

# **RULES AND REGULATIONS**

*(With effect from the Academic Year 2022-2023)*

**Four Year**

## **BACHELOR OF ENGINEERING DEGREE PROGRAMS**



Estd: 1917

**UNIVERSITY COLLEGE OF ENGINEERING**

(AUTONOMOUS)

**OSMANIA UNIVERSITY, HYDERABAD - 500 007, TELANGANA STATE**



Estd: 1929

# **B.E. PROGRAMS**

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# **RULES AND REGULATIONS**

## **For the Four Year Degree Program in Engineering at University College of Engineering (Autonomous) Osmania University, Hyderabad - 500 007, T.G**

*(With effect from the academic year 2022 -2023)*

- 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 Engineering (Autonomous), Osmania University.

### **I. ADMISSION**

1. A candidate for admission into the Four Year Degree Programme in Engineering must have passed the Intermediate Examination of the Board of Intermediate Education, Government of Telangana with Mathematics, Physics and Chemistry as optional courses, or any other examination recognized by the Osmania University as equivalent thereto.
2. 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.

### **II. DURATION AND PROGRAMS OF STUDY**

1. The duration of the program is eight semesters (four years) such as I, II, III, IV, V, VI, VII and VIII semesters. Each academic year shall comprise of two semesters.

Instruction per semester ----- 16 weeks

Preparation holidays (includes practical exams) ----- 2 weeks

- ❖ No admission / readmission / promotion are 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.
- ❖ No refund of tuition fee will be made after the commencement of instruction for students who wish to cancel their admission.

2. The following programs of study are offered in the College.

- i) Civil Engineering
- ii) Mechanical Engineering
- iii) Electrical and Electronics Engineering
- iv) Electronics and Communication Engineering
- v) Bio-Medical Engineering
- vi) Computer Science and Engineering
- vii) Mining Engineering
- viii) Artificial Intelligence and Machine Learning

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

- 3. Each candidate will be allotted to 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. Candidate who fails to fulfill all the requirements for the award of the degree as specified here in after within (N+2) academic years from the time of admission, will forfeit his/her seat in the program and his/her admission will stand cancelled, where 'N' is the no. of years of program of study (4 years).

### **III. RULES AND REGULATIONS OF ATTENDANCE**

- 1. Candidates admitted to a particular program of study are required to pursue a "Regular program of study" before they are permitted to appear for the Semester End Examination.
- 2. "A regular program of study" means putting in attendance of not less than 75% in each semester.
- 3. a) In special cases and for sufficient cause shown, the Principal may, on the specific recommendations of the Head of the 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.  
b) However, in respect of women candidates who seek condonation of attendance due to pregnancy, the Principal may condone the deficiency in attendance to the extent of 15% (as against 10% condonation for others) on medical grounds subject to submission of medical certificate to this effect. Such condonation shall not be availed twice during the program of study.

4. The fee for condonation of attendance on medical grounds shall be **Rs. 2,000/-** (Rupees Two Thousand only) payable through **Online/Demand Draft** drawn in favour of the **“Principal, UCE, O.U.”**
5. “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 per semester of the total period of instructions. **(ii)** Such leave should be availed with prior permission from the Principal and not be availed more than twice during the program 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.
6. The attendance shall be calculated on the aggregate of the papers / courses from the date of commencement of classes / date of readmission in case of detained candidates as per the almanac communicated by the University College of Engineering.
7. In case of the candidates who fail to put in the required attendance in a program of study, he/she shall be detained in the same class and will not be permitted to appear for the Semester End Examination. Such candidates shall have to seek readmission into the same class during the subsequent year in order to appear for the examination after fulfilling the attendance requirements and on payment of requisite tuition fee.
8. a) Candidates admitted to the first year through an entrance test and do not have the requisite attendance but have not less than 40% attendance can seek readmission without once again appearing for the entrance test.  
b) In respect of candidates of such programs where the admissions are governed through an entrance test, candidates of First Semester (i.e. I-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.

#### **IV SCHEME OF INSTRUCTION AND 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 distribution of marks/grade\* for sessionals based on **Continuous Internal Evaluation (CIE)** and the **Semester End Examination (SEE)** shall be as follows:

<b>Subject</b>	<b>Continuous Internal Evaluation (CIE)</b>	<b>Semester End Examination (SEE)</b>
Each theory subject	40 **	60****
Each practical or drawing Subject for which less than 6 periods / week are provided in the scheme of instruction	25***	50
Each practical or drawing Subject for which 6 or more Periods/week are provided in the scheme of instruction	60#	90
Project Phase - I	50#	---
Project Phase - II	50#	100##

\*\* Out of 40 sessional marks for theory, 10 marks are allotted for Assignments/ Tutorials/ Quizzes and experiential learning such as Industrial/Field Visits etc., in the course (At least two assignments and two quizzes are to be conducted). The remaining 30 marks are allotted based on average of Class Test - I and Class Test - II.

