



SANTHIRAM ENGINEERING COLLEGE: NANDYAL

ACADEMIC RULES & REGULATIONS

CHANGES/MODIFICATIONS IN B.TECH R23 REGULATIONS

Reference: [JNTUA R23 Regulations dated on 25-06-2025](#)

1. Program Related Terms: (Ref, 4th -Point in JNTUA Regulations)

Credit Definition:

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

2. Programme Pattern: (Ref, 8th -Point-viii, ix & x sub points)

- i). A mandatory one-week workshop in domain specific after the end of V semester and it will be reflected in 6th semester for zero credits
- ii). It is mandatory for every student to undertake a minimum of one industrial visit during any semester between the 5th and 8th semesters
- iii). Department should conduct one domain specific expert lecture in every semester from 5th semester onwards.

3. Massive Open Online Courses (MOOCs): (Ref, 11th -Point)

In accordance with the University Grants Commission (Credit Framework for Online Learning Courses through SWAYAM) Regulations, 2021, the University/Institution permits students to undertake up to 40% of the total courses offered in a specific programme in a semester through SWAYAM/ SWAYAM plus (www.swayam.gov.in) for credit transfer.

Students may pursue any course (i.e., core, electives or open courses) through SWAYAM / SWAYAM plus MOOCs. Completion of at least one MOOC (Massive Open Online Course) is mandatory for the award of the degree.

At the beginning of each semester, the University/Institution shall notify the list of approved SWAYAM/ SWAYAM plus courses eligible for credit transfer. Students may register for an 8-week (2 credits) or 12-week (3 credits) SWAYAM / SWAYAM plus course with the approval of the Head of the Department (HOD). The HOD shall appoint a faculty mentor to monitor students' progress in the MOOC.

A student must complete at least 75% of the assignments and quizzes on the SWAYAM/

SWAYAM plus platform to be eligible for the end-semester examination. The end- semester exam may be conducted by the National Testing Agency (NTA), the National Programme on Technology Enhanced Learning (NPTEL), or the University/Institution during the regular end-term exams. Evaluation shall comprise 70% weightage for the end-semester examination and 30% for assignments and quizzes conducted by the SWAYAM/ SWAYAM plus course coordinator.

Students must earn a certificate by passing the SWAYAM/ SWAYAM plus examination and submit the same to the University/Institution to receive the credits as specified in the curriculum. Examination fees, if applicable, shall be borne by the student. Pass marks and grading will be as per the JNTUA academic regulations. No relaxation is permitted. Credits will be awarded only after submission of the completion certificate.

Students who fail or are unable to appear in SWAYAM/ SWAYAM plus exams conducted by NTA/NPTEL may write the University/Institution-conducted exam during the next subsequent semesters. Students who qualify through NTA/NPTEL but miss University registration for credit transfer may apply during the next supplementary notification.

Students who qualify in the proctored SWAYAM/ SWAYAM plus exams are eligible for direct credit transfer and are exempted from both internal and external assessments for the equivalent course.

In case of delays in result declaration by NTA/NPTEL, the University/Institution shall issue revised marks memos once results are available.

The University/Institution reserves the right to make amendments to these guidelines from time to time in alignment with UGC directives.

4. Guidelines for offering a Minor: (Ref, 15th - point)

The main objective of Minor in a discipline is to provide additional learning opportunities for academically motivated students and it is an optional feature of the B. Tech. Programme. Students who are desirous of pursuing their special interest areas other than the chosen discipline of Engineering may opt for additional courses in minor specialization groups offered by a department other than their parent department and as defined by the respective department offering Minor program.

- i) Minor is introduced in the curriculum of all B. Tech. programs offering a major degree and is applicable to all B. Tech (Regular and Lateral Entry) students admitted in Engineering & Technology.
- ii) Minor programs shall be offered in emerging technologies by the respective departments or in collaboration with the relevant industries/agencies.
- iii) A student shall earn additional 18 credits in the specified area to be eligible for the award of B.Tech. degree with Minor. This is in addition to the credits essential for obtaining the Undergraduate Degree in Major Discipline (i.e., 160 credits).
- iv) A student shall study five theory courses each carrying three credits, along with either two laboratory courses of 1.5 credits each or a project course of three credits
- v) A student is permitted to register for a Minor offered by a department other than the parent department and as defined by the respective department offering Minor program.
- vi) Minor in Quantum computing or Quantum Technologies can be studied by any branch of student.

