



PARVATHAREDDY BABUL REDDY

VISVODAYA INSTITUTE OF TECHNOLOGY AND SCIENCE

(AUTONOMOUS)

(Affiliated to JNTUA, Anantapuramu)

KAVALI

ACADEMIC REGULATIONS (R-21)

for

B.TECH (REGULAR-FULL TIME)

(Effective for the batches admitted from the Academic Year 2021-22 onwards)

And

B.TECH (LATERAL ENTRY SCHEME)

(Effective for the batches admitted from the Academic Year 2022-23 onwards)

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Regulations for Four-Year Bachelor of Technology (B.Tech) Degree program for the batches admitted from the academic year 2021-2022 & for B.Tech Lateral Entry batches admitted into II Year from the academic year 2022-2023:

1. Disclaimer

All the rules and regulations, specified herein after, shall be read as a whole for the purpose of interpretation and when a doubt/ambiguity arises, the interpretation of the Chairman, Academic Council, PBRVITS (Autonomous), subsequently referred to as PBRVITS, is final. As per the requirements of the Statutory Bodies, Principal, PBRVITS, shall be the Chairman of the College Academic Council. The Academic Council shall have the powers to issue clarifications and/or make amendments to eliminate such ambiguities.

PBRVITS shall reserve the right to revise, amend or change the regulations, scheme of examinations and syllabi, from time to time, if found necessary and on approval by the Academic Council of the Institute, keeping the recommendations of the Board of Studies (BOS) in view.

The regulations altered may be applicable to all the Candidates on rolls.

Wherever the words he, him or his occur, it will also include she, her or hers.

2. Admissions

2.1. Regular Scheme

Regular admissions into the first year of B.Tech Program of PBRVITS, will be as per the norms stipulated by Jawaharlal Nehru Technological University Anantapur, Ananthapuramu and the Govt. of Andhra Pradesh.

2.2. Lateral Entry Scheme

Admissions under the Lateral Entry scheme into the second year of B.Tech Program of PBRVITS will be as per the norms stipulated by Jawaharlal Nehru Technological University Anantapur, Ananthapuramu and the Govt. of Andhra Pradesh.

3. Under Graduate B.Tech Degree Programs Offered

	Name of the Branch	Abbreviation	Branch Code
1	Civil Engineering*	CE	01
2	Electrical and Electronics Engineering	EEE	02
3	Mechanical Engineering	ME	03
4	Electronics and Communication Engineering	ECE	04
5	Computer Science and Engineering	CSE	05
6	Computer Science and Engineering- Artificial Intelligence	CSE-AI	31
7	Computer Science and Engineering – Internet of Things	CSE-IOT	35
8	Artificial Intelligence & Machine Learning*	AIML	39

* From Academic year 2022-23 onwards

The provisions of these Regulations shall be applicable to any new disciplines/branches that may be introduced from time to time and appended to the above list.

4. Program Duration and Medium of Instruction

4.1. Normal Duration

- i. The duration of the B.Tech. degree program for the students admitted after 10+2 or its equivalent is four academic years consisting of two semesters in each academic year.
- ii. The duration of the program for the students admitted under lateral entry scheme into the Third semester is three academic years consisting of two semesters in each academic year. Each semester shall consist of Fifteen Instruction Weeks excluding the days allotted for examinations.

4.2. Maximum Duration

- i. Students admitted after 10+2 or its equivalent shall fulfil all the requirements for the award of B.Tech. Degree within eight academic years (16 semesters) from the date of admission. After eight academic years from the year of their admission, the students shall forfeit their seat in B.Tech program and their admission stands cancelled.
- ii. Lateral entry students shall fulfil all the requirements for the award of B.Tech Degree within six academic years (12 semesters) from the date of admission. After six academic years from the year of their admission, the Lateral Entry students shall forfeit their seat in B.Tech program and their admission stands cancelled.
- iii. The total period for completion of the program is reckoned from the commencement of the semester to which the candidate was first admitted and shall not exceed the maximum duration (Section 4.2).

Completing the program of study shall mean not only satisfying the attendance and academic/credit requirements but also passing of all the courses and earning the credits prescribed in the curriculum within the respective stipulated duration.

4.3. Medium of Instruction

English shall be the medium of instruction for all the courses (theory and laboratories) including the content delivery, examinations, seminars, presentations and project/ thesis reports.

5. Credits

5.1. Credits Assignment

In the design of the course structure, based on its importance to the program, each course is allotted certain number of credits as shown below:

Category	Duration	Credits
Lecture Hour (L)	One Hour/week	1
Practical (P)	One Hour/week	0.5
Major Project/Final Semester Internship/ Technical Seminar	-	12
Summer Internships	-	1.5 / 3
Skill Oriented Courses	Semester	2
Mandatory Courses (except UHV)	Semester	0
UHV (Mandatory Course)	Semester	3

5.2. Total Credits

Total credits of all the courses in the curriculum for the B.Tech. program shall be 163 (124 for Lateral entry admissions). To become eligible for the award of degree, every student must earn 163 credits (Lateral entry students must earn 124 credits) specified in the curriculum of the program with a CGPA of not less than 4.0 (on a scale of 10.0) and within the duration specified in Section 4.2.

A student admitted to the B.Tech. program in a particular discipline of engineering will earn the degree in that discipline by fulfilling all the requirements during the course of study, as prescribed in the regulation.

The students fulfilling the eligibility criteria are also permitted to opt for an Honours Degree in the same discipline of engineering or a Minor Degree in another discipline of engineering in addition to the Degree in his/her own discipline of engineering.

The student opting for B.Tech. degree with Honours or B.Tech. degree with Minor is required to earn additional 20 credits within the stipulated period.

6. Curriculum Framework

Curriculum framework is important in setting the right direction for a degree program. The curriculum is designed to facilitate CBCS and incorporates the courses required to attain the expected knowledge, skills and attitude by the time of graduation to qualify for the award of degree in the chosen branch or specialization.

Besides, this also helps in assigning the credits for each course, sequencing the courses semester-wise and finally, arriving at the total number of courses to be studied and the total number of credits to be earned by a student to fulfil the requirements for the conferment of the degree. The curriculum consists of various course categories to cover the requisites of the program and for the attainment of proposed program outcomes of the corresponding program.

