ENGINEERING CURRICULUM

2026

B.Tech. Regular / Minor / Honors

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA

VIZIANAGARAM

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM

VIZIANAGARAM - 535003, A.P

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B.Tech (Regular-Full time)

(Effective for the students admitted into I year from the Academic Year **2026-27** and onwards)

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B. Tech (Lateral Entry Scheme)

(Effective for the students admitted into II year through Lateral Entry Scheme from the Academic Year **2027 - 28** and onwards)

Academic Regulations (R26) for B.Tech (Regular-Fulltime)

(*Effective for the students admitted into I year from the Academic Year **2026-27** onwards*)

1. **Award of the Degree**

(a) Award of the B.Tech. Degree if he/she fulfils the following:

(i) Pursues a course of study for not less than four academic years and not more than eight academic years. However, for the students availing Gap year facility this period shall be extended by two years at the most and these two years would in addition to the maximum period permitted for graduation (Eight years).

(ii) **Registers for 163 credits and secures all 163 credits.**

(iii) Students may undertake **Employment Enhancement Certificate Courses** carrying an **additional 5 credits** during **Semesters III to VIII** of the B.Tech. programme. These credits shall be earned through the successful completion of approved certificate courses intended to enhance students' employability and professional skills. The courses offered, eligibility, duration, assessment, and certification shall be as prescribed by the University from time to time.

(b) **Award of the B.Tech. Degree with a Minor** if he/she fulfils the following:

(i) Student secures additional 18 credits fulfilling all the requisites of a B.Tech. program i.e., 163 credits.

(ii) Registering for Minors is optional.

(iii) **Student need to pursue extra 18 credits to get minor degree, and need to complete simultaneously with B.Tech. programme**

(c) Award of B.Tech. degree with Honors if he/she fulfils the following:

(i) Student secures additional 18 credits fulfilling all the requisites of a B.Tech. program i.e., 163 credits.

(ii) Registering for Honors is optional.

(iii) **Student need to pursue extra 18 credits to get Honor degree, and need to complete simultaneously with B.Tech. programme**

2. Students, who fail to fulfill all the academic requirements for the award of the degree within eight academic years from the year of their admission, shall forfeit

their seat in B.Tech. course and their admission stands cancelled. This clause shall be read along with clause 1a) i).

3. **Admissions**

Admission to the B.Tech Program shall be made subject to the eligibility, qualifications and specialization prescribed by the A.P. State Government/University from time to time. Admissions shall be made either based on the merit rank obtained by the student in the common entrance examination conducted by the A.P. Government/University or any other order of merit approved by the A.P. Government/University, subject to reservations as prescribed by the Government/University from time to time.

4. **Program related terms**

Credit: A unit by which the course work is measured. It determines the number of hours of instruction required per week. One credit is equivalent to one hour of teaching (Lecture/Tutorial) or two hours of practical work/field work per week.

Credit Definition:

1Hr. Lecture (L)per week	1 Credit
1Hr. Tutorial (T)per week	1 Credit
1Hr.Practical (P)per week	0.5 Credit
2Hrs. Practical (Lab)per week	1 Credit

Academic Year: Two consecutive (one odd + one even) semesters constitute one academic year.

Choice Based Credit System (CBCS): The CBCS provides a choice for students to select from the prescribed courses.

5. Semester/Credits:

i) A semester comprises 16 weeks and 90 working days per semester and an academic year is divided into two semesters.

ii) The summer term is for eight weeks during summer vacation. Internship/ apprenticeship / work-based vocational education and training can be carried out during the summer term, especially by students who wish to exit after two semesters or four semesters of study.

iii) Regular Elective/Skill courses may also be completed well in advance

through MOOCs satisfying prerequisites.

6. Structure of the Undergraduate Programme

All courses offered for the under graduate program (B.Tech.) are broadly classified as follows:

S.No.	Category	Breakup of Credits (Total 163)	AICTE Recommendation (%)
1.	Humanities, Social Sciences & Management Courses (HSMC)	10-14	8 – 9%
2.	Basic Sciences (BSC)	20-25	12 -16%
3.	Engineering Sciences (ESC)	20-25	10 – 18%
4.	Professional Core (PCC)	49-59	30 – 36%
5.	Professional Elective (Emerging area & Interdisciplinary Baskets (PEC)	12-18	19 -23%
6.	Domain Specific Skill Enhancement Courses (SEC)	10	
7.	Open Elective Courses (OEC)	9-12	
8.	Internships &Project work (PR) Project work, seminar and internship in industry or appropriate work place/ academic and research institutions in India/abroad	14-16	8 – 11%
9.	Mandatory Courses (MC)	Non-credit	-

NOTE: Indian Knowledge System course (IKS) is compulsory to be included in course structure **with 2 credits** under Humanities, Social Sciences & Management Courses (HSMC).

7. Course Classification:

All subjects/courses offered for the under graduate programme in Engineering & Technology (B.Tech. degree programmes) are broadly classified as follows:

S.No.	Broad Course Classification	Course Category	Description
1.	Foundation Courses	Foundation courses	Includes Mathematics, Physics and Chemistry; fundamental engineering courses; humanities, social sciences and management courses
2.	Core Courses	Professional Core Courses (PCC)	Includes subjects related to the parent discipline / department /branch of Engineering
3.	Elective Courses	Professional Elective Courses (PEC)	Includes elective subjects related to the parent discipline /department/ branch of Engineering
		Open Elective Courses (OEC)	Elective subjects which include interdisciplinary subjects or subjects in an area outside the parent discipline/ department/ branch of Engineering
		Domain specific Skill Enhancement Courses (SEC)	Interdisciplinary / job-oriented/ domain courses which are relevant to the industry
4.	Project & Internships	Project	B.Tech. Project or Major Project
		Internships	Summer Internships–Community based and Industry Internships; Industry oriented Full Semester Internship
5.	Audit Courses	Mandatory non-credit courses	Covering subjects of developing desired attitude among the learners

Course Codes: Each course will be code which denotes the category to which the course belongs.

S.No.	Course Code	Course Category
1	HSMC	Humanities, Social Sciences & Management Courses
2	BSC	Basic Sciences Course
3	ESC	Engineering Sciences Course
4	PCC	Professional Core Course
5	PEC	Professional Elective Course (Incl. Emerging area & Interdisciplinary Baskets
6	OEC	Open Elective Course
7	SEC	Skill Enhancement Course
8	SII	Summer Industry Internship
9	CSP	Community Service Project
10	MC	Mandatory Courses
11	PW	Project Work
12	FSII	Full Semester Industry Internship

8. Programme Pattern

i. Total duration of the of B.Tech (Regular) Programme is four academic years.

ii. Each academic year of study is divided into two semesters.

iii. There shall be mandatory student induction program for freshers, with a three-week duration before the commencement of first semester. Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, and Familiarization to Dept./ Branch & Innovations etc., are included as per the guidelines issued by AICTE.

iv. Health/wellness/yoga/sports and NSS /NCC /Scouts & Guides / Environmental Sciences / Indian Constitution/ Technical Paper Writing & IPR are made mandatory non-credit courses for all the undergraduate students.

v. Design Thinking for Innovation & Tinkering Labs are made mandatory as credit courses for all the undergraduate students.

