# SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING & TECHNOLOGY, PUTTUR

**(AUTONOMOUS)**

**(Approved by AICTE | Accredited by NAAC | Affiliated to JNTUA)**

**R.V.S Nagar, Puttur, Chittoor Dist - 524101, A.P (India)**


## OUTCOME BASED EDUCATION
## WITH
## CHOICE BASED CREDIT SYSTEM

## BACHELOR OF TECHNOLOGY

## ACADEMIC REGULATIONS
## UNDER AUTONOMOUS STATUS

**B.Tech Regular Four Year Degree Programme**

**(for the batches admitted from the academic year 2020 - 2021)**

**&**

**B.Tech (Lateral Entry Scheme)**

**(for the batches admitted from the academic year 2021 - 2022)**

**FAILURE TO READ AND UNDERSTAND THE REGULATIONS**

**IS NOT AN EXCUSE**

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# VISION AND MISSION OF THE INSTITUTE

## VISION

To make Sri Venkatesa Perumal College of Engineering & Technology a centre for academic excellence where young innovative and inventive minds with novel ideas can interact to evolve new technologies relevant in meeting the societal needs and help rapid industrial growth with increased employment opportunities and changed life styles.

## MISSION

To provide the students with high-quality knowledge and skills and thorough practical exposure in hot areas of technology and engineering so that they develop all the competence and confidence to take on the technological challenges of tomorrow. To foster human values and all-round personality development in the student community so that they not only excel as practitioners and entrepreneurs, but also become useful and responsible members of the industry and society that they serve and lead.

## 1. PRELIMINARY DEFINITIONS AND NOMENCLATURES

**Academic Council**: The Academic Council is the highest academic body of the institute and is responsible for the maintenance of standards of instruction, education and examination within the institute. Academic Council is an authority as per UGC regulations and it has the right to take decisions on all academic matters including academic research.

**Academic Autonomy:** Means freedom to an institute in all aspects of conducting its academic programs, granted by UGC for Promoting Excellence.

**Academic Year:** It is the period necessary to complete an actual course of study within a year. It comprises two main semesters i.e., (one odd + one even) and one supplementary semester.

**AICTE:** Means All India Council for Technical Education, New Delhi.

**Autonomous Institute:** Means an institute designated as autonomous by University Grants Commission (UGC), New Delhi in concurrence with affiliating University (Jawaharlal Nehru Technological University, Ananthapuramu) and State Government.

**Backlog Course:** A course is considered to be a backlog course if the student has obtained a failure grade (F) in that course.

**Basic Sciences:** The courses offered in the areas of Mathematics, Physics, Chemistry, English etc., are considered to be foundational in nature.

**Betterment:** Betterment is a way that contributes towards improvement of the student's grade in any course(s). It can be done by either (a) re-appearing or (b) re-registering for the course.

**Board of Studies (BoS):** BoS is an authority as defined in UGC regulations, constituted by Head of the Organization for each of the departments separately. They are responsible for curriculum design and updation in respect of all the programs offered by a department.

**Branch:** Means specialization in a program like B.Tech degree program in Mechanical Engineering, B.Tech degree program in Computer Science and Engineering etc.

**Certificate Course:** It is a course that makes a student gain hands-on expertise and skills required for holistic development in a specific area/field.

**Choice Based Credit System:** The credit based semester system is one which provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching along with provision of choice for the student in the course selection.

**Compulsory course:** Course required to be undertaken for the award of the degree as per the program.

**Commission:** Means University Grants Commission (UGC), New Delhi.

**Continuous Internal Assessment (CIA):** It is an examination conducted towards sessional assessment.

**Course:** A course is a subject offered by a department for learning in a particular semester.

**Course Outcomes:** The essential skills that need to be acquired by every student through a course.

**Credit:** A credit is a unit that gives weight to the value, level or time requirements of an academic course. The number of 'Contact Hours' in a week of a particular course determines its credit value. One credit is equivalent to one lecture/tutorial hour per week.

**Credit point:** It is the product of grade point and number of credits for a course.

**Cumulative Grade Point Average (CGPA):** It is a measure of cumulative performance of a student over all the completed semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

**Curriculum:** Curriculum incorporates the planned interaction of students with instructional content, materials, resources, and processes for evaluating the attainment of Program Educational Objectives.

**Department:** An academic entity that conducts relevant curricular and co-curricular activities, involving both teaching and non-teaching staff and other resources in the process of study for a degree.

**Dropping from the Semester:** A student who doesn't want to register for any semester can apply in writing in prescribed format before commencement of that semester.

**Elective Course:** A course that can be chosen from a set of courses. An elective can be Professional Elective and/or Open Elective.

**Evaluation:** Evaluation is the process of judging the academic performance of the student in her/his courses. It is done through a combination of continuous internal assessment and semester end examinations.

**Grade:** It is an index of the performance of the students in a said course. Grades are indicated by alphabets.

**Grade Point:** It is a numerical weight allotted to each letter grade on a 10 - point scale.

**Institute:** Means SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING & TECHNOLOGY, Puttur, Chittoor Dist, Andhra Pradesh unless indicated otherwise by the context.

**Massive Open Online Course (MOOC):** MOOC courses inculcate the habit of self learning. MOOC courses would be additional choices in all the elective group courses.

**Pre-requisite:** A course, the knowledge of which is required for registration into higher level course.

**Core:** The courses that are essential constituents of each engineering discipline are categorized as professional core courses for that discipline.

**Professional Elective:** It indicates a course that is discipline centric. An appropriate choice of minimum number of such electives as specified in the program will lead to a degree with specialization.

**Program:** Means, Bachelor of Technology (B.Tech) degree program / PG degree program: Master of Technology (M.Tech) / Master of Business Administration (MBA) / Master of Computer Applications (MCA).

**Program Educational Objectives:** The broad career, professional and personal goals that every student will achieve through a strategic and sequential action plan.

**Project work:** It is a design or research based work to be taken up by a student during his/her final year to achieve a particular aim. It is a credit based course and is to be planned carefully by the student.

**Re-Appearing:** A student can reappear only in the semester end examination for the theory component of a course, subject to the regulations contained herein.

**Registration:** Process of enrolling into a set of courses in a semester of a Program.

**Regulations:** The regulations, common to all B.Tech programs offered by Institute are designated as "SVPCET Regulations R20" and are binding on all the stakeholders.

**Semester:** It is a period of study consisting of 15 to 18 weeks of academic work equivalent to normally 90 working days. The odd Semester starts usually in July and even semester in December.

**Semester End Examinations (SEE):** It is an examination conducted for all courses offered in a semester at the end of the semester.

**S/he:** Means "she" and "he" both.

**Student Outcomes:** The essential skill sets that need to be acquired by every student during her/his program of study. These skill sets are in the areas of employability, entrepreneurial, social and behavioral.

**University:** Means the Jawaharlal Nehru Technological University Anantapur, Ananthapuramu.

# 2. FOREWORD

The autonomy is conferred to SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING & TECHNOLOGY, (SVPCET) Puttur, Chittoor Dist, Andhra Pradesh by University Grants Commission (UGC), New Delhi based on its performance as well as future commitment and competency to impart quality education. It is a mark of its ability to function independently in accordance with the set norms of the monitoring bodies like J N T University Anantapur (JNTUA), Ananthapuramu and AICTE. It reflects the confidence of the affiliating University in the autonomous institution to uphold and maintain standards it expects to deliver on its own behalf and thus awards degrees on behalf of the college. Thus, an autonomous institution is given the freedom to have its own curriculum, examination system and monitoring mechanism, independent of the affiliating University but under its observance.

SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING & TECHNOLOGY is proud to win the credence of all the above bodies monitoring the quality in education and has gladly accepted the responsibility of sustaining, if not improving upon the standards and ethics for which it has been striving for more than a decade in reaching its present standing in the arena of contemporary technical education. As a follow up, statutory bodies like Academic Council and Boards of Studies are constituted with the guidance of the Governing Body of the institute and recommendations of the JNTUA to frame the regulations, course structure and syllabi under autonomous status.

The autonomous regulations, course structure and syllabi have been prepared after prolonged and detailed interaction with several expertise solicited from academics, industry and research, in accordance with the vision and mission of the institute to order to produce a quality engineering graduate to the society.

All the faculty, parents and students are requested to go through all the rules and regulations carefully. Any clarifications needed are to be sought at appropriate time and with principal of the college, without presumptions, to avoid unwanted subsequent inconveniences and embarrassments. The Cooperation of all the stake holders is sought for the successful implementation of the autonomous system in the larger interests of the college and brighter prospects of engineering graduates.

**PRINCIPAL**

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## ACADEMIC REGULATIONS

**B.Tech. Regular Four Year Degree Programme**
**(For the batches admitted from the academic year 2020 - 21)**
**&**
**B.Tech. (Lateral Entry Scheme)**
**(For the batches admitted from the academic year 2021 - 22)**

For pursuing four year undergraduate Bachelor Degree programme of study in Engineering (B.Tech) offered by SRI VENKATESA PERUMAL COLLEGE OF ENGINEERING & TECHNOLOGY under Autonomous status and herein after referred to as SVPCET(A).

### 3. CHOICE BASED CREDIT SYSTEM

The Indian Higher Education Institutions (HEI's) are changing from the conventional course structure to Choice Based Credit System (CBCS) along with introduction to semester system at first year itself. The semester system helps in accelerating the teaching-learning process and enables vertical and horizontal mobility in learning.

The credit based semester system provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching. The choice based credit system provides a 'cafeteria' type approach in which the students can take courses of their choice, learn at their own pace, undergo additional courses and acquire more than the required credits, and adopt an interdisciplinary approach to learning.

Choice Based Credit System (CBCS) is a flexible system of learning and provides choice for students to select from the prescribed elective courses. A course defines learning objectives and learning outcomes and comprises of lectures / tutorials / laboratory work / field work / project work / comprehensive Examination / seminars / assignments / alternative assessment tools / presentations / self-study etc. or a combination of some of these.

Under the CBCS, the requirement for awarding a degree is prescribed in terms of number of credits to be completed by the students.

The CBCS permits students to:

- Choose electives from a wide range of elective courses offered by the departments.
- Undergo additional courses of interest.
- Adopt an interdisciplinary approach in learning.
- Make the best use of expertise of the available faculty.

## 4. ELIGIBILITY FOR ADMISSION

The total seats available as per the approved intake are grouped into two categories viz. category A and Category B with a ratio of 70:30 as per the state government guidelines vide G.O No.52.

The admissions for category A and B seats shall be as per the guidelines of Andhra Pradesh State Council for Higher Education (APSCHE) in consonance with government reservation policy.

- Under Category A: 70% of the seats are filled through EAMCET counseling.
- Under Category B: 30% seats are filled based on 10+2 merits in compliance with guidelines of APSCHE.

Admission eligibility-Under Lateral Entry Scheme Students with diploma qualification have an option of direct admission into II year B. Tech. (Lateral entry scheme). Under this scheme 10% seats of sanctioned intake will be available in each course as supernumerary seats. Admissions to this three year B Tech later entry Programme will be through ECET. The maximum period to complete B. Tech. under lateral entry scheme is six consecutive academic years from the date of joining.

## 3.0 DURATION OF PROGRAMME

The course duration for the award of the Degree in **Bachelor of Technology** will be four academic years, with two semesters in each year. However if a student is unable to complete the course within 4 years, he/ she can do so by giving more attempts but within 8 consecutive academic years from the date of admission.

**Academic Calendar**

For all the eight semesters a common academic calendar shall be followed in each semester by having sixteen weeks of instruction, one week for the conduct of practical exams and with two weeks for theory examinations and evaluation. Dates for registration, sessional and end semester examinations shall be notified in the academic calendar of every semester. The schedule for the conduct of all the curricular and co-curricular activities shall be notified in the planner.

## MEDIUM OF INSTRCTION

The medium of instruction shall be English for all courses, examinations, seminar presentations and project work. The curriculum will comprise courses of study as given in course structure, in accordance with the prescribed syllabi.

## BRANCHES OF STUDY

- Civil Engineering (CE)
- Electrical & Electronics Engineering (EEE)
- Mechanical Engineering (ME)
- Electronics & Communication Engineering (ECE)
- Computer Science & Engineering (CSE)

## TYPES OF COURSES

### Basic Science Course:

Basic Science courses are the courses based upon the content leads to enhancement of skill and knowledge as well as value based and are aimed at man making education. Skill subjects are those areas in which one needs to develop a set of skills to learn anything at all. They are basics to learning any subject.

### Professional Core Course:

There may be a core course in every semester. This is the course which is to be compulsorily studied by a student as a core requirement to complete the requirement of a programme in a said discipline of study.

### Professional Elective Course:

Professional Electives provide breadth of experience in respective branch and applications areas. Professional Elective course is a course which can be chosen from a pool of courses. It may be:

- Supportive to the discipline of study
- Providing an expanded scope
- Enabling an exposure to some other discipline/domain
- Nurturing student's proficiency/skill.

An elective may be discipline centric (Professional Elective) focusing on those courses which add generic proficiency to the students or may be chosen from an unrelated discipline called as "Open Elective".

There are four professional elective groups; students can choose not more than two courses from each group. Overall, students can opt for four professional elective courses which suit their project work in consultation with the faculty advisor/mentor. Nevertheless, one course from each of the two open electives has to be selected.

### Open Elective Course:

Open elective course by other department students will have learning awareness and job oriented benefits. Students require the opportunity to choose any open elective course from different departments and apply their knowledge to acquire jobs in that field of course. Learning and employment benefits are not only through their own course subjects but also through open elective courses.

### Mandatory Course:

For mandatory courses like Induction Training, Environmental Sciences, Indian Constitution, Essence of Indian Traditional Knowledge, a student has to secure 16 marks out of 40 marks (i.e 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. For **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.

No marks or letter grade shall be allotted for all mandatory/non-credit courses

## NCC / NSS Activities:

NSS/NCC training is compulsory for all the Undergraduate students. The activities shall be beyond class hours. The student participation shall be for a minimum period of 45 hours during the first year. Grades will be awarded as Very good, Good, Satisfactory in the mark sheet on the basis of participation, attendance, performance and behavior. If a student gets an Unsatisfactory grade, he/she has to repeat the above activity in the subsequent years, along with the first-year students.