6.1. Classification of Courses

The Curriculum of every B.Tech Program consists of the following components:

S.No	Category	Courses	Credit Break-up (Total 163)
1	Humanities and Social Sciences including Management Courses (HSMC)	English, Communication skills, Humanities and Management.	13.5
2	Basic Science Courses (BSC)	Mathematics, Physics, and Chemistry.	21
3	Engineering Science Courses (ESC)	Workshop, Drawing, Basics of all the Engineering Branches.	24
4	Professional Core Courses (PCC)	Core Courses relevant to the chosen discipline.	51
5	Professional Elective Courses (PEC)	Elective Courses relevant to the chosen discipline.	15

S.No	Category	Courses	Credit Break-up (Total 163)
6	Open Elective Courses (OEC)	Courses from Technical/ Emerging areas of other disciplines.	12
7	Major Project (PROJ)	Project Work, Internship and Technical Seminar	16.5
8	Mandatory Courses (MC)	Non-credit courses on Environment, Ethical Values etc.	Non-credit
9	Skill Oriented Courses (SC)	Soft skill courses and job- oriented domain specific courses.	10

Every student has to study all the mentioned courses in all the categories specified above. Minor deviation of $\pm 20\%$ is allowed from the suggested credit break-up

6.2. Electives

In the V, VI and VII semesters, every student will have the choice to opt for five professional elective courses from the defined list of domain related courses and Four Open Elective courses from the defined list of other technical and/or emerging areas as prescribed in the curriculum. Student is required to register for these elective courses before the commencement of every semester.

6.3. Summer Internships

Two summer internships each with a minimum of three weeks duration are to be completed at the end of second and third years mandatorily. The students can opt for the internship programs offered in technical areas such as but not limited to Industries, Govt. Organizations, Construction Agencies, Hydel and Thermal Power Plants, Software Companies, etc.

Internship – I shall mandatorily be a Community Service Project (considered an integral part of the curriculum) may be taken up by the student, with the prior approval of the concerned college committee and should put in a minimum of 180 hours for the Community Service Project during the summer vacation. A mentor will be assigned for a single/group of students. The single/group of students shall be assigned a particular habitation or village or municipal ward such that they could take up a social activity, concerning their domain or specific local issues. The students are expected to carry out these projects with involvement, commitment, responsibility and accountability.

Evaluation shall be based on the active participation of the student and grade will be awarded by the mentor/faculty member.

The student will be required to submit a summer internship report to the concerned department and appear for an oral presentation before the departmental committee.

6.4. Skill Oriented Courses

Five Skill Oriented Courses, designed by a College Level Committee and included in the curriculum structure of each discipline of Engineering, shall be offered from the III semester through VII semesters. The courses shall include a soft skills course along with job-oriented domain specific courses.

The student may also choose to appear for a certificate program on the above

courses being offered by external agencies (Industries/Professional bodies/APSSDC or any other accredited bodies) as approved by the College Level Committee.

If a student chooses to take a Certificate Course offered by external agencies, in lieu of the skill advanced course offered by the Department, the credits shall be awarded to the student upon producing the Course Completion Certificate from the external agencies. The college level committee shall evaluate the grades/marks given for a course by external agencies and convert to equivalent marks/grades. The attendance for such students shall be considered on the grade obtained.

6.5. Major Project and Internship

In the final semester, the student is mandatorily required to work on a major project with well-defined objectives. Parallely, the student has to undergo internship and also, collect information on a specialized topic for a technical presentation. At the end of the semester the candidate shall submit a report on the internship work along with an internship completion certificate. The major project report shall be presented in the form of a thesis.

6.6. Induction Program & Extra Academic Activity

There shall be a mandatory student induction program for I Year students, with three-week duration, before the commencement of first semester. The program shall include activities such as Physical activity, Creative Arts, Ethics & Values, Literary & Proficiency Modules, Lectures by Eminent People, Familiarization with Dept./Branch, etc.,

In addition to completion of the academic requirements, to become eligible for the award of degree, every student should successfully complete Extra Academic Activity. A minimum of 75% attendance, independent of overall attendance is mandatory to earn a satisfactory grade.

During first and second semesters, every student is required to register for one of the following activities mandatorily:

- i. Yoga/ Meditation
- ii. Sports and Games activity

During third and fourth semesters, every student is required to register for one of the following activities mandatorily:

- i. NSS/ NCC
- ii. Extension Activities
- iii. Literary/ Cultural Activities
- iv. Community Service Activities

The activities shall be carried out beyond the class hours and shall be monitored by the respective faculty in-charge and HOD. Evaluation shall be on the basis of participation, attendance, performance and behavior. Grade shall be entered in the grade sheet as satisfactory/unsatisfactory and shall not be used while computing CGPA. If a student fails to get the satisfactory grade in any of these chosen activities, he/she has to repeat the same in subsequent semesters.

7. Minor Degree and Honours Degree

The students (Regular and Lateral Entry) shall be given an option to earn a Minor/Honours degree based on their academic performance.

No class/division shall be awarded for Minor/Honours Program and eligible students are

permitted to earn only one of these degrees in addition to the degree in their own discipline of Engineering –

- i. Minor Degree (OR)
- ii. Honours Degree

The student shall register for Minor/Honours Degree in the IV semester after the results of III Semester are declared.