vi. Increased flexibility for students through an increase in the elective component of the curriculum, with Professional Elective courses including skill enhancement courses (26 credits) and 04 Open Elective courses.

vii. Professional Elective Courses, include the elective courses relevant to the chosen

specialization/branch. Proper choice of professional elective courses can lead to students specializing in emerging areas within the chosen field of study.

viii. A total of 04 Open Electives courses is to be offered in the curriculum.

ix. While choosing the electives, students shall ensure that they do not opt for the courses with syllabus contents similar to courses already pursued.

x. A pool of interdisciplinary/job-oriented/domain skill courses which are relevant to the industry are integrated into the curriculum of all disciplines. There shall be **05 skill-oriented courses offered during III to VII semesters.** Among the five skill courses, four courses shall focus on the basic and advanced skills related to the domain/interdisciplinary courses and the other shall be a soft skills course.

xi. Students shall undergo mandatory summer internships, for a minimum of eight weeks duration at the end of second and third year of the programme. The internship at the end of second year shall be community oriented and industry internship at the end of third year.

xii. There shall also be mandatory full internship in the final semester of the programme along with the project work.

xiii. Undergraduate degree with Minors / Honors is introduced by the University for the students having good academic record.

xiv. Each college shall take measures to implement Virtual Labs (https://www.vlab.co.in) which provide remote access to labs in various disciplines of Engineering and will help student in learning basic and advanced concept through remote experimentation. Student shall be made to work on virtual lab experiments during the regular labs.

xv. Each college shall assign a faculty advisor/mentor after admission to a group of students from same department to provide guidance in courses registration/career growth/placements/opportunities for higher studies/GATE/other competitive exams etc.

xvi. Preferably 25% of course work for the theory courses in every semester shall be conducted in the blended mode of learning.

9. Evaluation Process

The performance of a student in each semester shall be evaluated subject wise with a maximum of 100 marks for theory and 100 marks for practical subject. Summer Internships shall be evaluated for 50 marks, Full Internship shall be evaluated for 50 marks & Project

work in final semester shall be evaluated for 200 marks, **mandatory courses with no credits shall be evaluated for 40 mid semester marks.**

A student has to secure not less than 40% of marks in the end examination and a minimum of 40% of marks in the sum total of the mid semester and end examination marks taken together for the theory, practical, design, drawing subject or project etc. In case of a mandatory course, he/she should secure 40% of the total marks.

Theory Courses

Assessment Method	Marks
Continuous Internal Assessment	40
Semester End Examination	60
Total	**100**

i. For theory subject, the distribution shall be 40 marks for Internal Evaluation and 60 marks for the End-Examination.

ii. For practical subject, the distribution shall be 40 marks for Internal Evaluation and 60 marks for the End- Examination.

iii. If any course contains two different branch subjects, the syllabus shall be written in two parts with 3 units each (Part-A and Part-B) and external examination question paper shall be set with two parts each for 30 marks.

iv. A course having both theory and practical component shall be treated as an integrated course. The theory and practical component shall be evaluated separately for the purpose of assessment and shall carry the same course / subject code with the suffix 'T' for the theory component and 'P' for the practical component. The students shall be required to secure the prescribed minimum pass marks separately, in both the theory and practical components. A student who fails the secured minimum pass marks in the component shall be declared fail in the integrated course, the irrespective of the marks, secured in the other component. In the event of failure in the integrated course, the student shall be required to reappear for the both the theory and practical components in accordance with the applicable examination regulations. The marks obtained in the both components in previous attempts shall not be retained or carried to the subsequent attempts.

v. **Revaluation Process (Integrated Course):** Revaluation shall be permitted only when the student has failed in the theory component but passed in the practical component. In such a case, the student may apply for revaluation of the theory component only. If the student fails in the practical component, or fails in both components, revaluation shall not be permitted.

a) Continuous Internal Evaluation

i. For theory subjects, during the semester, there shall be two midterm examinations. Each midterm examination shall be evaluated for 40 marks of which 10 marks for objective paper (20 minutes duration), 20 marks for subjective paper (75 minutes duration),5 marks for assignment and 5 marks for Attendance.

ii. A student Who has attendance Less than 75% Shall not be awarded any marks for attendance. However, if such a student is permitted / promoted to next Semester As per the applicable academic regulations, The students receive Zero (0) Marks for attendance in the midterm examination.

Attendance Percentage and Marks Allocation:

Attendance Percentage	Marks
Less than 75%	0 Marks
75% to less than 80%	2 Marks
80% to less than 85%	3 Marks
85% to less than 90%	4 Marks
90% and above	5 Marks

iii. Objective paper shall contain of 20 bits for 20 marks which will be condensed to 10 marks. Subjective paper shall contain three questions student has to answer all the questions.

Note:

- The objective paper shall be prepared in line with the quality of competitive examinations questions.
- **Subjective Paper:** The Subjective Paper shall consist of **three questions**—**Question 1** from Unit–I carrying 8 marks, **Question 2** from Unit–II carrying 8 marks, and **Question 3** covering half of the syllabus of Unit–III carrying 4 marks. The student shall answer all three questions, for a **total of 20 marks**.
- Thus, the total internal assessment marks shall be 40 marks (10 marks from the

Objective Paper + 20 marks from the Subjective Paper+ 5 Marks from assignment+ 5 marks from attendance).

- equal weightage of 10 marks. Any fraction shall be rounded off to the next higher mark.
- The objective paper shall be conducted by the respective institution on the day of subjective paper test.
- Assignments shall be in the form of problems, mini projects, design problems, slip tests, quizzes etc., depending on the course content. It should be continuous assessment throughout the semester and the average marks shall be considered.

iv. If the student is absent for the mid semester examination, no re-exam shall be conducted and mid semester marks for that examination shall be considered as zero.

v. The First Midterm Examination shall cover the first 50% of the syllabus**,** with one either-or type question from each unit**.** The Second Midterm Examination shall cover the remaining 50% of the syllabus**,** with one either-or type question from each unit**.**

vi. Final mid semester marks shall be arrived at by considering the marks secured by the student in both the mid examinations with 70% weightage given to the better mid exam and 30% to the other.

For example:

Marks obtained in First Mid: 35

Marks obtained in Second Mid: 30

Final mid semester Marks: (35x0.7) +(30x0.3) = 33.5

If the student is absent for any one mid-term examination, the final mid semester marks shall be arrived at by considering 70% weightage to the marks secured by the student in the appeared examination and zero to the other. For Example:

Marks obtained in First Mid: Absent

Marks obtained in Second Mid: 25

Final mid semester Marks: (25x0.7) + (0x0.3) =17.5

b) End Examination Evaluation:

The semester end examinations will be conducted for 60 marks which consist of five questions. Each question carries equal weightage. Each of these questions is from one unit and may contain sub-questions. For each question there will be an “either-or” choice, which means that there will be two questions from each unit and the student should answer either of the two

questions.

C) End Examination Pattern for Theory Subjects with Two Components For theory subjects consisting of two distinct components, such as Basic Electrical Engineering and Electronics Engineering, the end semester examination shall be conducted as follows:

The semester end examinations will be conducted for 60 marks which consist of five questions. The first half of the questions will be covered from First component of the Course and second half of the questions will be covered from second component of the course.

