

GVP COLLEGE OF ENGINEERING
(Autonomous)

Affiliated to JNTU Kakinada

Accredited by **NBA & NAAC** with **A 3.47/4.00**

Madhurawada, Visakhapatnam-530 048



Draft Regulations under Autonomous status
For B.Tech Four-year Degree Course
w.e.f the academic year 2009-10.

R 1.0 Qualification for Admission and duration.

- R1.1 The selection for category A and B seats shall be as per Govt. of Andhra Pradesh rules.
- R1.2 The duration of the programme for the Degree of Bachelor of Technology will be four academic years, with two semesters in each year. However if a student cannot complete within 4 years, he can do so by taking more time but not more than 8 years.
- R1.3 The duration of each semester will normally be 20 weeks with 5 working days a week. A working day will have 7 periods each of 50 minutes.

R 2.0 Structure of the Programme

Semester	No.of Courses per semester	Credits
	Theory + Lab	
I	5 + 3	26
II	5 + 3	26
III	6 + 2	28
IV	6 + 2	28
V	6 + 2	28
VI	6 + 1+Advanced English Communication skills Lab	28
	Mini Project	02
VII	6 + 2	28
VIII	3 + Seminar + Comprehensive Viva +Project	30
Total		224

Note: Except elective subjects in VII, VIII semesters all courses are compulsory.

- a) The curriculum in the first and second semesters shall be common for all the B.Tech. programmes except for Departmental options.
- b) Each course is normally assigned a certain number of credits as follows:
- 1 credit per lecture period per week and no credits for tutorials
 - 2 credits per laboratory class of 3 periods per week
 - 2 credits for Mini Project
 - 2 credits for Seminar with 3 periods per week
 - 4 credits for comprehensive viva-voce examination
 - 12 credits for project work
- c) The curriculum for any programme of study shall have a total of 224 credits out of which a minimum of 216 credits are required to be obtained by a student for the award of B.Tech degree. The default of 8 credits is permitted only from the electives in VII and VIII semesters.

d) Participation in extra- and co-curricular activities like Sports, Social Service, Cultural and Literary associations is compulsory for all the students as and when they are planned.

- i) A student has to record a participation of minimum of 32 hours per semester in his/her chosen activity during the first year.
- ii) The activities are monitored and grades awarded as given below:

EXCELLENT
GOOD
SATISFACTORY
UNSATISFACTORY

If a candidate gets an unsatisfactory Grade, he/she has to repeat the above activity in the subsequent years to get a satisfactory grade.

R 3.0 Method of Evaluation:

The performance of a student in each semester shall be evaluated subject-wise with a maximum of 100 marks each for theory and practical/Drawing subjects. In addition, Industry oriented mini-project, seminar, Comprehensive Viva-Voce and Project work shall be evaluated for 50, 50, 100 and 200 marks respectively.

R 3.1 Theory:

For all lecture based theory courses, evaluation will be for 40 marks through internal evaluation and 60 marks through external end-semester examination of three hours duration.

R 3.1 a. Internal evaluation:

The internal marks shall be computed as per the procedure given below as the weighted average of the two Internal evaluations at 2:1, with the higher score carrying a weightage of 2.

The 40 internal marks are divided as 20+10+10.

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|-------------------------|----------|
| 1. Quiz/essay type test | 20 marks |
| 2. Assignment/tutorial | 10 marks |
| 3. Seminar/Viva | 10 marks |
| Any other method | |

R 3.1 b. External evaluation:

The question paper shall be set externally and valued both internally and externally as per the scheme given by the paper setter. In case of the difference between the two valuations is less than 15% of the maximum marks of the paper, higher of the two valuations shall be considered and if the difference is more than 15%, average of the two valuations shall be considered.

R 3.2 Practicals:

Practicals/drawing shall be evaluated for 100 marks, out of which 50 marks are for external examination and 50 marks are for internal evaluation. The 50 internal marks are distributed as 25 for day to day work and 25 marks for internal end-examination. The internal end-examination shall be conducted by the teacher concerned and another faculty member of the same department.

10 out of 12 to 16 experiments recommended are to be completed in a semester.

R 3.3 Industry Oriented Mini Project:

The industry oriented mini project shall be carried out during the summer break for a minimum of 4 weeks after the VI Semester and completed before the start of the VII semester. A report has to be submitted at the beginning of the VII semester for assessment by an internal evaluation committee comprising Head of the Department and two faculty of the department including the project Supervisor for 50 marks. A minimum of 50% of marks shall be obtained to earn the corresponding credits.

R 3.4 Seminar:

The seminar shall have two components, one chosen by the student from the course-work without repetition and approved by the faculty Supervisor. The other component is suggested by the Supervisor can be a reproduction of the concept in any standard research paper or an extension of concept from earlier course work. A hard copy of the information on Seminar topic in the form of a report is to be submitted for evaluation along with presentation. The presentation of the seminar topics shall be made before a committee comprising the Head of the Department, seminar supervisor and a senior faculty of the department. The two components of the seminar are distributed between two halves of the semester and are evaluated for 50 marks each. The average of the two components shall be taken as the final score. A minimum of 50% of marks shall be obtained to earn the corresponding credits.