## SEMESTER STRUCTURE

Each academic year is divided into two semesters, TWO being MAIN SEMESTERS (one odd + one even). Main Semesters are for regular class work. However, the following cases are exempted:

Students admitted on transfer from JNTUA affiliated institutes, Universities and other institutes in the subjects in which they are required to earn credits so as to be on par with regular students as prescribed by concerned 'Board of Studies'.

Each main semester shall be of 21 weeks (Table 1) duration and this period includes time for registration of courses, course work, examination preparation and conduct of examinations.

Each main semester shall have a minimum of 90 working days; out of which number of contact days for teaching / practical are 75 and 15 days for conduct of exams and preparation.

The academic calendar shown in Table 1 is declared at the beginning of the academic year.

**Table 1: Academic Calendar**

| | | | |
|---|---|---|---|
| **FIRST SEMESTER (21 weeks)** | I Spell Instruction Period | 8 weeks | 19 weeks |
| | I Mid Examinations | 1 week | |
| | II Spell Instruction Period | 8 weeks | |
| | II Mid Examinations | 1 week | |
| | Preparation and Practical Examinations | 1 week | |
| | Semester End Examinations | | 2 weeks |
| **Semester Break and Supplementary Examinations** | | | 2 weeks |
| **SECOND SEMESTER (21 weeks)** | I Spell Instruction Period | 8 weeks | 19 weeks |
| | I Mid Examinations | 1 week | |
| | II Spell Instruction Period | 8 weeks | |
| | II Mid Examinations | 1 week | |
| | Preparation & Practical Examinations | 1 week | |
| | Semester End Examinations | | 2 weeks |
| **Summer Vacation and Supplementary Examinations** | | | 8 weeks |

## REGISTRATION

Each student has to compulsorily register for course work at the beginning of each semester as per the schedule mentioned in the Academic Calendar. It is absolutely compulsory for the student to register for courses in time. The registration will be organized departmentally under the supervision of the Head of the Department.

IN ABSENTIA registration will not be permitted under any circumstance.

At the time of registration, students should have cleared all the dues of Institute and Hostel in the previous semesters, paid the prescribed fees for the current semester and not involve in any in-disciplinary activities.

## UNIQUE COURSE IDENTIFICATION CODE

Every course of the B.Tech program will be placed in one of the four groups of courses as listed in the Table 2. The various courses and their two-letter codes are given below,

**Table 2: Group of Courses**

| S. No | Branch | Code |
|---|---|---|
| 1 | Civil Engineering | 01 |
| 2 | Electrical & Electronics Engineering | 02 |
| 3 | Mechanical Engineering | 03 |
| 4 | Electronics & Communication Engineering | 04 |
| 5 | Computer Science & Engineering | 05 |

## CURRICULUM AND COURSE STRUCTURE

The curriculum shall comprise Foundation / Skill Courses, Core Courses, Elective Courses, Open Electives, Laboratory Courses, Skill Oriented Courses, Summer Internship, Comprehensive Viva Voce, Project work, Seminar & Full Semester Internship in Industry, Induction Program and Mandatory Courses.

**Contact Periods:** Depending on the complexity and volume of the course, the number of contact periods per week will be assigned. Each Theory and Laboratory course carries credits based on the number of hours/week as follows:

- Contact classes (Theory / Tutorial): 1 credit per lecture hour per week.
- Laboratory Hours (Practical): 0.5 credit for 1 Practical hour per week.
- Virtual Laboratory Hours (Practical): 0.5 credit for 1 Practical hour per week.
- Summer Internship : 1.5 credit
- Project Work, Seminar and Full Semester Internship(6 Months): 14 Credits
- MOOCS : 2 Credits
- Comprehensive Viva Voce : 1 Credit
- Mandatory Courses (MC) : Non Credit
- Induction Program : Non Credit

**Credit distribution for courses offered is shown in Table 3.**

**Table 3: Credit distribution**

| S. No | Course | Hours | Credits |
|---|---|---|---|
| 1 | Theory Course (Core/Foundation/Elective) | 3 | 3 |
| 2 | Professional Core Courses | 3 | 3 |
| 3 | Professional Elective Courses | 3 | 3 |
| 4 | Open Elective Courses | 3 | 3 |
| 5 | Engineering Science courses (Engineering Graphics/Engineering Drawing) | 1L+4P | 3 |
| 6 | Engineering Science courses | 3 | 3 |
| 7 | Laboratory Courses | 3 | 1.5 |
| 8 | Virtual Laboratory Courses | 3 | 1.5 |
| 9 | MOOC Courses | 0 | 2 |
| 10 | Skill Oriented Course / Certification Course | 1L+2P | 2 |
| 11 | Skill Advanced Course / Certification Course | 1L+2P | 2 |
| 12 | Soft Skill Course / Certification Course | 1L+2P | 2 |
| 13 | Summer Internship (8 Weeks) | 0 | 1.5 |
| 14 | Comprehensive Viva Voce | 0 | 1 |
| 15 | Project Work, Seminar and Full Semester Internship in Industry (6 Months) | 0 | 14 |
| 16 | Mandatory Courses | 2 | 0 |
| 17 | Minor / Honors Degree Courses | 4 | 4 |

## Course Structure

Every program of study shall be designed to have 35 theory courses, 5 Skill Oriented / Certification Courses, Summer Internship, Comprehensive Viva Voce, 5 Mandatory Courses, 17 laboratory courses and 2 Virtual laboratory courses. Every course of the B.Tech program will be placed in one of the Nine categories with minimum credits as listed in the Table 4. In addition, a student has to carry out a Project Work, Full Semester Internship in Industry (6 Months)

**Table 4: Category Wise Distribution of Credits**

| S. No | Category | Subject Area and % of Credits | Average No. of Credits |
|---|---|---|---|
| 1 | Humanities and Social Sciences (HS), including Management. | HS (05% to 10%) | **10** |
| 2 | Basic Sciences (BS) including Mathematics, Physics and Chemistry. | BS (10% to 15%) | **21** |
| 3 | Engineering Sciences (ES), including Workshop, Drawing, Basics of Electrical / Electronics / Mechanical / Computer Engineering. | ES (10% to 15%) | **24** |
| 4 | Professional Subjects - Core (PC), relevant to the chosen specialization/branch. | PC (30% to 40%) | **51** |
| 5 | Professional Subjects - Electives (PE), relevant to the chosen specialization/branch. | PE (5% to 10%) | **15** |
| 6 | Open Electives Subjects / MOOCs - Electives (OE), from other technical and/or emerging subject areas. | OE (5% to 10%) | **12** |
| 7 | Project Work, Full Semester Internship and Summer Internships | 5% to 10% | **17** |
| 8 | Skill Oriented Courses/Certificate Course | SO (2% to 3%) | **04** |
| 9 | Skill Advanced Courses / Certificate Course | SA (3% to 4%) | **06** |
| 10 | Mandatory Courses(Induction Program, NCC/NSS, Constitution of India, Environmental Science, Social Values and Professional Ethics) | MC (0%) | **0** |
| **TOTAL** | | | **160** |

