall be retained. In such cases, the students shall follow the procedure laid in Section (C) (ii).

12.6 Award of 'Honours' at B.E Degree Programme

A. General

- i) These provisions aim at facilitating the award of higher qualifications and recognition to well performing undergraduate students at the College on their acquiring additional credits in the same time period for the programs.
- ii) These Regulations shall be applicable to all BE Degree programs being conducted by the College.

B. Eligibility Criteria for Registration:

Every Student intending to register for the 'Honours' Qualification shall fulfil the following academic requirements:

- i) Should be a student of V Semester.
- ii) Have obtained a grade $\geq D$ in all the courses from I to IV Semesters in the First attempt only.
- iii) Have obtained a CGPA > 7.50 at the end of the IV Semester.

C. Registration Procedure

- i) All applicants fulfilling the required eligibility criteria as per Section shall register for the 'Honours' with their respective faculty mentor in the prescribed form along with the prescribed application fees within the last date after notification from the Office of COE. Applications received after the last



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date shall not be considered for registration.

- ii) Mentors shall verify the eligibility of all the applicants and submit the list of eligible and applied students to the HODs. HODs shall forward the list to the Office of COE before the notified last date duly endorsed by the Dean (Academic Affairs).
- iii) There shall be no limit on the intake of students for registration for the Honours qualification.
- iv) If registered, the students shall pay a one-time non-refundable Registration fee as prescribed by the College to confirm the registration.

D. Requirements for ‘Honours’ Qualification

I. Selection of Additional Coursework

- i) In addition to the courses prescribed to be completed from V to VIII Semesters, each student registered for the ‘Honours’ qualification shall have to take up the online courses totaling to 18 or more credits and complete the same before VIII Semester.
- ii) Selection of online courses totaling to 18 or more credits shall be from the bouquet of BOS approved list of MOOCs (chosen from NPTEL/SWAYAM/other platforms) corresponding to each Engineering Program announced by Dean (Academic Affairs).
- iii) The Credits equivalence for online NPTEL courses shall be determined based on the following Table 12.6D.

Table 12.6D: Assigned Credits

Online Course Duration	Assigned Credits
04 weeks	01
08 weeks	02
12 weeks	03

- iv) Student shall select, in consultation with the concerned faculty Advisor, the MOOCs such that the content/syllabus of them are not similar to that of the programs first to eighth semesters core courses, professional elective or open electives that the student chooses at later Semesters of the program.
- v) In case of violations of Section 1.4 (A) (iv), the credits earned by the



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students in such course/s shall not be considered for the summation of prescribed 18 or more credits and hence for the award of ‘Honours’ Qualification.

- vi) The College shall have the freedom to review and approve additional online courses and platforms from time to time.

II. Completion of Additional Coursework and Earning Credits

- i) The students shall earn the credits by only appearing in person to the proctored examination conducted by NPTEL/SWAYAM/other platform. College cannot conduct examination and award credits in lieu of NPTEL/SWAYAM/Other platform to accrue 18 or more credits for the award of ‘Honours’ Qualification.
- ii) The method of assessment shall be as per the NPTEL online platform.
- iii) Students shall complete each coursework successfully irrespective of the number of attempts, with a final score {online assignments:25% + Proctored: 75% } leading to NPTEL Elite {60 to 75% } / Elite - Silver {76 to 89% }/ Elite-Gold {> 90% } Certificate, within the minimum prescribed duration for the recognition of ‘Honours’ Qualification.
- iv) Students shall be permitted to drop the registered coursework/s and select alternative coursework/s in case they cannot appear for proctored examination/s or complete the examination as per Section (B) (iii).

III. Post-completion of Additional Coursework

- i) Students who successfully complete the requirements of ‘Honours’ Qualification as per the Section (A) and (B) shall submit the certificates to their Faculty Advisor against the notification issued by the COE. Faculty Advisors in turn shall submit the list of students who are eligible for the ‘Honours’ Qualification along with the total credit earned by each student and the corresponding MOOC certificates to respective HOD within time as per the calendar.
- ii) HODs shall constitute a committee comprising of senior faculty of the



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department with himself/herself being the Chairman of such committee to verify the compliance with respect to the eligibility of the candidates for the award of 'Honours' Qualification.

