Rules & Regulations

For The Four Year

B.Tech DEGREE PROGRAMMES

(AICTE Model Curriculum)

(Effective from the Academic Year 2025 – 2026)

UNIVERSITY COLLEGE OF TECHNOLOGY

(Autonomous)
Osmania University
Hyderabad – 500 007

Institute Vision

To achieve excellence in the country in demand driven and green technologies through interdisciplinary academics, research, consultancy and extension activities with an attitude of serving the society with professional and ethical way.

Institute Mission

IM1: To train the youth by imparting quality technical education of highest standards to attain excellence in skills and competencies

IM2: To create state-of-art facilities for innovative research in industry demand driven areas

IM3: To develop heightened intellectual, cultural, ethical, humans, sensitivities to foster a scientific temper among the youth

IM4: To serve the society by producing employable, prosperous and productive youth with motivation towards innovative thinking and leadership qualities

B.Tech Programmes

Rules and Regulations

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Rules and Regulations

For the four year B.Tech Degree Program
(AICTE Model Curriculum)
University College of Technology (Autonomous)
Osmania University
(Effective from the Academic year 2025 – 2026)

Note: 1. All the Rules and Regulations hereinafter specified shall be read as a whole for the purpose of interpretation.
2 Any reference to College in these Rules and Regulations Stands for University College of Technology (Autonomous)

PART-I ADMISSION:

1. A candidate for admission to the Four Year Degree program in Technology must have passed the Intermediate examination of the Telangana State Board of Intermediate Education with Mathematics, Physics and Chemistry as optional subjects or any other examination recognised by the Osmania University as equivalent thereto.

2. All the eligible applicants will have to pass the Entrance Examination conducted by the Government of Telangana. The candidates will be admitted strictly in accordance with the merit secured at the Entrance Examination keeping in view of the rules in force regarding the reservation of seats to various categories of candidates.

3. Vide G.O. MS.No. 15, dated 18-09-2014 Government of Telangana, under rule 3, sub rule (i) for clause (a) – 10% over and above the sanctioned intake of seats (supernumerary) in previous academic year for lateral entry into 2nd year courses in the College are permitted through convener, ECET for the academic year.

PART-II: DURATION & PROGRAM OF STUDY:

1. The normal duration of the Program is Four years. It shall be divided into eight semesters (I, II, III, IV, V, VI, VII, & VIII) . Each semester shall comprise of:
Instruction ……. 16 weeks
Preparation Holidays…10 days

No admission/readmission/promotions to be made after 4 weeks after commencement of instruction in a semester.

In case there are any court cases consequent on which the authorities are compelled to admit any one after the announced last date of admissions, the admission (seat) of such a study be reserved for the subsequent year on a supernumerary basis.

No refund of tuition fee will be made after the commencement of Instruction.

No Supplementary or any other examinations (Except the Internal tests) shall be conducted during the instruction period of the Semester course except Make-Up examination for the VIII Semester.

2. The four year degree programs are offered at University College of Technology (A), Osmania University campus are in the following disciplines:

    1. B.Tech. (Chemical Engineering)
    2. B.Tech. (Food Technology)
    3. B.Tech. (Textile Technology)
    4. B. Pharmacy

The schedule of study of all programs is regulated by the Academic Council of the University College of Technology (Autonomous).

3. Each candidate will be allotted one of the programs at the time of admission, strictly depending on the merit secured at the entrance Examination and subject to the rules in force regarding reservations of seats.

4. Candidates who fail to fulfill all the requirements for the award of the degree as specified within N+2 years (Where N stands for the normal or minimum duration prescribed for completion of program) from the time of admission, will forfeit their admission in the program.

5. Students who complete the requirements of Honors / Minors program will be awarded B.Tech degree with Honors / Minor specialization.

PART III: RULES AND REGULATIONS OF ATTENDANCE:-

1. A 'Regular Program of Study' for eligibility to appear at the B.Tech. Examination of any semester shall mean putting in attendance of not less than 75% aggregate in theory subjects and 75% aggregate in practicals, as per the scheme of instructions.

