

FACULTY OF ENGINEERING
RULES AND REGULATIONS

For four year

BACHELOR OF ENGINEERING

Degree Programme

of

OSMANIA UNIVERSITY

(With effect from the academic year 2018-2019)

(As approved in Faculty Meeting held on 26th June 2018)



Issued by
Dean, Faculty of Engineering
Osmania University, Hyderabad - 500 007
Telangana State

BACHELOR OF ENGINEERING
(A Four Year Degree Programme)

OSMANIA UNIVERSITY, HYDERABAD - 500 007, T.S

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BACHELOR OF ENGINEERING
(A Four Year Degree Programme)
OSMANIA UNIVERSITY, HYDERABAD, T.S

RULES AND REGULATIONS

(With effect from the Academic year 2018 - 2019)

Note: All the Rules and Regulations, hereinafter specified shall be read as a whole for the purpose of interpretation.

1. ADMISSION

- 1.1 A candidate for admission to the Four Year Degree Program 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.
- 1.2 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 (EAMCET) conducted by the state government of Telangana, keeping in view the Rules in force regarding the reservations of seats to various categories of candidates. The other rules regarding admission to various B.E programmes for affiliated private engineering colleges as in force from time to time are also applicable.

2 DURATION AND PROGRAM OF STUDY

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

Instruction --16 weeks

Preparation holidays (includes practical exams) -- 2 to 3 weeks

No admission / readmission / promotion is to be made 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.

2.2 The following Bachelor of Engineering (B.E.) programs of study are offered in the various affiliated colleges under the Faculty of Engineering, O.U.

- i. Civil Engineering
- ii. Mechanical Engineering
- iii. Electrical and Electronics Engineering
- iv. Electronics and Communication Engineering
- v. Computer Science and Engineering
- vi. Production Engineering
- vii. Electrical and Instrumentation Engineering
- viii. Automobile Engineering
- ix. Information Technology

The schedule of study of all programs are regulated by the Faculty of Engineering, Osmania University

(Note: The details of college wise B.E. Programmes offered every academic year can be obtained from respective colleges.)

2.3 Candidate who fails to fulfill all the requirements the award of the degree as specified hereinafter **(N+2 years \Rightarrow 4+2 = 6)** within six academic years from the time of admission, will forfeit his/her seat in the program and his/her admission will stand cancelled automatically.

3. ATTENDANCE

3.1 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 University Examination.

3.2 **“A regular programme of study”** means putting in **attendance of not less than 75%**.

(The cumulative monthly attendance in each subject and the aggregate attendance shall be displayed on the respective department notice board)

3.3. a) In special cases and for sufficient cause shown, the **Vice-Chancellor** may on the specific recommendation of the **Principal / 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 **Vice-Chancellor 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 Permitted only once during the programme of study.

3.4 The **fee for condonation of attendance on medical grounds shall be Rs.1000/-** payable through Demand Draft drawn in favour of The **Registrar**, Osmania University, Hyderabad and payable at Hyderabad.

- 3.5 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. However, such absence shall not exceed, four weeks in the total period of instructions. Such leave should not be availed twice during the programme of study.
- 3.6 The attendance shall be calculated on the aggregate attendance of all the courses offered during the semester and reckoned from the date of commencement of classes / date of readmission in case of detained candidates as per the almanac communicated by The Dean, Faculty of Engineering, Osmania University.
- 3.7 In case of the candidates who fail to 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 University examination. Such candidates shall have to seek readmission into the same class during subsequent year in order to appear for the examination after fulfilling the attendance requirements and on payment of requisite tuition fee.
- 3.8. 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 B.E. 1st - 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.