Practical Courses

Assessment Method	Marks
Continuous Internal Assessment	40
Semester End Examination	60
Total	**100**

~~a)~~ For practical courses, there shall be a continuous evaluation during the semester for 40 sessional marks and end examination shall be for 60 marks.

~~b)~~ Day-to-day work in the laboratory shall be evaluated for 20 marks by the concerned laboratory teacher based on the record/viva and 20 marks for the internal test.

~~c)~~ The end examination shall be evaluated for 60marks, conducted by the concerned laboratory teacher and a senior expert in the subject from the same department.

- Procedure: 20 marks
- Experimental work & Results: 30 marks
- Viva voce: 10 marks.

In a practical subject consisting of two parts (Eg: Basic Electrical & Electronics Engineering Lab), the end examination shall be conducted for 60 marks as a single laboratory in 3 hours. Mid semester examination shall be evaluated as above for 40 marks in each part and final mid semester marks shall be arrived by considering the average of marks obtained in two parts.

~~b)~~ For the subject having design and / or drawing, such as Engineering Drawing, the distribution of marks shall be 40 for mid semester evaluation and 60 for end examination.

Assessment Method	Marks
Continuous Internal Assessment	40
Semester End Examination	60
Total	**100**

Day-to-day work shall be evaluated for 20 marks by the concerned subject teacher based on the reports/submissions prepared in the class. And there shall be two midterm examinations in a semester for duration of 2 hours each for 20 marks with weightage of 70% to better mid marks and 30% for the other. The subjective paper shall contain 3 either-or type questions of equal weightage of 5 marks. There shall be no objective paper in mid semester examination. The sum of day-to-day evaluation and the mid semester marks will be the final sessional marks for the subject.

The end examination pattern for Engineering Graphics, shall consists of 5 questions, either/or type, of 12 marks each. There shall be no objective type questions in the end examination. However, the end examination pattern for other subjects related to design/drawing, multiple branches, etc is mentioned along with the syllabus.

~~c)~~ There shall be no external examination for mandatory courses with zero credits. However, attendance shall be considered while calculating aggregate attendance and student shall be declared to have passed the mandatory course only when he/she secures 40% or more in the internal examinations. In case, the student fails, a re-examination shall be conducted for failed candidates for 40 marks satisfying the conditions mentioned in item 1 & 2 of the regulations.

~~d)~~ The laboratory records and mid semester test papers shall be preserved for a minimum of 3 years in the respective institutions as per the University norms and shall be produced to the Committees of the University as and when the same are asked for.

10. Skill Enhancement Courses

i) There shall be five skill-oriented courses offered during III to VII semesters.

ii) Out of the five skill enhancement courses, two shall be skill enhancement courses from the same domain. Of the remaining three skill courses, one shall be a soft skill course and the remaining two shall be skill-advanced courses from the same domain /Interdisciplinary/ Job oriented.

iii) The course shall carry 100 marks and shall be evaluated through continuous assessments during the semester for 40 sessional marks and end examination shall be for 60 marks. Day-to-day work in the class / laboratory shall be evaluated for 40 marks by the

concerned teacher based on the regularity/assignments/viva/mid semester test. The end examination similar to practical examination pattern shall be conducted by the concerned teacher and an expert in the subject nominated by the principal.

iv) The Head of the Department shall identify a faculty member as coordinator for the course. A committee consisting of the Head of the Department, coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process. The marks /grades shall be assigned to the students by the above committee based on their performance.

v) The student shall be given an option to choose either the skill courses being offered by the college or to choose a certificate course being offered by SWAYAM Plus/ industries/ Professional bodies or any other accredited bodies. If a student chooses to take a Certificate Course offered by external agencies, the credits shall be awarded to the student up on producing the Course Completion Certificate from the agency. A committee shall be formed at the level of the college to evaluate the grades/ marks given for a course by external agencies and convert to the equivalent marks/grades.

vi) The recommended courses offered by external agencies, conversions and appropriate grades/marks are to be approved by the University at the beginning of the semester. The principal of the respective college shall forward such proposals to the University for approval.

vii) If a student prefers to take a certificate course offered by external agency, the department shall mark attendance of the student for the remaining courses in that semester excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the University.

11. Massive Open Online Courses (MOOCs):

A Student has to pursue and complete one course compulsorily through MOOCs approved by the University. A student can pursue courses other than core through MOOCs and it is mandatory to complete one course successfully through MOOCs for awarding the degree. A student is not permitted to register and pursue **core courses through MOOCs**.

A student shall register for the course (Minimum of either 4 weeks or 8 weeks or 12 weeks) offered through MOOCs with the approval of BoS Chairperson. The Head of the Department shall appoint one mentor to monitor the student's progression. The student needs to earn a certificate by passing the exam. The student shall be awarded the credits

assigned in the curriculum only by submission of the certificate. Examination fee, if any, will be borne by the student.

MOOCs Credit Framework:

Activity	Credit Equivalence
4 Weeks	1 Credit
8 Weeks	2 Credits
12 Weeks	3 Credits

Students who have qualified in the proctored examinations conducted through MOOCs platform can apply for credit transfer as specified and are exempted from appearing internal as well as external examination (for the specified equivalent credit course only) conducted by the university.

Necessary amendments in rules and regulations regarding adoption of MOOC courses would be proposed from time to time.

Students are permitted to register for MOOC courses up to one year or one semester in advance and complete them accordingly. However, the student must submit the course completion certificate during the examinations of the semester for which he/she is claiming the corresponding semester subject. (i.e Elective or Skill), as completed through the MOOCs course. The course completion certificate shall be submitted within the prescribed time for considering of the MOOCs course for that semester.

12. Credit Transfer Policy

Adoption of MOOCs is mandatory, to enable Blended model of teaching-learning as also envisaged in the NEP 2020. As per University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM) Regulation, 2016, the University shall allow up to a maximum of **30% of the Elective or Skill courses** being offered in a particular programme i.e., maximum of **12 credits** through MOOCs platform.

i) The University shall offer credit mobility for MOOCs and give the equivalent credit weightage to the students for the credits earned through online learning courses.

ii) Student registration for the MOOCs shall be only through the respective department of the institution; it is mandatory for the student to share necessary information with the department.

iii) Credit transfer policy will be applicable to the Professional, Open Elective and Skill Enhancement Courses only.

iv) The concerned BoS Chairperson shall identify the courses permitted for credit transfer.

v) The University/institution shall notify at the beginning of semester the list of the online learning courses eligible for credit transfer.

vi) The institution shall designate a faculty member as a Mentor for each course to guide the students from registration till completion of the credit course.

vii) The university shall ensure no overlap of MOOC exams with that of the university examination schedule. In case of delay in results, the university will re-issue the marks sheet for such students.

viii) Student pursuing courses under MOOCs shall acquire the required credits only after successful completion of the course and submitting a certificate issued by the competent authority along with the percentage of marks and grades.

ix) The institution shall submit the following to the examination section of the university:

a) **List of students registering for MOOCs courses:** once the semester in which the MOOCs course is proposed to be considered commences the institution shall submit the list of students registered for MOOCs course clearly indicating the semester in which the MOOC course will be claimed. The details of the MOOC course and whether the course is being undertaken as an elective course or skilled enhancement course.

b) **Failure in MOOCs course:** if a student fails in MOOCs course and the same or an equivalent course is not available in the current curriculum, the University/ BOS shall identify and notify a list of approved alternative MOOCs courses. That the student may complete as a supplementary course. The student shall complete one of the courses from the approved list and submit the course completion certificate of the consideration of the failed MOOC course.

x) The universities shall resolve any issues that may arise in the implementation of this policy from time to time and shall review its credit transfer policy in the light of periodic changes brought by UGC, SWAYAM, NPTEL and state government.