    Provided that in special cases and for sufficient cause shown, the Principal, may condone the deficiency not exceeding 10% in attendance for ill-health when the application is submitted at the time of the actual illness and supported by a certificate from an authorized Medical Officer. The fee for condonation in theory /practicals on Medical grounds shall be Rs.2000/-

2. Attendance at NCC camps/Inter-collegiate /Inter-University / International matches/ Debates/ Educational excursions/Sports/Hackathons or such other activities as approved by the authorities involving out-station journeys, will not be counted as absence. However, such absence should not exceed 4 weeks of the total period of instruction of a Semester
3. A student shall be awarded **3 credits during B.Tech I to IV semesters** upon successful completion of NPTEL/SWAYAM/MOOCs courses, winning recognized Hackathons, securing an NCC ‘A’ Certificate, or achieving prizes in Sports/Cultural events at the State or National level, subject to prior approval from the Head of the Department and verification of valid documentary evidence as per Academic Council guidelines

4. In any semester of the program, if a candidate fails to secure the minimum percentage of attendance, he/she shall not be eligible to appear in the examination of that semester and he/she shall have to enroll himself/herself to undergo afresh a 'Regular program of study' of

the corresponding semester in subsequent academic session in order to become eligible to appear for the examination.

5. The attendance shall be calculated from the date of commencement of the classes as per the Almanac communicated by the College

6. The candidates who have put in not less than 40% of attendance in I-Semester of 1st year can seek re-admission without appearing for the Entrance Test during subsequent year and such admissions shall be treated as supernumerary.

7. In respect of those who have put in less than 40% attendance in I-Semester of Ist year, their admission will be cancelled.

8. The cumulative attendance of the students will be displayed preferably every month, on the Notice Board of the College. However, it shall be the responsibility of the student to check his / her attendance periodically so as to ensure to put on the required attendance.

9. If a candidate who has pursued a 'Regular Program of Study' of any semester, wishes to undergo the same program again, he/she may be permitted to seek readmission as a regular student for the program of that semester when next offered, depending on the availability of seats. However he/she will forego his/her attendance secured by him/her for that semester previously and provided further that he/she not pursued a 'Regular Program of Study' in any higher semester other than the immediately next higher semester. For the award of the division, however, he/she shall have the benefit of the higher of the aggregate secured in that semester.

PART IV: SCHEME OF INSTRUCTION & EXAMINATION:

1. Instruction in the various courses in each semester of all the four years, shall be provided by the college as per the schemes of Instruction and Syllabi prescribed

2. The medium of instruction and examination shall be in English.

3. The distribution of marks /grade for sessionals based on continuous Internal Evaluation (CIE) by concerned teacher and the Semester End Examination (SEE) shall be as follows

Subject	**Continuous Internal Evaluation**	**Sem.End Examination**
Each theory course	**40**	**60**
Each Practical course	**40**	**60**
Project work VII Sem	**100**	
VIII Sem	**40**	**60**
Industrial Training/Internship	**100(Report and Presentation)**	

Grades and Grades Points:

For each course, Grade and Grade Points will be allotted for the total marks secured by the candidate combinedly at the Semester End Examinations, Continuous Internal Evaluation

Percentage of Marks	Grade	Grade Points
90 – 100	OS	10
80 – 89	S	9
70 – 79	A	8
60 – 69	B	7
50 – 59	C	6
40 – 49	D	5
0 – 39	F	0

Continuous Internal Evaluation (CIE)

The CIE 40 Marks distribution is given as below

S.No.	Details	Marks
1	Regular Class Tests of 1 hour Duration	20
2	Each Unit Test for 10 marks for 5 Units and reporting the average	10
3	Attendance	5
4	Assigned Activity	5
5	Total	40

Marks for Attendance	
Percentage	**Breakup for 5 marks**
65-75	2
74-84	3
85 &above	5

Further, the test question paper in each course shall consist of Part-A for 8 Marks and Part-B for 12 Marks. Questions of Part-A and Part-B should cover the units of the course concerned.