4 SCHEME OF INSTRUCTION AND EXAMINATION

- 4.1 Instruction in the various courses in each semester of all the four years shall be provided by the Dean, Faculty of Engineering, Osmania University as per the Scheme of Instructions and Syllabi prescribed.
- 4.2 The distribution of marks for **Continuous Internal Evaluation (CIE)** and the **Semester End Examination (SEE)** shall be as follows:

| Course | Continuous Internal Evaluation (CIE) | Semester End Examination (SEE) |
|---|--------------------------------------|--------------------------------|
| Each theory Course | 30** | 70**** |
| Each practical or drawing Course for which 2 periods/week are provided in the Scheme of Instruction | 25*** | 50 |
| Each practical or drawing course for which 4 Periods / week are provided in the Scheme of Instruction | 50*** | 50 |
| Project | 50 [#] | 100 ^{##} |

Note: Semester End Examination (SEE) means University Examination.

- 4.3 Based on combined marks (i.e. **CIE + SEE**) obtained by the candidate, **Letter Grades** are awarded and corresponding **Grade Points** are shown in the Table below:

| Academic Performance | Letter Grade | Grade Points |
|----------------------------------|---------------------|---------------------|
| 90% and above | S | 10 |
| 80% and above but less than 90% | A | 09 |
| 70% and above but less than 80% | B | 08 |
| 60 % and above but less than 70% | C | 07 |
| 50 % and above but less than 60% | D | 06 |
| 40 % and above but less than 50% | E | 05 |
| Below40% | F | 0 |

- 4.4. ** Out of 30 Continuous Internal Evaluation (**CIE**) marks for Theory Course, 10 marks are allotted for Assignments /Quizzes etc. At least two Assignments and one Quiz are to be conducted.

The rest of the 20 marks are allotted for **Two Internal Tests** will be conducted in each semester. Each test will carry 20 marks, out of which 6 marks are for Part-A consisting of objective and short answer questions and 14 marks are for Part-B consisting of subjective questions. Average of two tests plus marks obtained in assignments/quizzes etc., will constitute the marks obtained by individual candidate under **CIE**.

- 4.5 *** Out of 25 or 50 CIE marks for Practical / Drawing course, 10 or 20 are allotted for viva-voce examination and 15 or 30 marks are awarded for class performance, record and observations.

- 4.6 **** The question paper for SEE will be in two parts, viz., Part-A and Part-B. Part-A (20 marks) is compulsory and it consist of 8 to 10 questions (short answer) covering the entire syllabus. Part-B (50 marks) consist of five questions (long answer) covering all the units of syllabus.

- 4.7 # Out of 50 marks under CIE, 25 marks are awarded by the Guide/Supervisor and remaining 25 are awarded by the subject expert committee constituted by the concerned Head of the Department.

- 4.8 ## The evaluation of BE project for maximum of 100 mark will be done as per guidelines given below:

- i) **40 Marks** are allocated for quality of the project work covering
 - a. Literature-review,
 - b. innovation / Originality
 - c. Methodology and
 - d. Relevance / Practical application.
- ii) **30 Marks** are allocated to Report writing /Documentation.
- iii) **30 Marks** are allocated for candidates' performance in terms of his/her viva-vice examination and overall subject knowledge.

Note: A course which is evaluated based on **CIE** with no University Examination as per the scheme is treated as Pass when the candidate obtains **50% in CIE**.