## For Four year Regular Programme:

| Year/Sem | No. of Theory Courses | No. of Lab Courses | Total Credits |
|---|---|---|---|
| B.Tech I Semester | 2 Basic Science + 1 Humanities and Social Science + 2 Engineering Science | 1 Humanities and Social Science Lab + 1 Basic Science Lab + 1 Engineering Science Lab + Induction Training (MC) + NCC / NSS (MC) | 19.5 |
| B.Tech II Semester | 2 Basic Science + 3 Engineering Science | 2 Engineering Science Lab + 1 Basic Science Lab + Environmental Science(MC) | 19.5 |
| B.Tech III Semester | 1 Basic Science + 4 Professional Core | 2 Professional Core Lab + 1 Professional Core Virtual Lab + Skill Oriented Course + Constitution of India (MC) | 21.5 |
| B.Tech IV Semester | 3 Professional Core + 1 Engineering Science / Professional Core(Interdisciplinary) + Humanities and Social Science | Engineering Science / Professional Core(Interdisciplinary) Lab + 2 Professional Core Lab + Skill Oriented Course | 21.5 |
| B.Tech V Semester | 3 Professional Core + Open Elective/ Job Oriented Elective -I + Professional Elective – I | 2 Professional Core Lab + 1 Skill Advanced Course / Soft Skill Course + Summer Internship 2 Months after Second Year (To be Evaluated during V Semester) | 21.5 |
| B.Tech VI Semester | 3 Professional Core + Professional Elective - II + Open Elective/ Job Oriented Elective – II | 2 Professional Core Lab + 1 Professional Core Virtual Lab + 1 Skill Advanced Course / Soft Skill Course + Social Values and Professional Ethics(MC) | 21.5 |
| B.Tech VII Semester | 3 Professional Elective-III,IV,V + Open Elective/ Job Oriented Elective –III, IV | 2 Professional Core Lab + 1 Skill Advanced Course / Soft Skill Course + Comprehensive Viva Voce | 21 |
| B.Tech VIII Semester | Project Work , Seminar and Internship (6 Months) | | 14 |
| Total | 5 Basic Science + 2 Humanities and Social Sciences + 5 Engineering Science + 13 Professional Core + 1 Professional Core(Interdisciplinary) + 5 Professional Electives + 4 Open Electives / Job Oriented Electives + Project Work , Seminar and Internship (6 Months) | 1 Humanities and Social Sciences Lab + 2 Basic Science Lab + 3 Engineering Science Lab + 1 Engineering Science / Professional Core (Interdisciplinary) Lab + 10 Professional Core Lab + 2 Professional Core Virtual Lab + 2 Skill Oriented Course + 3 Skill Advanced Course / Soft Skill Course + Summer Internship + Comprehensive Viva Voce + Induction Training (MC) + Constitution of India (MC) + Environmental Science(MC) + Social Values and Professional Ethics(MC) + NCC/NSS (MC) | 160 |

## For Three year lateral entry programme :

| Year/Sem | No. of Theory Courses | No. of Lab Courses | Total Credits |
|---|---|---|---|
| B.Tech III Semester | 1 Basic Science + 4 Professional Core | 3 Professional Core Lab + 1 Professional Core Virtual Lab + Skill Oriented Course + Constitution of India (MC) | 21.5 |
| B.Tech IV Semester | 3 Professional Core + 1 Engineering Science / Professional Core(Interdisciplinary) + Humanities and Social Science | Engineering Science / Professional Core(Interdisciplinary) Lab + 2 Professional Core Lab + Skill Oriented Course | 21.5 |
| B.Tech V Semester | 3 Professional Core + Open Elective/ Job Oriented Elective -I + Professional Elective – I | 2 Professional Core Lab + 1 Skill Advanced Course / Soft Skill Course + Summer Internship 2 Months after Second Year (To be Evaluated during V Semester) + Environmental Science(MC) | 21.5 |
| B.Tech VI Semester | 3 Professional Core + Professional Elective - II + 1Open Elective/ Job Oriented Elective – II | 2 Professional Core Lab + 1 Professional Core Virtual Lab + 1 Skill Advanced Course / Soft Skill Course + Social Values and Professional Ethics(MC) | 21.5 |
| B.Tech VII Semester | 3 Professional Elective-III,IV,V + Open Elective/ Job Oriented Elective –III, IV | 2 Professional Core + 1 Skill Advanced Course / Soft Skill Course + Comprehensive Viva Voce | 21 |
| B.Tech VIII Semester | Project Work , Seminar and Internship (6 Months) | | 14 |
| Total | 1 Basic Science + 1 Humanities and Social Sciences + 13 Professional Core + 1 Professional Core(Interdisciplinary) + 5 Professional Electives + 4 Open Electives / Job Oriented Electives + Project Work , Seminar and Internship (6 Months) | 1 Engineering Science / Professional Core(Interdisciplinary) Lab + 10 Professional Core Lab + 2 Professional Core Virtual Lab + 2 Skill Oriented Course + 3 Skill Advanced Course / Soft Skill Course + Summer Internship + Comprehensive Viva Voce + Constitution of India (MC) + Environmental Science (MC) + Social Values and Professional Ethics (MC) | 121 |

## Course wise break-up for Regular Program:

| | | |
|---|---|---|
| **Total Theory Courses - 35**<br>(5 Basic Science + 2 Humanities and Social Sciences + 5 Engineering Science + 13 Professional Core + 1 Professional Core(Interdisciplinary) + 5 Professional Electives + 4 Open Electives / Job Oriented Electives) | 35 @ 3credits each | 105 |
| Laboratory Courses –19<br>(2 Basic Science Lab + 1 Humanities and Social Sceines Lab + 3 Engineering Science Lab + 1 Engineering Science / Professional Core(Interdisciplinary) Lab + 10 Professional Core Lab + 2 Professional Core Virtual Lab) | 19 @ 1.5 credits each | 28.5 |
| Summer Internship | 1 @ 1.5 credit | 1.5 |
| Comprehensive Viva Voce | 1 @ 1 credit | 01 |
| Skill Oriented Courses / Certification Courses - 2 | 2 @ 2credits each | 04 |
| Skill Advanced Courses / Soft Skill Courses / Certification Courses - 3 | 3 @ 2 credit | 06 |
| Project Work, Seminar and Full Semester Internship in Industry (6 Months) | 1 @ 14 credits | 14 |
| Mandatory Course | 5 @ 0 credits | 0 |
| **Total Credits** | | **160** |

## Course wise break-up for three year lateral entry program:

| | | |
|---|---|---|
| **Total Theory Courses - 25**<br>(1 Basic Science + 1 Humanities and Social Sciences + 13 Professional Core + 1 Professional Core(Interdisciplinary) + 5 Professional Electives + 4 Open Electives / Job Oriented Electives) | 25 @ 3credits each | 75 |
| Laboratory Courses –13<br>(1 Engineering Science / Professional Core(Interdisciplinary) Lab + 10 Professional Core Lab + 2 Professional Core Virtual Lab) | 13 @ 1.5 credits each | 19.5 |
| Summer Internship | 1 @ 1.5 credit | 1.5 |
| Comprehensive Viva Voce | 1 @ 1 credit | 01 |
| Skill Oriented Courses / Certification Courses - 2 | 2 @ 2credits each | 04 |
| Skill Advanced Courses / Soft Skill Courses / Certification Courses - 3 | 3 @ 2 credit | 06 |
| Project Work, Seminar and Full Semester Internship in Industry (6 Months) | 1 @ 14 credits | 14 |
| Mandatory Course | 4 @ 0 credits | 0 |
| **Total Credits** | | **121** |