However there shall be no make up Internal Test if a candidate remains absent on the day of test for any reason what so ever.

Each Practical carry 40 marks out of which 30 marks are allotted for the practical work and the remaining 5 marks for Slip Test and 5 marks for Viva / Quizzes. There shall be no Make up for Slip Tests / Viva/ Quizzes.

Semester End Examination (SEE)

- Graduates must register for all courses including practical of respective semesters.
- University will conduct the annual exams through the examination cell.
- Based on the performance of candidate the grades will be allotted for respective subjects.
- Examination Cell will publish/Display the results on the notice board with the permission of principal. The Question paper will be in two parts, Part-A and Part-B. Part –A is compulsory and should cover the entire syllabus, and carries 20 marks.

The Question paper will be in two parts, Part-A and Part-B. Part –A is compulsory and should cover the entire syllabus, and carries 20 marks. Part –B carries 40 marks and should cover all the units into which the syllabus has been divided. All the questions in the question paper shall follow all the levels of blooms taxonomy to meet the course outcomes.

Internship Evaluation

The industrial training (summer Internships) would be allowed during summer vacation (Following VI semester) and is compulsory. Curriculum has 4 weeks provision for Internship in VI semester.
Eeach candidate has to undergo for summer internship and after completion of the internship the student should prepare a comprehensive report along with the certificate from the concerned training place and to be submitted at the respective Head of the Department. The report and presentation carries 100 marks.

Project Evaluation

i. Every UG student shall do the Project work under the supervision of a Teacher. Every UG student shall do a individual project. There is no provision for group projects.
ii. The project work and supervisor shall be assigned to the student by the concerned Department during the VII semester to enable the student to plan and carry out the work during VIII semester.
iii. The project work is assigned 8 credits and evaluated for 300 marks of which 50% marks are allotted for the dissertation and 50% for the presentation and VivaVoce. Broad list of parameters used in evaluation by panel experts include: ·
    - Title & Objective – clarity of aims and objectives and introduction
    - Literature review – critical review of literature and demonstration of the understanding of the theoretical underpinning the problem of study.
    - Methodology – materials and methods – appropriateness of use and clarity of description,
    - Data analysis – appropriateness of techniques and clarity of explanation
    - Results – integration of results into past research and identification of project needs; clarity and justification of conclusions
    - Presentation
    - Viva-voce
    - Subjective remarks by expert – overall evaluation of dissertation highlighting the strength and weakness of project.

iv. The project work must submitted by the student in the 13th week of the VIII Semester. The student will be issued hall ticket to appear for the Semester end Theory and Practical Examinations only on submission of Project dissertation.
v. The dissertation must be typed and be limited to 50 to 75 pages of A4 size
vi. Project work shall be evaluated by an external and one internal examiner which is followed by presentation of work and VivaVoce
vii. The evaluation of the project shall be completed before the commencement of Semester Theory examinations

Project Seminar evaluation procedure:
A UG student shall deliver one project seminar lecture from the project allotted with the core subjects learned in previous semesters with a weightage of 100 marks or one credit each. Out of these 100 marks, 50 marks shall be allotted for the write up of the topic of the seminar and 50 marks for the presentation. The seminar topic shall be allotted by the Department during the VII semester of study. The seminar lecture is expected to train the student in self study, collection of relevant matter from the books and Internet resources, editing, document writing, typing and presentation The list of the seminar lectures to be delivered in the departments during III and IV semesters shall be prominently displayed in the Notice Board of the Department. Seminar lecture programme is allotted two hours per week in the time table. The seminar lectures are open to all the students and faculty of the Department. The text of the seminar lecture must be typed and should be of at least 25 pages, which is evaluated for 50 marks and should be deposited in the Department Seminar Library and also be made available in the Department website. The Seminar will be evaluated by two faculty members appointed by the Head of the Department.

