

ACADEMIC RULES AND REGULATIONS

For Four Year

BACHELOR OF ENGINEERING

Degree Programme

&

Scheme of Instructions and Syllabi

B.E. I Year

(With effect from the Academic Year 2024 - 25)



Estd : 2008

METHODIST COLLEGE OF ENGINEERING AND TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)

Accredited by NAAC with A+ Grade and Accredited by NBA

Approved by AICTE, New Delhi Affiliated to Osmania University Abids,

HYDERABAD-500001, Telangana.

B.E. PROGRAMME (Full time)

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**ACADEMIC RULES AND REGULATIONS FOR FOUR YEAR
B.E PROGRAMME UNDER AUTONOMY EFFECTIVE FROM
THE ACADEMIC YEAR 2021-22**

1. PREAMBLE

Methodist College of Engineering and Technology (MCET) was established in the year 2008 on a sprawling 5.0 acre of historic Methodist campus at Abids, Hyderabad. The college provides a serene and tranquil environment to the students boosting their mental potential and preparing them in all aspects to face the global competition with a smile and emerge victorious. The MCET has been established with the support of Executive board of Methodist Church in India that has been gracious and instrumental in making the vision of an Engineering College a reality. The MCET is approved by AICTE New Delhi and affiliated to Osmania University, Hyderabad. The College is accredited by NAAC with A+ Grade and all eligible Undergraduate - B.E Programmes are re-accredited by National Board of Accreditation (NBA). The UGC has granted autonomy to the college for ten years with effect from Academic Year 2021-22.

The College offers following UG and PG Programmes.

UG-B.E PROGRAMMES

- Computer Science & Engineering (Artificial Intelligence)
- Computer Science & Engineering
- Computer Science & Engineering (Artificial Intelligence & Machine Learning)
- Electronics and Communication Engineering
- Electrical and Electronics Engineering
- Civil Engineering
- Mechanical Engineering

PG-PROGRAMMES

- M.E in Mechanical Engineering (CAD/CAM)
- Masters Degree in Business Administration (MBA)

2. PRELIMINARY DEFINITIONS AND NOMENCLATURE

These rules are applicable to the students who are admitted to B.E Eight Semesters Programme under Autonomy with effect from the academic year 2024-25. The preliminary definitions and nomenclature are furnished in the following table.

S. No	Keywords	Definition
1	Programme	An educational Programme leading to the award of Degree B.E
2	Admission Procedure	The process of admissions as prescribed by Government of Telangana
3	Academic Year	Two consecutive (Odd + Even) semesters constitute one academic year.
4	Semester	Each semester will consist of 16 weeks of academic work equivalent to 90 actual working days. The odd semester may be scheduled from July to December and even semester from January to June.
5	Course	A course usually means an individual subject either theory/laboratory. The Courses shall define learning objectives and Learning outcomes.
6	Course Content	Any informational material that is required for participation/understanding the content such as assigned readings, video recordings, examinations and any other material needed for learning
7	Credit	A unit by which the course work is measured. It determines the number of hours of instructions required per week.
8	Letter Grade	It is an index of the performance of students in a said course, grades are denoted by letters like S, A, B, C, D, E etc.
9	Grade Point	It is a numerical weight allotted to each letter grade on a 10-point scale.
10	Credit Points	It is the product of grade point and number of credits for a course
11	SGPA	Semester Grade Point Average (SGPA) is a measure of performance of work done in a semester. It is the ratio of total credit points secured by a student in various courses registered in a semester and the total course credits obtained during that semester. It shall be expressed up to two decimal places.
12	CGPA	Cumulative Grade Point Average (CGPA) is a measure of overall cumulative performance of a student over all the

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		semesters. The CGPA is the ratio of sum of product of SGPA in a semester and credits of that semester to the total credits of all semesters. It is expressed up to two decimal places.
13	Grade Sheet	Grade sheet shows the grades earned in all the courses registered in a semester. The grade sheet shall display the course details (course title, number of credits, grade secured etc.) along with SGPA of that semester, in case the student passes all the courses in a semester.
14	MCET	Methodist College of Engineering and Technology

3. UNDER - GRADUATE DEGREE PROGRAMMES ON OFFER

MCET offers a Four Year B.E degree Programme in Engineering under autonomy with effect from the academic year 2021-22.

4. ADMISSION PROCESS

The eligibility criteria for admission in to Engineering Programme offered at MCET shall be as prescribed by the Government of Telangana. The criteria are as mentioned below:

- The candidate shall be an Indian National / NRI.
- A candidate for admission to the Four Year Degree Programme in Engineering must have passed the Intermediate Examination (10+2) or equivalent as on the date of admission as recognized by the Board of Intermediate Education (BIE), Government of Telangana with Mathematics, Physics and Chemistry as optional courses, or any other examination recognized by the Osmania University as equivalent thereto.
- All the eligible applicants shall have to qualify at the Common Entrance Examination. The candidates will be admitted strictly in accordance with the merit secured at the Entrance Examination conducted by the State Government of Telangana, keeping in view the rules in force regarding the reservations of seats to various categories of candidates.
- Seats in each Programme in the Institute are classified in to two categories i.e. Category–A and Category–B as per the GOs.

4.1 Category - A Seats

70% of the sanctioned seats shall be filled through counseling as per the rank secured by a candidate in the Common Entrance Test (TSEAMCET) conducted by the Government of Telangana and as per other admission criteria laid down in the GOs.