## EVALUATION METHODOLOGY

The performance of a student in each semester shall be evaluated through Continuous Internal Assessment (CIA) and / or an Semester End Examination (SEE) conducted semester wise.

| S.No | Course | Marks | Examination and Evaluation | |
|---|---|---|---|---|
| 1 | Theory | 60 | Semester end examination of 3 hours duration (External Evaluation) | |
| | | 40 | 35 | Midterm Examination |
| | | | 05 | Assignment |
| 2 | Laboratory | 60 | Semester end Lab Examination for 3 hours duration (External Evaluation) | |
| | | 40 | 20 | Mid Term Examination |
| | | | 20 | Day to Day Evaluation |
| 3 | Summer Internship | 100 | Internal Evaluation | |
| 4 | Skill Oriented Courses / Skill Advanced Courses / Soft Skill Courses | 40 | 20 | Mid Term Examination |
| | | | 20 | Day to Day Evaluation |
| | | 60 | Semester End Evaluation | |
| 5 | MOOC | 100 | Upon the submission of graded certificate from authorized MOOCS provider | |
| 6 | Engineering Drawing | 40 | 30 | Mid Term Examination |
| | | | 10 | Day to Day Evaluation |
| | | 60 | Semester End Evaluation | |
| 7 | Comprehensive Viva Voce | 100 | Internal Evaluation | |
| 8 | Project Work, Seminar and Full Semester Internship (6 Months) | 60 | Internal Evaluation | |
| | | 140 | Semester End Evaluation | |
| 9 | Mandatory Course | - | - | |

### Theory Course:

The performance of a student in every theory course shall be evaluated for total of 100 marks each, of which the relative weightage for Continuous Internal Assessment and Semester End Examination shall be 40 marks and 60 marks respectively.

### Practical Course:

The performance of a student in every practical course shall be evaluated for total of 100 marks each, of which the relative weightage for Continuous Internal Assessment and Semester End Examination shall be 40 marks and 60 marks respectively.

### Internal Evaluation for Theory Course:

The total internal weightage for theory courses is 40 marks with the following distribution.

- 30 marks for Mid-Term Examination (Descriptive)
- 5 marks for Mid-Term Examination (Objective)
- 5 marks for Alternative Assessment Tool

While the first mid-term examination shall be conducted on the 50% of the syllabus (Unit-I, Unit-II & 50% of Unit-III), the second mid-term examination shall be conducted on the remaining 50% of the syllabus (50% of Unit III, Unit-IV & Unit-V).

Two midterm examinations each for **35 marks** with the duration of 90 minutes each will be conducted for every theory course in a semester. The midterm examination marks shall be awarded giving a weightage of 80% in the midterm examination in which the student scores better performance and 20% in the remaining midterm examination.
The final mid-term marks obtain by the addition of these two (80% + 20%).
**Example**: If a student scores 23 marks and 24 marks in the first and second mid-term examinations respectively, then Weighted Average Marks = 24 x 0.8 + 23 x 0.2 = 23.8, rounded to 24 Marks.
**Note**: The marks of any fraction shall be rounded off to the next higher mark.

**Alternative Assessment Tool (AAT):** In order to encourage innovative methods while delivering a course, the faculty members are encouraged to use the Alternative Assessment Tool (AAT). This AAT enables faculty to design own assessment patterns during the CIA. The AAT enhances the autonomy (freedom and flexibility) of individual faculty and enables them to create innovative pedagogical practices. If properly applied, the AAT converts the classroom into an effective learning centre. The AAT may include tutorial hours/classes, seminars, assignments, term paper, open ended experiments, **METE** (Modeling and Experimental Tools in Engineering), five minutes video, MOOCs etc.

However, it is mandatory for a faculty to obtain prior permission from the concerned HOD and spell out the teaching/assessment pattern of the AAT prior to commencement of the classes.

**Pattern of the Continuous Internal Assessment (CIA) question paper is as follows:**

- A total of two Sections (Descriptive & objective)
- Descriptive examination contains six questions are to be designed taking two questions from each unit (Unit wise – Either or type) of the three units (3X10=30 Marks)

- Objective examination consisting of 10 multiple choice questions per subject and are to be answered by choosing the correct answer from a given set of choices (commonly four). Each multiple choice questions carries 0.5 marks (10X0.5=05). Such a question paper shall be useful in testing of knowledge, skills, application, analysis, evaluation and understanding of the students for competitive examinations like GATE / IES / UPSC / PSU etc.,.

- For Drawing Day to Day assessment carries 10 marks and Mid examination for 30 marks

**Note:** A student who is absent for any CIA, for any reason whatsoever, shall be deemed to have scored zero marks in that CIA and no make-up test shall be conducted.

**Internal Evaluation for Practical Course:**

For practical subjects there shall be a Continuous Internal Evaluation during the semester for 40 internal marks. Out of the 40 marks for internal evaluation, day-to-day assessment in the laboratory shall be evaluated for 20 marks and internal practical examination shall be evaluated for 20 marks conducted by the laboratory teacher concerned.

**Virtual Laboratory Course**

Virtual Labs are intended to augment the learning of science and engineering subjects through performing experiments. The experiments are designed either as simulations or as remote triggered. A remote triggered lab allows a user to connect to real equipment using a web browser.

The students can choose these laboratories from standard available course providers with the help of concerned department faculty Coordinator/Mentor. The department should allocate the faculty to the virtual labs after selection like conventional laboratories to monitor and evaluate the students.

After completion, the details of the virtual labs shall be displayed in the certificate provided by the competent authorities (virtual lab provider) as a proof and submits the same to the department through concerned Coordinator/Mentor. The departmental committee will assess the students based on the number of experiments performed should submit lab record and certificate of completion by the student through mentor as a part of the course. The Lab work should not be less than 8 experiments. It carry maximum of 100 marks. The same submitted to the controller of examination to obtain grading in semester end examination mark memo.

### Internal Evaluation

For virtual practical subjects there shall be a Continuous Internal Evaluation during the semester for 40 internal marks. Out of the 40 marks for internal evaluation, 10 marks for lab record and 30 marks for Viva Voce conducted by the departmental committee.

### External Evaluation

60 marks are allotted for external evaluation based on the certificate provided by the lab provider.

A candidate shall be declared to have passed in virtual lab course if he secures a minimum of 40% aggregate marks (40 marks) (Internal & Semester External Examination marks put together), subject to a minimum of 35% marks (21marks) in the semester external examination.

## Internal Evaluation for Design/ Drawing Courses:

For the subject having design and/or drawing, (such as engineering graphics, engineering drawing, machine drawing, production drawing and building drawing) the internal marks distribution shall be 10 marks for day-to-day performance and 30 marks for Mid-Term Examinations.

### Skill Oriented / Skill Advanced / Soft Skill Courses:

- For skill oriented/skill advanced /Soft skill Course, one theory and 2 practical hours may be allotted or two theory hours may be adopted as per the decision of concerned BoS.
- From the five skill courses two shall be skill-oriented programs related to the domain and shall be completed in 2nd year. The remaining 3 skill courses, one shall be necessarily a soft skill course and the remaining 2 skill-advanced courses can be in the same domain or Job oriented skills which can be inter disciplinary. Model only, can be extended to other courses/departments.