4. The Programme of instruction, examination schedule and vacations shall be notified by the principal of the college

5. At the end of the each semester, Semester End Examination shall be held as prescribed in the respective schemes of examination.

   The examination pertaining to the semester just ended, will be called, Main examination and examination pertaining to the other semester will be called Supplementary examinations.

   To enable the B.Tech. Final Year students to complete the program requirements in time, there shall be a Make-up Exam, for VIII Semester only, which is to be scheduled within in one month of publication of results of VIII semester Main Examinations.

6. The examinations (Main / Supplementary) prescribed for the B.Tech. degree may be conducted by means of written papers, practicals and oral test, inspection of certified Sessional work in Drawing, Labs, and Workshops or by means of any combination of these methods as may be deemed necessary.
   Candidates will be required to produce complete Lab records of the Practical work done by them in each practical examinations, along with other materials prepared or collected as part of Lab work/Project

7. All the general rules for examination (given under part IX) shall be adhered to.

8. A candidate shall be deemed to have fully passed the examination of a semester, if he /she secures not less than the minimum marks/grade as hereinafter prescribed.

Minimum pass marks in the SEE shall be:

Each Theory course…….40% / D grade of SEE
Each practical course …….50% / C grade of SEE

A candidate should secure a minimum of 40% of the allotted marks in the theory course at the semester end Examination and secure a minimum of 'D' Grade to pass the theory course. Further, a candidate should also secure a minimum of 40% of (aggregate) total marks Semester end examination and continuous internal evaluation combinedly taken together.

A candidate should secure a minimum of 50% of the allotted marks in the practical course at the Semester End Examination and also should secure a minimum of 'C' Grade to pass the practical course.

There shall, however, be no minimum for the sessional marks / grade secured by the students in a course or in all the courses put together.

10. If a candidate in any semester examination of the program fails to secure the minimum marks in any course, then he shall appear only in the failed subjects of the semester.

11. Honours Program

Honours is intended for a student to gain expertise/specialise in an area inside his/her major B.Tech discipline and to enrich knowledge in emerging/advanced areas in the branch of engineering concerned. It is particularly suited for students aiming to pursue higher studies. Upon completion of Honours, a student will be better equipped to perform research in her/his branch of engineering.

i. In addition to their primary Program (B.Tech.), an Engineering Student has the opportunity to award with 'Honours' Degree. By opting for 'Honours', the student shall earn at (18 - 20) additional Credits of Professional Courses. These additional Credit Courses shall not be part of the regular Curriculum. Earning of these additional credits shall be through MOOCs/NPTEL/any other on-line Courses, which are to be approved by the respective Head/ BoS.

ii. A student shall be permitted to register for Honors program at the beginning of 4th semester provided that the student must have acquired a minimum of 7.5 SGPA upto the end of 2nd semester without any backlogs. In case of the declaration of the 3rd semester results after the commencement of the 4th semester and if a student fails to score the required minimum of 7.5 SGPA, his/her registration for Honors Programme stands cancelled and he/she shall continue with the regular Programme.

iii. A student shall earn these additional Credits before the completion of the regular Course.

iv. In case a student fails to meet the CGPA requirement for Degree with Honors at any point after registration, he/she will be dropped from the list of students eligible for Degree with Honors and they will receive regular B.Tech degree only.

v. Honors must be completed simultaneously with a major degree program. A student cannot earn Honors after he/she has already earned bachelor's degree.