4.2 Category - B Seats

30% of sanctioned seats shall be filled by the Institute as per the GO issued by the Government of Telangana from time to time.

4.3 Direct Admission to third semester (Second Year) under

4.3.1. Lateral Entry Scheme:

A candidate shall be admitted in to the third semester based on the rank secured by the candidate in the Engineering Common Entrance Test, TSECET (For Diploma Holders) conducted by the Government of Telangana and as per other admission criteria laid down in the GOs of the Government of Telangana.

4.3.2. Admission for Working Professionals:

A candidate shall be admitted into the **third semester** based on the **rank secured in the Common Entrance Test (CET)** conducted by *Osmania University* (for working professionals), and in accordance with the admission criteria prescribed in the **Government Orders (GOs) of the Government of Telangana**.

The minimum qualification required shall be the same as that prescribed for **Lateral Entry into the Second Year**. In addition, the candidate must be a working professional with a **minimum of one year full-time, regular work experience** in a **registered industry/organization** (Central/State Government, Private, Public Limited Company, or MSME) located **within a 50 km radial distance from the institute**.

MEDIUM OF INSTRUCTION

The medium of instruction shall be English for all the Courses including their content delivery and examinations, seminars, presentations and project evaluation as prescribed in the Programme curriculum.

6. B.E PROGRAMME STRUCTURE

The structure of the B.E. Programme on offer at MCET is based on the Choice Based Credit System (CBCS) and Credit Based Semester System (CBSS) as defined by the UGC and the curriculum /course structure as suggested by the AICTE in its Model Curriculum.

6.1. Duration and Programme of Study

The B.E. Programme offered at MCET follow semester scheme pattern. The duration of a B.E. Programme shall be of 4 academic years spread over 8 semesters. Each academic year shall have 2 semesters i.e., odd and even semesters and shall be counted as first semester, second semester, third semester and soon up to eighth semester.

Each semester shall have Continuous Internal Evaluation (CIE) and Semester End Examination (SEE).

Each semester shall consist of 16 weeks of academic work that includes internal tests and excludes End semester examinations and evaluation.

S. No	Duration	Particulars
1	16 weeks	Instruction per semester including continuous internal Examinations (CIE)
2	2 Weeks	Preparation Holidays including Practical examinations
3	2 Weeks	From Commencement of Semester End Examinations(SEE)
4	6 Weeks	Break/Supplementary/make-up examination/ Mini Project /Internship etc

- Each student shall secure the prescribed credits for each Programme with a CGPA ≥ 4.5 required for the completion of the UG Programme and the award of the B.E degree.
- Admission/ readmission/ promotion are NOT entertained after four weeks of the commencement of instruction.
- In case there are any court cases consequent to which the authorities are compelled to admit any candidate after the announced last date of admissions, the admission (seat) of such a student would be reserved for the subsequent year on a supernumerary basis.

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- No refund of Tuition fee will be made after the commencement of instruction for students who wish to cancel their admission. The schedule of study of all Programmes is regulated by the Academic Council of the Methodist College of Engineering and Technology.
- Under CBCS Programme, the duration shall be defined by the period in which a student earns the prescribed credits for the award of B.E degree.

6.2 Normal Duration

- The duration of the B.E degree Programme shall be Eight Semesters (four years)
- The duration of the B.E degree Programme under Lateral Entry Scheme (LES) & working professionals shall be six semesters (three years)

6.3 Maximum Duration

- Candidate who fails to fulfill all the requirements for the award of the degree as specified herein after within (N+2) academic years from the time of admission, will forfeit his/her seat in the Programme and the admission will stand cancelled, where N 'is the no. of years of Programme of study (four years for regular students, three years for lateral entry students & the working professionals).
- The maximum period for a Programme shall also be dictated by the fact that a student has to demonstrate the prescribed minimum academic performance by registering for the prescribed minimum number of credits in every semester, for continuing in the Programme. This period can be equal to or lesser than the maximum period indicated as above.

7. RULES AND REGULATION OF ATTENDANCE

- Candidates admitted to a particular Programme of study are required to pursue a Regular Programme of Study before they are permitted to appear for the Semester End Examination.
- A Regular Programme of Study means putting in attendance of not less than 75% in each semester and registering for the examination.
- In special cases and for sufficient cause shown, the Principal/ Chairman, Academic Council may on the specific recommendations of the Head of the

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Department, condone the deficiency in attendance to the extent of 10% on medical grounds subject to submission of medical certificate and payment of condonation fee as prescribed by the Governing Body.

- Attendance of N.C.C /N.S.S Camps or Inter-Collegiate or Inter-University or Inter-State or International matches or debates or Educational Excursions or such other Inter-University activities as approved by the authorities involving journeys outside the city in which the college is situated will not be counted as absence. (i)Such absence shall not exceed four (4) weeks of the total period of instructions in a semester. (ii) Such leave should be availed with prior permission from the Principal and not be availed more than twice during the Programme of study. (iii) Without any prior permission, such leave shall be treated as absence. (iv)While calculating the attendance, the no. of classes not attended in each subject should be deleted in the denominator.
- The attendance shall be calculated on the aggregate of the papers/ Courses from the date of commencement of classes/ date of readmission incase of detained candidates as per the almanac communicated by MCET.
- In case of the candidates who fail to put in the required attendance in a semester of study, they shall be detained in the same semester and will not be permitted to appear for the Semester End Examination. Such candidates shall have to seek readmission in to the same semester during the subsequent year in order to appear for the examination after fulfilling the attendance requirements and on payment of requisite tuition fee.
- Candidates admitted to the first year through an entrance test and do not have the requisite attendance but have more than 40% attendance in the first semester can seek readmission in the next academic year without once again appearing for the entrance test, such seat can be considered as supernumerary.
- In respect of candidates of such Programmes where the admissions are governed through an entrance test, candidates of First semester who do not have the minimum 40% attendance would lose their seat and they will have to seek admission afresh by appearing at the entrance test once again.