7.1. Eligibility to opt for Minor/Honours Degree

- i. A student is eligible to exercise this option if he has passed all the courses offered in the I, II and III semesters, without any backlogs, in the first attempt itself and has earned a minimum CGPA of 8.0.
- ii. In case of lateral entry students, the student shall have passed all the courses offered in III semester, without any backlogs, in the first attempt itself and has earned a minimum CGPA of 8.0.
- iii. The Minor/Honours Degree shall stand cancelled in case of the following:
 - a) If a student fails to acquire 8.0 CGPA or fails in any of the courses in the period mentioned above.
 - b) If the student fails to maintain a CGPA of 8.0 without any backlog.
 - c) If the student is detained due to lack of attendance in the regular B.Tech program.
 - d) If the student has not met the attendance criteria as stipulated for regular B. Tech course (Section 9.1).
- iv. The attendance for the registered courses under the Minor/Honours Degree is to be considered separately from the attendance for the regular courses under the Major Degree.
- v. A student registered for Minor/Honours Degree shall pass all the courses that constitute the requirement of the program.
- vi. A student shall earn additional 20 credits in the specified area to be eligible for the award of B. Tech degree with Minor/Honours. This is in addition to the credits essential for obtaining the Under Graduate Degree in Major Discipline.
- vii. If a student drops or fails to meet the CGPA requirement for B.Tech degree with Minor/Honours at any point after registration, he/she will be dropped from the list of students eligible for degree with Minor/Honours and they will receive B.Tech degree only. The credits earned by such students cannot be converted to open or core electives and they will remain extra. However, such students will receive a separate grade sheet (but not in the Provisional/Degree Certificate) mentioning the additional courses completed by them. In such cases, the student may choose to omit the mention of the course in the separate grade sheet as follows:
 - a) All the courses done under the dropped Minor will be shown in the grade sheet.
 - b) None of the courses done under the dropped Minor will be shown in the grade sheet.
- viii. Minor/Honours Degree must be completed simultaneously with the Major degree program. A student cannot earn the Minor/Honours Degree after he/she has already earned the bachelor's degree.

7.2. Minor Degree

- i. The student, who has met the eligibility criteria mentioned in Section 7.1, shall be given an option to earn a minor degree in another discipline of

- Engineering or Industry-relevant minor specialization of his/her choice at the beginning of the IV semester based on his/her academic performance.
- ii. Out of the 20 additional Credits, a student shall earn 16 credits by undergoing specified courses along with prerequisites. It is the responsibility of the student to acquire/complete prerequisite before taking the respective course.
 - iii. A student shall be permitted to choose only those courses that he/she has not studied in any form during the Program.
 - iv. In addition to the 16 credits, students must pursue at least two courses through MOOCs (approved by College Level Committee). These courses must be of minimum 8 weeks in duration. Attendance will not be monitored for MOOC courses. In order to earn 4 credits student has to acquire a certificate with grading or marks or pass/fail from the agencies approved by the College Level Committee. If the MOOC course is a pass/fail course without any grades, the grade to be assigned shall be decided by the College Level committee constituted by the Principal.
 - v. The concerned department shall decide on the minimum enrolments for offering Minor program. If minimum enrolment criteria are not met, then the students shall be permitted to register for the equivalent MOOC courses as approved by the College Level Committee.

7.3. Honours Degree

- i. The student, who has met the eligibility criteria mentioned in Section 7.1, shall be allowed to opt for Honours program in the same discipline/branch of engineering at the beginning of the IV semester based on his/her academic performance.
- ii. Out of the 20 additional credits to be acquired, a student shall earn 16 credits by undergoing specified courses listed, with four courses, each carrying 4 credits. It is the responsibility of the student to acquire/complete prerequisites before taking the respective course. The courses offered shall be domain specific and advanced courses.
- iii. Students can select the additional and advanced courses from their respective discipline/branch in which they are pursuing the degree and get an Honours degree in the same.
- iv. The concerned head of the department shall also consider courses listed under professional electives of the respective B. Tech programs for the requirements of B. Tech (Honours). However, a student shall be permitted to choose only those courses that he/she has not studied in any form during the Program.
- v. In addition to the 16 credits, a student must pursue at least two courses through MOOCs (approved by College Level Committee). These courses must be of minimum 8 weeks in duration. Attendance will not be monitored for MOOC courses. In order to earn 4 credits student has to acquire a certificate with grading or marks or pass/fail from the external agencies approved by the College Level Committee. If the MOOC course is a pass/fail course without any grades, the grade to be assigned shall be decided by the College Level committee constituted by the principal.
- vi. The concerned department shall decide on the minimum enrolments for offering Honours program. If minimum enrolment criteria are not met, then the students shall be permitted to register for the equivalent MOOC courses as approved by the College Level Committee.

8. Student Assessment

The performance of the student shall be evaluated subject wise. The distribution of marks for each course will be as shown below:

S.No.	Course Category	Continuous Internal Evaluation (CIE)	End Examination (EE)
1	Theory/Design/Drawing Courses including Electives and Skill Oriented Courses	30	70
2	Practical Courses	30	70
3	Major Project	60	140
4	Summer Internships	100	--
5	Final Semester Internship and Technical Seminar	100	
6	Mandatory Courses (Non-Credit)	30	--

8.1. Continuous Internal Evaluation (CIE)

In general, the teacher handling a course is solely responsible for continuous internal assessment and he/she shall be responsible for maintaining all records to justify his/her evaluation scheme and score thereof. Every teacher shall maintain an 'Attendance Record' which consists of attendance marked in each Theory/Laboratory/Electives, the assessment marks and the record of class work (topics covered), separately for each course. This should be submitted to the HOD periodically (at least three times in a semester) for verification of the syllabus coverage and the records of assessment marks and attendance.

8.1.1. CIE for Theory Courses including Electives

- i. For every theory subject, during the semester, there shall be two midterm examinations. Each midterm examination shall be evaluated for 30 marks. The distribution of marks is as follows:
 - a. Subjective paper shall be evaluated for 30 marks (90 minutes duration).
 1. It shall contain 3 questions of equal weightage of 10 marks.
 2. Student has to answer all the three questions.
 3. The first question shall contain 5 questions of 2 marks each.
 4. The second and third questions shall be either-or type questions, i.e., with an internal choice, of which student has to answer one from each either-or type question.
 5. The student's score obtained out of 30 will be calculated for 20 marks and any fraction shall be rounded off to the next higher mark.
 - b. Assignments shall be evaluated for 10 marks
 1. They shall contain questions as decided by the department committee.
 2. There shall be 2 assignments before each mid exam in a

semester and the average marks shall be considered for each Mid exam

- ii. The Midterm question papers shall be set based on the prescribed syllabus such that
 - a. For the first Mid-term exam,
 1. The first question shall contain five 2 mark questions from the I and II units
 2. The Second question shall contain 2 questions, both from I unit, out of which the student has to answer one question
 3. The Third question shall contain 2 questions, both from II unit, out of which the student has to answer one question
 - b. For the second Mid-term exam,
 1. The first question shall contain 2 mark questions from the III, IV and V units
 2. The Second question shall contain 2 questions, both from III unit, out of which the student has to answer one question
 3. The Third question shall contain 2 questions, one from IV unit and one from V unit, out of which the student has to answer one question
- iii. The sum of the total marks obtained in subjective paper and assignments shall be the final marks for each mid semester examination. Any fraction shall be rounded off to the next higher mark for the particular mid exam.