12. Minor Program

Additional Minor Engineering' allows a Student to gain interdisciplinary experience and exposure to concepts and perspectives which may not be a part of their regular Degree Program, thus widening their understanding of the Engineering Profession. Upon completion of an "Additional Minor Engineering", a Student shall be better equipped to perform interdisciplinary research.

i. Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering may opt for additional courses in minor specialization. By opting for 'Minor Programme', the student shall earn at (18 - 20) additional Credits in the chosen programme. Earning of these additional credits shall be through MOOCs/NPTEL/any other on-line Courses, which are to be approved by the respective Head/ BoS.

ii. A student shall be permitted to register for Minor program at the beginning of 4th semester provided that the student must have acquired a minimum of 7.0 SGPA upto the end of 2nd semester without any backlogs. In case of the declaration of the 3rd semester results after the commencement of the 4th semester and if a student fails to score the required minimum of 7.0 SGPA, his/her registration for Minor Programme stands cancelled and he/she shall continue with the regular Programme.

iii. A student shall earn these additional Credits before the completion of the regular Course.

iv. In case a student fails to meet the CGPA requirement for Degree with additional Minor at any point after registration, he/she will be dropped from the list of students eligible for Degree with additional Minor and they will receive regular B.Tech degree only.

v. Minor programme must be completed simultaneously with a major degree program. A student cannot earn Minor after he/she has already earned bachelor's degree.

PART V: RULES OF PROMOTION.

S.No	Semester	Condition to be fulfilled for promotion	
1	From B. Tech. I Sem to B.Tech. –II Sem	a	Regular program of study of B.Tech.-I Sem
2	From B. Tech. II Sem to III Sem	a. b.	Regular program of study of B.Tech. II Sem. Must have earned at least 50 % of credits prescribed for B.Tech I semester & II semester put together. The number of credits a candidate can have as backlogs are as under. No. of credits prescribed for I Sem and II Sem — No. of credits Permitted as backlogs 41/42 — 21 43/44 — 22
3	From B.Tech III Sem to IV Sem	a	Regular program of study of B.Tech. III Sem
4.	From B.Tech IV Sem to V Sem	a. b.	Regular program of study of B.Tech.IV Sem No of backlog credits, if any of B.Tech I,II, III & IV semester put together shall not exceed 50 % of the total number of credits prescribed for the B.Tech III & IV semester. No. of credits prescribed for III Sem and IV Sem — No. of credits Permitted as backlogs 43/44 — 22 45/46 — 23 47/48 — 24
5	From B.Tech. V to VI semester	a.	Regular program of study of B.Tech V sem.
6	From B.Tech. VI toVII semester	a	Regular program of study of B.Tech. VI sem
		b	No of backlog credits, if any of B.Tech I,II, III IV, V & VI semester put together shall not exceed 50 % of the total number of credits prescribed for the B.Tech V & VI semester. No. of credits prescribed for V Sem and VI Sem — No. of credits Permitted as backlogs 43/44 — 22 45/46 — 23
7	From B.Tech. VII semester to VIII semester	a	Regular course of study of B.Tech. VII sem

Note: Environmental Study which is the course of the B.Tech III or IV semester and other mandatory courses Indian Constitution or Essence of Indian Knowledge Tradition shall not be considered as backlog, however the candidate has to pass the course for the award of degree.

PART VI: GRADING SYSTEM

For each semester on successful completion, the Grade Sheet show the grade secured in each course along with respective credit and Semester Grade Point Average (SGPA) of Semester. For each Semester SGPA will be calculated based on the Credit Value and Grade Weightage as shown below.

Percentage of Marks	Grade	Grade Points
90 – 100	OS	10
80 – 89	S	9
70 – 79	A	8
60 – 69	B	7
50 – 59	C	6
40 – 49	D	5
0 – 39	F	0

$$SGPA = \frac{G_1 C_1 + G_2 C_2 + G_3 C_3 \ldots\ldots + G_n C_n}{C_1 + C_2 + C_3 + \ldots\ldots\ldots C_n}$$

Where G-Grade Weightage, C-Credit Value

SGPA is calculated upto second decimal point.