8. SCHEME OF INSTRUCTION AND EXAMINATION

8.1 Assessment Procedures for Awarding Marks

All UG engineering programs include a combination of **Theory Courses**, **Practical/Laboratory Courses**, and **Employability Enhancement Courses**. These enhancement courses include project work, seminars, internships, and professional training. For a student to be evaluated, appearing in the Semester End Examination (SEE) is mandatory for all courses. Each course is evaluated based on a combination of **Continuous Internal Evaluation (CIE)** and a Semester End Examination (SEE).

8.2 Evaluation procedure and distribution of marks

The evaluation shall be based on Outcome Based Education (OBE). All the courses shall be evaluated for 100 marks except project work in 8th semester. The project work (for Civil Engineering program and / Project work –II (for all other programs) in 8th semester shall be evaluated for 200 marks. The distribution of marks shall be 40 % for continuous internal examination (CIE) and 60 % shall be for the semester end examination (SEE) for all the courses.

8.2.1 Theory Courses

- The syllabus for the theory courses shall be divided into FIVE units and each unit carries equal weightage in terms of marks distribution.

8.2.1.1 Continuous Internal Evaluation (CIE - 40M)

Continuous Internal Evaluation (CIE) shall consist of written examination (Internal Exam-25M), Quiz (Q-5M), Assignment (A-5M) and Class Assessment (CA-5M).

i. Internal Examination (25 Marks):

- For theory Courses, two internal examinations shall be conducted as per the academic calendar.
- Each internal examination shall be evaluated for 25 marks.
- The average of the two internal examinations shall be considered for the final Internal Exam marks.

The question paper pattern for internal examinations (25 Marks) shall be as follows:

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PART-A: $5 \times 2 M = 10 M$ - All questions are compulsory

PART-B: $3 \times 5 M = 15 M$ (three out of four questions have to be answered).

ii. Quiz (Q) – 5 Marks

- Each quiz shall comprise of 10 questions with 0.5 Marks per question
- A total of five quiz examinations shall be conducted per course during the semester, either offline or online mode.
- The average of all five quizzes will be considered as the final quiz marks for that course.

iii. Assignment (A) – 5 Marks

- A total of five assignments shall be assigned to the students, one from each unit, upon the completion of the respective unit.
- Each Assignment is evaluated for 25 Marks, which is then scaled down to 5 marks.
- The average of the marks obtained in all five assignments shall be considered for the final assignment score.

iv. Class Assessment (CA) – 5 Marks

- The CA marks of each subject will be acquired by performing technical seminars in the respective courses.
- Students are evaluated for a maximum of 5 marks based on the technical content of the seminar topic, presentation and communication skills of the student.

8.2.1.2 Semester End Examination (SEE – 60 Marks)

- The Semester End Examination (SEE) shall be conducted as per the Institution academic calendar.
- Each SEE shall be evaluated for **60 marks** and conducted by the Institution Examination Branch under the supervision of the Controller of Examinations.
- The syllabus for the theory Courses shall be divided into FIVE units and each unit carries equal weightage in terms of marks distribution.
- The SEE Question Paper pattern (60 Marks, 3 Hours) shall be as follows:

PART-A: $10 \times 2 M = 20 M$

- There shall be two questions from each unit.

- All questions are compulsory.

PART-B: 5 x 8 M = 40 M

- Part B consists of 8 questions - one question from each of the five units and 6th question covering 1st and 2nd units, 7th question covering 3rd and 4th units and 8th question covering 5th unit and any other units from 1 to 4 having more weightage.
- Five questions are to be answered out of the eight and each question carries 8 marks.
- There could be a maximum of three subdivisions in each of the 8 questions in Part B.
- Course Outcome, Blooms Taxonomy levels and Maximum marks are to be indicated against each question both in CIE and SEE question papers.
- The **total marks for a course are 100 (CIE: 40 + SEE: 60)**. A student must secure a **minimum of 40 marks out of 100 to pass**. There is no minimum requirement in CIE, however the student must secure **at least 40% of 60 marks (24 marks)** in SEE and overall 40 marks out of 100, irrespective of CIE performance.

8.2.2 Laboratory Courses

In the Practical/Laboratory courses, the students' performance shall be evaluated based on: a). Continuous Internal Evaluation (CIE) during the course delivery and b). Semester End Examination (SEE) at the end of the course.

For Laboratory courses out of 100 marks, 40 marks are allocated for CIE and 60 marks for SEE. Appearance in Semester End Examination (SEE) is mandatory.

1. Continuous Internal Evaluation (CIE):

Continuous Internal Evaluation method is adopted for laboratory courses of all semesters and 40 marks are allocated and distributed as under:

- **Day-to-day Evaluation (30 Marks):** At the end of each experiment, the student is evaluated for 30 marks by allocating marks as given under: Procedure, Observation and Results -15 marks; Viva-Voce - 10 marks and Record-5 marks

Average of marks obtained in all experiments is considered as the marks obtained in day to day evaluation).