Note: In case any student is absent for the mid semester examination, for any reason whatsoever, no re-exam shall be conducted and corresponding mid semester marks for that examination shall be considered as zero.

- iv. Final mid marks for the semester shall be arrived at by considering the marks secured by the student in both the mid examinations with 80% weightage given to the mid exam in which better marks are secured and 20% to the other.

For Example:

Marks obtained in first mid: 25

Marks obtained in second mid: 20

Final mid semester Marks: $(25 \times 0.8) + (20 \times 0.2) = 24$

If the student is absent for any one of the midterm examinations, the final mid semester marks shall be arrived at by considering 80% weightage to the marks secured by the student in the appeared examination and zero to the other. For Example:

Marks obtained in first mid: 0 (Absent)

Marks obtained in second mid: 25

Final mid semester Marks: $(25 \times 0.8) + (0 \times 0.2) = 20$

8.1.2. CIE for Drawing/Design Courses:

- i. For the subject having design and/or drawing, such as Engineering Drawing, the evaluation procedure shall be as follows:
 - a. There shall be two Mid-term examinations in a semester for a duration of 2 hours each
 - b. Out of the 30 marks allotted for each Mid exam,
 1. Day-to-day work shall be evaluated for 10 marks by the

concerned subject teacher based on the reports/submissions prepared in the class.

2. Subjective Paper shall contain two either-or type questions of 10 marks each, i.e., with an internal choice, of which student has to answer one from each either-or type question. Student has to answer both the questions.
The subjective paper shall be evaluated for 10 marks.
 3. One question of 10 marks is to be answered in CAD software.
- ii. The subjective papers shall be set based on the prescribed syllabus such that
- a. For the first Mid-term exam,
 1. The First question shall contain 2 questions, both from I unit, out of which the student has to answer one question
 2. The Second question shall contain 2 questions, both from II unit, out of which the student has to answer one question
 - b. For the second Mid-term exam,
 1. The First question shall contain 2 questions, both from III unit, out of which the student has to answer one question
 2. The Fourth question shall contain 2 questions, one from IV unit and one from V unit, out of which the student has to answer one question

The subjective paper shall be answered on paper.

The sum of the marks secured in day-to-day evaluation, subjective paper and CAD paper shall be the final sessional marks for the subject.

- iii. Final mid marks for the shall be arrived at in the same manner as stipulated in Section 8.1.1 (iii &iv).

8.1.3. *CIE for Practical Courses*

For Practical Courses, the evaluation procedure shall be as follows:

- i. Out of the 30 marks allotted,
 - a. Day-to-day work shall be evaluated for 10 marks (Each experiment shall be evaluated for 10 marks and the average shall be calculated)
 - b. Internal Practical Exam conducted at the end of the course shall carry 20 marks, with 10 marks for Practical work, 5 marks for Record and 5 marks for viva voce.

8.1.4. *IE for Summer Internship*

- i. The evaluation of Summer Internship shall be through IE only.
- ii. A committee comprising of HOD or his nominee, a senior faculty nominated by HOD and faculty mentor of the concerned student will assess the internship for 100 marks, by evaluating the internship report and the oral presentation.
- iii. The report and the oral presentation shall carry 40% and 60% weightages respectively.

8.1.5. *IE for Final Semester Internship*

- i. Final Semester internship shall be evaluated through IE only.
- ii. On the completion of the internship, the student shall submit
 - a. A detailed report on the training undergone, and
 - b. A certificate of internship completion from the

industry/organization.

- iii. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three-member Departmental Committee consisting of HOD/His nominee, Project Guide and faculty mentor of the concerned student. Feedback from the manager/supervisor of the student in the industry may also be considered in the evaluation.
- iv. The report and the oral presentation shall carry 40% and 60% weightages respectively.
- v. Any arrangement of internship in industry has to be routed through Training & Placement office via the Professor-in-charge of training with the recommendation of respective HOD.

8.1.6. *IE for Final Semester Technical Seminar*

- i. Final Semester Technical Seminar shall be evaluated through IE only.
- ii. A committee comprising of HOD or his nominee, a senior faculty nominated by HOD and faculty mentor of the concerned student will assess the Seminar by evaluating the report and the oral presentation.
- iii. The report and the oral presentation shall carry 40% and 60% weightages respectively.

8.1.7. *CIE for Major Project*

- i. The project work shall be executed in the VIII semester and will be for duration of one semester.
- ii. The evaluation process shall assign proper weightage to various components such as selection of Abstract/problem statement, Literature Review, Work done and its Presentation (Power-Point)
- iii. The student shall make a periodic presentation of the work progress to the Guide/Supervisor & the Dept. Review Committee.
- iv. On the completion of the Project Work, the Department Review Committee will assess the quality of the work done as per the following guidelines:
 - a. Prework (Abstract Presentation) & Literature Survey
 - b. Periodical Reviews on Work Progress (based on Identification of concepts, Utilization of Modern tools, Design Aspects, Results Analysis, Team work, etc.)
 - c. Final Presentation (PPT content and Delivery)
 - d. Guide/Supervisor Assessment

Each of the above criteria will be assessed for 25% of the marks allotted.

8.1.8. *CIE for Skill Oriented Courses*

- i. CIE for 30 marks through Quiz, Presentation, Group tasks, Group Discussion, Debates, Assignments, Model Building etc.
- ii. Marks distribution shall be same as for Practical Courses as stipulated in Section 8.1.3.

8.1.9. *CIE for Mandatory Courses*

- i. Mandatory non-credit courses are to be completed satisfactorily.
- ii. The evaluation of Mandatory non-credit courses is through CIE only.