Two class tests will be conducted in each semester. Each test will carry 30 marks, having 3 questions each consists of 10 marks. Question 1 consists of Short Answer Questions (SAQ) etc. Average of two class tests plus marks obtained in experiential learning will be taken as sessional marks (CIE).

\*\*\* Out of 25 (50) sessional marks for Practical, 10 (20) marks are allotted for viva-voce exam / test and 15 (30) marks for laboratory record and observations.

\*\*\*\* The SEE (60 Marks) question paper consists of Seven questions and each question carries 12 marks. The Question No. 1 covers entire syllabus comprising sub questions such as 1(a) to 1(f). Student has to answer Five Questions, in which Q.No. 1 is compulsory and any Four questions from remaining Six questions.

# If any student undergoes internship cum project in industries in VIII Semester (Project Phase - II) out of 50 sessional marks in Project Phase-II, 30 marks to be awarded by the external guide from the industry and 20 marks to be awarded by the internal guide of the department.

# The CIE evaluation of BE Project Phase - I & II will be distributed as per the guidelines given below:

(i) **30 Marks** are allocated for quality of the project work covering (a) Literature review, (b) Innovation / Originality, (c) Methodology and (d) Relevance / Practical application which will be awarded by the guide.

(ii) **20 Marks** are allocated to candidate's performance in terms of viva-voce examination and overall subject knowledge. Under this category, 20 Marks will be awarded by the two member committee constituted by the HoD.

## The SEE evaluation of BE Project Phase - II / Full Time Internship will be distributed as per the guidelines given below:

### Evaluation of Project Phase - II (100 Marks)

Criteria	Problem Formulation	Literature review	Research Methodology adopted	Innovation/ Originality/ Relevance/ Practical Applications	Report Writing/ Documentation	Quality and clarity of presentation of Project work	Candidates performance in terms of his/her ability			Total Marks
							To defend the work & subject knowledge	To answer the queries raised during Viva-voce examination	Publications or Conference (accepted)/ Industrial Projects/ Working or Proto type model patent etc.	
Max. Marks	10	05	10	10	35	15	05	05	05	100
Marks Obtained										

Note: (i) A course that has sessional marks but no Semester End Examination as per scheme is treated as Pass / F course for which pass marks are 50% of sessional.

(ii) The candidates who undergo internship in VIII-Semester can register for the equivalent courses (Credits) of that semester through SWAYAM / NPTEL / MOOCS.

(iii) The registration for the above courses will be permitted only after the completion all backlogs till the previous semester.

(iv) The candidates who register for online courses in VIII-Semester and fail to complete the online course will not be awarded the degree in that academic year. The candidate should reappear and clear the subject through online only as per the CBoS recommendation.

(v) The candidates should preferably complete any online courses through SWAYAM/NPTEL/MOOCs before VII-Semester in view of backlog problem.

3. Total number of credits 160 to 170, as per the Departmental requirements.

Total marks (CIE + SEE) = 100

\*Grades are allotted based on the marks secured in Semester End Examination and Sessionals as per the following criteria.

### **Evaluation of Grading System**

- ❖ Grading System shall be followed for all B.E. Programs.  
The minimum Criteria to award a Letter Grade and Grade Point is to get minimum percentage of marks for SEE = 40% and put together (CIE + SEE) = 40%.
- ❖ As a measure of student's performance, a 10-scale grading system using the following letter grades and corresponding grade points per credit shall be followed. Grading will be done based on the total marks obtained by the student in that course.
- ❖ A course has the marks of SEE less than 40% and CIE + SEE put together less than 40% is treated as Fail and the grade will be awarded as Fail (F) and Grade Points Zero.
- ❖ A course that has CIE marks but NO minimum marks in SEE (i.e. 40%) is treated as Fail, the Grade will be awarded as Fail (F) and Grade Points will be Zero.

<b>Academic Performance</b>	<b>Letter Grade</b>	<b>Grade Points</b>
90% ≤ Marks ≤ 100%	S	10
80% ≤ Marks < 90%	A	9
70% ≤ Marks < 80%	B	8
60% ≤ Marks < 70%	C	7
50% ≤ Marks < 60%	D	6
40% ≤ Marks < 50%	E	5
0% ≤ Marks < 40% (For Theory only)	F	0
0% ≤ Marks < 50% (For Practicals only)	F	0

The norms for the award of the letter grade are as follows:

- \* F/AB Grade shall be awarded to the student who is ABSENT for SEE.

4. The details of instruction period, examination schedule, vacation etc. shall be notified by the Principal of the College time to time.



