ACADEMIC REGULATIONS FOR
B.TECH. PROGRAMMES INCLUDING HONORS AND MINORS
(UNDER CHOICE BASED CREDIT SYSTEM EFFECTIVE FROM 2020-21 ADMITTED BATCH)

2020

**COLLEGE OF ENGINEERING
(AUTONOMOUS)**

GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING
(Autonomous)
Madhurawada, Visakhapatnam 530048

Affiliated to JNTU Kakinada, Kakinada

ACADEMIC REGULATIONS FOR
B.Tech. Programmes including Honours / Minor Programmes

(Under Choice Based Credit System effective from 2020-21 admitted batch)

These Regulations shall be called the "Gayatri Vidya Parishad College of Engineering (Autonomous) Regulations- 2020 for the Award of B.Tech. Degree".

These regulations shall be applicable for students enrolling for B.Tech. degree programmes at the Institute from Academic Year 2020-21.

The admission of students shall be as per Govt. of Andhra Pradesh rules.

The medium of instruction for course work and examinations at the Institute shall be English.

1. **Award of the Degree:** A student will be declared eligible for the award of B.Tech. degree if he/she fulfills the following:
   i. Pursues a course of study in not less than four and not more than eight consecutive academic years.
   ii. After eight academic years from the year of their admission, he/she shall forfeit their seat in B.Tech course and their admission stands cancelled.
   iii. Registers for 160 credits and must secure all the 160 credits.
   iv. Registers and pass in all the non-credit mandatory courses.
   v. A student shall be eligible for the award of B.Tech degree with Honors or Minor if he/she earns 20 credits in addition to the 160 credits within 4 years duration.

2. **Structure of the B.Tech. program:**

S.No.	Category	Code	Credits
1	Humanities and Social science including Management courses	HSMC	10.5
2	Basic Science courses	BSC	21
3	Engineering Science courses	ESC	24
4	Professional Core Courses	PCC	51
5	Open Elective / Job Oriented Elective	OEC	12
6	Professional Elective courses	PEC	15
7	Internship, Seminar, Project wok	PROJ	16.5
8	Mandatory courses (Non-credit)	MC	-
9	Skill Oriented Courses	SC	10
	Total Credits		**160**

The credits are allotted as:

       1 Hr. Lecture (L) per week - 1 credit

       1 Hr. Tutorial (T) per week - 1 credit

       1 Hr. Practical (P) per week - 0.5 credits.

Semester	Composition		Credits
0	Induction Programme (2-3 weeks)		**0 Credits**
I	4 / 5 Theory + 4 Labs (19.5 Credits)	Includes Engineering Workshop (1-0-4) / Engineering Drawing (1-0-4) Non-Credit Mandatory Course-I	**39 Credits**
II	5 / 4 Theory + 4 Labs (19.5 Credits)		
III	5 Theory + 4 Labs (21.5 Credits)	Includes Design Thinking & Innovation, Programming with Python, Non-Credit Mandatory Course-II, Two skill oriented Courses	**43 Credits**
IV	5 Theory + 4 Labs (21.5 Credits)		
	Honors/Minor courses (3-0-2 / 3-1-0) during IV semester		**4 Credits**
	2 Months Internship (Mandatory) during summer vacation		
V	4 Theory + 3 Labs + Professional Elective-I + Intern- (21.5 Credits)	Includes AI tools, IoT, Non-Credit Mandatory Courses - III, IV Skill advanced course -I and Soft skills course	**43 Credits**
VI	4 Theory + 4 Labs + Professional Elective-I (21.5 Credits)		
	Honors/Minor courses (3-0-2 / 3-1-0) during V, VI semesters		**8 Credits**
	2 Months Industrial/Research Internship (Mandatory) during summer vacation		
VII	3 Theory + 3 Labs + Professional Electives – III, IV, V + Open / Job Oriented Elective – II, III + Industrial/Research Internship two Months (Mandatory) after third year	Includes Skill advanced course –II	**23 Credits**
	Honors/Minor courses (3-0-2 / 3-1-0)		**4 Credits**
VIII	Project, Seminar + Internship in Industry		**12 Credits**
Total			**160 Credits**
	2 Courses from MOOCs for Honours /Minor course during IV to VII semesters		**4 Credits**

Non-credit mandatory courses: Environmental Sciences, Human Values & Professional Ethics, Indian Constitution, Essence of Indian Traditional Knowledge

3. Registration: A student shall register for courses in each semester offered by the concerned department under Choice Based Credit System (CBCS).

