

**ACADEMIC REGULATIONS**

**BACHELOR OF TECHNOLOGY**

**FOUR YEAR INTERGRATED COURSE**

**(Common for all branches)**



**JODHPUR NATIONAL UNIVERSITY**  
**JODHPUR**

# Academic Regulations

Bachelor of Technology

(Semester Scheme)

Four Year Integrated Course

## 1. Abbreviations:-

CS –Computer Science & Engineering Branch

EE –Electrical Engineering Branch

EC –Electronics & Communication Branch

IT –Information Technology Branch

ME –Mechanical Engineering Branch

2. All examination for B.Tech. shall be governed by ordinance. Change in statutes/ordinance/rules/regulation/syllabi & books may from time to time be made by amendment and/or by redrafting and a candidate shall accept and comply with and abide by any change that applies to semester/year he has not completed at the time of the change.

## 3. Duration of Course

The course study for B.Tech. will extend over a period of 4 years ( 8 semesters) as an integrated course. A student shall follow the prescribed course as given in the teaching & examination scheme of the course to which he is admitted.

## 4 Eligibility for Admission

4.1 (a) A candidate for admission to the four year degree program for B.Tech must have passed (10+2) Senior Secondary/ (Physics, Chemistry & Mathematics) from Board of Secondary Education, Rajasthan or other examinations recognized as equivalent or higher thereto and selected through RPET/AIEEE or otherwise as per the procedure laid down by the University from time to time.

4.1 (b) 5% relaxation is provided to candidates belonging to SC/ST category.

### 4.2 Lateral entry to Diploma holder's B.Tech. Second Year

A candidate who has passed Diploma course in engineering conducted by a State Board of Technical Education with atleast 60% marks in aggregate or in Final year shall be eligible for admission directly to the II B.Tech of the Four year course in the appropriate branch of engineering provided that in the case of a student belonging to SC/ST, minimum percentage marks secured at the Diploma shall be at least 55%.

Admission of such student shall be made on the basis of merit at the Diploma level and/or merit to be adjudged through a competitive test/viva voce.

The candidate who has appeared at the Final Year examination of Diploma course but whose result are awaited will also be permitted provisionally.

All such cases would be considered for admission against the 10% of sanctioned strength and the availability of seats due to drop outs & failures in respective branch of engineering and as per prevalent rules (of RPET in this respect) of the University.

## **5. Eligibility for appearing in the examination**

The course of study for First year ( I & II Semester) would be common for all branches.

- 5.1** (i) For all regular candidates in the Faculties of Applied Science, Law, Pharmacy, Management and Engineering the minimum attendance requirement shall be that a candidate should have attended at least 75% of the lectures delivered and the tutorials held taken together as well as 75% for the practical and sessionals from the date of her/his admission.
- 5.1** (ii) A candidate who has attended a regular course of study in the Faculty of Engineering for the First Semester of First B.Tech. in accordance with the scheme of examination shall be eligible for appearing at the first semester examination of First B.Tech for the B.Tech. Degree which shall be common to all branches.
- 5.1** (iii) A candidate who has attended a regular course of study for the Second Semester of First B.Tech and has appeared in the First Semester examination shall be eligible for appearing at the Second Semester examination of First B.Tech. in accordance with the scheme of examination which shall be common to all branches.
- 5.2.** (i) The course of study from the Second B.Tech. Examination shall be separate for all branches of study.
- 5.2** (ii) A candidate who after passing I & II Semester (combined) of Ist B.Tech. examination with regular course of study in a particular branch of Engineering shall be eligible for appearing at the Third Semester examination of Second B.Tech. in that branch of study.
- 5.2** (iii) A candidate who has attended a regular course of study for the Fourth Semester examination of Second B.Tech and has also appeared in the Third Semester examination of Second B.Tech shall be eligible for appearing at the Fourth Semester Examination of Second B.Tech in that branch of study.

- 5.2 (iv) A candidate who has passed III & IV Semester of Second B.Tech examination and has attended a regular course of study in a particular branch of Engineering for the Fifth Semester of Third B.Tech in accordance with the scheme of examination shall be eligible for appearing at the Fifth Semester examination of Third B.Tech in that branch of study.
- 5.2 (v) A candidate who has attended a regular course of study for the Sixth Semester of Third B.Tech. and also has appeared in the Fifth Semester examination of Third B.Tech. in accordance with the scheme of examination shall be eligible for appearing at the Sixth Semester examination of Third B.Tech in that branch of study.
- 5.2. (vi) A candidate who has passed V and VI Semester of Third B.Tech examination and has attended a regular courses of study in particular branch of Engineering for the Seventh Semester of Final B.Tech in accordance with the scheme of examination shall be eligible of appearing at the Seventh Semester examination of Final B.Tech in that branch of study.
- 5.2 (vii) A candidate who has attended a regular course of study for the Eighth Semester of Final B.Tech and has also appeared in the Seventh Semester examination of Final B.Tech in accordance with the scheme of examination shall be eligible for appearing at the Eighth Semester examination of Final B.Tech in that branch of study.