**Skill, Job Oriented Tracks for Mechanical Engineering**

1. **Design/Analysis/Simulation** - CAD, UGNX, Solid Works, Ansys, FEA, CATIA, CREO etc
2. **Production/Manufacturing -** CAM, Piping, A/QC, CNC

3. **Thermal/Computational -** Computational Fluid Dynamics, MATLAB etc
4. **Service Sector -** Industrial Safety and Management, Operation Research, Oil & Gas safety.

**Skill, Job Oriented Tracks for Civil Engineering**

1. **Structural Design** - AutoCAD 2D 3D, ANSYS Civil, ETABS, PRO Steel, etc.
2. **Building Design -** Revit Architecture, ANSYS Civil, STAAD.PRO, AECO sim etc.

3. **Land survey and Transportation Design -** Surveying, 2D Drafting, 3D Modeling, Analysis, Road & Transport Design etc.

**Skill, Job Oriented Tracks for Computer Science &Engineering**

1. **Animation course** - VFX, CARTOONING, ANIMATION DESIGN etc
2. **Mobile app development -** App design for IOS and Android etc.
3. **Data Science -** Natural language processing, sentiment analysis, fore casting, regression models etc
4. **Python programming -** Deep learning, IOT natural language processing, Game Graphics Programming etc..

- A pool of interdisciplinary job-oriented skill courses shall be prepared by joint Board of studies and the syllabus along with the pre requisites shall be prepared for each of the requirements of laboratory infrastructure. The list of such courses shall be included in the curriculum of each branch of Engineering, so as to enable the student to choose from the list.
- The student shall be given an option to choose between the skill advanced courses being offered by the college or to choose a certificate course being offered by industries/Professional bodies/APSSDC or any other accredited bodies.
- The Board of studies of the concerned discipline of Engineering shall review the skill advanced courses being offered by eligible external agencies and prepare a fresh list every year incorporating latest skills based on industrial demand.
- The credits assigned to the skill advanced course shall be awarded to the student upon producing the certificate of skill from the agency/professional bodies as approved by the Board of studies.
- 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 concerned board of studies, the student is deemed to have fulfilled the attendance requirement of the course and acquire the credits assigned to the course.

**Evaluation Procedure**

Evaluation of the Skill oriented / Skill advanced / Soft skills / Certificate course shall be through the departmental committee. A student will be registered for the courses being offered by the department or interdisciplinary. The evaluation procedure is,

Internal Examination - 40 Marks (CIA Mode)
External Examination - 60 Marks (SEE Mode)

A student will be registered for the course being offered by industries / Professional bodies / APSSDC or any other accredited bodies. The Merit / Pass certificate obtained from the course is considered for 2 credits.

## Summer Internship

Summer Internship each of 8 weeks / 2 Months duration at the end of II B.Tech (i.e., IV Semester) are Mandatory with 2 credits. The internship can be done by the students at local industries, Govt. organizations, Constructional agencies, Industrial Estates, Hydel and Thermal Power plants and also in Software MNCs.

The internship after II year shall also be in the form of community service project as mentioned below,

**Community Service Project**

- Community Service Project is an experiential learning strategy that integrates meaningful community service with instruction, participation, learning and community development.
- Community Service Project involves students in community development and service activities and applies the experience to personal and academic development.
- Community Service Project is meant to link the community with the college for mutual benefit. The community will be benefited with the focused contribution of the college students for the village/ local development. The college finds an opportunity to develop social sensibility and responsibility among students and also emerge as a socially responsible institution.

**Objective:**

Community Service Project should be an integral part of the curriculum, as an alternative to the 2 months of Summer Internships / Apprenticeships / On 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 help students to realize the stark realities of the society.
- 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:**

- Every student should put in a minimum of **180 hours** for the Community Service Project during the summer vacation.
- Each class/section should be assigned with a mentor.
- Specific Departments could concentrate on their major areas of concern. For example, Dept. Of Computer Science can take up activities related to Computer Literacy to different sections of people like - youth, women, house-wives, etc.

- A log book has to be maintained by each of the student, where the activities undertaken/involved to be recorded.
- The log book has to be countersigned by the concerned mentor/faculty incharge.
- Evaluation to be done based on the active participation of the student and grade could be awarded by the mentor/faculty member.
- The final evaluation to be reflected in the grade memo of the student.
- The Community Service Project should be different from the regular programmes of NSS/NCC/Green Corps/Red Ribbon Club, etc.
- 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.
- Award of marks shall be made as per the guidelines of Internship/apprentice/ on the job training.

**Procedure:**

- A group of students or even a single student could be assigned for a particular habitation or village or municipal ward, as far as possible, in the near vicinity of their place of stay, so as to enable them to commute from their residence and return back by evening or so.
- The Community Service Project is a twofold one–First, the student/s could conduct a survey of the habitation, if necessary, in terms of their own domain or subject area. Or it can even be a general survey, incorporating all the different areas. A common survey format could be designed. This should not be viewed as a duplication of work by the Village or Ward volunteers; rather, it could be another primary source of data.
- Secondly, the student/s could take up a social activity, concerning their domain or subject area. The different areas, could be like –
    - Agriculture
    - Health
    - Marketing and Cooperation
    - Animal Husbandry
    - Horticulture
    - Fisheries
    - Sericulture
    - Revenue and Survey
    - Natural Disaster Management
    - Irrigation
    - Law & Order
    - Excise and Prohibition
    - Mines and Geology
    - Energy
    - Internet
    - Free Electricity
    - Drinking Water

**Suggestive List of Programmes Under Community Service Project:**

The following the recommended list of projects for Engineering students. The lists are not exhaustive and open for additions, deletions and modifications. Colleges are expected to focus on specific local issues for this kind of projects. The students are expected to carry out these projects with involvement, commitment, responsibility and accountability. The mentors of a group of students should take the responsibility of motivating, facilitating, and guiding the students. They have to interact with local leadership and people and appraise the objectives and benefits of this kind of projects. The project reports shall be placed in the college website for reference. Systematic, Factual, methodical and honest reporting shall be ensured.

**For Engineering Students**

1. Water facilities and drinking water availability
2. Health and hygiene
3. Stress levels and coping mechanisms
4. Health intervention programmes
5. Horticulture
6. Herbal plants
7. Botanical survey
8. Zoological survey
9. Marine products
10. Aqua culture
11. Inland fisheries
12. Animals and species
13. Nutrition
14. Traditional health care methods
15. Food habits
16. Air pollution
17. Water pollution
18. Plantation
19. Soil protection
20. Renewable energy
21. Plant diseases
22. Yoga awareness and practice
23. Health care awareness programmes and their impact
24. Use of chemicals on fruits and vegetables
25. Organic farming
26. Crop rotation
27. Floury culture
28. Access to safe drinking water
29. Geographical survey
30. Geological survey
31. Sericulture
32. Study of species
33. Food adulteration
34. Incidence of Diabetes and other chronic diseases
35. Human genetics
36. Blood groups and blood levels
37. Internet Usage in Villages

38. Android Phone usage by different people
39. Utilisation of free electricity to farmers and related issues
40. Gender ration in schooling level- observation.