- iii. The teacher/subject coordinator handling the course will assess the student through activities, tests, quizzes, seminars, debates, assignments etc.
- iv. At least two such assessments shall be conducted for each student.
- v. Faculty shall maintain the record of assessment tests and marks scored by the students. For passing the course student has to secure 40% of the total CIE marks. Student failing to secure 40% of the CIE marks shall register for the equivalent MOOCs course or shall appear for reassessment tests to be conducted by the teacher and obtain 40%.
- vi. No letter grades shall be awarded for Mandatory non-credit courses.

8.2. End Examination (EE)

8.2.1. EE for Theory Courses including Electives:

The Semester End Evaluation shall be conducted for 3hour duration at the end of the semester.

The question paper pattern shall be as given in Section 8.3.

The questions shall be framed in line with the Course Outcomes defined and cognitive levels.

8.2.2. EE for Design/Drawing courses

The End Examination pattern for Engineering Drawing/Design Courses, shall be of the following pattern:

- i. All questions are compulsory.
- ii. There shall be FIVE questions (one question from each unit of the prescribed syllabus) in either-or pattern, i.e., with internal choice, of which student has to answer one from each either-or type question. All questions shall have equal weightage of 14 marks.
- iii. The questions shall be framed in line with the defined Course Outcomes and cognitive levels.
- iv. There shall be no 2 mark questions.

8.2.3. EE for Practical courses:

- i. For Practical courses, the end examination with duration as specified in the scheme shall be conducted by one Internal and one External examiner nominated by the concerned HOD. In the event of non-availability of the external examiner for any reason whatsoever, the HOD may nominate a faculty member, from the same department, as an external examiner. The said faculty must be competent in the course and preferably, who has not handled that practical course for that class.
- ii. The evaluation procedure shall be as follows:
Out of 70 marks allotted,
 - a. Practical Work (e.g.: Procedure, Experiment, Result) shall be evaluated for 50 marks and
 - b. Viva-Voce shall be conducted for 20 marks.

8.2.4. EE for Skill Oriented Courses

- i. For Skill Oriented courses with theory/practical component, the End Examination shall be conducted on the same lines as specified for Practical courses.

- ii. However, the Evaluation of these courses shall be done internally by the Course Mentor and graded by the College Level Committee.
- iii. If a student completes the certificate course offered by external agencies in lieu of these courses offered by the department/institution, the student shall submit the certificate issued by the recognized external agencies. The College level committee shall evaluate the grades/marks given by the external agencies and convert them to the equivalent grade/marks.

8.2.5. *EE for Major Project:*

- i. The End Examination for the Major Project shall be conducted by one external and two internal examiners.
- ii. The Evaluation Procedure shall consider the following criteria for the allotted 120 marks:
 - a. PPT Preparation
 - b. Oral Presentation
 - c. Viva Voce
 - d. Project Report (Thesis) submitted

The weightages for the Continuous Internal Evaluation (CIE) and End Examination (EE) are summarized and tabulated below:

S.No	Course	Assessment	Marks	Scheme of Examination and Evaluation
1	Theory (including Electives)	CIE	30	Two sessional exams each for 30 marks shall be conducted with subjective paper carrying 20 marks and Assignments carrying 10 marks. Final course marks shall be finalized as in Section 8.1.1.
		EE	70	The end examination shall be for a maximum of 70 marks.
2	Design/ Drawing Courses	CIE	30	Day to Day work shall be assessed for 10 marks Two sessional exams, each for 20 marks, shall be conducted and marks will be finalized as specified in Section 8.1.2.
		EE	70	The end examination shall be evaluated for a maximum of 70 marks.
3	Practical Courses	CIE	30	Day to Day Laboratory work:10marks; Internal Exam and VivaVoce:15 marks; Record work: 5 marks
		EE	70	Practical Work: 50 marks; Viva Voce: 20 marks;
4	Skill Oriented Courses	CIE	30	CIA for 30 marks through quiz, presentations, group tasks, group discussions, debates, assignments, model building etc.
		EE	70	The end examination shall be evaluated, internally, for 70 marks on the same lines as for practical courses.
5	Major Project	CIA	60	The Evaluation shall be conducted by the Department Committee, with weightage given to the following criteria: Prework (Abstract Preparation/Literature Survey) : 25% Work Progress Reviews (Minimum Two) : 25% PPT Content & Delivery : 25% Supervisor Assessment : 25%
		EE	140	Examination shall be conducted by one external and two internal examiners nominated by HOD. Criteria for evaluation shall include PPT & Oral Presentation, Viva Voce and Thesis Preparation.
6	Final Semester Technical Seminar	IE	50	A three-member Department committee shall assess the technical seminar. The report and the oral presentation shall carry 40% and 60% weightages respectively.
7	Final Semester Internship	IE	50	A three-member Department committee shall assess the technical seminar. The report and the oral presentation shall carry 40% and 60% weightages respectively. Feedback from Industry supervisor shall be considered.
8	Internship	IE	100	A three-member Department committee shall assess the internship. The internship report and the oral presentation shall carry 40% and 60% weightages respectively.
9	Mandatory Courses	CIE	30	Evaluation shall be done, internally, through seminars, assignment etc. At least two such assessments shall be conducted by the faculty handling the subject.

8.3. End Examination Question Paper Pattern for theory and Electives:

- i. End examination of theory subjects shall have the following pattern:
 - a. There shall be 6 questions and all questions are compulsory.
 - b. Question I shall contain 5 compulsory short answer 2 mark questions for a total of 10 marks. There shall be question from each unit of the prescribed syllabus.
 - c. In each of the questions from 2 to 6, there shall be either-or type questions of 12 marks each. Student shall answer any one of them.
 - d. The questions from 2 to 6 shall be set by from one unit of the prescribed syllabus for each question.
- ii. End examination of theory subjects consisting of two parts of different subjects, for Example:
Basic Electrical & Electronics Engineering shall have the following pattern:
 - a. Question paper shall be in two parts viz., Part A and Part B with equal weightage of 35 marks each.
 - b. In each part, question 1 shall contain 5 compulsory short answer questions for a total of 5 marks such that each question carries 1 mark.
 - c. In each part, questions from 2 to 4 shall be three either-or type questions of 10 marks each. Student shall answer all the questions.
 - d. The questions from 2 to 4 shall be set by covering one unit of the syllabus for each question

Model Question paper for each theory course shall be prepared by the course teacher/expert within 15 days of the commencement of the semester and the same shall be forwarded to the Controller of Examinations through the Chairman, BOS concerned.