- iii) HODs shall submit the final list of students who are eligible for the 'Honours' Qualification along with the total credit earned by each student and the corresponding MOOC certificates to the Office of COE before the last date as per the calendar. The list shall be validated by the Faculty Advisor of the student under consideration, members of the Scrutiny Committee and endorsed by the HOD & Dean (Academic Affairs).
- iv) Those students who cannot/do not submit the certificates on or before the last date prescribed by the College shall not be considered for the award of 'Honours' qualification, irrespective of the number of Credits earned by them. However, they shall be awarded only B.E Degree.

E. Award of 'Honours' Qualification

I. Eligibility

- 1) Completion of online courses totaling 18 or more credits with a final score leading to NPTEL Elite / Elite - Silver / Elite-Gold Certificate, within the end of VIII Semester. [Compliance of Sections (A), (B) and (C)]
 - (a) Maintaining a grade $\geq D$ in all the courses of V to VIII Semesters in first attempt only.
 - (b) Students failing to maintain a grade $\geq D$ in all the courses of V to VIII Semesters in first attempt only shall discontinue the attempt to earn additional credits.
- 2) Having a CGPA ≥ 7.5 at end of program even if they have satisfied the additional credits consideration prescribed for 'Honours' Qualification.

II. 'Honours' Qualification

- i) The 'Honours' qualification shall be suffixed to the respective degree and shown in the Degree certificates as a recognition of higher achievement by the student concerned.



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- ii) The CGPA earned by the students shall be only based on student performance in the various semester level examinations conducted by the College.
- iii) Additional credits earned through NPTEL shall not be considered for CGPA of B.E Program as well as rank declaration.
- iv) The college shall forward its recommendations to the University in respect of students qualifying for ‘Honours’ after receiving approval from the Academic Council.
- v) Only those students recommended for the ‘Honours’ Qualification shall be entitled to receive their Transcripts indicating the achievements.

12.7 Graduation Ceremony:

The College conducts annual Graduation Day ceremony for the award of Degrees to students completing the prescribed academic requirements. The Graduation Day is conducted after the University Convocation.

The College awards Ranks and Medals to the meritorious students during the Graduation Day Ceremony to encourage the students to strive for excellence.

12.7.1 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. In case of PG



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programmes, the CGPA secured by the students from first to final 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.

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.
- iii) Students who have N / I / W / X / F grade in a course in any semester.

NOTE: Only such students who have completed the academic requirements for award of a specific degree within the normal duration (Section 4.4(a)) shall be eligible for awards.

13. OTHER ISSUES

13.1 Quality/Standard:

- a) The quality/standard of engineering professionals is closely linked with the level of the technical education system. As it is now recognized that these features are essential to develop the intellectual skills and knowledge of the



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professionals for being able to contribute to the society through productive and satisfying careers as innovators, decision makers and/or leaders in the global economy of the 21st century, it becomes necessary that certain improvements are introduced at different stages of their education system.

- b) These requirements include:
- i) Selective admission of students to a programme, so that merit and aptitude for the chosen technical branch or specialization are given due consideration.
 - ii) Faculty recruitment and orientation, so that qualified teachers trained in good teaching methods, technical leadership and students' motivation are available.
 - iii) Instructional/Laboratory facilities and related physical infrastructure, so that they are adequate and at the contemporary level.
 - iv) Access to good library resources and Information and Communication Technology (ICT) facilities, to develop the student's self-learning abilities.
 - v) Adequate opportunities and facilities for the development of the student's aptitudes and attitudes so that the professionals are conscious of social/other responsibilities.

13.2 Interpretation

Any question as to the interpretation of these rules and regulations shall be decided by the College, whose decision shall be final and binding on the student in the matter. The College shall also have the power to issue clarifications to remove any doubt, difficulty or anomaly, which may arise in regard to the implementation of these regulations.

: NOTE:

These rules and regulations may be altered/changed from time to time by the academic council. Failure to read and understand the rules is not an excuse.