- **Internal Examination (10 marks):**

After all the experiments are completed during the semester, an internal examination shall be conducted for 10 marks by allocating marks as given under: Procedure, Observation and Results - 5 marks and Viva-Voce – 5 marks.

The sum of marks from the Day-today evaluation (30 Marks) and Internal Examination (10 marks) constitute the CIE marks (40 marks) for a student in a particular laboratory.

2. Semester End Examination (SEE):

SEE for Laboratory courses will be conducted by internal and external Examiners, 60 marks are allocated for each Lab course and distribution of marks is as follows: Procedure -10 marks; Execution, Calculations and Results-30 marks and Viva-voce-20 marks.

The **total marks for a course are 100 (CIE: 40 + SEE: 60)**. A student must secure a **minimum of 50 marks out of 100 to pass**. There is no minimum requirement in CIE, however the student must secure **at least 50% of 60 marks (30 marks)** in SEE and 50% of overall total 100 marks irrespective of CIE performance.

For Programming related SEE of Laboratory courses, the chairperson – BOS may take appropriate decision for distribution of 60 marks.

8.2.3 Internships

- Internship-I (for mechanical engineering program) shall be carried out individually for duration of 2–4 weeks during the summer break following the 4th semester, with formal evaluation held in the 5th semester.
- Internship-II (for mechanical engineering program) and Internship (for other programs) shall be carried out individually for duration of 4–6 weeks during the summer break following the 6th semester, with formal evaluation held in the 7th semester.
- Students may intern at government or private organizations, including IT/software companies, R&D institutions, or other relevant technical industries.

- Each student is guided by faculty coordinator from the institution and an industry mentor from the host organization.
- Each student must submit proof of internship engagement (offer letter), a completion certificate from the host company, a finalized internship report in the prescribed format, and deliver a presentation/viva-voce before a faculty panel. The assessment follows a 100-mark scheme, divided into internal (40 marks) and external (60 marks) evaluation.
- Internal evaluation (40 marks) is conducted by the faculty guide and focuses on the quality of the internship report (20 marks) and presentation skills (20 marks). External evaluation (60 marks) is assessed by a university/industry-appointed examiner during the viva-voce, covering subject knowledge (20 marks), industry relevance of the work (15 marks), and report documentation quality (25 marks).

8.2.3 Mini Project

In mini project, the students' performance shall be evaluated based on: a). Continuous Internal Evaluation (CIE) during the course delivery and b). Semester End Examination (SEE) at the end of the course. Out of 100 marks, 40 marks are allocated for CIE and 60 marks for SEE.

Internal evaluation (40 marks) is conducted by the Evaluation Committee nominated by the Head of the department as per the schedule notified by the department. External evaluation (60 marks) is assessed by a university/industry-appointed examiner during the viva-voce, covering Mini project demonstration, documentation report submitted and Viva-voce.

8.2.4 Project work:

In the Civil Engineering Program, the project work is a single, comprehensive component offered in the eighth semester. This project is worth 200 marks and is evaluated through a combination of continuous internal assessment and an end-of-semester evaluation. The internal assessment accounts for 40% of the total marks, while the end-semester evaluation makes up the remaining 60%. Both evaluations are completed within the eighth semester.

For all other engineering programs, the project work is divided into two parts across two semesters.

- Project Report-I is completed in the seventh semester and is worth 100 marks. This report is assessed with a 40% continuous internal evaluation and a 60%

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end-of-semester evaluation.

- Project Report-II is completed in the eighth semester and is worth 200 marks. Like the first report, it is also assessed with a 40% continuous internal evaluation and a 60% end-of-semester evaluation.

Evaluation Criteria for project work – includes: Problem identification and objectives; technical knowledge, innovation, and methodology; Implementation/results and analysis; Quality of report (structure, clarity, originality, plagiarism check; team contribution and communication/presentation skills.

Internal Evaluation for 40% Marks will be based on periodic reviews, progress, logbook/diary, teamwork, and interim presentations by the project guide and department committee.

Semester End Evaluation for 60% Marks will be based on final report, project demonstration/presentation, and viva-voce conducted by internal and external examiners.

A student must secure the minimum prescribed marks (e.g., 50% in SEE and 50% overall) to pass the project course.

Submission of the project report and participation in viva-voce examination is mandatory for declaration of results. If a student fails to submit the report or is absent for the viva-voce, the project will be treated as incomplete and must be resubmitted in the next examination session as per academic regulations.

9. MINIMUM MARKS/GRADE FOR PASS

A Candidate shall be considered as pass in any course only if he/she secures not less than the minimum marks /grade in the end semester examination irrespective of the marks obtained in CIE. Minimum pass mark/ grade in the end semester examination shall be:

Each theory Course	40%	E-Grade
Each Laboratory Course & Project Work	50%	D- Grade

In addition to the above, a candidate is required to obtain 40% of aggregate of CIE & SEE together in all theory courses and 50% of aggregate of CIE & SEE together in all Laboratory courses including project /internships/ seminars etc.

10. RANGE OF CREDITS

Credit system will be implemented in each semester. The credit hours for each theory course, laboratory sessions, Skill Development Courses and project work are clearly mentioned in the scheme of instruction.