Note: Students shall be permitted to register for MOOCs offered through online platforms approved by the University from time to time.

13. Academic Bank of Credits (ABC)

The University has implemented Academic Bank of Credits (ABC) to promote flexibility in curriculum as per NEP 2020 to

i. Provide option of mobility for learners across the universities of their choice.

ii. Provide option to gain the credits through MOOCs from approved digital platforms.
iii. Facilitate award of certificate/diploma/degree in line with the accumulated credits in ABC
iv. Execute Multiple Entry and Exit system with credit count, credit transfer and credit acceptance from students' account.
v. Execute Multiple Entry and Exit system with credit count, credit transfer and credit acceptance from students' account.

14. Mandatory Internships

Summer Internships: Two summer internships either onsite or virtual each with a minimum of 08 weeks duration, done at the end of second and third years, respectively are mandatory. It shall be completed in collaboration with local industries, Govt. Organizations, construction agencies, Power projects, software MNCs or any industries in the areas of concerned specialization of the Undergraduate program. One of the two summer internships at the end of second year (Community Service Project) shall be society oriented and shall be completed in collaboration with government organizations/NGOs & others. The other internship at the end of third year is Industry Internship and shall be completed in collaboration with Industries. The student shall register for the internship as per course structure after commencement of academic year. The guidelines issued by the APSCHE / University shall be followed for carrying out and evaluation of Community Service Project and Industry Internship.

Evaluation of the summer internships shall be through the departmental committee. A student will be required to submit a summer internship report to the concerned department and appear for an oral presentation before the departmental committee comprising of Head of the Department, supervisor of the internship and a senior faculty member of the department. A certificate of successful completion from industry shall be included in the report. The report and the oral presentation shall carry 50% weightage each. It shall be evaluated for 50 external marks. There shall be no internal marks for Summer Internship. A student shall secure minimum 40% of marks for successful completion. In case, if a student fails, he/she shall reappear as and when semester supplementary examinations are conducted by the University.

Full Semester Internship and Project work: In the final semester, the student should mandatorily register and undergo internship (onsite/virtual) and in parallel he/she should

work on a project with well-defined objectives. At the end of the semester the candidate shall submit an internship completion certificate along with internship report and a project report separately. A student shall also be permitted to submit project report on the work carried out during the internship also. A certificate of successful completion from industry shall be included in the report. The report and the oral presentation shall carry 50% weightage each. It shall be evaluated for 50 external marks. There shall be no internal marks for Internship. A student shall secure minimum 40% of marks for successful completion. In case, if a student fails, he/she shall reappear as and when semester supplementary examinations are conducted by the University.

The project report shall be evaluated with an external examiner. The total marks for project work 200 marks and distribution shall be 60 marks for internal and 140 marks for external evaluation. The supervisor assesses the student for 30 marks (Report: 15 marks, Seminar: 15 marks). At the end of the semester, all projects shall be showcased at the department for the benefit of all students and staff and the same is to be evaluated by the departmental Project Review Committee consisting of supervisor, a senior faculty and HOD for 30 marks. The external evaluation of Project Work is a Viva-Voce Examination conducted in the presence of internal examiner and external examiner appointed by the University and is evaluated for 140 marks.

The college shall facilitate and monitor the student internship programs. Completion of internships is mandatory, if any student fails to complete internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

15. Guidelines for offering a Minor

To promote interdisciplinary knowledge among the students, the students admitted into B.Tech. in a major stream/branch are eligible to obtain degree in Minor (with extra 18 credit) in another stream. For detailed guidelines, please see the Annexure.

16. Guidelines for offering Honors

The objective of introducing B.Tech. (Hons.) is to facilitate the students to choose additionally the specialized courses of their choice and build their competence in a specialized area in the UG level. The programme is a best choice for academically excellent students having good academic record and interest towards higher studies and research. A student shall earn additional *18 credits for award of B.Tech.(Honors) degree* from same

branch/department/discipline registered for major degree. This is in addition to the credits essential for obtaining the Undergraduate degree in Major Discipline (i.e., 163 credits). For detailed guidelines, please see the Annexure.

Honors Programme

1. The Honors Programme is introduced in the curriculum of all B.Tech. programmes offering a Major Degree and is applicable to all B.Tech. (Regular and Lateral Entry) students admitted under Engineering and Technology programmes.
2. A student shall earn an additional **18 credits** for the award of **B.Tech. (Honors)** in the same Branch/Department/Discipline as the Major Degree. These credits are over and above the **163 credits** prescribed for the award of the B.Tech. Degree.
3. Eligible students may register for the Honors Programme after the declaration of the III Semester results (IV Semester). They may register for a maximum of **two Honors courses per semester** from the V Semester onwards.
4. The principal of the concerned institution shall arrange separate class work and timetable for the courses offered under the Honors Programme.
5. Courses completed towards the Major Degree shall not be counted towards the Honors Programme. Similarly, courses having substantially similar content to those of the Major Degree shall not be considered for Honors.
6. **Students may complete the Honors courses** a combination of regular classroom instructions and approved online platforms such as SWAYAM and etc.

Students shall earn a minimum of 6 credits and a maximum of 9 credits, through approved online platforms such as SWAYAM, in accordance with the university credit mobility regulations. (minimum **12 weeks** for a **3-credit** course and **8 weeks** for a **2-credit** course).

- The remaining Honor credits shall be completed through regular classroom instructions in the institution.

7. The attendance requirements for the Honors courses shall be maintained separately from those of the Major Degree courses.
8. A student shall maintain a minimum attendance of **75%** in the registered Honors courses to become eligible for the Semester-End Examinations.
9. A student shall successfully complete all the prescribed Honors courses for the award of the Honors Degree. No classification such as First Class, First Class with Distinction, or Second Class shall be awarded for the Honors Degree.
10. If a student discontinues or is terminated from the Honors Programme, the additional credits earned shall not be converted into Core Electives or Open Electives of the Major

Degree. However, a separate Grade Sheet indicating the completed Honors courses shall be issued.

11. The Honors qualification shall be indicated on the Degree Certificate as:

Eligibility for Enrolment

1. Students are eligible to enrol only for the Honors Programme offered by the same Department/Discipline in which they are pursuing their Major Degree.

2. Admission to the Honors Programme shall be based on the CGPA obtained in the Major Degree Programme:

- For Regular Entry students, the CGPA up to the III Semester shall be considered.
- For Lateral Entry students, the CGPA of the III Semester shall be considered.