4. There will be mandatory student induction program for freshers for two to three weeks before the commencement of first semester. Physical activity, Creative Arts, Universal Human Values, Literary, Proficiency Modules, Lectures by Eminent People, Visits to local Areas, Familiarization to Dept./Branch & Innovations etc.

5. All undergraduate students shall register for NCC/NSS/Social activities. A student will be required to participate in an activity for two hours in a week during second and third semesters. Grade shall be awarded as Satisfactory or Unsatisfactory in the mark sheet on the basis of participation, attendance, performance and behavior. If a student gets an unsatisfactory Grade, he/she shall repeat the above activity in the subsequent years, in order to complete the degree requirements.

6. All Open Electives are offered to students of all branches in general. However, a student shall choose an open elective from the list in such a manner that he/she has not studied the same course during the Programme.

7. A student shall be permitted to pursue up to a maximum of two elective courses under MOOCs during the Programme. Each of the courses must be of minimum 12 weeks in duration. One faculty in-charge is nominated for each course to monitor the registration and progression of the student. Attendance will not be counted for courses under MOOCs. The Head of the department shall notify the list of such courses at the beginning of the semester. The student has to pursue and acquire a certificate for a course under MOOCs from the organizations/agencies approved by the BoS in order to earn the 3 credits within the same semester. Letter grade "E" shall be awarded in case of attendance grade for online courses (under MOOCs).

8. The students shall register for professional and open elective courses at the beginning of the semester. There shall be a limit on the minimum and maximum number of registrations based on class / section strength.

9. Students shall undergo mandatory summer internships for a minimum of six weeks duration each at the end of second and third year of the Programme. There shall also be mandatory full internship in the final semester of the Programme along with the project work.

10. Attendance Requirements:
  i. A student shall be eligible to appear for end semester examinations if he/she acquires a minimum of 40% in each subject and 75% of attendance in aggregate of all the subjects in a semester.
 ii. Condonation for shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester may be granted. A stipulated fee shall be payable to the college towards condonation of shortage of attendance.
iii. Shortage of Attendance below 65% in aggregate shall in NO case be condoned.
 iv. Students whose shortage of attendance is not condoned in any semester are not eligible to take their end semester examination of that class and their registration shall stand cancelled.
  v. A student will not be promoted to the next semester unless he/she satisfies the attendance requirements of the present semester, as applicable. They shall seek readmission and continue his course of study from that semester when offered next.
 vi. Attendance against each course will be indicated in the marks memo by a letter grade as follows:

Attendance	Grade
90% and above	A
75% to 89%	B
65% to 74%	C
below 65%	D

Letter grade "E" shall be awarded in case of attendance grade for online courses / any other certificate course offered by external agency.

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11. Method of Evaluation:

The performance of a student in each semester shall be evaluated through Continuous Internal Evaluation and End Semester Examination. The student shall earn the credits in the respective courses by obtaining at least the marks as specified in the pass criteria given below:

S. No.	Type of course	Continuous Internal Evaluation	End Semester Examination (3 hours)		Pass Criteria
			Max. marks (Paper setting)	Evaluation	
1	Theory Courses	30 Marks Two tests each for 20 marks. 2:1 weighted averaged marks with the higher score carrying a weightage of 2 shall be considered. Four assessments by at least any two of the following methods each for 10 marks and average shall be considered. (Assessment Methods: Assignment / Quiz / Term paper / Tutorial / Surprise test / seminar / Open book test / Case study / Lab activity / Projects /Any other Teacher specific method).	70 Marks (External)	Double valuation (both Internal and External)	35% (25 marks) from End semester and 40% (40 marks) on aggregate from Internal and End semester Examination put together
2	Practical Courses including Engg. Drawing and Engg. Workshop, Design Thinking & Innovation	40 Marks (20 marks from day-to-day work, 20 marks from internal examination at the end of each cycle, Average marks shall be considered in each component).	60 Marks (External)	External	35% (21 marks) from End semester Examination and 40% (40 marks) on aggregate from Internal and End semester Examinations put together.
3	Theory Course with integrated Lab	35 Marks 10 Marks (weighted average of two mid-term tests) and 5 Marks from Assignment 10 Marks from day-to-day evaluation of the lab activities. 10 Marks from Lab Exam	65 Marks (Internal) 35 Marks from Theory Exam and 30 Marks from Lab Exam	Internal Double valuation for Theory Lab Examination to be conducted by concerned teacher and a senior expert in the subject from the same department)	35% (13 of 35 marks) from End semester Theory Examination; 35% (11 of 30 marks) from End semester Lab Examination; and 40% (40 of 100 marks) of total marks from theory and Lab components put together are required to pass the course.
4	Professional Elective / Open Elective	30 Marks (same as that for Theory course in S. No. 1)	70 Marks (Internal)	Double valuation (both internal)	35% (25 marks) from End semester and 40% (40marks) on aggregate from Internal and End semester Examinations put together
5	Skill Oriented Courses	---	100 Marks (Internal)	Internal (Lab Examination to be conducted by concerned teacher and a senior expert in the subject from the same department)	40% (40 Marks) from End semester Examination