Cumulative Grade Point average (CGPA)

For Candidates who have passed all the examinations from I to VIII semester of B.Tech program, CGPA will be calculated based on SGPA and total credit value of the semester under consideration.

$$CGPA = \frac{A_1 T_1 + A_2 T_2 \ldots\ldots\ldots\ldots + A_n T_n}{T_1 + T_2 \ldots\ldots\ldots\ldots\ldots\ldots + T_n}$$

Where A-SGPA of each semester, T-Total Credit Value for a Semester
The final results are declared based on CGPA on a scale of 10 calculated up to second decimal point.

PART- VII: DECLARATION OF RESULT & AWARD OF DEGREE

1. Award of Major B. Tech Degree

The Degree of Bachelor of Technology will be conferred on a candidate who has pursued a 'Regular Program of Study' for four academic years as hereinafter prescribed in the scheme of instruction and has passed all the examinations as prescribed in the scheme of examination.

Award of Division

Classification	CGPA
First Class with Distinction (for award of distinction candidate has to pass all courses in single attempt in regular program of study)	≥ 7.5
First Class	≥ 6.5 < 7.5
Second Class	≥ 5.5 < 6.5
Pass Division	≥ 4.0 < 5.5

2. Award of B. Tech Degree with Honours

Students with a minimum of 7.5 CGPA without any F Grade / Backlog and successfully completed the "Honors" program will be awarded. Degree in "Name of the Discipline with Honors"

3. Award of B. Tech Degree with Minors

Students with a minimum of 7 CGPA without any F Grade / Backlog and successfully completed the "Minors" program will be awarded a degree in: name of the discipline" with minor specialization in "Name of the Minor specialization".

4. Award of Gold Medals :

A student securing highest CGPA in single attempt is eligible for award of Gold Medal

5. Conversion factor :

From Average Grade Point to Percentage Marks : (CGPA – 0.50) x 10

PART VIII: IMPROVEMENT OF C G P A

A candidate who wishes to improve his/her division may do so within one academic year immediately after having passed all the examinations of the B. Tech. degree program, by reappearing at not more than two semesters (all courses pertaining to these semesters taken together) examinations. For the award of Division, he/she will have the benefit of the higher of the two aggregates of marks secured in the corresponding semester (s) provided the candidate passes the improvement examination fully.

PART IX: GENERAL RULES OF EXAMINATIONS

1. All examinations of the University college of Technology shall be held at such places as it may be decided and at such other centers on such dates as may be notified.

2. Application for permission to appear at every examination shall be made on the prescribed form accompanied by three passport size full face photographs (not profile) which along with the necessary certificates regarding attendance, practical work etc., and the prescribed fee should be sent to the Director of Evaluation, Examination Cell on or before the date fixed for this purpose.

3. When a candidate's application is found in order and he/she is eligible to appear at examination, the Director of Evaluation, Examination Cell, shall furnish him with Hall Ticket with the photograph attached to it enabling the candidate to appear the Examination and this Hall Ticket shall have to be produced by the candidate before he/she can be admitted to the premises where the examination is being held or to a part of the said premises as well as to the examination hall.

4. A candidate who fails to present himself/herself for the examination for any reason whatsoever, excepting shortage of attendance ,he/she fails to pass the examination shall not be entitled to claim refund of the whole or part of the examination fee nor for the reservation of the examination fee for a subsequent examination or examinations.

5. A candidate after he/she has been declared successful in the whole examination shall be given a certificate setting forth the year of examination, the subject in which he/she was examined and, the Overall score along with division in which he/she was placed.

6. No candidate shall be allowed to put in attendance for or appear at examinations for different degrees and different faculties at one and the same time.

7. Students who have appeared once at any examination of the program need not put in fresh attendance, if they want to reappear at the corresponding examination, notwithstanding the fact that new subject may have been introduced by the University. They will however have to appear at the examination according to the scheme of examination and syllabus in force.

PART X: TRANSITORY REGULATIONS

Whenever, course or scheme of instruction is changed in a particular year, two more examinations immediately following thereafter shall be conducted according to the old syllabus/regulations. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the changed syllabus/regulations or with the regulations prevailing at the time of his / her Admission.