8.4. Massive Open Online Courses (MOOCs)

A student shall be permitted to pursue up to a maximum of two open elective courses under MOOCs during the Program. Each course must be of minimum of 60 hours in duration. Attendance will not be monitored for MOOC courses. Student has to pursue and acquire a certificate for a MOOC course only from the organizations/agencies approved by the College Level Committee in order to earn the stipulated credits. The HOD shall notify the list of such courses at the beginning of the semester. Student can pursue two elective courses through MOOCs with prior approval of the HOD before registering for MOOCs.

- i. MOOC courses can be taken in lieu of Elective courses only (pertaining to their branch only). No Core, Lab or Project course can be dropped in lieu of MOOC.
- ii. The student shall submit course title, institute offering MOOC, examination system, duration and credits of the course.
- iii. After selecting the approved MOOC course, a student shall enroll and clear the course in the stipulated time period and produce the assessment certificate to the department.
- iv. If the assessment certificate is submitted

- a. before the commencement of the semester in which the equivalent course is offered, the student will be exempted from attending the regular class work and CIA of the equivalent subject.
- b. during the semester the student is permitted to withdraw from the remaining part of the course work and CIA.
- c. after the semester is over but before the results of that semester are declared the student can request for considering his/her performance in the MOOCs in lieu of its equivalent.
- v. The student shall submit to the HOD the original certificate issued by MOOCs agency along with a photocopy. The original certificate will be returned after due verification. The HOD shall retain the photocopy with his signature affixed on it. An equivalent grade corresponding to grade/marks awarded by MOOCs agency shall be determined by college level committee. This equivalent grade shall be shown in the grade sheet and accounted in the SGPA and CGPA calculations.

9. Eligibility for Promotion

The student shall be promoted to the next semester after fulfilling the following:

- i. Attendance requirement
- ii. Credit Requirement

9.1. Attendance Requirement

In any semester, a student is considered to have completed the regular course of study only when he/she puts in an aggregate attendance of 75% and a minimum of 40% attendance in each course (subject).

For a given semester, the aggregate attendance is calculated as follows:

$$\text{Aggregate Attendance} = \frac{\text{Total number of classes attended by student in all the courses put together}}{\text{Total number of classes held in all the courses put together}} \times 100$$

Condonation for shortage of attendance in genuine cases, on health grounds, may be recommended by the Principal, if a student puts in an aggregate attendance of at least 65% and a minimum of 40% attendance in each course (subject). However, the student has to make an application and pay the prescribed fee.

A student who has not satisfied these requirements of attendance in any semester will not be allowed to write the end examination and shall have to repeat that semester. The attendance under this clause does not include attendance in any examinations/test/extra academic/co-academic activities.

Students who represent the college in inter-collegiate tournaments organized by JNTUA and those who represent University or State or Nation shall be given attendance exemption as per the University / Government norms.

9.2. Credit Requirements for Promotion

- i) Eligibility for award of Credits: A student is deemed to have satisfied the minimum academic requirement if he/she scores not less than 35% marks in the end examinations and also minimum 40% of marks in the sum total of the internal evaluation and end examination together in each of the theory and practical courses including Major project etc.

ii) The promotion shall be automatic for all the students except for those detained due to shortage of attendance and there will be no credit requirements and restrictions for a student to progress for the following:

1. Promotion from I to II Semester
2. Promotion from II to III Semester
3. Promotion from every Odd Semester to next immediate Even Semester

Example (I to II, III to IV, V to VI and VII to VIII semester).

However, for promotion to V semester (Regular students only) and VII semester (Regular and Lateral entry students), in addition to attendance requirement mentioned above in Section 9.1, the following credit requirements have to be satisfied:

9.2.1. *For Four Year B.Tech students:*

i. Promotion to V semester:

A student shall be promoted from IV semester to V semester only if he/she secures 40% of credits (up to and including III semester) from the following Examinations, whether the candidate takes the examinations or not:

- a. One Regular and Two subsequent Supplementary Exams of Semester I.
- b. One Regular and One subsequent Supplementary Exams of Semester II.
- c. One Regular Examination of Semester III.

ii. Promotion to VII semester:

A student shall be promoted from VI semester to VII semester only if he/she secures 40% of credits (up to and including V semester) from the following Examinations, whether the candidate takes the examination or not:

- a. One Regular and Four subsequent Supplementary Exams of Semester I.
- b. One Regular and Three subsequent Supplementary Exams of Semester II.
- c. One Regular and Two subsequent Supplementary Exams of Semester III.
- d. One Regular and One subsequent Supplementary Exam of Semester IV.
- e. One Regular Exam of Semester V.

9.2.2. *For Lateral Entry Students:*

Promotion to VII semester:

A student shall be promoted from VI semester to VII semester only if he/she secures 40% of total credits of III semester, IV semester and V semester from the following Examinations, whether the candidate takes the examination or not.

- a. One Regular and Two subsequent Supplementary Exams of Semester III.
- b. One Regular & One subsequent Supplementary Exam of Semester IV.
- c. One Regular Exam of Semester V.

The above promotion criteria is also depicted in the following table:

For Promotion to	Minimum Credits required	
	For Four Year B.Tech Students	For Lateral Entry Students
V Semester	Students should earn 40% of the credits up to and including III semester before they register for IV semester regular exams (24 credits)	- - -
VII Semester	Students should earn 40% of the credits upto and including V semester before they register for VI semester regular exams (42 credits)	Students should earn 40% of the total credits of III, IV and V semesters before they register for VI semester regular exams (26 credits)

If 40% credit value results into a non-integer number, then the integer part of the number shall be used for arriving at the decision. When a student is detained due to lack of credits in any semester, he/she shall be eligible for promotion to the next semester after obtaining required number of credits.