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6	Non-credit Mandatory courses	-----	50 Marks (Internal)	Double valuation (both Internal)	Total marks obtained out of 50 will be pro-rated to 100 for award of grade. 40% (40 Marks) from End semester Examination. No marks or letter grade shall be allotted for all the non-credit mandatory courses.
7	Summer Internships / Community Service Project	---	100 Marks (Internal)	Through an Internal committee (comprising of HoD, Supervisor and a senior faculty of the department) based on Report (40%), Presentation and Viva-voce (60%).	40% (40 Marks) from Report, Presentation and Viva-voce.
8	Project Work	40 Marks (Two Mid-Term evaluations each for 20 Marks based on the progress, through an Internal committee comprising of HoD, Project Supervisor and a senior faculty of the department.	60 Marks (External)	External (based on the report, Presentation and Viva-voce examination).	35% (21 marks) from End semester Examination and 40% (40 marks) on aggregate from Internal and End semester Examinations put together.

12. Double valuation:

In case of double valuation, a chief examiner appointed for each course shall monitor the valuation process. If the difference between the first and second valuations is less than or equal to 15% of maximum marks, the better of the two valuations shall be awarded. If the difference between the first and second valuation is more than 15% of maximum marks, the chief examiner shall value the script. The marks given by the chief examiner shall be final.

13. Supplementary examinations:

Supplementary examinations for the odd semester shall be conducted with the regular examinations of even semester and vice versa.

In case a student fails in any course under online course, he/she may be permitted to register for the same or another course.

If a student fails in Design Thinking and Innovation / Internship (Industrial or Research or Community Service Project) / final semester Project Work, the student shall appear for supplementary examination as and when conducted.

14. Promotion Rules:

A student shall fulfill both the following attendance and credit requirements for promotion:

a) *Attendance requirements:*
   A student shall fulfill the minimum attendance requirements in every semester for promotion to next semester.

b) *Credit requirements:*
   i. A student will be promoted from IV to V semester if he/she fulfills the academic requirement of atleast 40% of credits up to either III semester (i.e., 25 credits out of 60.5 credits) or IV semester (i.e., 33 Credits out of 82 Credits) from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in IV semester.
   ii. A student shall be promoted from VI to VII semester if he/she fulfills the academic requirements of atleast 40% of the credits up to either V semester (i.e., 42 credits out of 103.5 credits) or VI semester (i.e., 50 Credits out of 125 Credits) from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in VI semester.

15. Grading:

The marks obtained in each subject (out of 100 marks) will be converted to a corresponding letter grade as given below, depending on the range in which the marks obtained by the student fall.

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 letters A+, A, B, C, D, E and F.

Marks Range	Level	Letter Grade	Grade Point
≥ 90	Outstanding	A+	10
80 - 89	Excellent	A	9
70 - 79	Very Good	B	8
60 - 69	Good	C	7
50 - 59	Fair	D	6
40 - 49	Satisfactory	E	5
< 40	Fail	F	0
-	Absent	Ab	0

Calculation of Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):

i. The 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 ith subject and G_i is the grade point scored by the student in the ith course

ii. The CGPA will be computed in the same manner taking into account all the courses undergone by a student over all 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 ith semester and C_i is the total number of credits in that semester

iii. Both SGPA and CGPA shall be rounded off to 2 decimal points and reported in the transcripts.

iv. While computing the SGPA/CGPA, the subjects in which the student is awarded Zero grade points will also be included.