- 4.9 The details of instruction period, examination schedule, vacation etc. shall be notified by the Dean, Faculty of Engineering, Osmania University.
- 4.10 The medium of instruction and examination shall be English.
- 4.11 At the end of each semester, Semester End Examination shall be conducted as prescribed in the respective Schemes of Examination. The examinations pertaining to the semester conducted immediately after the semester is termed as Main Examination and the examinations pertaining to the other semesters conducted thereafter will be called as Supplementary Examinations.
- 4.12 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 after publication of results of VIII semester (SEE) Main Examinations
- 4.13. All the examination in **Theory Course** shall be conducted as written examination for duration as prescribed in the Scheme of Examination. The examination in **Laboratory Courses** shall be conducted as written and oral together by carrying out the experiments as required in the specific Laboratory Course for the specified duration. Laboratory record of experiments conducted during semester is also required to be produced at the semester end examination. For the **Project work** (mini or major), the related document (**Report**) is to be produced at the time of oral examination.
- 4.14 All the general rules for examinations (**given under 9**) shall be adhered to.
- 4.15 A candidate shall be deemed to have fully passed a course (Theory/Practical), if he/she secures not less than the minimum marks/grade as prescribed. Minimum pass marks / grade in the University Examinations (SEE) plus CIE shall be.
- | | |
|--|-----------------|
| i) Each Theory Subject | : 40% - E Grade |
| ii) Each Practical Course and Project | : 50% - D Grade |
| iii) Drawing Course treated as practical /Lab course | : 50% - D Grade |

Important Note: The candidate has to appear at the Semester End Examination (SEE) in all the Practical/Laboratory / Drawing Courses compulsorily irrespective of marks secured under CIE.

- 4.16. If a candidate in any semester examination of the program fails to secure the minimum marks/grade in any subject then he/she shall have to appear only in the failed course of the semester.

5. RULES OF PROMOTION:

Rules of Promotion are as shown in the below table:

| S.No. | Semester / Class | Conditions to be fulfilled for Promotion | | | |
|--------------------|--------------------------------------|---|--------------------------------------|--|--------------------------------------|
| 1. | From I - Semester to II - Semester | Regular program of study of B.E. I - Semester and registration* for the I - Semester Examination | | | |
| | 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 prescribed for B.E. I - Semester & II - Semester put together. The number of credits a candidate can have as backlogs are as mentioned under. | | | |
| For Example | | No. of credits prescribed for I - Semester and II - Semester | No. of credits permitted as backlogs | No. of credits prescribed for I - Semester and II - Semester | No. of credits permitted as backlogs |
| | | 33/34 | 17 | 41/42 | 21 |
| | | 35/36 | 18 | 43/44 | 22 |
| | | 37/38 | 19 | 45/46 | 23 |
| | | 39/40 | 20 | 47/48 | 24 |
| 2. | From III - Semester to IV - Semester | Regular program of study of B.E. III - Semester and registration* for the III - Semester Examination. | | | |
| 3. | From IV - Semester to V - Semester | a) Regular program of study of B.E. IV - Semester. b) No. of backlog credits, if any of B.E. I, II, III and IV Semesters put together shall not exceed 50% of the total No. of credits prescribed for the B.E. III & IV Semesters. | | | |
| For Example | | No. of credits prescribed for III - Semester and IV - Semester | No. of credits permitted as backlogs | No. of credits prescribed for III - Semester and IV - Semester | No. of credits permitted as backlogs |
| | | 33/34 | 17 | 41/42 | 21 |
| | | 35/36 | 18 | 43/44 | 22 |
| | | 37/38 | 19 | 45/46 | 23 |
| | | 39/40 | 20 | 47/48 | 24 |
| 4. | From V Semester to VI Semester | Regular program of study of B.E. V - Semester and registration* for the V - Semester Examination | | | |
| 5. | From VI Semester to VII Semester | a) Regular program of study of B.E. VI - Semester. b) No. of backlog credits, if any of B.E. I to VI Semesters put together shall not exceed 50% of the total No. of credits prescribed for the B.E. V & VI Semesters. | | | |
| For Example | | No. of credits prescribed for III - Semester and IV - Semester | No. of credits permitted as backlogs | No. of credits prescribed for III - Semester and IV - Semester | No. of credits permitted as backlogs |
| | | 33/34 | 17 | 41/42 | 21 |
| | | 35/36 | 18 | 43/44 | 22 |
| | | 37/38 | 19 | 45/46 | 23 |
| | | 39/40 | 20 | 47/48 | 24 |
| 6. | From VII Semester to VIII Semester | Regular program of study of B.E. VII - Semester and registration* for the VII - Semester Examination | | | |

Note: * Registration means obtaining a Hall ticket for the said examination.