**Complimenting the community service project the students may be involved to take up some awareness campaigns on social issues/special groups. The suggested list of programmes are;**

**Programmes for School Children:**

1. Reading Skill Programme (Reading Competition)
2. Preparation of Study Materials for the next class.
3. Personality / Leadership Development
4. Career Guidance for X class students
5. Screening Documentary and other educational films
6. Awareness Programme on Good Touch and Bad Touch (Sexual abuse)
7. Awareness Programme on Socially relevant themes.

**Programmes for Women Empowerment:**

1. Government Guidelines and Policy Guidelines
2. Women's Rights
3. Domestic Violence
4. Prevention and Control of Cancer
5. Promotion of Social Entrepreneurship

**General Camps:**

1. General Medical camps
2. Eye Camps
3. Dental Camps
4. Importance of protected drinking water
5. ODF awareness camp
6. Swatch Bharath
7. AIDS awareness camp
8. Anti Plastic Awareness
9. Programmes on Environment
10. Health and Hygiene
11. Hand wash programmes
12. Commemoration and Celebration of important days.

**Programmes for Youth Empowerment:**

1. Leadership
2. Anti-alcoholism and Drug addiction
3. Anti-tobacco
4. Awareness on Competitive Examinations
5. Personality Development

**Common Programmes:**

1. Awareness on RTI
2. Health intervention programmes
3. Yoga
4. Tree plantation
5. Programmes in consonance with the Govt. Departments like
    i. Agriculture
    ii. Health

iii. Marketing and Cooperation
iv. Animal Husbandry
v. Horticulture
vi. Fisheries
vii. Sericulture
viii. Revenue and Survey
ix. Natural Disaster Management
x. Irrigation
xi. Law & Order
xii. Excise and Prohibition
xiii. Mines and Geology
xiv. Energy

**Role of Students:**

- Students may not have the expertise to conduct all the programmes on their own. The students then can play a facilitator role.
- For conducting special camps like Health related, they will be coordinating with the Governmental agencies.
- As and when required the College faculty themselves act as Resource Persons.
- Students can work in close association with Non-Governmental Organizations like Lions Club, Rotary Club, etc or with any NGO actively working in that habitation.
- And also with the Governmental Departments. If the programme is rolled out, the District Administration could be roped in for the successful deployment of the programme.
- An in-house training and induction programme could be arranged for the faculty and participating students, to expose them to the methodology of Service Learning.

**Timeline for the Community Service Project Activity**
**Duration: 8 weeks**

**1. Preliminary Survey (One Week)**

- A preliminary survey including the socio-economic conditions of the allotted habitation to be conducted.
- A survey form based on the type of habitation to be prepared before visiting the habitation with the help of social sciences faculty. (However, a template could be designed for different habitations, rural/urban.
- The Governmental agencies, like revenue administration, corporation and municipal authorities and village secretariats could be aligned for the survey.

**2. Community Awareness Campaigns (Two Weeks)**

- Based on the survey and the specific requirements of the habitation, different awareness campaigns and programmes to be conducted, spread over two weeks of time. The list of activities suggested could be taken into consideration.

**3. Community Immersion Programme (Four Weeks)**

- **Along with the Community Awareness Programmes**, the student batch can also work with any one of the below listed governmental agencies and work in tandem with them. This community involvement programme will involve the students in exposing themselves to the experiential learning about the community and its dynamics. Programmes could be in consonance with the Govt. Departments.

**4. Community Exit Report (One Week)**

- During the last week of the Community Service Project, a detailed report of the outcome of the 8 weeks work to be drafted and a copy shall be submitted to the local administration. This report will be a basis for the next batch of students visiting that particular habitation. The same report submitted to the teacher-mentor will be evaluated by the mentor and suitable marks are awarded for onward submission to the University.
- Throughout the Community Service Project, a daily log-book need to be maintained by the students batch, which should be countersigned by the governmental agency representative and the teacher mentor, who is required to periodically visit the students and guide them.

### Evaluation of Summer Internship / Community Service Project:

Evaluation of the Summer Internship / Community Service Project shall be through the departmental committee. A student will be required to submit a detailed project report to the concerned department and appear for an oral presentation before the departmental committee.

- Day to day assessment log book - 20 Marks
- Internship / Project Report - 40Marks
- Presentation and Viva-Voce - 40 Marks

A minimum of 50% of maximum marks shall be obtained to earn the corresponding credits.

### Comprehensive Viva-Voce Assessment:

There shall be a Comprehensive Viva-Voce in VII Semester for 1 credit. The Comprehensive Viva–Voce is aimed to assess the students understanding in various subjects he studies during the B. Tech course of study. The Comprehensive Viva–Voce shall be evaluated for 100 marks by the committee. The Comprehensive Viva-Voce will be conducted by the committee consisting of Head of the Department and two senior faculty members of the department nominated by the Principal. There are no external marks for the Comprehensive Viva–Voce. A student shall acquire 1 credit assigned to the Comprehensive Viva–Voce only when he secures 50% marks. In case, if a student fails in Comprehensive Viva–Voce, he shall reappear as and when VII Semester supplementary examinations are conducted.

### Project Work, Seminar and Full Semester Internship at Industry (6 Months):

In the final semester, the student mandatorily undergo internship and parallelly he/she should work on a project with a well defined objectives. At the end of the semester the candidate submits a certificate of internship and a project report. The project report shall be evaluated by the departmental committee with an external examiner.

The college shall facilitate and monitor the student internship program. Completion of internship 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 has to repeat the internship for a period of 6 months in the subsequent years.

Project Work, Seminar and Full Semester Internship carry 200 Marks which is split into 140 Marks for External Evaluation and 60 Marks for Internal Evaluation.

**Internal Evaluation for Project Work, Seminar and Full Semester Internship at Industry:**

The object of Project Work and internship is to enable the student to take up investigative study in the broad field of his branch of Engineering/Interdisciplinary, either fully theoretical/practical or involving both theoretical and practical work to be assigned by the department on an individual basis or three/four students in a group under the guidance of a supervisor/ guide. This is expected to provide a good initiation for the student(s) in R&D work.

The total internal weightage for Project work, Internship course is 60 marks and will be evaluated as follows,

- Submission of Abstract (Identification of Problem & Literature Survey) Profile and Abstract –Student has to submit the industry profile and abstract of the project within four weeks from date of commencement of internship through mail or post – 10 Marks
- Company Profile and Abstract (Internship) – 10 Marks
- Review-1 – at 6$^{th}$ week from date of commencement of internship - 10 Marks
- Review-2 – at 12$^{th}$ week from date of commencement of internship - 15 Marks
- Review-3 – at 18$^{th}$ week from date of commencement of internship - 15 Marks

**External Evaluation for Theory Course - Semester End Examination:**

The Semester End Examination (SEE) in each theory subject shall be conducted for 3 hours duration at the end of the semester for 60 marks.