16. 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:

Class Awarded	CGPA Secured
First Class with Distinction	≥ 7.75 (Without any supplementary appearance)
First Class	≥ 6.75 and < 7.75
Second Class	≥ 5.75 and < 6.75
Pass Class	≥ 5.00 and < 5.75

CGPA to Percentage of Marks: Equivalent percentage of marks = **(CGPA-0.75)*10**

17. Re-registration for failed courses:

A candidate shall be given one chance to re-register for a maximum of four failed courses(s) of regular B.Tech. programme. The re-registration is permitted only after completion of VIII semester as and when the subject(s) are offered. In the event of re-registration, the internal marks and end semester examination marks obtained in the previous attempt are nullified. However, the students who avail this provision are eligible for PASS / SECOND CLASS / FIRST CLASS only.

18. Gap Year - concept of Student Entrepreneur in Residence:

Outstanding students who wish to pursue entrepreneurship are allowed to take a break of one year at any time after I year / II year / III year to pursue entrepreneurship full time. This period shall be counted for the maximum time for graduation. An evaluation committee at the college level shall be constituted to evaluate the proposal submitted by the student and the committee shall decide on permitting the student for availing the Gap Year.

19. Curricular Framework for Mandatory Internships

1. Two summer internships each with a minimum of six weeks duration, done at the end of second and third years, respectively are mandatory. The internship can be done by the students at local industries, Govt. Organizations, Construction agencies, Industries, Hydel and thermal power projects and also in software MNCs.
2. Evaluation of the summer internships shall be through the departmental committee comprising the Head of the Department as chairman and two faculty of the department including the Supervisor. 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. The report and the oral presentation shall carry 40% and 60% weightages, respectively.
3. In the final semester, the student shall mandatorily undergo internship and parallelly he/she shall work on a project with well-defined objectives. At the end of the semester the candidate shall submit an internship completion certificate and a project report on the work carried out during the internship. The project work shall be evaluated with an external examiner.
4. The student internship programs shall be facilitated and monitored through a college level committee with three senior faculty members including supervisor. 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.

20. Curricular Framework for Skill oriented Courses:

1. Out of the five skill courses two shall be skill-oriented courses from the same domain and shall be completed in second year. Of the remaining 3 skill courses, one shall be necessarily be a soft skill course and the remaining 2 shall be skill-advanced courses either from the same domain or Job oriented skill courses, which can be of inter disciplinary nature.

2. The student can choose either the skill courses being offered by the department or to choose a certificate course being offered by industries / Professional bodies / APSSDC or any other accredited bodies as approved by the concerned BoS.

3. If a student chooses to take a Certificate Course offered by Industries / Professional bodies / APSSDC or any other accredited bodies, in lieu of the skill advanced course offered by the department, the credits shall be awarded to the student upon producing the Course Completion Certificate from the agency / professional bodies as approved by the BoS.

4. If a student prefers to take a certificate course offered by external agency, attendance shall be computed by excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the concerned HoD. The student is deemed to have fulfilled the attendance requirement of the course and acquire the credits assigned to the course.

5. The grades / marks given for a course by external agencies will be converted to the equivalent marks / grades of GVPCE(A).

21. Community Service Project (Experiential learning through community engagement):

Community Service Project is an experiential learning strategy that integrates meaningful community service with instruction, participation, learning and community development. Community Service Project is meant to link the community with the college for mutual benefit.

Objectives

➢ Community Service Project should be an integral part of the curriculum, as an alternative to the 2 months of Summer Internships / Apprenticeships / On the Job Training, whenever there is an exigency when students cannot pursue their summer internships. The specific objectives are;

➢ To sensitize the students to the living conditions of the people who are around them,

➢ To bring about an attitudinal change in the students and help them to develop societal consciousness, sensibility, responsibility and accountability

➢ To make students aware of their inner strength and help them to find new /out of box solutions to the social problems.

➢ To make students socially responsible citizens who are sensitive to the needs of the disadvantaged sections.

➢ To help students to initiate developmental activities in the community in coordination with public and government authorities.

➢ To develop a holistic life perspective among the students by making them study culture, traditions, habits, lifestyles, resource utilization, wastages and its management, social problems, public administration system and the roles and responsibilities of different persons across different social systems.