Absolute grading system is adopted in awarding the letter grades. The marks are converted to grades based on pre-determined class interval. The following letter grades and grade points are used:

Academic Performance (%)	Letter Grade	Grade Points
$95 \leq \text{Marks} \leq 100$	S+	10
$90 \leq \text{Marks} \leq 95$	S	
$80 \leq \text{Marks} < 90$	A	9
$70 \leq \text{Marks} < 80$	B	8
$60 \leq \text{Marks} < 70$	C	7
$50 \leq \text{Marks} < 60$	D	6
$40 \leq \text{Marks} < 50$	E	5
<40	F	0

11. RULES OF PROMOTION

S. No.	Semester/Class	Conditions to be fulfilled
1.	From I-Semester to II-Semester	Regular Programme of study of BE I Semester
2.	From II- Semester to III-Semester	Regular Programme of study of B.E.II-Semester and must have earned atleast 50% of the total credits (rounded to the next nearest integer) prescribed for B.E.I-Semester and II Semester, together.
3.	From III-Semester to IV-Semester	Regular Programme of study of B.E.III-Semester.
4.	From IV-Semester to V-Semester	Regular Programme of study of B.E.IV-Semester and No. of backlog credits, if any of B.E. I, II, III and IV-Semester put together shall not exceed 50% (rounded to the next nearest integer) of the total number of credits prescribed for the B.E.

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		III and IV-Semester, together.
5.	From V-Semester to VI-Semester	Regular Programme of study of B.E.V-Semester
6.	From VI-Semester to VII-Semester	Regular Programme of study of B.E.VI-Semester and No. of backlogs, if any of B.E.I to VI-Semester put together shall not exceed 50% (rounded to the next nearest integer) of the total number of credits prescribed for the B.E. V and VI-Semester, together.
7.	From VII-Semester to VIII-Semester	Regular Programme of study of B.E.VII-Semester

Note:

- A. Regular Programme of Study means
 - i) Satisfying the attendance requirement and
 - ii) Registering for the examination by paying the prescribed fees
- B. If a candidate has more than permitted number of credits as backlogs, he/she will be detained.
- C. If a candidate has been detained and wish to take readmission into the year in which he/she was detained, he/she must register by paying the prescribed fee and applying through the Dean (Academics). Upon readmission, all the credits earned during that year shall become null and void.

12. GRADING SYSTEM

a. Semester Grade Point Average (SGPA)

Candidates who have passed all the courses in accordance with the grades secured by the min a semester including the CIE marks shall be awarded SGPA and it is calculated up to second decimal point.

$$SGPA = \frac{\sum (Letter Grade Points \times Credits)}{\sum (Credits)}$$

Where i ranges over all the Courses in that semester

b. Cumulative Grade Point Average (CGPA)

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Candidates who have passed all the courses of the B.E. Degree Programme shall be awarded CGPA in accordance with the grades secured by the min all eight Semesters taken together, including the CIE marks secured in those semesters.

$$CGPA = \frac{\sum_j (SGPA \times Credits)}{\sum_j (Credits)}$$

Where j ranges overall semesters up to which the CGPA is computed.

- The grade secured shall be shown in the memorandum of marks /grade card as per the performance in CIE and SEE.
- A minimum Cumulative Grade Point Average (CGPA) of 4.5 is required for the award of Degree. The consolidated memorandum of marks will reflect the credits/ grade scored in each subject.
- CGPA at a given point of Semester is calculated up to second decimal point. It is calculated only when total credits earned are equal to total credits prescribed as per scheme up to a semester in which the candidate has last appeared for SEE.

Illustration of calculation of SGPA:

Course Name	Course Credits (C)	Letter Grade	Grade Point (GP)	Credit Point (CP=C x GP)
Course1	3	S+ / S	10	3x 10 =30
Course2	4	A	9	4x 9 =36
Course3	3	B	8	3x8=24
Course4	3	C	7	3x 7= 21
Course5	3	D	6	3x 6 =18
Course6	4	E	5	4x5=20
Total Credits	20	Total Credit Points		149

Thus, $SGPA = 149 / 20 = 7.45$

Illustration of calculation of CGPA up to II semester:

Semester	Course Name	Course Credits (C)	Letter Grade Secured	Grade Point (GP)	Credit Point (CP=C x
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					GP)
I	Course1	4	S+/ S	10	40
I	Course2	4	A	9	36
I	Course3	4	B	8	32
I	Course4	1.5	C	7	10.5
I	Course5	1.5	D	6	9
I	Course6	3	E	5	15
I	Course7	1	S+/ S	10	10
II	Course8	4	A	9	36
II	Course9	4	B	8	32
II	Course10	2	C	7	14
II	Course11	3	D	6	18
II	Course12	1.5	E	5	7.5
II	Course13	1	S+/ S	10	10
II	Course14	2	A	9	18

SGPA of I Semester = $152.5/19=8.03$ SGPA of II Semester = $155.5 / 20 = 7.78$ CPGA up to II Semester = $(8.03 \times 19 + 7.78 \times 20) / 39 = 7.9$

The above illustrated process of calculation of CGPA shall be followed for each subsequent semester until eight semesters.

The CGPA obtained at the end of eight semesters shall be the final CGPA secured by the student for the entire B.E. Programme.

13. GRADE CARD

The grade card issued shall contain the following:

- The credits for each course offered in that semester.
- The letter grade and grade point award in each course.
- The SGPA / CGPA as per eligibility.
- Total number of credits earned by the student up to the end of that semester.