9.3. Eligibility for appearing for End Examinations

All students who have satisfied the attendance requirement in any semester with or without condonation are eligible to appear for the regular end examinations of that semester. They shall register for the end examinations of that semester by paying the prescribed examination fee.

However, they have to clear all the dues to the institution (Tuition, Hostel/Conveyance, etc., Fee) before they collect their hall tickets. It is mandatory for all the eligible students to register for the regular end examination. If a student does not register for any semester and desires to register for subsequent semesters, he will be required to clear the dues along with stipulated fine of all the semesters he/she skipped.

9.4. Supplementary Examinations

In case a student acquires either a fail grade(F) or is absent for an End Examination, the student has to reappear for the end supplementary examination in that course and obtain a non-fail grade for clearing that course.

Apart from the regular end examinations, the college will also schedule and conduct supplementary examinations for all courses for the benefit of students with backlogs. Such students may have to write more than one examination per day.

Advanced Supplementary examination will be conducted for the benefit of the outgoing students.

9.5. Transitory Regulations

For candidates who have been detained for want of attendance/lack of credits, the eligibility for readmission into the respective semester shall be governed by the curriculum and academic regulations in force at the time of re-joining.

10. Grading System

10.1. Award of Grades

After each course is evaluated for 100 marks, the marks obtained by the student in each course will be converted to a corresponding letter grade as given below, depending on the range in which the marks fall.

Range in which the marks in the course fall	Grade	Grade points assigned	Performance
≥ 90	S	10	Superior
80 to 89	A	9	Excellent
70 to 79	B	8	Very Good
60 to 69	C	7	Good
50 to 59	D	6	Fair
40 to 49	E	5	Satisfactory
< 40	F	0	Fail
ABSENT	Ab	0	Absent

10.2. Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA)

The Semester Grade Point Average (SGPA) for each semester and Cumulative Grade Point Average (CGPA) up to any semester are calculated as follows:

A Semester Grade Point Average will be computed as follows

$$SGPA = \frac{\sum_{i=1}^n c_i * GP_i}{\sum_{i=1}^n c_i}$$

here n is the number of courses in that semester, c_i = Credits for the course i , GP_i = the Grade Point obtained for the course i , and the summation is over all the courses in that semester.

A Cumulative Grade Point Average (CGPA) will be computed for every student at the end of each semester. The CGPA would give the cumulative performance of a student from the first semester up to the end of the semester to which it refers and is calculated as follows.

$$CGPA = \frac{\sum_{j=1}^m SGPA_j * TC_j}{\sum_{j=1}^m c_i}$$

where m is the number of semesters under consideration, TC_j the total number of credits for a particular semester and $SGPA_j$ is the Semester Grade Point Average of the corresponding semester. Both SGPA and CGPA will be rounded-off to the second digit after decimal and recorded as such.

While computing the SGPA/CGPA the courses in which the student is awarded zero grade points shall also be included.

10.3. Grade Sheet

A grade sheet will be issued to each student indicating his/her performance in all courses of that semester in the form of grades and also indicating the SGPA and CGPA up to that semester. After successful completion of the total course of study, a Consolidated Grade sheet containing performance of all academic

years will be issued as a final record. Duplicate Grade sheets will also be issued if required after the payment of requisite fee. Partial Grade sheet will also be issued up to any semester to any student on request and by paying the stipulated fee in force.

10.4. Award of Degree

Having taken admission into the program, B.Tech degree shall be conferred on a student who has satisfied the following conditions:

- i. The student must have pursued a regular course of study for not less than four academic years and not more than eight academic years.
- ii. The student joining under lateral entry scheme with diploma qualification must have, after admission into III Semester of the B.Tech program, pursued a regular course of study for not less than three academic years and not more than six academic years.
- iii. Students must register for all the courses and earn the credits specified
- iv. The student shall successfully complete non-credit courses like EAA and Mandatory Courses.
- v. The student must have satisfied the minimum academic requirements in the respective branch of engineering in each semester.

A student shall be declared to have satisfied the minimum academic requirements and has become eligible for the award of degree if he/she fulfills each of the following conditions.

- a. Minimum requirements of credits as stated in Section 9.2
 - b. Minimum requirement of attendance as stipulated in Section 9.1 and
 - c. All other regulations, academic or otherwise stipulated by the college from time to time.
- vi. The student must have obtained a minimum CGPA of 4.0 on a scale of 10, which is calculated considering all the semesters. However, lateral entry students must obtain a CGPA of 4.0 which is calculated considering the performance from third semester to eighth semester.
 - vii. Students who fail to fulfil all the academic requirements for the award of degree within the specified period from the year of their admission shall forfeit their seat in B.Tech and their admission stands cancelled.
 - viii. The student shall have no dues to the institution, library, hostels etc
 - ix. The student shall have no disciplinary action pending against him/her.

The Degree will be conferred and awarded by Jawaharlal Nehru Technological University Anantapur, Ananthapuramu on recommendations by the Academic council of the college based on the eligibility as detailed above.

10.5. Award of Class

After a student has satisfied the minimum requirements prescribed for the completion of the program as stipulated in Section 10.4 and has become eligible for the award of degree he/she shall be placed in one of the following classifications based on the percentage achieved.

Division / Class	Percentage
First Class with Distinction	≥ 70
First Class	≥ 60 and < 70
Second Class	≥ 50 and < 60
Pass Class	≥ 40 and < 50

11. General Regulations:

11.1. General Instructions

- i. The academic regulations shall be read as a whole for the purpose of interpretation.
- ii. Where the words “he”, “him” and “his” occur, they also include “she”, “her” and “hers”, respectively.

11.2. Student Transfers

Student transfers shall be as per the guidelines issued by Jawaharlal Nehru Technological University Anantapur, Ananthapuramu and the Govt. of Andhra Pradesh from time to time.

11.3. With holding of Results

The result of a candidate shall be withheld if:

- i. He/she has not cleared any dues to the Institution/ Hostel /University.
- ii. A case of disciplinary action against him/her is pending disposal.