Implementation of Community Service Project
1. Every student should put in a minimum of **180 hours** for the Community Service Project during the summer vacation.
2. Each class/section should be assigned with a mentor
3. Specific Departments could concentrate on their major areas of concern.
4. A log book has to be maintained by each of the student, where the activities undertaken / involved to be recorded.
5. The log book has to be countersigned by the concerned mentor/faculty incharge.
6. Evaluation to be done based on the active participation of the student and grade could be awarded by the mentor/faculty member.
7. The final evaluation to be reflected in the grade memo of the student.
8. The Community Service Project should be different from the regular programmes of NSS / NCC / Green Corps/Red Ribbon Club, etc.
9. Minor project report should be submitted by each student. An internal Viva shall also be conducted by a committee constituted by the principal of the college.
10. Award of marks shall be made as per the guidelines of Internship/apprentice/ on the job training.

22. Curricular Framework for Honors Programme
1. Students of a department / discipline are eligible to opt for Honors Programme offered by the same department / discipline. Students can select the additional and advanced courses from their respective branch in which they are pursuing the degree and get an honors degree in the same.
2. In addition to fulfilling all the requisites of the Regular B.Tech Programme (earning 160 credits), a student shall earn 20 additional credits to be eligible for the award of B.Tech (Honors) degree.
3. Of the 20 additional credits to be acquired, 16 credits shall be earned by undergoing specified courses listed as pools, with four courses, each carrying 4 credits. The remaining 4 credits must be acquired through two MOOCs, which shall be domain specific, each with 2 credits and with a minimum duration of 8 weeks as recommended by the Board of studies. Attendance will not be monitored for MOOC courses. Students have to acquire a certificate from the agencies approved by the BoS with grading or marks or pass/fail in order to earn 4 credits. If the MOOC course is a pass/fail course without any grades, the grade shall be assigned as per the recommendations of the academic council.
4. It is the responsibility of the student to acquire / complete prerequisites before taking the respective course. The courses offered in each pool shall be domain specific courses and advanced courses. Each pool can have theory as well as laboratory courses. If a course comes with a lab component, that component has to be cleared separately.
5. If a student has already studied any course from the list prescribed for B.Tech (Honors), he/she shall be permitted to choose any other course listed under professional electives of the respective B.Tech programme.

23. Curricular Framework for Minor Programme:
1. 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. Students can also opt for Industry relevant tracks of any branch to obtain the Minor Degree.
2. A student shall earn additional 20 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 Under Graduate Degree in Major Discipline (i.e. 160 credits).

3. Out of the 20 Credits, 16 credits shall be earned by undergoing specified courses listed by the concerned BoS along with prerequisites. It is the responsibility of the student to acquire / complete prerequisite before taking the respective course. If a course comes with a lab component, that component has to be cleared separately. A student shall be permitted to choose only those courses that he/she has not studied in any form during the Programme.

4. In addition to the 16 credits, students must pursue at least 2 courses through MOOCs / external agencies. The courses must be of minimum 8 weeks in duration. Attendance will not be monitored for MOOC courses. Student has to acquire a certificate from the agencies approved by the BoS with grading or marks or pass/fail in order to earn 4 credits. If the MOOC course is a pass/fail course without any grades, the grade to be assigned as decided by the academic council.

5. Student can opt courses from the Industry relevant minor specialization, Skill Development Corporation (APSSDC), an external agency recommended and approved by concerned BoS and should produce course completion certificate.

24. Other Common guidelines for Honors / Minor Programme:

1. A student shall be permitted only to register either for Honours or for Minor programme and the class work shall be conducted outside the contact hours of the regular B.Tech. programme.

2. The administration reserves the right to decide on the minimum enrolments for offering Honors / 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 in BoS.

3. A student shall be permitted to register for Honors / Minor program at the beginning of IV semester subject to a maximum of two additional courses per semester, provided that the student must have acquired 8.0 CGPA upto the end of II semester without any history of backlogs. In case the III semester results are declared after the commencement of the IV semester, and if a student fails to acquire 8.0 CGPA upto III semester or failed in any of the courses, his/her registration for Honors / Minor program stands cancelled and he/she shall continue with the regular Programme. The CGPA of 8.0 has to be maintained in the subsequent semesters without any backlog in order to keep the registration for Honors / Minor programme active. The admission into minor/honours shall be strictly on the merit basis only. In case of a tie the GPA secured in the core courses shall be taken into consideration.

4. A student shall be permitted to appear for the end semester examinations, provided he/she puts up a minimum attendance of 75% in each course registered. However, condonation for shortage of attendance between 65-74% may be given on medical grounds. The student concerned will be permitted to take the end semester examination, on payment of condonation fee. Attendance against each course will be indicated in the marks memo by a letter grade as that of regular B.Tech. programme.