3. A student shall be eligible to register for the Honors Programme only if he/she:

- Secures a minimum **CGPA of 7.5**; and
- Has **no backlog subjects** at the time of registration.

4. And shall not have any backlog subjects at any stage during the entire Honors Programme in both the major degree and honors courses.

5. If a student is detained due to shortage of attendance either in the Major Degree or in the Honors Programme, his/her registration for the Honors Programme shall stand cancelled.

6. Transfer of credits between the Major Degree and the Honors Programme shall not be permitted.

7. The Honors Programme shall be completed simultaneously with the Major Degree Programme.

Registration Procedure

1. Eligible and interested students shall submit their applications through the Head of the Department (HoD) of the parent department. The registration process shall be completed at least **one week before the commencement of every semester**.

2. The selected students shall submit their willingness to the principal through the parent department. The parent department shall maintain the records of all students admitted to the Honors Programme.

3. The academic progress of students admitted to the Honors Programme shall be monitored continuously by a Faculty Advisor/Mentor nominated by the parent department.

4. **No registration fee** shall be collected for Honors courses offered in the offline mode by the respective institution.

17. Attendance Requirements:

i) A student shall be eligible to appear for the University external examinations if he/she acquires a minimum of 50% attendance in each subject and 75% of attendance in aggregate of all the subjects. Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted by the College Academic Committee.

ii) Shortage of Attendance below 65% in aggregate shall in NO CASE be condoned.

iii) A stipulated fee shall be payable towards condonation of shortage of attendance to the University.

iv) Students whose shortage of attendance is not condoned in any semester are not eligible to take their end examination of that class and their registration shall stand cancelled.

v) A student will not be promoted to the next semester unless he satisfies the attendance requirements of the present semester. They may seek readmission for that semester from the date of commencement of class work.

vi) If any candidate fulfils the attendance requirement in the present semester, he shall not be eligible for readmission into the same class.

vii) If the learning is carried out in blended mode (both offline & online), then the total attendance of the student shall be calculated considering the offline and online attendance of the student.

viii) For induction programme attendance shall be maintained as per AICTE norms.

18. Promotion Rules:

The following academic requirements must be satisfied in addition to the attendance requirements mentioned in section 16.

i) A student shall be promoted from first year to second year if he/she fulfils the minimum attendance requirement as per university norms.

ii) A student will be promoted from II to III year if he/she fulfils the academic requirement of securing 40% of the credits (any ***decimal*** fraction should be ***rounded off*** to ***lower*** digit) up to in the subjects that have been studied up to III semester.

iii) A student shall be promoted from III year to IV year if he/she fulfils the academic requirements of securing 40% of the credits (any ***decimal*** fraction should be ***rounded off*** to ***lower*** digit) in the subjects that have been studied up to V semester.

And in case a student is detained for want of credits for a particular academic year by ii) & iii) above, the student may make up the credits through supplementary examinations and only after securing the required credits he/she shall be permitted to join in the V semester or VII semester respectively as the case may be.

iv) When a student is detained due to lack of credits/shortage of attendance he/she may be re-admitted when the semester is offered after fulfilment of academic regulations. In such case, he/she shall be in the academic regulations into which he/she is readmitted.

19. Grading:

As a measure of the student's performance, a 10-point Absolute Grading System using the following Letter Grades and corresponding percentage of marks shall be followed:

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

Structure of Grading of Academic Performance

Marks Range	Grade	Grade Points
90% and above	S (Superior)	10
80% to less than 90%	A (Excellent)	9
70% to less than 80%	B (Very Good)	8
60% to less than 70%	C (Good)	7
50% to less than 60%	D (Average)	6
40% to less than 50%	E (Pass)	5
Less than 40%	U (Unsatisfactory)	0
Absent	Ab (Absent)	0

i) A student obtaining Grade 'U' or Grade 'Ab' in a subject shall be considered Unsatisfactory and will be required to reappear for that subject when it is offered then Ext supplementary examination.

ii) For non-credit audit courses/mandatory courses, "Satisfactory" or "Unsatisfactory" shall be

indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA/Percentage. Computation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

The Semester Grade Point Average (SGPA) is the ratio of sum of the product of the number of credits with the grade points scored by a student in all the courses taken by a student and the sum of the number of credits of all the courses undergone by a student, i.e.,

$$SGPA = \Sigma(C_i \times G_i)/\Sigma C_i$$

where C_i is the number of credits of the i^{th} subject and G_i is the grade points scored by the student in the i^{th} course.

The Cumulative Grade Point Average (CGPA) will be computed in the same manner considering all the courses undergone by a student overall the semesters of a program, i.e.,

$$CGPA = \Sigma(C_i \times S_i)/\Sigma C_i$$

where "S_i" is the SGPA of the i^{th} semester and C_i is the total number of credits upto that semester.

Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts. While computing the SGPA the subjects in which the student is awarded Zero grade points will also be included.

Grade Point: It is a numerical weight allotted to each letter grade on a 10-point scale. Letter **Grade**: It is an index of the performance of students in a said course. Grades are denoted by the letters S, A, B, C, D and U.

Award of Class:

After a student has satisfied the requirements prescribed for the completion of the program and is eligible for the award of B. Tech. Degree, he/she shall be placed in one of the following four classes:

Class Awarded	CGPA Secured
First Class with Distinction (without backlog history)	≥ 7.5
First Class	≥ 6.5
Second Class	≥ 5.5 < 6.5
Pass Class	≥ 5.0 < 5.5

CGPA to Percentage Conversion Formula – (CGPA – 0.5) x 10

20. With–holding of Results

If the candidate has any dues not paid to the university or if any case of indiscipline or malpractice is pending against him/her, the result of the candidate shall be withheld in such cases.

21. Multiple Entry / Exit Option

(a) Exit Policy:

The students can choose to exit the four-year programme at the end of first/second/third year.

i) **UG Certificate in (Field of study/discipline)** - Programme duration: First year (first two semesters) of the undergraduate programme, 40 credits followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.

ii) **UG Diploma (in Field of study/discipline)** - Programme duration: First two years (first four semesters) of the undergraduate programme, 80 credits followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.

iii) **For lateral entry students:** Programme duration: Second year (III & IV semesters) of the undergraduate programme, 40 credits followed by an additional exit 10-credit bridge course(s) lasting two months, including at least 6-credit job-specific internship/ apprenticeship that would help the candidates acquire job-ready competencies required to enter the workforce.

iv) **Bachelor of Science (in Field of study/discipline)** i.e., **B.Sc. Engineering in (Field of study/discipline)**- Programme duration: First three years (first six semesters) of the undergraduate programme, 120 credits.

(b) Entry Policy:

Modalities on multiple entry by the student into the B.Tech. programme will be provided in due course of time.

Note: The Universities shall resolve any issues that may arise in the implementation of Multiple Entry and Exit policies from time to time and shall review the policies in the light of periodic changes brought by UGC, AICTE and State government.

