



Bapatla Engineering College :: Bapatla (Autonomous)

Guidelines for Honors / Minor Course - R24 Regulations

1. Award of B.Tech. Degree:

a. Award of B. Tech degree with Minor:

The student secures an additional 16 credits from minor stream chosen and fulfills all the requisites of a B.Tech program i.e. secures 160 (Regular program) / 121 (Lateral Entry program) credits.

Minor is to be completed simultaneously with B.Tech program. Registering for a Minor degree is optional.

b. Award of B.Tech degree with Honors:

The student secures an additional 16 credits fulfilling all the requisites of B.Tech program i.e. secures 160 (Regular program) / 121 (Lateral Entry program) credits.

Registering for Honors is optional and is to be completed simultaneously with B.Tech program.

Students can register either for Honors stream or Minor stream.

2. Guidelines for offering a Minor in a discipline:

Minor in a discipline concept is introduced in the curriculum for all conventional B. Tech programs in which it offers a Major Program (B.Tech degree). The main objective of Minor in a discipline is to provide additional learning opportunities for academically motivated students, and it is an optional added feature of the B. Tech. program.

- a. 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.
- b. The BOS concerned shall identify as many tracks as possible in the areas of emerging technologies and industrial relevance / demand. For example, the Minor tracks can be the fundamental courses in CSE, ECE, EEE, CE, ME etc or industry tracks such as Artificial Intelligence (AI), Machine Learning (ML), Data Science (DS), Robotics, Electric vehicles, VLSI etc.
- c. The list of disciplines / branches eligible to opt for a particular industry relevant minor specialization shall be clearly mentioned by the respective BOS.
- d. There shall be no limit on the number of programs offered under Minor. The Institution can offer Minor programs in emerging technologies based on expertise in the respective departments or can explore the possibility of collaborating with the relevant industries/agencies in offering the program.
- e. The concerned BOS shall decide on the minimum enrolments for offering Minor program by the department. If a minimum enrolments criterion is not met, then the students may be permitted to register for the equivalent MOOC courses as approved by the concerned Head of the department in consultation with BOS.
- f. A student shall be permitted to register for Minor program at the beginning of 4th semester provided that the student must have acquired a minimum of **7.0 CGPA** up to the end of 3rd semester without any backlogs. A CGPA of 7.0 must be maintained in the subsequent semesters without any backlog to keep the Minor registration active.
- g. A student must earn an additional 16 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 for regular



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students and 121 credits for Lateral Entry students). The concerned BOS shall finalize the modalities to earn the above credits.

- h. For securing the above additional 16 credits, the students must register and complete three courses of 4 credits each offered by the department concerned. These 3 courses must contain a laboratory component also (i.e. Embedded course having three lecture hours and two practical hours). The balance of 4 credits may be secured through two MOOCs courses of 2 credits each or an embedded course offered by the department.
- i. 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.
- j. The student registered for Minor shall pass in all subjects that constitute the requirement for the Minor program. No class / division (i.e., second class, first class, distinction, etc.) shall be awarded for Minor degree programme
- k. If a student drops (or terminated) from the Minor program, they cannot convert the earned credits into free or core electives; they will remain extra.
- l. In case a student fails to meet the CGPA requirement for B.Tech degree as per clause 15.f or drops (or terminated) from the Minor program, he/she will be dropped from the list of students eligible for Minors degree and they will receive B.Tech degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.
- m. The Minor will be mentioned in the Major degree certificate only. No additional degree certificate will be given for Minor degree.
- n. Transfer of credits from Minor to regular B. Tech degree and vice-versa shall not be permitted
- o. Minor must be completed simultaneously with a Major degree program. A student cannot earn the Minor degree after he / she has already earned bachelor's degree.
- p. The documents for registration of Minor courses are available from the departments and college website.

3. Guidelines for offering a Honors in a Discipline:

The objective of introducing B.Tech (Honors) is to facilitate the students to choose additional 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.

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. Students are eligible to opt for Honors program offered by the same Department / Discipline.

- a. Students who are desirous of pursuing special interest / advanced areas of their discipline of Engineering may opt for additional courses as part of Honors programs offered by the parent department.
- b. The BOS concerned shall identify as many tracks as possible in the areas of emerging technologies and industrial relevance / demand.
- c. A student shall be permitted to register for Honors program at the beginning of 4th semester provided that the student must have acquired a minimum of 7.5 CGPA up to the end of 3rd semester without any backlogs. A CGPA of 7.5 must be maintained in the subsequent semesters without any backlog to keep the Honors registration active.



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- d. A student must earn additional 16 credits for award of B.Tech. (Honors) degree from the 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 for regular students and 121 credits for Lateral Entry students). The concerned BOS shall finalize the modalities to earn the above credits.
- e. For securing the above additional 16 credits, the students must register and complete three courses of 4 credits each offered by the department concerned. These 3 courses must contain a laboratory component also (i.e. Embedded course having three lecture hours and two practical hours). The balance of 4 credits may be secured through two MOOCs courses of 2 credits each or an embedded course offered by the department.
- f. Courses that are used to fulfil the student's primary Major may not be counted towards the Honors.
- g. The student registered for Honors shall pass in all subjects that constitute the requirement for the Honors program. No class / division (i.e., second class, first class and distinction, etc.) shall be awarded for Honors program.
- h. If a student drops or is terminated from the Honors program, the additional credits earned so far cannot be converted into open or core electives; they will remain extra.
- i. In case a student fails to meet the CGPA requirement for B.Tech degree as per clause 16.c or drops (or terminated) from the Honors program, he/she will be dropped from the list of students eligible for degree with Honors and they will receive B.Tech degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them
- j. The Honors will be mentioned in the Major degree certificate only as Bachelor of Technology (Honors). No additional degree certificate will be given for Honors.
- k. Transfer of credits from Honors to regular B. Tech degree and vice-versa shall not be permitted.
- l. Honors is to be completed simultaneously with a Major degree. A student cannot earn the Honors after he / she has already earned bachelor's degree
- m. The documents for registration of Honors are available from the departments and college website.