5. The internal and end semester evaluation system for Theory, Practical, Theory with integrated Lab and Mini-Project shall be same as that of similar type of courses in regular B.Tech. programme.

6. The Honors / Minor degree will be awarded only after successful completion of all 20 Credits. Separate CGPA shall be given for the Honors / Minor programme. No Class / Division will be awarded in case of Honors / Minor programme. Withdrawal from Honors / Minor programme is allowed in any semester.

7. If a student drops or is terminated from the Honors / Minor program, the additional credits so far earned cannot be converted into free or core electives; they will remain extra. These additional courses will find mention in the transcript (but not in the degree certificate). In such cases, the student may choose between the actual grade or a "pass (P)" grade and also choose to omit the mention of the course as per the following: (i) All the courses done under the dropped Minor

will be shown in the transcript and (ii) None of the courses done under the dropped Minor will be shown in the transcript (subject to approval from JNTUK).

8. In case a student (i) fails to meet attendance requirement in any subject registered under Honors / Minor programme or (ii) fails in any subject registered under Honors / Minor programme or (iii) fails to meet the 8.0 CGPA requirement at any point after registration, he/she will be dropped from the list of students eligible for degree with Honors / Minor and they will receive B.Tech degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them (subject to approval from JNTUK).

9. If a student gets detained due to attendance shortage in the regular programme even after registered for Honors / Minor, his/ her admission in Honors / Minor shall be cancelled.

10. The Honors / Minor must be completed simultaneously with a major degree program. A student cannot earn the Honors / Minor after he/she has already earned bachelor's degree.

11. The nomenclature and mention of title on the degree certificate for Honors / Minor shall be in accordance with guidelines from the affiliating University, JNTUK, Kakinada.

12. There is no course fee in case of minor/ honours programme, however the student has to pay examination fee as stipulated from time to time.

25. Special considerations for MOOCs / SoCs:

1. The students may be permitted to register for any course under MOOCs (including SoCs) ahead of the corresponding regular semester based on the start dates of course by external agencies.

2. If the external agency is unable to give grades/marks due to any unavoidable circumstances, the college shall conduct evaluation.

3. If a course under MOOCs (already approved in BoS) as part of Regular / Honors / Minor programme is not available and no suitable equivalent course MOOCs course is available, the college shall offer the same course.

General:

i. Where the words „he", „him", „his", occur, they imply „she", „her", „hers", also.

ii. The academic regulations should be read as a whole for the purpose of any interpretation.

iii. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Chairman, Academic Council is final.

iv. The College may change or amend the Academic regulations or syllabi at any time as per the directions of the Academic Council and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the College.

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ACADEMIC REGULATIONS
FOR STUDENTS ADMITTED THROUGH LATERAL ENTRY

The duration of the programme for the degree of B.Tech. for lateral entry students will be three academic years, with two semesters in each year. However, if a student cannot complete within 3 years, he/she can do so by taking more time but not more than 6 years from the year of first admission.

1. Structure of the Programme:

Semester	Composition		Credits
III	5 Theory + 4 Labs (21.5 Credits)	Includes Design Thinking & Innovation, Programming with Python, Non-Credit Mandatory Course- II, Two skill oriented Courses	**43** Credits
IV	5 Theory + 4 Labs (21.5 Credits)		
	Honors/Minor courses (3-0-2 / 3-1-0) during IV semester		**4 Credits**
	2 Months Internship (Mandatory) during summer vacation		
V	5 Theory + 4 Labs + Intern-I (Including Professional Elective -I) (21.5 Credits)	Includes AI tools, IoT, Non-Credit Mandatory Courses -III, IV Skill advanced course -I and Soft skills course	**43** Credits
VI	5 Theory + 4 Labs (Including Professional Elective - II) (21.5 Credits)		
	Honors/Minor courses (3-0-2 / 3-1-0) during V, VI semesters		**8 Credits**
	2 Months Industrial/Research Internship (Mandatory) during summer vacation		
VII	6 Theory + 3 Labs Professional Elective – III, IV, V Open / Job Oriented Elective – II,III, Industrial/Research Internship 2 Months (Mandatory) after third year	Skill advanced course -II	**23 Credits**
	Honors/Minor courses (3-0-2 / 3-1-0)		**4 Credits**
VIII	Project, Seminar + Internship in Industry		**12 Credits**
Total			**121 Credits**
2 Courses from MOOCs for Honours /Minor course during IV to VII semesters			**4 Credits**