22. Gap Year Concept:

Gap year concept for Student Entrepreneur in Residence is introduced and outstanding students who wish to pursue entrepreneurship / become entrepreneur are allowed to take a break of one year at any time after II year to pursue full-time entrepreneurship programme/to establish startups. This period may be extended to two years at the most and these two years would not be counted for the time for the maximum time for graduation. The principal of the

respective college shall forward such proposals submitted by the students to the University. An evaluation committee constituted by the University shall evaluate the proposal submitted by the student and the committee shall decide whether to permit the student(s) to avail the Gap Year or not

23. Transitory Regulations

Discontinued, detained, or failed candidates are eligible for readmission as and when the semester is offered after fulfilment of academic regulations. Candidates who have been detained for want of attendance or not fulfilled academic requirements or who have failed after having undergone the course in earlier regulations or have discontinued and wish to continue the course are eligible for admission into the unfinished semester from the date of commencement of class work with the same or equivalent subjects as and when subjects are offered, subject to Section 2 and they will follow the academic regulations into which they are readmitted.

Candidates who are permitted to avail Gap Year shall be eligible for re-joining into the succeeding year of their B. Tech from the date of commencement of class work, subject to Section **2** and they will follow the academic regulations into which they are readmitted.

24. Minimum Instruction period for a Semester:

The minimum instruction period including exams for each semester shall be 16 weeks and 90 working days per semester.

25. Medium of Instruction:

The medium of instruction of the entire B. Tech undergraduate programme in Engineering &Technology (including examinations and project reports) will be in English only.

26. Student Transfers:

Student transfers shall be as per the guidelines issued by the Government of Andhra Pradesh and the Universities from time to time.

27. General Instructions:

i. The academic regulations should be read as a whole for purpose of any interpretation.
ii. Malpractices rules-nature and punishments are appended.
iii. Where the words “he”, “him”, “his”, occur in the regulations, they also include “she”, “her”, “hers”, respectively.
iv. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Vice-Chancellor is final.

v. The Universities may change or amend the academic regulations or syllabi at any time and the changes or amendments shall be made applicable to all the students on rolls with effect from the dates notified by the Universities.

vi. In the case of any doubt or ambiguity in the interpretation of the guidelines given, the decision of the Vice-Chancellor / Head of the institution is final.

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ACADEMIC REGULATIONS (R26)

FOR B.TECH. (LATERAL ENTRY SCHEME)

*(Effective for the students admitted into II year through Lateral Entry Scheme from the Academic Year **2027-28** and onwards)*

1. **Award of the Degree**

(a) Award of the B.Tech. Degree if he/she fulfils the following:

(i) Pursues a course of study for not less than three academic years and not more than six academic years. However, for the students availing Gap year facility this period shall be extended by two years at the most and these two years would in addition to the maximum period permitted for graduation (Six years).

(ii) Registers for 123 credits and secures all 123 credits.

(b) **Award of the B.Tech. Degree with a Minor** if he/she fulfils the following:

(i) Student secures additional 18 credits fulfilling all the requisites of a B.Tech. program i.e., 163 credits.

(ii) Registering for Minors is optional.

(iii) **Student need to pursue extra 18 credits to get minor degree, and need to complete simultaneously with B.Tech. programme**

(c) Award of B.Tech. degree with Honors if he/she fulfils the following:

(i) Student secures additional 18 credits fulfilling all the requisites of a B.Tech. program i.e., 163 credits.

(ii) Registering for Honors is optional.

(iii) **Student need to pursue extra 18 credits to get Honor degree, and need to complete simultaneously with B.Tech. programme**

2. Students, who fail to fulfil the requirement for the award of the degree within six consecutive academic years from the year of admission, shall forfeit their seat.

3. **Minimum Academic Requirements**

The following academic requirements have to be satisfied in addition to the requirements mentioned in item no.**2**

i. A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory, practical, design, drawing subject or project if he secures

not less than 40% of marks in the end examination and a minimum of 40% of marks in the sum total of the mid semester evaluation and end examination taken together.

ii. A student shall be promoted from III year to IV year if he/she fulfils the academic requirements of securing 40% of the credits (any decimal fraction should be rounded off to lower digit) in the subjects that have been studied up to V semester.

And in case if student is already detained for want of credits for particular academic year, the student may make up the credits through supplementary exams of the above exams before the commencement of IV year I semester class work of next year.

4. Course Pattern

i) The entire course of study is three academic years on semester pattern.

ii) A student eligible to appear for the end examination in a subject but absent at it or has failed in the end examination may appear for that subject at the next supplementary examination offered.

iii) When a student is detained due to lack of credits/shortage of attendance the student may be re-admitted when the semester is offered after fulfilment of academic regulations, the student shall be in the academic regulations into which he/she is readmitted.

5. All other regulations as applicable for B. Tech. Four-year degree course (Regular) will hold good for B. Tech. (Lateral Entry Scheme).

Guidelines B. Tech Minors in Engineering
(Applicable from the Academic Year 2026-27 (R26))

Objectives

The objectives of initiating the minor certification are:

(a) To diversify the knowledge of the undergraduates.

(b) To make the undergraduates more employable.

(c) To have more educational and professional skills after the completion of his undergraduate courses.

(d) To give a scope to specialize students in other streams of engineering in addition to the ones they are currently pursuing.

I. Applicability and Enrolment

(a) The B. Tech students (both Regular and Lateral Entry) pursuing Engineering degree programme can register for minor at their choice in any other department offering minor from III semester onwards.

(b) Students registering for minor shall select the subjects from other branches. For example, if a student pursuing major degree in Electrical & Electronics Engineering shall select the subjects specified for minor in Civil Engineering and he/she will get degree – *B.Tech (Electrical & Electronics Engineering) with minor of Civil Engineering*.

(c) Student pursuing major degree in any engineering branch is eligible to register for minor in any other engineering branch. However, students pursuing major degree in a particular Engineering are not allowed to register for minor in the same engineering branch/Allied Branches.

(d) Separate CGPA shall be shown on semester and final transcripts of regular B. Tech and minor.

(e) Students shall be permitted to select a maximum of two subjects per semester from the list of subjects specified for minor.

(f) Minor shall not be awarded at any circumstances without completing the regular major B.Tech programme in which a student got admitted.

(g) If a student is detained due to lack of attendance, he/she shall not be permitted to register for minor.

(h) The subjects completed under minor programme shall not be considered as equivalent subjects in case the student fails to complete the major degree programme.

(i) Students who completed their degree shall not be permitted to register for minor

Eligibility for Enrolment

1. Admission to the Minors Programme shall be based on the CGPA obtained in the Major Degree Programme:
    a. For Regular Entry students, the CGPA up to the III Semester shall be considered.
    b. For Lateral Entry students, the CGPA of the III Semester shall be considered.
    c. A student shall be eligible to register for the Minors Programme only if he/she: Secures a minimum **CGPA of 7.5**; and
    d. Has **no backlog subjects** at the time of registration.
2. And shall not have any backlog subjects at any stage during the entire Minors Programme in both the major degree and minors courses.
3. If a student is detained due to shortage of attendance either in the Major Degree or in the Minors Programme, his/her registration for the Minors Programme shall stand cancelled.
4. Transfer of credits between the Major Degree and the Minors Programme shall not be permitted.
5. The Minors Programme shall be completed simultaneously with the Major Degree Programme.

II. Structure of Minor in B. Tech

(a) The student shall earn additional 18 Credits for award of minor from other branch / department / discipline registered for major degree.