- vii) A student is permitted to register for Minor in IV semester after the results of III Semester are declared and students may be allowed to take maximum two subjects per semester pertaining to their Minor from V Semester onwards.
- viii) The courses offered under Minor can have theory as well as laboratory component. If a course comes with a lab component, that component is to be cleared separately
- ix) The Concerned Principal of the college shall arrange separate class work and timetable of the courses offered under various Minor programs.
- x) Courses that are used to fulfil the student's primary major may not be double counted towards the Minor. Courses with content substantially equivalent to courses in the student's primary major may not be counted towards the Minor.
- xi) Students can complete the courses offered under Minor either in the college or in online platforms like SWAYAM/ SWAYAM plus with a minimum duration of 12 weeks for a 3-credit course and 8 weeks duration for a 2-credit course satisfying the criteria defined for credit mobility. If the courses under Minor are offered in conventional mode, then the teaching and evaluation procedure shall be similar to regular B. Tech courses
- xii) The attendance for the registered courses under Minor and regular courses offered for Major degree in a semester are to be considered separately.
- xiii) A student shall maintain an attendance of 75% in all registered courses of Minor to be eligible for attending semester end examinations.
- xiv) A student registered for Minor in a discipline shall pass in all subjects that constitute the requirement for the Minor degree programme. No class/division (i.e., second class, first class and distinction, etc.) shall be awarded for Minor degree programme.
- xv) If a student drops or is terminated from the Minor program, the additional credits so far earned cannot be converted into open or core electives; they will remain extra. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.
- xvi) The Minor in a discipline will be mentioned in the degree certificate as Bachelor of Technology in XXX with Minor in YYY. For example, Bachelor of Technology in Mechanical Engineering with Minor in Machine Learning.

Enrolment into a Minor:

- i) Students without any backlog subjects up to III semester will be permitted to register for a Minor.
- ii) If a student is detained due to lack of attendance in either Major or Minor program, registration shall be cancelled
- iii) Transfer of credits from a particular Minor to regular B. Tech. and vice-versa shall not be permitted
- iv) Minor is to be completed simultaneously with Major degree program.

Registration for Minor:

- i) The institution will announce specialization, eligibility and courses offered by the departments under Minor and seek registrations in IV Semester, after the results of III Semester are announced.
- ii) The eligible and interested students shall apply through the HOD of his/her parent department. The whole process should be completed within one week before the start

of every semester. Selected students shall be permitted to register the courses under Minor.

- iii) The selected students shall submit their willingness to the principal through his/her parent department which shall be forwarded to the concerned departments offering Minor. Both parent department and department offering minor shall maintain the record of student pursuing the Minor.
- iv) The students enrolled in the minor courses will be monitored continuously. An advisor/mentor from parent department shall be assigned to a group of students to monitor the progress.
- v) There is no fee for registration of subjects under Minor program offered in offline at the respective institutions.

5. Guidelines for offering Honors: (Ref, 16th-point)

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.

- i) Honors is introduced in the curriculum of all B. Tech. programs offering a major degree and is applicable to all B. Tech (Regular and Lateral Entry) students admitted in Engineering & Technology.
- ii) 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., 160 credits).
- iii) A student shall study five theory courses each carrying three credits, along with either two laboratory courses of 1.5 credits each or a project course of three credits
- iv) A student is permitted to register for Honors in IV semester after the results of III Semester are declared and students may be allowed to take maximum two subjects per semester pertaining to the Honors from V Semester onwards.
- v) The concerned Principal of the college shall arrange separate class work and timetable of the courses offered under Honors program.
- vi) Courses that are used to fulfil the student's primary major may not be double counted towards the Honors. Courses with content substantially equivalent to courses in the student's primary Major may not be counted towards the Honors.
- vii) Students can complete the courses offered under Honors either in the college or in online platforms like SWAYAM/SWAYAM Plus with a minimum duration of 12 weeks for a 3-credit course and 8 weeks duration for a 2-credit course satisfying the criteria for credit mobility. If the courses under Honors are offered in conventional mode, then the teaching and evaluation procedure shall be similar to regular B. Tech courses.
- viii) The attendance for the registered courses under Honors and regular courses offered for Major degree in a semester are to be considered separately.
- ix) A student shall maintain an attendance of 75% in all registered courses under Honors to be eligible for attending semester end examinations.
- x) A student registered for Honors shall pass in all subjects that constitute the requirement for the Honors degree program. No class/division (i.e., second class, first class and distinction, etc.) shall be awarded for Honors degree programme.
- xi) If a student drops or is terminated from the Honors program, the additional credits so far earned cannot be converted into open or core electives; they will remain extra. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.
- xii) The Honors will be mentioned in the degree certificate as Bachelor of Technology (Honors) in XYZ. For example, B.Tech. (Honors) in Mechanical Engineering

Enrolment into Honors:

- i) Students of a Department/Discipline are eligible to opt for Honors program offered by the same Department/Discipline
- ii) The enrolment of student into Honors is based on the CGPA obtained in the

major degree program. CGPA shall be taken up to III semester in case of regular entry students and only III semester in case of lateral entry students. Students having 7 CGPA without any backlog subjects will be permitted to register for Honors.

- iii) If a student is detained due to lack of attendance either in Major or in Honors, registration shall be cancelled.
- iv) Transfer of credits from Honors to regular B. Tech degree and vice-versa shall not be permitted.
- v) Honors is to be completed simultaneously with a Major degree program.

Registration for Honors:

- i) The eligible and interested students shall apply through the HOD of his/her parent department. The whole process should be completed within one week before the start of every semester. Selected students shall be permitted to register the courses under Honors.
- ii) The selected students shall submit their willingness to the principal through his/her parent department offering Honors. The parent department shall maintain the record of student pursuing the Honors.
- iii) The students enrolled in the Honors courses will be monitored continuously. An advisor/mentor from parent department shall be assigned to a group of students to monitor the progress.
- iv) There is no fee for registration of subjects for Honors program offered in offline at the respective institution