Non-credit mandatory courses: Environmental Sciences, Human Values & Professional Ethics, Indian Constitution, Essence of Indian Traditional Knowledge

2. Promotion Rules:

A student shall fulfill both the following attendance and credit requirements for promotion:

a) *Attendance requirements:*

A student shall fulfill the minimum attendance requirements in every semester for promotion to next semester.

b) *Credit requirements:*

A student shall be promoted from VI to VII semester if he/she fulfills the academic requirements of atleast 40% of the credits up to either V semester (i.e., 26 credits out of 64.5 credits) or VI semester (i.e., 35 credits out of 86 credits) from all the examinations, whether or not the candidate takes the examinations and secures prescribed minimum attendance in VI semester.

3. Minimum Academic Requirement for the award of degree:

1. A student shall pass in all courses corresponding to **121** credits, secure a pass in all the Non-Credit mandatory courses to be eligible for the award of the B.Tech. degree.

2. A student shall acquire 20 credits from courses prescribed for Honours / Minor degree, in addition to the minimum Academic Requirement for award of regular B.Tech. degree to be eligible for the award of the Honours / Minor degree. A student shall be permitted to register for Honors / Minor program at the beginning of IV semester subject to a maximum of two additional courses per semester, provided that the student must have acquired 8.0 CGPA upto the end of III semester without any history of backlogs. In case the III semester results are declared after the commencement of the IV semester, and if a student fails to acquire 8.0 CGPA in III semester or failed in any of the courses, his/her registration for Honors / Minor program stands cancelled and he/she shall continue with the regular Programme. The CGPA of 8.0 has to be maintained in the subsequent semesters without any backlog in order to keep the registration for Honors / Minor programme active.

4. All other regulations shall be same as that of the regulations applicable to regular students.

General:

i. Where the words „he", „him", „his", occur, they imply „she", „her", „hers", also.

ii. The academic regulations should be read as a whole for the purpose of any interpretation.

iii. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Chairman, Academic Council is final.

iv. The College may change or amend the Academic regulations or syllabi at any time as per the directions of the Academic Council and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the College.

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TRANSITORY REGULATIONS FOR RE-ADMITTED STUDENTS

1. The re-admitted students shall continue his/her course of study as per the course structure, syllabus and evaluation shall be in accordance with the regulations under which the student was first admitted.

2. For the subject(s) failed in earlier semesters (before re-admission), the student has to acquire credits from the supplementary examinations as and when conducted.

3. The decision of the Principal is final on any other clarification in this regard.

4. In case of transferred students from other University / College, an equivalent course structure shall be prepared by the BoS of the respective department considering the suitable credits already acquired at the previous institution.

General:

i. Where the words "he", "him", "his", occur, they imply "she", "her", "hers", also.

ii. The academic regulation should be read as a whole for the purpose of any interpretation.

iii. In the case of any doubt or ambiguity in the interpretation of the above rules, the decision of the Chairman, Academic Council is final.

iv. The college may change or amend the academic regulations or syllabi from time to time and the changes or amendments made shall be applicable to all the students with effect from the dates notified by the college.

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R-20 B.Tech. Academic Regulations