(b) Students can complete minor courses as a combination of regular classroom instructions and approved online platforms like NPTEL/SWAYAM / SWAYAM Plus etc.

(c) The overall attendance in each semester of regular B.Tech courses and minor courses shall be computed separately

(d) A student shall maintain an overall attendance of 75% in all registered courses of minor to be eligible for attending semester end examinations. However, condonation for shortage of attendance between 65-75% may be given as per university norms. On the recommendations of College Academic Council, the student concerned will be permitted to take the semester end examinations, on payment of prescribed condonation fee.

(e) Student having less than 65% attendance in minor courses shall not be permitted for end semester examinations.

(f) A student detained due to lack of attendance in regular B. Tech programme/ Minor Course shall not be permitted to continue minor programme.

(g) The teaching, examinations (internal and external) and evaluation procedure of minor

courses offered in offline is similar to regular B. Tech courses.

(h) The students may choose theory or practical courses to fulfil the minimum credit requirement.

(i) The students may be allowed to take maximum two subjects per semester pertaining to their minor.

(j) The students are permitted to opt for only a single minor course in his/her entire tenure of B.Tech (Engineering)

(k) The students registered for B. Tech (Hons) shall not be permitted to register for minor

(l) The student is not permitted to take the electives courses from the parent department to fulfil the minimum credit requirement.

III. Credits requirement

(a) A Student will be eligible to get minor along with major degree engineering, if he/she completes an additional 18 credits. These may be acquired in offline and online like NPTEL/SWAYAM/ SWAYAM PLUS, etc.

(b) Additional 18 Credits shall be fulfilled by complying successful completion of Six Theory courses of 03 credits each (or) Five Theory courses of 03 credits each along with 2 Laboratory Courses of each 1.5 Credits.

(c) Additional credits shall also be acquired through NPTEL/SWAYAM/ SWAYAM PLUS, etc Courses, which shall be domain specific, with a minimum duration of 8/12 weeks as recommended by the Board of studies.

(d) The colleges offering minor courses shall be ready to teach the courses in offline at their college in the concerned departments. Curriculum and the syllabus of the courses shall be approved by the Board of Studies

(e) The online NPTEL/SWAYAM/SWAYAM Plus subjects selected by a student shall be approved by concerned BOS.

Note: The online courses selected by a student through NPTEL/SWAYAM/SWAYAM Plus shall be subject to approval by the concerned Board of Studies (BoS).

(f) The teaching and evaluation procedure of minor courses offering in offline mode shall be similar to that of regular B. Tech courses.

(g) Students shall produce a certificate issued by the NPTEL/SWAYAM/SWAYAM Plus conducting agency as a proof of credit attainment.

(h) The assessment and certification of the NPTEL shall be as per the prescribed norms of the NPTEL.

(i) After successful completion of all major and minor courses with specified CGPA the University will award both major and minors

(j) If a student fails to complete a course offered in online/Off line, he/she will not be permitted to continue the minor.

IV. Procedure to Applying for the Minor:

(a) The department offering the minor will announce specialization and courses before the start of the session.

(b) The interested students shall apply through the HOD of his/her parent department.

(c) The concerned department will announce the list of the selected students for the minor.

(d) The whole process should be completed within one week before the start of every session.

(e) Selected students shall be permitted to register the courses for minor.

VI. Registering for minor courses

(a) Each department offering the minor will submit the final list of selected students to the principal.

(b) The selected students shall submit a joining letter to the principal through the concerned HOD offering the minor. The student shall inform same to the HOD of his/her parent

department.

(c) Both parent department and department offering minor shall maintain the record of student pursing the minor.

(d) With the approval of Principal and suggestion of advisor, students can choose courses from the approved list and shall register the courses within a week as per the conditions laid down in the structure for the minor.

(e) Each department shall communicate the minor courses registered by the students to the time table drafting committee and accordingly time table will be drafting. Time table drafting committee shall see that no clash in time tables.

(f) If the student wishes to withdraw/change the registration of subject/course, he/she shall inform the same to advisor, subject teacher, HODs of minor department and parent department and Principal within two weeks after registration of the course.

VII. Procedure for Monitoring the Progress of the Scheme

(a) The students enrolled in the minor courses will be monitored continuously at par with the prevailing practices and examination standards. An advisor/mentor from parent department shall be assigned to a group of students to monitor the progress.

VIII. Allocation of seats for minor

(a) The university/institute/colleges will notify the number of the seats for minor in the concerned department well in advance before the start of the semester

(b) Total number of seats offered for a minor programme shall be a maximum of 60 seats of major degree programme.

(c) The list of the elective for minor will be offered from the list of running majors in the concerned subjects.

(d) There is no fee for registration of subjects for minor degree programme offered in offline at the respective colleges.

(e) Examinations

i. The examination for the minor courses offered in offline shall be conducted along with regular B. Tech programme.

ii. The examinations (internal and external) and evaluation procedure of minor courses offered in offline is similar to regular B. Tech courses.

iii. A separate transcript shall be issued for the minor subjects passed in each semester

iv. There is no supplementary examination for the failed subjects in a minor programme.

v. Examination Fees: Examination Fees will be as per the JNTUGV norms.

Guidelines for B. Tech Honors - B. Tech (Hons)
(Applicable from the Academic Year 2026-2027 (R26))

INTRODUCTION

The goal of introducing B.Tech (Hons) is to facilitate the students to choose additionally the specialized courses of their choice and build their competence in a specialized area in the UG level. The programme is a best choice for academically excellent students having good academic record and interest towards higher studies and research. All the students pursuing regular B.Tech with prerequisite CGPA are eligible to the register Honors degree course. A student has to acquire 18 more credits, in addition to 163 credits required, for the award of the B.Tech Honors degree. The additional courses shall be advanced subjects in the concerned department/discipline. The department concerned will determine required courses for award of Honor degree. The subjects in the Honor degree would be a combination of core (theory and lab) and some electives.

OBJECTIVES:

The objectives of initiating the B. Tech (Honors) degree certification are:

- To encourage the undergraduates towards higher studies and research
- To prepare the students to specialize in core Engineering streams
- To attain the high-level competence in the specialized area of Under Graduate programme
- To learn the best educational and professional skills in the specialized area after the completion of his undergraduate courses.
- To provide the opportunity to learn the post graduate level courses in the specified undergraduate programme

Applicability and Enrolment

- **To all B. Tech (Regular and Lateral Entry) students admitted in Engineering & Technology with CGPA of 7.5 up to III Semester, without any backlogs and supplementary appearances.**
- **It may be noted that both regular degree and Honors degree are to be completed in 4 Years for Regular students and 3 Years for lateral entry admitted students.**
- The Honors degree will be offered at all JNTUGV affiliated colleges (Autonomous and Non-Autonomous).
- The department offering Honors shall have at least one M. Tech in concerned stream, for B.Tech (Honors) registration.