R 3.5 Comprehensive Viva-Voce:

The comprehensive Viva-Voce will be conducted by a committee comprising Head of the Department, two senior faculty of the respective department and an External Examiner from outside the College. This is aimed at assessing the student's understanding of various subjects studied during the entire program. Comprehensive Viva-Voce shall be evaluated for 100 marks internally at the end of VIII semester. A minimum of 50% of marks shall be obtained to earn the corresponding credits.

R 4.0 Project:

The Project work shall be spread over the entire VIII Semester and of something innovative in nature, exploring the research bent of mind of the student. A project batch shall comprise of not more than four students. A mid-course review is conducted by HOD and the Supervisor on the

progress for 20% of the marks. On completion of the project a second evaluation is conducted for award of internal marks of another 20% before the report is submitted making the total internal marks 40%. The final evaluation shall be based on the report submitted and a viva-voce exam for 60% marks by an external examiner.

R 5.0 Attendance Requirements:

It is desirable for a candidate to put up 100% attendance in the class in all the subjects. However, a candidate shall be permitted to appear for the end semester examination provided he records a minimum of 75% attendance for each subject in any semester. However, condonation for shortage of attendance may be given on Medical grounds, if a certificate to the extent is submitted to the HOD when the candidate first returns to the classes. Certificates submitted afterwards shall not be entertained on any count. A condonation fee as fixed by the college for those who put in attendance between 65 and 74 per cent shall be charged before the student is permitted to the end -examination.

Attendance may also be condoned for those who participate in prestigious sports, co- and extra-curricular activities provided their attendance is in the minimum prescribed range for the purpose and recommended by the concerned authority.

Attendance will be indicated in the marks memo by a letter code as follows:

Grading of Attendance:

90% and above	A (Very Good)
75% to 89%	B (Good)
65% to 74%	C (Condoned)
Below 65%	D (Detained)

A student who gets less than 65% (D Grade) attendance in a maximum of two courses in any semester shall not be permitted to take the end- semester examination in which he/she falls short. His/her registration for those courses will be treated as cancelled. The student should re-register and repeat those courses as and when offered next.

If a student gets D grade in more than two courses in any semester he/she shall be detained and has to repeat the entire semester.

R 6.0 Minimum Academic Requirement:

The following academic requirements shall be met along with the attendance requirements mentioned above.

- i. A student shall acquire at least C grade in attendance to be eligible to appear for the end-semester examination in the concerned subject.
- ii. A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each theory, if he secures not less than 35% of marks in

external end-examination, and a minimum of 40% of marks on the aggregate of internal evaluation and external examination taken together.

- iii. In case of practical / Drawing / project / seminar, a student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to each of them if he/she secures not less than 50% of marks on the aggregate in the internal evaluation and external end-examination taken together.
- iv. A student shall be promoted from IV to V semester only if he fulfills the academic requirement of 48 credits from the examinations held up to end of II semester including supplementary examination.
- v. A student shall be promoted from VI to VII semester, only if he fulfills the academic requirements of total 100 credits out of which all 52 from first year shall be completed, from the examinations held up to IV semester including supplementary examination.
- vi. Student shall register and put up minimum attendance in all 224 credits and earn 216 credits or more. Marks obtained in the best 216 out of 224 credits shall be considered for the award of Percentage/Class/Division.
- vii. Students who fail to earn 216 credits as indicated in the course structure including compulsory subjects as indicated in table given in R2.0 within eight academic years from the year of their admission shall forfeit their seat and their admission stands cancelled.

R 7.0 Summer program for defaulters:

A summer term course is open only to those students who had taken the course earlier and failed to fulfill the attendance and/or academic requirements in the earlier semesters for promotion to the next academic year.

Summer term courses shall be announced at the end of the even semester before the commencement of the end-semester examinations. The announcement of subjects offered for the summer programme is at the discretion of the Principal. A student shall have to register within the time stipulated in the announcement by paying the prescribed fee.

The number of total contact hours and method of evaluation for any summer program shall be the same as those for a regular semester.

No student can register for more than two courses during a summer term.

Withdrawal from a summer program after registration will not entitle for any refund of fees.

Supplementary examinations for the odd semester shall be conducted with the regular examinations of even semester and vice versa, for those who failed in regular examinations but eligible for promotion.

R 8.0 Class/Division

70% and above	: First Class with distinction
60% and above, but less than 70%	: First Class
50% and above, but less than 60%	: Second Class.
Less than 50%	: Fail

**** A candidate shall get an aggregate of 50% overall at the end of VIII semester while fulfilling a minimum of 216 credits for the award of B.Tech degree. The best 216 out of 224 credits shall be considered for the award of class/division.***

R 9.0 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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Programmes of Study and Intake

I. U.G.PROGRAMMES:

Courses	Intake
Chemical Engineering	60
Civil Engineering	120
Computer Science & Engineering	120
Electrical and Electronics Engineering	120
Electronics and Communication Engineering	120
Information Technology	90
Mechanical Engineering	60

II. P.G.PROGRAMMES:

Courses	Intake
i) M.TECH	
Chemical Engineering	18
Computer science and Engineering	18
CAD/CAM	18
Infrastructural Engg. & Mgmt. in Civil Engg.	18
Power systems and controls	18
Software Engineering	18
ii) M.C.A	60