MALPRACTICES RULES
DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

	Nature of Malpractices/Improper conduct	Punishment
	If the candidate:	
1. (a)	Possesses or keeps accessible in examination hall, any paper, note book, programmable calculators, Cell phones, pager, palm computers or any other form of material concerned with or related to the subject of the examination (theory or practical) in which he is appearing but has not made use of (material shall include any marks on the body of the candidate which can be used as an aid in the subject of the examination)	Expulsion from the examination hall and cancellation of the performance in that subject only.
1. (b)	Gives assistance or guidance or receives it from any other candidate orally or by any other body language methods or communicates through cell phones with any candidate or persons in or outside the exam hall in respect of any matter.	Expulsion from the examination hall and cancellation of the performance in that subject only of all the candidates involved. In case of an outsider, he will be handed over to the police and a case is registered against him.
2.	Has copied in the examination hall from any paper, book, programmable calculators, palm computers or any other form of material relevant to the subject of the examination (theory or practical) in which the candidate is appearing.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted to appear for the remaining examinations of the subjects of that Semester/year. The Hall Ticket of the candidate is to be cancelled.
3.	Impersonates any other candidate in connection with the examination.	The candidate who has impersonated shall be expelled from examination hall. The candidate is also debarred and forfeits the seat. The performance of the original candidate who has been impersonated, shall be cancelled in all the subjects of the examination (including practicals and project work) already appeared and shall not be allowed to appear for examinations of the remaining subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat. If the imposter is an outsider, he will be handed over to the police and a case is registered against him.
4.	Smuggles in the Answer book or additional sheet or takes out or arranges to send out the question paper during the examination or answer book or additional sheet, during or after the examination.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
5.	Uses objectionable, abusive or offensive language in the answer paper or in letters to the examiners or writes to the examiner requesting him to award pass marks.	Cancellation of the performance in that subject.
6.	Refuses to obey the orders of the Chief Superintendent/Assistant – Superintendent / any officer on duty or misbehaves or creates disturbance of any kind in and around the examination hall or organizes a walk out or instigates others to walk out, or threatens the officer-in charge or any person on duty in or outside the examination hall of any injury to his person or to any of his relations whether by	In case of students of the college, they shall be expelled from examination halls and cancellation of their performance in that subject and all other subjects the candidate(s) has (have) already appeared and shall not be permitted to appear for the remaining examinations of the subjects of that semester/year. The candidates also are debarred and forfeit their seats. In case of outsiders, they will be handed over to the police and a police case is registered against them.

R-20 B.Tech. Academic Regulations

	words, either spoken or written or by signs or by visible representation, assaults the officer-in-charge, or any person on duty in or outside the examination hall or any of his relations, or indulges in any other act of misconduct or mischief which result in damage to or destruction of property in the examination hall or any part of the College campus or engages in any other act which in the opinion of the officer on duty amounts to use of unfair means or misconduct or has the tendency to disrupt the orderly conduct of the examination.	
7.	Leaves the exam hall taking away answer script or intentionally tears the script or any part thereof insideor outside the examination hall.	Expulsion from the examination hall and cancellation of performance in that subject and all the other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred for two consecutive semesters from class work and all examinations. The continuation of the course by the candidate is subject to the academic regulations in connection with forfeiture of seat.
8.	Possess any lethal weapon or firearm in the examination hall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat.
9.	If student of the college, who is not a candidate for the particular examination or any person not connected with the college indulges in any malpractice or improper conduct mentioned in clause 6 to 8.	Student of the colleges expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year. The candidate is also debarred and forfeits the seat. Person(s) who do not belong to the College will be handed over to police and, a police case will be registered against them.
10.	Comes in a drunken condition to the examinationhall.	Expulsion from the examination hall and cancellation of the performance in that subject and all other subjects the candidate has already appeared including practical examinations and project work and shall not be permitted for the remaining examinations of the subjects of that semester/year.
11.	Copying detected on the basis of internal evidence, such as, during valuation or during special scrutiny.	Cancellation of the performance in that subject and all other subjects the candidate has appeared including practical examinations and project work of that semester/yearexaminations.
12.	If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the Committee appointed by the Principal for further action and impose suitable punishment.	

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Ragging

Prohibition of ragging in educational institutions Act 26 of 1997

Salient Features

- Ragging within or outside any educational institution is prohibited.

- Ragging means doing an act which causes or is likely to cause Insult or Annoyance of Fear or Apprehension or Threat or Intimidation or outrage of modesty or Injury to a student.

	Imprisonment upto		Fine Upto
Teasing, Embarrassing and Humiliation	6 Months	+	Rs. 1,000/-
Assaulting or Using Criminal force or Criminal intimidation	1 Year	+	Rs. 2,000/-
Wrongfully restraining or confining or causing	2 Years	+	Rs. 5,000/-
Causing grievous hurt, kidnapping or Abducts or rape or committing unnatural offence	5 Years	+	Rs. 10,000/-
Causing death or abetting suicide	10 Months	+	Rs. 50,000/-

Ragging

ABSOLUTELY
NO TO RAGGING

1. Ragging is prohibited as per Act 26 of A.P. Legislative Assembly, 1997.

2. Ragging entails heavy fines and/or imprisonment.

3. Ragging invokes suspension and dismissal from the College.

4. Outsiders are prohibited from entering the College and Hostel without permission.

5. Girl students must be in their hostel rooms by 7.00 p.m.

6. All the students must carry their Identity Cards and show them when demanded

7. The Principal and the Wardens may visit the Hostels and inspect the rooms any time.