5. The medium of instruction and examination shall be in English.
6. At the end of each semester, SEE shall be held as prescribed in the respective Schemes of Examination. The examinations pertaining to the semester just ended, will be called, main examinations and the examinations pertaining to the other semesters will be called backlogs examinations.

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

7. The examinations prescribed may be conducted by means of written papers, practical and oral tests, inspection of certified sessional work in Drawing and Laboratories and Workshop, 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 examination, along with other materials prepared or collected as part of Laboratory work/ Project.

8. All the general rules for examinations (given under XII) shall be adhered to.
9. A candidate shall be deemed to have fully passed the SEE, if he/she secures not less than the minimum marks/grade as prescribed. Minimum pass marks / grade in the Semester End Examinations plus Continuous Internal Evaluation shall be.

**Minimum Pass Grade**

Each theory course	E-Grade
Each practical course & Project Work	D-Grade

10. In case of hearing impaired, orthopedically handicapped and visually challenged candidates, 10% reduction in pass marks in each subject is admissible as per G.O. Ms. No.150, dated 31-08-2006.
11. If a candidate in any semester examination of the program is unable to secure the minimum grade in any course, then he/she shall have to appear only in the failed course of the semester.
12. If a candidate has any grievance on the Evaluation of SEE, he/she can apply for Review of answer script(s) as per notification of the Examination Cell. Such grievances will be addressed by the Department Appeal Committee (DAC) and based on recommendations of DAC, necessary amendments in marks awarded will be incorporated by the Director of Evaluation, Examination Cell, UCE (A), OU.

A candidate can also obtain a photocopy of the corrected answer book of the theory subjects SEE only on payment of Rs.1,000/- (Rupees One thousand only) for each

course, through online payment to the Examination Cell UCE, OU, as per their notification.

## **V. MINOR PROGRAM**

Minor is an additional credential for a student to earn, if she/he does **18** credits worth of additional courses in a discipline other than her/his major discipline of B.E. programs. All departments of the college offer minors in their disciplines, and will prescribe a specific set of courses and/or projects necessary for earning a Minor degree in that discipline. Tuition fee for the entire Minor Program is Rs. 25,000/-.

- i. Students with a minimum of 7.00 CGPA without any 'F' Grade/Backlogs up to IV-Semester are only allowed to register for Minor Program offered by any other Department.
- ii. Number of credits required for Minor Program is 18 with 6 courses (of each 3 Credits) or 5 courses + 1 Project (of 3 credits) or 5 courses + 3 Laboratories (of each 1 credit) as per the Departmental requirements.
- iii. Courses for Minor Program start from V-Semester onwards.
- iv. Minimum and maximum number of students for any Minor program is 10 and 60 respectively.
- v. Students shall be prepared to write more than one exam in a day.
- vi. If any student wishes to exit from the Minor Program he/she will forfeit the tuition fee paid towards the registration of Minor program.
- vii. After successful completion of the Minor program requirements, the student will be awarded a degree in "name of the discipline" with Minor program in "name of the Minor specialization".

## **VI. HONORS PROGRAM**

Under any circumstances Honors is an additional credential for a student to earn, if she/he does **18** credits worth of additional courses in her/his own discipline. The concerned department specifies the set of courses for earning Honors degree. Tuition fee for the entire Honor Program is Rs. 25,000/-.

- i. Students with a minimum of 7.5 CGPA without any 'F' Grade/Backlogs up to IV-Semester are only allowed to register for Honors Program offered by that department.
- ii. Number of credits required for Honors program is 18 with 6 courses (of each 3 credits) or 5 courses + 1 Project (of 3 credits) or 5 courses + 3 Laboratories (of each 1 credit) as per the Departmental requirements.
- iii. Courses for **Honors** Program start from V-Semester and the student is required to plan registration for Honors courses, in order to complete all the six courses by the end of VIII-Semester.
- iv. Students shall be prepared to write more than one exam in a day.

- v. Students shall not have any backlogs in the subsequent semesters of the regular program in order to keep the registration for Honors program active.
- vi. Students have to complete the courses offered in Honors program in Single attempt only. There will not be any backlogs or make up examination for Honors program courses. The student must give an undertaking to exit from the Honors program, if he/she is unable to complete the courses in single attempt. Further, they will forfeit the tuition fee paid towards the registration of Honors program.
- vii. After successful completion of the Honors program, the student will be awarded a degree in “name of the discipline” with “Honors”.