1. If a candidate has more than permitted number of credits as backlogs, he/she will be detained. The candidate who wishes to take readmission into the year in which he/she is detained has to pay the total tuition fee of that year and all the credits earned during that year shall become null and void.
2. If the number of credits permitted as backlogs is not a whole number, the credits are rounded to next higher digit/whole number.

6. GRADING SYSTEM:

- 6.1 Candidates who have passed all the examinations of the B.E. Degree Program shall be awarded Division in accordance with the grades secured by them in all eight Semesters taken together, including the CIE marks secured in those semesters.

The Grade secured by the candidate will be shown in the Memorandum of Marks as per his/her performance both in SEE and CIE together and as per the norms indicated in clause 4.3.

A minimum Cumulative Grade Point Average (CGPA) of 5 is required for the award of Degree. The consolidated memorandum of marks will reflect the Credits & Grade obtained by the candidates in all the course of B.E. Programme.

6.2 Semester Grade Point Average (SGPA) & Cumulative Grade Point Average (CGPA) Calculations:

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

- SGPA is calculated up to second decimal point
- SGPA is calculated only when all subjects in that semester are Cleared / Passed

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

- CGPA at a given point of Semester calculated up to second decimal point
- CGPA is calculated only when total credits earned are equal to total credits prescribed per scheme up to a semester in which the candidate has last appeared for **Semester End Examination (SEE)**.

7. AWARD OF DEGREE:

The degree of Bachelor of Engineering will be conferred on candidate who has pursued a regular program of study of four academic years as here in after prescribed in the Scheme of Instruction and has passed all the examinations as prescribed in the Scheme of Examinations.

7.1 AWARD OF DIVISION:

- CGPA 7.5 and above : **First Class with Distinction**
- CGPA 6.5 and above but less than 7.5 : **First Class**
- CGPA 5.5 and above but less Than 6.5 : **Second Class**
- CGPA 5.0 and above but less than 5.5 : **Pass Class**

7.2 AWARD OF GOLD MEDAL:

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

8. IMPROVEMENT OF OVERALL SCORE:

- 8.1 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 BE. degree program, by reappearing at not more than two semesters (all subjects pertaining to the semester taken together) 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).
- 8.2 In case of candidates who have secured CGPA less than 5 may appear for improvement in individual subjects to become eligible for the award of Degree within one year from the date of completion of VIII - Semester.

9 GENERAL RULES OF EXAMINATIONS:

- 9.1 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 Controller of Examination; (COE) O.U through the Principal of the College where candidate is enrolled as a regular student.
- 9.2 When a candidate's application is found in order and he/she is eligible to appear at an Examination, the COE, O.U. shall furnish him with a Hall Ticket, enabling the candidate to appear in the Examination, and this Hall-Ticket shall have to be produced by the Candidate before he/she is admitted to the premises where the Examination is conducted.
- 9.3 A Candidate who does not present himself/herself for the examination for any reason whatsoever, excepting shortage of attendance, shall not be entitled to claim refund of She whole or part of the examination fee for subsequent Examination(s).
- 9.4 A candidate after he/she has been declared successful in the whole examination, shall be given a Provisional Certificate indicating the year of examination, the programme in which he/she was examined and, the overall Grade (CGPA) secured. However, the candidates have to obtain Decree Certificate (convocation) from the University Examination branch as per the notification issued by it.
- 9.5 No candidate shall be allowed to put in attendance for multiple programme and appear at examinations for the same simultaneously.

9.6 Students who have appeared once at 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 University may have introduced new courses. They will, however, have to appear at the examinations according to the scheme of examination and syllabi in force.

10. **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. Candidates not appearing at the examinations or failing in them shall take the examination subsequently according to the revised syllabus and regulations.

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