11.4. Exam Hall Culture

- i. Students are not permitted to use mobile phones in the examination halls.
- ii. Any attempt by any student to influence the examiners, faculty and staff or Controller of Examinations for undue favours in the exams, and bribing them either for marks or attendance will be treated as malpractice case and the student can be debarred from the college.
- iii. When a student absents himself/herself, he/she shall be treated as to have appeared and obtained zero marks in that course(s) and Graded accordingly.
- iv. When a student’s answer book is confiscated for any kind of attempted or suspected malpractice, the decision of the examination committee is final.

11.5. Amendment of Regulations

The college may, from time to time, revise, amend or change the regulations, scheme of examinations and syllabi.

11.6. Ragging

Ragging of any kind is strictly prohibited. A Student who indulges in ragging shall be punished as per the provisions of the Ragging Act.

11.7. Rules of Discipline

- i. Use of mobile phones with camera is strictly prohibited on the campus.
- ii. Students shall behave and conduct themselves in a dignified and courteous manner on the campus/hostels.
- iii. Students shall not bring outsiders to the institution or hostels.
- iv. Students shall not steal, deface, damage or cause any loss to the institution property.
- v. Students shall not collect money either by request or coercion from others within the campus or hostels.
- vi. Students shall not resort to plagiarism of any nature/extent. Use of material, ideas, figures, code or data without appropriate acknowledgement or permission of the original source shall be treated as cases of plagiarism. Submission of material, verbatim or paraphrased, that is authored by another person or published earlier by oneself shall also be considered as cases of plagiarism.
- vii. Use of vehicles by the students inside the campus is prohibited.
- viii. Any conduct which leads to lowering the esteem of the institution is

- prohibited.
- ix. Any student exhibiting prohibited behavior shall be suspended from the institute. The period of suspension and punishment shall be clearly communicated to the student. The student shall lose the attendance for the suspended period.
 - x. Dress Code
 - a. Boys: All the boy students shall wear formal dresses. Wearing T-shirts and other informal dresses on the campus is strictly prohibited.
 - b. Girls: All the girl students shall wear Punjabi Dress with dupatta/ saree.

12. Disciplinary Action for Malpractices/Improper Conduct in Exams

The examinations committee may take the following guidelines into consideration while dealing with the suspected cases of malpractice reported by the invigilators/squad members etc. during end examinations. The punishment may be severe or less depending on the merits of the individual cases.

S. No	Nature of Malpractice/Improper conduct	Punishment
	IF THE CANDIDATE:	
1.	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, cell phones, pager, palm computers or any other form of material concerned with or related to the course of the examination (theory or practical) in which he/she is appearing but has not made use of (material shall include any marks on the body of the student which can be used as an aid in the course of the examination).	<p><u>For Possession of mobile phone:</u> Expulsion from the examination hall and cancellation of the performance in that course only.</p> <p><u>For possession of any material relevant to the exam:</u> Expulsion from the examination hall and cancellation of the performance in 50% of the subjects. (In case of fraction, the integer part of the number). The subjects for cancellation will be selected in cyclic order starting with the subject in which the candidate is found to resort to malpractice.</p>
2.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that course.
3.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that course and all other courses the candidate has appeared including practical examinations and project work of that semester/year examinations.

S. No	Nature of Malpractice/Improper conduct	Punishment
4.	Gives assistance or guidance or receives it from any other student orally or by any other body language methods or communicates through cell phones with any other student or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that course only of all the students involved. In case of an outsider, he will be handed over to the police and a case shall be registered against him.
5.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the course of the examination (theory or practical) in which the student is appearing.	Expulsion from the examination hall and cancellation of the performance in that course and all other courses including practical examinations and project work of that semester/year.
6.	Comes in a drunken condition to the examination hall.	Expulsion from the examination hall and cancellation of the performance in that course and all other courses including practical examinations and project work of that semester/year.
7.	Smuggles in the answer book or takes out or arranges to send out the question paper during the examination or answer book during or after the examination.	Expulsion from the examination hall and cancellation of performance in that course and all the other courses including practical examinations and project work of that semester/year. The student is also debarred for two consecutive semesters from classwork and all examinations. The continuation of the course by the student is subject to the academic regulations in connection with forfeiture of seat.
8.	Refuses to obey the orders of the Chief Superintendent/ Assistant Superintendent/ any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer in-charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by words, either spoken or written or by signs or by visible representation, assaults the officer in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt	<u>In case of students of the college</u> , they shall be expelled from examination halls and cancellation of their performance in that course and all other courses of that semester/year. The students also are debarred and forfeit their seats. <u>In case of outsiders</u> , they will be handed over to the police and a police case shall be registered against them.

S. No	Nature of Malpractice/Improper conduct	Punishment
	the orderly conduct of the examination.	
9	Leaves the exam hall taking away answer script or intentionally tears up the script or any part thereof inside or outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that course and all the other courses including practical examinations and project work of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all end examinations. The continuation of the program by the candidate is subject to the academic regulations in connection with forfeiture of seat.
10.	Possesses any lethal weapon or fire arm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that course and all other courses including practical examinations and project work of that semester/year. The student is also debarred and forfeits the seat.
11.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in S.No.7 to S.No.9.	<p><u>For Student of the college:</u> Expulsion from the examination hall and cancellation of the performance in that course and all other courses including practical examinations and project work of that semester/year. The candidate is also debarred and forfeits the seat.</p> <p><u>In case of outsiders,</u> they will be handed over to police and, a police case shall be registered against them.</p>
12.	Impersonates any other student in connection with the examination.	<p>The student who has impersonated shall be expelled from examination hall. The student is debarred from writing the remaining exams, and rusticated from the college for one academic year during which period the student will not be permitted to write any exam. If the imposter is an outsider, he will be handed over to the police and a case shall be registered against him.</p> <p>The performance of the original student who has been impersonated, shall be cancelled in all the courses of the examination including practicals and project work of that semester /year. The student is rusticated from the college for two consecutive years during which period the student will not be permitted to write any exam. The continuation of the</p>

S. No	Nature of Malpractice/Improper conduct	Punishment
		course by the student is subject to the academic regulations in connection with forfeiture of seat.
13.	If any malpractice is detected which is not covered in the above S.No.1 to S.No.12 items, it shall be reported to the college academic council for further action and award suitable punishment.	
14.	Malpractice cases identified during sessional examinations will be reported to the examination committee to award suitable punishment.	