## VII RULES OF PROMOTION

Sl. No.	Semester / Class	Conditions to be fulfilled
1.	From I-Semester to II-Semester	Regular program of study of B.E. I-Semester
2.	From II-Semester to III-Semester	a) Regular program of study of B.E. II-Semester
		b) Must have earned at least 50% of credits (rounded to the next nearest integer) prescribed for B.E. I-Semester and II-Semester.
3.	From III-Semester to IV-Semester	Regular program of study of B.E. III-Semester
4.	From IV-Semester to V-Semester	a) Regular program of study of B.E. IV-Semester
		b) No. of backlog, 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. III & IV-Semester
5.	From V-Semester to VI-Semester	Regular program of study of B.E. V-Semester
6.	From VI- Semester to VII-Semester	a) Regular program of study of B.E. VI-Semester
		b) No. of backlogs, if any of B.E. I to VI-Semester put together shall not exceed to 50% (rounded to the next nearest integer) of the total number of credits prescribed for the B.E. V & VI-Semester
7.	From VII-Semester to VIII-Semester	Regular program of study of B.E. VII-Semester

- Note:** 1. If a candidate has more than permitted number of credits as backlogs, he/she will be detained.
2. The candidate who wishes to take readmission into the year in which he/she is detained have to pay the total tuition fee of that year and all the credits earned during that year shall become null and void.

### **VIII. GRADING SYSTEM**

1. Candidates who have passed all the examinations of the B.E. Degree Program shall be awarded CGPA in accordance with the grade secured by them in all eight Semesters taken together, including the sessional marks secured in those semesters.

The grade secured shall be shown in the Grade Card as per the performance in SEE and CIE.

A minimum Cumulative Grade Point Average (CGPA) of 5 is required for the award of Degree. The consolidate Grade Card will reflect the credits / grade scored in each subject.

2. **SEMESTER GRADE POINT AVERAGE (SGPA) & CUMULATIVE GRADE POINT AVERAGE (CGPA) Calculation:**

$$(a) \text{ SGPA} = \frac{\sum(\text{Letter Grade Point} \times \text{Credits})}{\sum \text{Credits}}$$

SGPA is calculated upto second decimal point and it is calculated only when all subjects in that semester are Cleared / Passed.

$$(b) \text{ CGPA} = \frac{\sum [(SGPA)_j \times (\text{Total Credits})]}{\sum \text{Total Credits}}$$

CGPA at a given point of Semester is calculated upto second decimal point. It is calculated only when total credits earned are equal to total credits prescribed as per scheme upto a semester in which the candidate has last appeared for SEE.

- (c) Courses in which the candidate has failed are not included in computing SGPA/CGPA.

### **IX AWARD OF DEGREE**

- i. The degree of Bachelor of Engineering will be conferred on candidate who has pursued a regular program of study of four academic years as hereinafter prescribed in the scheme of instruction and has passed all the examinations as prescribed in the scheme of examinations.

- ii. Minor **apart (a)** earned 18 credits more in **minor** specializations as prescribed by the department will be awarded.
- iii. Honor **apart (b)** earned 18 credits more in **honor** specializations as prescribed by the department will be awarded.

#### **X. AWARD OF GOLD MEDAL**

- (i) A student securing highest CGPA in **single attempt** is eligible for award of Gold Medal/Rank Certificates/Cash Awards. All the Gold Medals are instituted by the donors only.
- (ii) A readmitted student by virtue of detection is not eligible for Gold Medal/Rank Certificate/Cash Award.

#### **XI. IMPROVEMENT OF OVERALL SCORE**

- 1. 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 program, by reappearing in not more than two semesters (all subjects pertaining to the semester taken together) examinations.
- 2. For the award of the Overall score, he/she will have the benefit of the higher of the two aggregates of marks / grade secured in the corresponding semester(s).

#### **XII. GENERAL RULES OF EXAMINATIONS**

- 1. Application for permission to appear at every examination shall be made by online Examination Application Form (EAF) through College Website as per the notification.
- 2. When a candidate's application is found in order and he/she is eligible to appear in Semester End Examination (SEE), the Director of Evaluation, Examination Cell, University College of Engineering (Autonomous) 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 premises where the Examination is likely to be held.
- 3. A Candidate who does not present himself/herself for examination for any reason whatsoever shall not be entitled to claim refund of the whole or part of the examination fee, for subsequent Examination(s).
- 4. 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 grade secured. However, the candidates have to obtain Degree Certificate (Convocation) from the Examination Branch, Osmania University.
- 5. Students who have appeared once in any examination of the program 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.

### **XIII. TRANSITORY REGULATIONS**

1. Whenever a course or scheme of instruction is changed 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%.
2. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the changed syllabus /regulations.

### **XIV. MALPRACTICE AND AWARD OF PUNISHMENT**

Regulations Under Ordinance no. VII

Conduct of Examinations Part- V

Schedule on the Nature of Malpractice and Award of Punishment

“**Examination**” in this context refers to all the papers taken by the candidate on the same hall-ticket.

	<b>Malpractice</b>	<b>Award of Maximum Punishment</b>
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 valuer 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 valuer 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
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.	To be 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 into 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 University 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 into 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 admission into 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.	

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