14. REVALUATION

- Student can register for the revaluation of SEE after the declaration of results by paying the prescribed fee.
- The Controller of Examinations (COE) shall arrange for the revaluation and declare the results.

- Revaluation shall not be permitted to the Courses other than theory Courses.

15. CHALLENGE OF VALUATION

After obtaining the photocopy of the corrected answer book of the theory subjects of SEE, the candidate can go for challenge of valuation within 10 days, on payment of the prescribed fees. The answer book of the candidates in such cases will be referred to an examiner outside the University. In case the candidate's claim is found to be correct, 90% of the fees paid by the candidate will be refunded.

16. CREDIT TRANSFER FROM ANOTHER INSTITUTION TO MCET

- Credit transfer of a student from other Institution to MCET is permitted for under - graduate Programme as per the GOs from the Government of Telangana.
- A student studying in another Institution can take transfer to MCET against notification and orders issued by the Government of Telangana, under the following conditions:
 - When a student seeks transfer, equivalent credits shall be assigned to the student based on the Courses studied earlier by the student.
 - The student, when transferred from other Institution, must follow the rules and regulations of MCET.
 - To graduate from MCET a transferred student must study atleast half of the minimum duration prescribed for a Programme at MCET.

17. WITHHOLDING OF RESULTS

- If a student has not paid the pending dues to the institute OR in any case of indiscipline/ malpractice is pending against him/her, the results of such student shall be withheld.

- The issue of the award of the provisional certificate and the B.E. degree is liable to be withheld in such cases.

18. AWARD OF DEGREE

- The degree of bachelor of engineering will be conferred on candidate who has pursued a regular Programme of study of four /three (Lateral Entry) academic years as herein after prescribed in the scheme of instruction and has passed all the examinations as prescribed in the scheme of examinations.
- To obtain degree, the student shall have passed in all the Courses and secured the number of credits as prescribed in the course structure of the Programme offered by department concerned and should obtain a CGPA of at least 4.5 and shall not have any disciplinary actions pending against him/her.
- Only CGPA will be shown in the consolidated grade sheet and Division is not shown. However, on the backside of the Consolidated Grade sheet the cumulative percentage of marks is indicated using the conversion formula, Percentage of marks = $(CGPA - 0.5) * 10$, and also the division will be indicated based on the CGPA, by adhering to the norms and nomenclature followed by the affiliating University to facilitate the students to meet the requirements of recruiters.
- Norms for indicating division based on the CGPA:

CGPA RANGE	DIVISION
7.5 and above	First Division with Distinction
6.5 and above but less than 7.5	First Division
5.5 and above but less than 6.5	Second Division
4.5 and above but less than 5.5	Pass Division

19. AWARD OF RANK CERTIFICATE / GOLD MEDAL

- A student securing highest CGPA in single attempt is eligible for award of Rank Certificate/ Gold Medal.

- A readmitted student is not eligible for award of Rank Certificate /Gold Medal.

20. ACADEMIC REGULATIONS FOR B.E. DEGREE WITH MINOR PROGRAMMES

- For B.E. with Minor degree, a student needs to earn additional 18 credits (over and above their respective credits weightage and semester-wise break-up of the courses will be finalized by the respective Boards of Studies. All these 18 credits are distributed in V, VI and VII Semesters.
- These 18 credits are to be earned from the additional Courses offered by the host department in the college as well as from the MOOCS platform
- There is no transfer of credits from Minor Programme courses to regular B.E. degree course & vice versa.
- The weekly instruction hours, internal & external evaluation and award of grades are on par with regular 4-Years B.E Programme.
- A student can graduate with a Minor if he/she fulfils the requirements for his/ her regular B.E Programme as well as fulfils the requirements for Minor Programme.
- After registering for Minor Programme, only if a student earns 18 credits by the time he/she earns the prescribed number of credits of B.E Programme, he/she shall be awarded B.E degree with Minors. Otherwise only B.E degree in the concerned branch will be awarded.
- For the courses elected under MOOCS platform following guidelines may be followed:
 - Prior to registration of MOOCS courses, formal approval of the courses, by the concerned Boards of Studies is necessary. The BOS considers the parameters like the institute /agency which is offering the course, syllabus, credits, duration of the course and

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mode of evaluation etc. before approval.

- Minimum credits for MOOCS course must be equal to or more than the credits specified in the Minor course structure approved by the BOS.
 - Only Pass-grade/ marks or above shall be considered for inclusion of grades in minor grade memo.
 - Any expenses incurred for the MOOCS courses are to be met by the students only.
- The choice to opt/ take a Minor Programme is purely left to the choice of the students.
 - The student shall be given a choice of withdrawing all the courses registered and/ or the credits earned for Minor Programme at any time; and in that case the student will be awarded only B.E. degree in the concerned branch on earning the prescribed number of credits.
 - The student can choose only one Minor Programme along with his/ her basic engineering degree.
 - A student who chooses BE Honors Programme is not eligible to choose a Minor Programme and vice-versa.
 - The students who are pursuing their V semester can register for the Minor Programme if they fulfill the other eligibility criteria.
 - The institute / department shall prepare the time-tables for each Minor course offered at their respective institutes without any overlap /clash with other courses of study in the respective semesters.