**5.3 Condonation of shortage of attendance:**

The shortage of attendance up to the limits specified below may be condoned on valid reasons :

- (i) A candidate can have a relaxation of 10% attendance on medical and special ground to the satisfaction of Dean and additional 5% can be granted by Vice-Chancellor.
- (ii) The N.C.C./N.S.S. cadets sent out to parades and camps and such students who are deputed by the University to take part in games, athletics or cultural activities and to attend campus interviews may for the purpose of attendance be treated as present for the days of these absence in connection with the aforesaid activities and that period shall be added to their subject wise attendance.

**6. Scheme of Study**

- 6.1 The Medium of instruction and examination shall be English.

- 6.2** Candidates for the B.Tech Course shall be instructed and examined as per the Teaching and Examination scheme and course content of respective semester.
- 6.3** (i) The course of study for First year ( I & II Semester) would be common for all branches.
- 6.3** (ii) The course of study from the Second B.Tech, III B.Tech & Final B.Tech ( from III to VIII Semester ) shall be separate for each branch of study.
- 7. Examination** There shall be two sessional exam in theory and one university examination each in theory & Practical in each semester. These examinations will be designated as follows.
- (i) During first year; B.Tech. I semester Examination, B.Tech. II Semester Examination.
  - (ii) During second year: B.Tech. III Semester Examination, B.Tech. IV Semester Examination.
  - (iii) During third year: B.Tech. V Semester Examination, B.Tech. VII Semester Examination.
  - (vi) During fourth year: B.Tech. VII semester Examination, B.Tech. VIII Semester Examination.
  - (v) Examination shall be conducted by means of written papers and/or practical and/or viva voce exams, including sessionals work done in the laboratories, workshops and training in engineering works or factories.
- 8. Standard of Passing**
- 8.1** (i) the candidate has to pass individually in all courses of each semester from I to VIII Semester. The results of I, III, V and VII Semester shall be declared without awarding the division. The division will be awarded on the basis of combined performance of I & II Semesters, III & IV Semesters, V & VI Semesters and VII & VIII Semesters respectively.
- 8.1** (ii) For pass in a course the student has to secure minimum 35% marks in theory papers including sessionals/ term papers however to pass in theory paper he/she must secure 35% marks in university theory paper (i.e. 28 marks out of 80) and candidate has to obtain 50% marks in practical and sessional (i.e. as a minimum 10 marks out of 20 and 15 marks out of 30 and in total 25 marks out of 50). He/she must obtain aggregate of 45% marks in the grand total in that semester.
- 8.2** No candidate will be awarded degree of Bachelor of Engineering unless he/she has passed all the eight semester.

**8.3** If a student fails only in theory papers, he/she will be treated as an Ex-student until-unless he/she wants to be a regular student.

**8.4** If he/she fails in any Practical examination then-  
a) if he/she is declared as Year Back category, he/she will be a regular student.  
b) if he/she is declared ATKT due to fail in practical then he/she has to attend laboratory classes regularly to improve internal marks. He/she will be given single chance.

**NOTE:** A candidate, who is unable to appear at the semester examination in some theory papers, Practical and sessionals due to any reason what so ever, shall be considered as having failed in those paper (s), Practical (s) and Sessional (s).

**9. Marks, Criteria for passing and other conditions.**

**9.1** Candidate will be considered as passed the semester only when the candidate passes in all the subjects with ATKT. Candidate will be given maximum eight years to complete his/her B.Tech after this period his enrolment stand cancelled. If candidate fail to appear in examination, then also his attempt will be counted.

**9.2** (i) No candidate shall be permitted to pursue a regular course of study of III B.Tech (V and VI Semesters) unless he/she has passed all the courses of First B.Tech.

(ii) No candidate shall be permitted to pursue a regular course of study of Fourth B.Tech (VII and VIII Semesters) unless he/she has passed all the courses of Second B.Tech.

**9.3 ATKT**

If a candidate fails in not more than 50% of Theory courses and/or not more than 50% of practical courses during a year (Both semesters of a year taken together), he will be allowed to keep term (ATKT) in next year subject to the provisions of ordinance.

<b>At the end of academic year</b>	<b>Total subject heads at the end of academic year.</b>	<b>50% of total subjects (To nearest full digit) for ATKT</b>
B. Tech. I Year Theory	7 + 7	7
Practical	6 + 6	6

Candidate allowed ATKT shall appear in failed subject (s) along with regular candidates whenever examination of that semester is held or in special

examination if any held by the University. For the purpose of this clause, each written paper and each Practical and sessional of a semester shall be counted as a separate course.