(These Guidelines below will be appended to R24 Rules and Regulations)

4. Course Evaluation Process:

The performance of the students in each semester shall be assessed course wise. All assessments will be done on an absolute mark basis. However, for the purpose of reporting the performance of a candidate, letter grades and grade points will be awarded.

The performance of a student in each course is assessed with term examinations during the semester called Continuous Internal Evaluation (CIE) and a Semester End Examination (SEE) conducted at the end of the semester. For each course, there shall be a comprehensive SEE of three hours duration at the end of each semester.



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4.1 Weightage for Course Evaluation:

The distribution of marks between CIE and SEE will be as follows:

Nature of the Course	CIE	SEE
Embedded Courses (Theory + Practical)	50	50

4.1.1 CIE in Embedded Course:

In each embedded course 25 marks is allotted for theory part and 25 marks for practical part. Theory part is evaluated in terms of two term examinations and practical part is evaluated in terms of day-to-day work and one term examination.

- a) **Theory Part – 25 marks:** For theory part the term examination is conducted in the regular mode according to a schedule given for Honors / Minor courses which will be common for a particular semester of study. The weightage for Term Examinations and the calculation of marks for CIE in theory part is given in the following Table.

Term Exams in Theory Part (Max. 25 marks)
15 marks from the best performed term exam + 10 marks from the other term exam

- b) **Practical part – 25 marks:** The practical part comprises of 10 marks for day-to-day laboratory work, 5 marks for record submission and 10 marks for a practical examination at the end of the practical course work. In any semester, a minimum of 90% of prescribed number of experiments / exercises specified in the syllabi for laboratory course shall be completed by the students. They shall complete these experiments / exercises in all respects and get the record certified by the internal lab teacher concerned and the Head of the Department.

4.1.2 SEE in Embedded Course:

For each course, SEE shall be conducted for theory part only. A comprehensive SEE will be conducted of three hours duration at the end of each semester course for 50 marks.

4.1.3 MOOCs Course:

If a student opts for two MOOC's, the courses must be of a minimum of 8 weeks in duration and shall contain proctored examinations. As per MOOCs guidelines the Internal Department Committee comprising Head of Department and two senior faculty members shall evaluate the certificate / grades / marks awarded for a course by external agencies and convert the same to equivalent marks / grades.



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4.2 Pass Criteria in Embedded Course:

a) In CIE

A minimum of 25 (50%) marks are to be secured exclusively in the CIE with a minimum of 65% attendance in that course to be declared as qualified (Q) in that course and be eligible to appear for the SEE of that course. If a student fails to obtain 25 marks in CIE or a minimum of 65% attendance in that course, then the student will be regarded as not qualified (NQ) and such a student will be discontinued from the Honors / Minor degree program.

b) In SEE

A minimum of 20 (40%) marks of theory part is to be secured exclusively in the SEE of each course. A student eligible to appear for the SEE in a course but is absent or failed in the examination will be discontinued from the Honors / Minor degree program.



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List of Courses for Minor in.....

1. The student can opt for any three courses from the following table.
2. The fourth course is optional; the student may either take two MOOC courses of 2 credits each or choose one course from the following table.
3. Concerned BOS can add or delete the subjects as per their decision.
4. Prerequisites if any, to be defined by the BOS for each course.
5. The list of MOOC courses will be specified every year at the beginning of the odd and even semesters by the Department MOOC Committee.

List of Minor Courses:

S.No	Code	Course Title	L	T	P	C
1	A		3		2	4
2	B		3		2	4
3			3		2	4
4			3		2	4
5			3		2	4
6			3		2	4

Note: The course will be specified in the “Scheme of Instruction & Examination” pertaining to that semester. The course code format is 24XXMYZ

XX – Department code

M – Minor

Y – Semester

Z – Code in the above table



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List of Courses for Honors in.....

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3. Concerned BOS can add or delete the subjects as per their decision.
4. Prerequisites if any, to be defined by the BOS for each course.
5. The list of MOOC courses will be specified every year at the beginning of the odd and even semesters by the Department MOOC Committee.

List of Honors Courses:

S.No	Code	Course Title	L	T	P	C
1	A		3		2	4
2	B		3		2	4
3			3		2	4
4			3		2	4
5			3		2	4
6			3		2	4

Note: The course will be specified in the “Scheme of Instruction & Examination” pertaining to that semester. The course code format is 24XXHYZ

XX – Department code

H – Honors

Y – Semester

Z – Code in the above table



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UNIT-I	
Theory:	
List of Experiments:	
UNIT-II	
Theory:	
List of Experiments:	
UNIT-III	
Theory:	
List of Experiments:	
UNIT-IV	
Theory:	
List of Experiments:	
Text Books :	.
References :	