20.1. ELIGIBILITY CRITERIA FOR THE STUDENTS TO REGISTER FOR MINOR COURSE

- A student can opt for B.E degree with Minor Programme, in V Semester if he /she has no active backlog still IV Semester
- Prior approval of mentor and Head of the Department for the enrolment in

to Minor Programme, before commencement of V Semester, is mandatory

21. ACADEMIC REGULATIONS FOR B.E HONORS DEGREE

- For B.E with Honors Programme, a student needs to earn additional 18 credits, over and above the stipulated number of credits for B.E degree. All these 18 credits need to be completed in III year and IV year only.
- The weekly instruction hours, internal & external evaluation and award of grades are on par with regular 4-Years B.E Programme.
- After registering for the Honors Programme, if a student is unable to pass all courses in first attempt and earn the required 18 credits, he/she shall not be awarded Honors degree. However, if the student earns all the stipulated number of credits of B.E, he/she will be awarded only B.E degree in the concerned branch.
- There is no transfer of credits from courses of Honors Programme to regular B.E. degree course & vice versa.
- These 18 credits are to be earned from the additional courses offered by the host department /allied departments in the college as well as from the MOOCS platform.
- For the courses selected under MOOCS platform following guidelines may be followed:
 - Prior to registration of MOOCS courses, formal approval of the Courses, by the concerned Boards of Studies is necessary. The BOS considers the parameters like the institute /agency which is offering the course, syllabus, credits, duration of the course and mode of evaluation etc. before approval.
 - Minimum credits for MOOCS course must be equal to or more than the credits specified in the honors course structure approved by the BOS.

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- Only pass grade/ marks or above shall be considered for inclusion of grades in honors grade card.
- Any expenses incurred for the MOOCS courses are to be met by the students only.
- The choice to opt/ take the Honors Programme is purely left to the choice of the student.
- The student shall be given a choice of withdrawing all the courses registered and/ or the credits earned for Honors Programme at any time; and in that case the student will be awarded only B.E. degree in the concerned branch on earning the stipulated number of credits.
- The students of every branch can choose Honors Programme in the irrespective branches subject to the eligibility criteria. A student who chooses an Honors Programme is not eligible to choose a Minor Programme and vice-versa.
- The B.E. with Honors Programme shall be offered from the AY 2023-24 onwards. The first batch of students under Autonomy who will be pursuing their V semester during 2023-24 can register for the Honors Programme.
- A student can graduate with Honors if he/she fulfils the requirements for his / her regular B.E. Programme as well as fulfils the requirements for Honors Programme.
- The department shall prepare the time-tables for each Honors Programme offered at their respective departments without any overlap /clash with other courses of study in the respective semesters.

21.1 Eligibility conditions of the students for the Honors degree

- A student can opt for B.E. degree with Honors, if she /he passes all the courses in first attempt in all the 4 semesters and maintain a CGPA of 7.5 or more.

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- If a student fails in any registered course of either B.E or Honors in any semester of four-year Programme (with backlog history), he/she will not be eligible for obtaining Honors degree. However, He/ she will be eligible for B.E degree.
- Prior approval of mentor and Head of the Department for the enrolment in to Honors Programme, before commencement of V Semester, is mandatory.
- The department concerned should be preferably accredited by NBA/ NAAC.
- For CGPA calculation of B.E course, the 18 credits of Honors Programme will not be considered.

22. IMPROVEMENT OF OVERALL SCORE

- A Candidate who wishes to improve his/her Overall score may do so within one academic year immediately after having passed all the examinations of the B.E. Degree Programme, by reappearing in not more than two semesters (all courses including Laboratory pertaining to the semester taken together as per existing scheme of syllabus, however CIE marks remain the same) examinations.
- For the award of the Overall score, he/she will have the benefit of the higher of the two aggregates of marks /grades secured in the corresponding semester(s).

23. GENERAL RULES OF EXAMINATION

- Procedures and the conduction of Exams will be as per the norms prescribed by the Governing body.
- Application for registration to appear in any examination shall be made available in online through college website as per the notification.
- When a candidate's application is found in order and he/she is eligible to appear in Semester End Examination (SEE), the Examination Branch of the

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College shall furnish him with a Hall-Ticket, enabling the candidate to appear in the Semester End Examination.

- The Hall Ticket shall have to be produced by the Candidate before he/she is admitted to the Examination Hall.
- A Candidate who does not present himself/herself for examination for any reason whatsoever, excepting shortage of attendance, shall not be entitled to claim refund of the whole or part of the examination fee, for subsequent Examination(s).
- A candidate after he/she has been declared successful in the all examinations, shall be given a provisional certificate stating the year of examination, the branch in which he/she was examined and, the overall CGPA secured.
- However, the candidates have to obtain degree certificate from the University Examination Branch.
- No candidate shall be allowed to put in attendance for a Programme or appear at examinations for different degrees and different faculties simultaneously.
- Students who have appeared once in any examination of the Programme need not put in fresh attendance; if they wish to reappear at the corresponding examination, notwithstanding the fact that the college may have introduced new courses. They will, however, have to appear at the examinations according to the scheme of examination any syllabi in force.

24. TRANSITORY REGULATIONS

- Whenever a Course or Scheme of Instruction is revised/ modified in a particular semester/ year, two more examinations immediately following thereafter shall be conducted according to the old syllabus /regulations, provided the content in the course has changed more than 40%.
- Candidates not appearing at the examinations or failing in them shall take

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the examination subsequently according to the revised syllabus and regulations.