## **10 Professional Training and Project**

Every candidate is required to undergo practical training in a engineering works, organization of hardware & software technology, factory, workshop & design office approved by the Dean of the faculty for a period of 45 working days after 3<sup>rd</sup> year. In addition to this, every candidate will be required to undertake 4 - 5 Industrial Visits spanning over a period of about 10 days after Second Year but before completing the course of III B.Tech.

## **11 Award of Degree, Division and Rank**

**11.1** Degree will be awarded to the candidates who have passed in all the subjects of the all eight semesters.

**11.2** (i) First B.Tech to Third B.Tech. a candidate declared pass in a examination will be awarded division as follows:

First Class                      If a candidate secure a minimum of 60 percent.

Second Class                    If a candidate secure a minimum of 50 percent.

Pass Class                        If a candidate secure a minimum of 45 percent.

**11.2** (ii) For award of division for B.Tech Degree as a whole marks shall be totaled up as follows :

First B.Tech                      40%

Second B.Tech                    60%

Third B.Tech                      100%

Final B.Tech                      100%

**11.2** (iii) A candidate shall be awarded a degree with Honours if she/he secures a minimum of 75 percent of aggregate marks provided he/she clears all the courses in first attempt. A candidate shall be awarded a degree with First Class if she/he secures a minimum of 60 percent of aggregate marks. A candidate shall be awarded a degree with Second Class if she/he secures a minimum of 50 percent of aggregate marks. The rest of the successful candidates will be awarded pass class.

**11.2** (iv) For determining merit position of the candidates at the Final Year level the marks obtained by them in the Second, Third and Final Year as described above shall only be considered.

**12. REVALUATION:** Revaluation can be done on the request of candidate with requisite fee as per Rules laid down by university.

**13. CONDONATION OF DEFICIENCY IN MARKS**

With a view to moderate hard line cases in the examination the following rules shall be observed:

**13.1** Deficiency up to 5 marks be condoned to the best advantage of the candidate for passing the examination, provided the candidate fails in maximum of two Theory, or one Theory and one practical or two practicals. This facility shall be available only to those candidates who appear at the semester examination in full (i.e. in all Theory, Practicals and sessional in first attempt.)

**13.2** While declaring result of the candidate no marks shall be added to or subtracted from the aggregate for the deficiency condoned as above. However, he/she will pass the subjects cleared through clause 13.1 after condoning the deficiency the candidate's result shall be declared in the division, which the aggregate entitled him/her.

**13.2.1** One grace mark will be given to the candidate who is failing/missing distinction/ missing first division by one mark, by the Vice-Chancellor in the B.Tech. examination. This benefit will not, however, be available to a candidate getting advantage under clause 13.1

**14. Ex-student:**

**14.1** (i) If a candidate fails in more than 50% of theory courses and/or more than 50% of practicals and sessionals in a year, he/she shall be declared as failed in that year.

**14.1** (ii) A candidate failed in a year shall have to take admission as regular student in that year. However a candidate who has passed in all practicals and sessionals but has failed in Theory courses only may appear in that year's examination as Ex student in all Theory papers, his practical and sessional marks of that year shall be carried over. However, such an Ex-student can apply for regular course of study in the year in which he/she has failed. Being a regular student he/she shall appear in all the examinations of Theory, Practical and Sessionals.

**14.2** (i) Where a candidate fails in Practicals and Sessionals and is given the benefit of ATKT as per clause 8 and 9, he/she may choose to attend laboratory/sessional classes and submit a revised laboratory reord/sessional. Such a candidate shall have to pay a fee of Rs. 500/- for doing each practical and sessional course during the semester. Otherwise his previous sessional marks shall be carried forward.

**15. Change of Branch**

A candidate may be permitted to change his/her branch of study after passing B.Tech I Year strictly on the basis of merit secured in B.Tech I Year examination (First and Second Semester examination taken together) depending upon the vacancies available in the sanctioned strength in particular branch of study.

**16. Requirement of additional degree :**

- a) An engineering graduate of the Jodhpur National University, Jodhpur who wishes to qualify for an additional degree of Engineering of the University will be considered by a committee consisting of the Dean and the Head of Department concerned.
- b) He/she will be admitted in Third B.Tech class of the branch as regular student. The Theory papers and practicals and sessional which he/she has to appear as additional courses at the previous examinations in that branch will be decided by the above committee. .
- c) He/she will be awarded division as per regulation 11.
- d) Mention will be made in the certificate that he/she has qualified for the additional degree.

**17.** A special Examination for VIII Semester will be held along with VII Semester examinations for students who fail in VIII Semester regular Examination.

**18.** The diploma passed candidates admitted to the Second B.Tech., (all branches) shall be required to undergo a regular course of study in Special Mathematics during the academic Session and shall have to appear and pass in this paper (Sessional) along with other theory papers of the Main Examination. For this subject, combined marks obtained in III & IV Semester shall be counted for pass as a pre-requisite of Clause 9.2 (ii) and will not be considered for award of division.

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