- The allotment of seat into Honors degree is based on the percentage of marks obtained in the major degree programme. Percentage of marks shall be taken up to III semester in case of regular entry students and only III semester in case of lateral entry students
- For applicability of Honors degree, both regular B Tech and Honors degree courses shall be successfully completed with specified SGPA/GCPA.
- Transfer of credits from a particular minor to regular B. Tech or another major degree and vice-versa shall not be permitted
- Entry level
- The B. Tech students (both Regular and Lateral Entry) pursuing a major degree programme can register for Honors degree at their choice in any same department offering major degree from III semester onwards
- Students registering for Honors degree shall select the subjects from same branches/department based on the recommendations of BOS committee. For example, if a student pursuing major degree in Electrical & Electronics Engineering, shall the selects subjects in Electrical & Electronics Engineering only and he/she will get major and Honors degree in Electrical & Electronics Engineering
- Only those students, who have a CGPA of 7.5 or above, without any backlog, will be permitted to register for a Honors degree
- Separate SGPA/CGPA shall be shown on semester and final transcripts of regular B. Tech and minor.
- Students shall not be permitted to register for Honors degree after completion of VI semester.
- Students shall be permitted to select a maximum of two subjects per semester from the list of subjects specified for Honors degree.
- The students shall complete Honors degree without supplementary appearance within stipulated period as notified by JNTUGV for the completion of regular major B. Tech programme.
- Honors degree shall not be awarded at any circumstances without completing the regular major B. Tech programme in which a student got admitted.
- If a student is detained due to lack of attendance, he/she shall not be permitted to register the courses for Honors degree
- If a student failed in any registered course of the Honors, he/she shall not be eligible to continue the B. Tech Honors. However, the additional credits and grades thus far earned by the student shall be included in the grade card but shall not be considered to calculate the

CGPA.

- The subjects completed under Honors degree programme shall not be considered as equivalent subjects in case the student fails to complete the major degree programme
- Students completed their degree shall not be permitted to register for Honors degree

I. Structure of Honors in B. Tech

(a) The student shall earn additional 18 credits for award of Honors degree from same branch/department/discipline registered for major degree.

(b) Students can complete Honors degree courses either in the college or online from platforms like NPTEL/SWAYAM etc.

(c) Additional credits shall also be acquired through NPTEL, which shall be domain specific, with a minimum duration of 8/12weeks as recommended by the Board of studies.

(d) The overall attendance in each semester of regular B. Tech courses and Honors degree courses shall be computed separately

(e) A student shall maintain an overall attendance of 75% in all registered courses of Honors to be eligible for attending semester end examinations. However, condonation for shortage of attendance between 65-75% may be given as per university norms. On the recommendations of College Academic Council, the student concerned will be permitted to take the semester end examinations, on payment of prescribed condonation fee.

(f) Student having less than 65% attendance in Honors courses shall not be permitted for semester end examinations.

(g) A student detained due to lack of attendance in regular B. Tech programme shall not be permitted to continue Honors programme

(h) The teaching, examinations (internal and external) and evaluation procedure of Honors degree courses offered in offline is similar to regular B. Tech courses

(i) Students may choose theory or practical courses to fulfil the minimum credit requirement.

(j) Students shall be allowed to take maximum two subjects per semester pertaining to their Honors degree

(k) The students registered for minor shall not be permitted to register for B. Tech (Honors)

II. Credits requirement

(a) A Student will be eligible to get B. Tech (Honors), if he/she completes an additional 18 credits. These may be acquired in offline and online like NPTEL/SWAYAM

(b) The colleges offering Honors degree courses shall be ready to teach the courses in offline at their college in the concerned departments. Curriculum and the syllabus of the courses shall be approved by the Board of Studies

(c) The online NPTEL/SWAYAM subjects selected by a student shall be approved by concerned BOS.

(d) The assessment and certification of the NPTEL shall be as per the prescribed norms of the NPTEL.

(e) Students shall produce a certificate issued by the NPTEL/SWAYAM conducting agency as a proof of credit attainment.

(f) The teaching and evaluation procedure of Honors courses offering in offline mode shall be similar to that of regular B. Tech courses

(g) After successful completion of all major and Honors degree courses with specified CGPA the University will award B. Tech (Honors)

(h) If a student fails to complete a course offered in offline, he/she will not be permitted to continue the Honors degree.

III. Procedure to Applying for Honors degree

(a) The department offering the Honors will announce courses required before the start of the session.

(b) The interested students shall apply for the Honors course to the HOD of the concerned department.

(c) The whole process should be completed within one week before the start of every session.

(d) Selected students shall be permitted to register the courses for Honors degree.

IV. Joining in Honors Program:

(a) Each department offering the Honors degree shall submit the final list of selected students to the principal.

(b) The selected students shall submit a joining letter to the principal through the concerned HOD.

(c) The department offering Honors shall maintain the record of student pursing the

Honors degree

(d) With the approval of Principal and suggestion of advisor/mentor, students can choose courses from the approved list and shall register the courses within a week as per the conditions laid down in the structure for the Honor degree.

(e) Each department shall communicate the Honors courses registered by the students to the time table drafting committee and accordingly time table will be drafting. Time table drafting committee shall see that no clash in time tables.

(f) If the student wishes to withdraw/change the registration of subject/course, he/she shall inform the same to advisor/mentor, subject teacher, HODs of minor department and parent department and Principal within two weeks after registration of the course.

V. Procedure for Monitoring the Progress of the Scheme

The students enrolled in the Honor courses will be monitored continuously at par with the prevailing practices and examination standards. An advisor/mentor from parent department shall be assigned to a group of students to monitor the progress.

VI. Allocation of seats for Honors degree

(a) The university/institute/colleges will notify the number of the seats for Honors degree in each department well in advance before the start of the semester

(b) **Total number of seats offered for Honors degree shall be a maximum of 60 seats of major degree programme.**

VII. Course Fees for registration of subjects in Major degree

There is no fee for registration of subjects for major degree programme offered in offline at the respective colleges.

VIII. Examinations

(a) The examination for the Honors degree courses offered in offline shall be conducted along with regular B. Tech programme.

(b) The examinations (internal and external) and evaluation procedure of Honors degree courses offered in offline is similar to regular B. Tech courses.

(c) A separate transcript shall be issued for the minor subjects passed in each semester

(d) **There is no supplementary examination for the failed subjects in a Honors degree programme.**

(e) *Examination Fees*: Examination Fees will be as per the JNTUGV norms.

B.TECH. - COURSE STRUCTURE – R26

(Applicable from the academic year 2026-27 and onwards)

INDUCTION PROGRAMME

S.No.	Course Name	Category	L-T-P-C
1	Physical Activities -- Sports, Yoga and Meditation, Plantation	MC	0-0-6-0
2	Career Counselling	MC	2-0-2-0
3	Orientation to all branches -- career options, tools, etc.	MC	3-0-0-0
4	Orientation on admitted Branch -- corresponding labs, tools and platforms	EC	2-0-3-0
5	Proficiency Modules & Productivity Tools	ES	2-1-2-0
6	Assessment on basic aptitude and mathematical skills	MC	2-0-3-0
7	Remedial Training in Foundation Courses	MC	2-1-2-0
8	Human Values & Professional Ethics	MC	3-0-0-0
9	Communication Skills -- focus on Listening, Speaking, Reading, Writing skills	BS	2-1-2-0
10	Concepts of Programming	ES	2-0-2-0