25. MALPRACTICE AND AWARD OF PUNISHMENT

S. No	Malpractice	Award of Maximum Punishment
1.	Possession of the prohibited (written or printed) papers, books, notes during the examination period but which were not used.	Shall be debarred from appearing at the subsequent papers of the examination apart from cancelling the result of the examination in which he /she had indulged in malpractice.
2.	Matter relevant to the examination being written on any part of the body or on the clothes worn, or in the instruments, wrappings, etc.	-do-
3.	Attempting to take help from any prohibited papers, notes, written or printed matter, writings on the walls, furniture and attempting to take help from or giving help to other regarding answer to any question or questions of the examination paper.	-do-
4.	Taking help from or consulting of prohibited written or printed material; consulting and/or taking help from or helping other examinee during the examination period inside the examination hall or outside it; with or without their consent, or helping other candidate to receive help from anyone else.	-do-
5.	An examinee who attempts to disclose his/her identity to the paper valuator by writing his /her roll number at a place other than the place prescribed for it, or by writing his/ her name or any coded message or an examinee who makes an appeal to the paper valuator in the answer book	Cancelling the result of that paper
6.	Writing such as invocation of GOD's name in any form.	To be ignored

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7.	Writing on the question paper or other papers; the answer to questions, rough work, etc., with no intention of passing it on to another examinee.	warned not to do so
8.	Using abusive and obscene language in the answer book.	Cancellation of the result of that paper
9.	Examinee allowing or destroying prohibited material found in his possession or acting in any other manner with a view to destroy evidence.	Cancellation of the result of all Examinations taken or proposed to be taken during that session and prohibiting his /her admission to or continuation in any course of the University for a period of one year
10.	Refusing to obey instructions of the Chief Superintendent /Invigilator	Cancelling the result of that paper
11.	Smuggling an answer book /additional answer book /matter in to or out of the examination hall.	Cancellation of the result of all examinations taken or proposed to be taken during that session and prohibiting his/ her admission to or continuation in any course of the Institution for a period of the year.
12.	Inserting in or removing from the answer book/additional answer book of any sheet.	-do-
13.	Substituting wholly or partly an answer book/additional answer book.	-do-
14.	Impersonation even at a single examination.	To be dealt with as per law
15.	Cases of examinees when conspiring to interchange in Roll Nos.	Cancellation of the result of all examinations taken or proposed to be taken during that session and Prohibiting their Admission or constitution in any course of the University for a period of one year
16.	Creation of disturbance or otherwise misbehaving in and around the examination hall during or before the examination	Cancelling the results of all examinations taken or proposed to be taken during that session and prohibiting admission in to or continuation in any course of study for a period of two years.
17.	Guilty of assaulting /abusing intimidating any person connected with the examination work any time before, during or after the examination	Cancelling the result of all examinations taken or proposed to be taken during that session and the next session and prohibiting

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		admission in to or continuation in any course for a period of two years.
18.	Punishments for malpractices not defined here would be recommended on the merits of the individual cases by the Malpractices committee.	

26. SCHEME OF STUDY

- **Types of Courses in the Programme will be of the following kinds**

Course Work and Subject Area	
HS	Humanities, Social Sciences and Management
BS	Basic Sciences including Mathematics, Physics and Chemistry
ES	Engineering Sciences including Workshop, Drawing, Basic Electrical/ Electronics
PC	Professional Core Subjects
PE	Professional Elective Subjects relevant to be chosen based on specialization/ branch
OE	Open Elective Subjects from other technical subjects
PW	Project Work, Seminars, Internship in industry or relevant
MC	Mandatory(non-credit)Courses
TOTAL OF ABOUT 160 CREDITS	

- **Contact hours and credits (Courses and Credit Structure)**

The norms for course credits are as follows:

Lecture (L)/ Tutorials (T): One (1) hour per week is assigned one credit (C)

Practical (P): Two (2) hours session per week is assigned one (1) credit (C).

For example, a theory course with L-T-P schedule of 2-1-0 will be assigned three

(3) Credits.

L	T	P	C
2	1	0	3

A laboratory /practical course with L-T-P schedule of 1-0-3 will be assigned two and half (2.5) credits.

L	T	P	C
1	0	3	2.5

- **Structure**

Every B.E. Programme of study shall be designed to have theory and laboratory Courses. In addition, a student shall carryout internship, industry oriented mini and major project, design sensitization, design thinking and other Courses as prescribed in the curriculum of the Programme.

- **Registration of Courses**

Every admitted student shall be assigned to a Faculty advisor who shall advice and counsel the student about the details of the academic Programme, rules and regulations and the choice of Courses considering the students academic background and career objectives.

Each student on admission shall register for all the Courses prescribed in a semester of study including open and professional electives.

Every student shall enroll for the Courses of the succeeding semester at the end of the current semester. However, the student shall confirm the enrolment by registering for the Courses before the three working days of the commencement of next semester. Online registration of Courses including electives, extracurricular and co-curricular activities will be provided and students can visit the college website for details.

The registration of the Courses (such as professional electives, open electives etc) by the students in each semester apart from the compulsory Professional Courses as prescribed by the department concerned shall be completed within the stipulated period. Change of professional electives and open electives will not be entertained after the due date.

No course shall be offered by a Department unless a minimum of 20 students have opted for an elective course. After registering for a course, a student shall attend the classes, to satisfy the academic requirements for

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attending the semester end examinations.

The enrolment for all the Courses of the even Semester will commence 15 working days prior to the last working day of odd Semester. The student shall confirm the enrolment by registering for the Courses before the commencement of the even semester. No change of course under any circumstances will be entertained once registration of Courses is completed.