**Pattern of the Semester End Examination question paper is as follows:**

- A total of two Sections (Section-I & Section-II)
- Section-I contains five two mark questions. One question from each unit and a student has to be answered all the five questions compulsory (5x2=10 Marks)
- Section-II contains ten questions are to be designed taking two questions from each unit (Unit Wise - Either or type) of the total five units. (5x10=50 Marks)

A student has to secure not less than a minimum of 35% of marks (21 marks) exclusively at the Semester End Examinations in each of the theory subjects in which the candidate had appeared. However, the candidate shall have to secure a minimum of 40% of marks (40 marks) in both external and internal components put together to become eligible for passing in the subject.

The emphasis on the questions is broadly based on the following criteria:

| | |
|---|---|
| 50 % | To test the objectiveness of the concept |
| 30 % | To test the analytical skill of the concept |
| 20 % | To test the application skill of the concept |

### External Evaluation for Practical Course:

Out of 60 marks **40** marks are allocated for experiment (procedure for conducting the experiment carries 25 marks & readings, calculation and result-15) and **10** marks for viva-voce examination with **10** marks for the record.

Each Semester External Lab Examination shall be evaluated by an Internal Examiner along with an External Examiner appointed by the Principal.

A candidate shall be declared to have passed in individual lab course if he secures a minimum of 40% aggregate marks (40 marks) (Internal & Semester External Examination marks put together), subject to a minimum of 40% marks (21 marks) in the semester external examination.

### External Evaluation for Design/ Drawing Courses/BEEE:

The Semester End Examination in Design / Drawing Course shall be conducted for 3 hours duration at the end of the semester for 60 marks.

**Pattern of the Semester End Examination question paper is as follows:**

- It contains ten questions are to be designed taking two questions from each unit (Unit Wise - Either or type) of the total five units. (5x12=60 Marks)

A student has to secure not less than a minimum of 35% of marks (21 marks) exclusively at the Semester End Examinations in each of the theory subjects in which the candidate has appeared. However, the candidate shall have to secure a minimum of 40% of marks (40 marks) in both external and internal components put together to become eligible for passing in the subject.

- It contains TWO PARTS. Part-A contains (Electrical) Four questions are to be designed taking two questions from each unit (Unit Wise - Either or type) of the total two units (2X12=24) and Part-B contains (Electronics) six questions are to be designed taking two questions from each unit (Unit Wise - Either or type) of the total three units. (3x12=36 Marks)

A student has to secure not less than a minimum of 35% of marks (21 marks) exclusively at the Semester End Examinations in each of the theory subjects in which the candidate has appeared. However, the candidate shall have to secure a minimum of 40% of marks (40 marks) in both external and internal components put together to become eligible for passing in the subject.

### External Evaluation for Project Work, Seminar and Full Semester Internship at Industry:

The external evaluation based on the report submitted and viva-voce exam for 140marks shall be conducted by a Project Review Committee (PRC). The committee comprises of an External Examiner appointed by the Principal, Head of the Department and Project Guide/Supervisor. The evaluation of project work shall be based on the report submitted and a viva-voce exam for 140 marks by a committee comprising the Head of the Department, the project supervisor and an external examiner nominated by the Principal. A minimum of 50% of maximum marks shall be obtained to earn the corresponding credits.

Project Work, Seminar and Full Semester Internship in the Industry carry 14 credits. During Full semester Internship, student has to spend one full semester (6 Months) in an identified industry /firm / organization and has to carry out the internship as per the

stipulated guidelines of that industry / firm / organization and the institute.

**Distribution of Project Work, Seminar and Full Semester Internship Marks**

- Internship Certificate is Mandatory
- Project Report - 30 Marks
- Project Presentation - 50 Marks
- Project Viva Voce - 60 Marks

## Massive Open Online Courses (MOOCs):

Meeting with the global requirements, to inculcate the habit of self learning and incompliance with UGC guidelines, MOOC (Massive Open Online Course) courses have been introduced as electives. The main intension to introduce MOOCs is to obtain enough exposure through online tutorials, self-learning at one's own pace, attempt quizzes, discuss with professors from various universities and finally to obtain certificate of completion for the course from the MOOCs providers

**Regulations for MOOCs**

- The respective departments shall give a list of courses from NPTEL or any other standard providers, whose credentials are endorsed by the HOD.
- Each department shall appoint Coordinators/Mentors and allot the students to them who shall be responsible to guide students in selecting online courses and provide guidance for the registration, progress and completion of thesame.
- A student shall choose an online course (relevant to his/her programme of study) from the given list of MOOCs providers, as endorsed by the teacher concerned, with the approval of the HOD.
- The details of MOOC(s) shall be displayed in Grade card of a student, provided he/she submits the proof of completion of it to the department concerned through the Coordinator/Mentor.
- Student can get certificate from SWAYAM/NPTEL or any other standard providers, whose credentials are endorsed by the HOD. The course work should not be less than 8 weeks.

Two credits will be awarded upon successful completion of each MOOC courses having minimum of 8 weeks duration.

## Mandatory Courses:

Mandatory courses carry **"ZERO"** credits. There shall be **NO Semester-end** examination. However, ATTENDANCE in Mandatory courses shall be considered while calculating aggregate attendance in a semester. The internal examination shall be

conducted and evaluated similar to the THEORY courses for 30 Marks. The student shall be declared to have passed the mandatory courses only when He/She secures **40% (12 Marks) marks in the internal examination.** If the student FAILS, a re-examination shall be conducted for FAILED candidates in the Consecutive semester. The performance of the student shall be indicated in the grade sheets **"SATISFACTORY" (or) "NOT SATISFACTORY"** as given in 12.1**.** The student should pass all the mandatory courses, for the award of B.Tech degree.

For the Mandatory Courses, if the student obtained 40% or more marks, then his performance shall be indicated as "P" (SATISFACTORY), otherwise the performance shall be indicated as "F" (NOT SATISFACTORY) in the grade sheet.

## GRADING PROCEDURE

Grades will be awarded to indicate the performance of students in each theory subject, laboratory / practical's, Skill oriented Course / Skill Advanced course / Soft Skill course, Summer Internships, Project Work, Seminar and Full Semester Internship in Industry (6 Months). Based on the percentage of marks obtained (Continuous Internal Assessment plus Semester End Examination, both taken together) as specified in item 11 above, a corresponding letter grade shall be given.

As a measure of the performance of a student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

| % of Marks Secured in a Subject/Course (Class Intervals) | Letter Grade (UGC Guidelines) | Grade Points |
|---|---|---|
| Greater than or equal to 90% | A+ (Outstanding) | 10 |
| 80-89 | A (Excellent) | 9 |
| 70-79 | B+ (Very Good) | 8 |
| 60-69 | B (Good) | 7 |
| 50-59 | C (Above Average) | 6 |
| 45-49 | D (Average) | 5 |
| 40-44 | E (Pass) | 4 |
| Less than 40 | F (Fail) | 0 |
| Absent | AB (Absent) | 0 |
| **For Mandatory & Audit Courses** | | |
| Greater than or equal to 40% | P (Satisfactory) | - |
| Below 40% | F (Not Satisfactory) | - |

A student who has obtained an 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.

To a student who has not appeared for an examination in any subject, 'AB' grade will be allocated in that subject, and he is deemed to have 'failed'. A student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered next. In this case also, the internal marks in those subjects will remain the same

as those obtained earlier.

A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.

A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits …. For a course

A student passes the subject/ course only when GP ≥ 4 ('E' grade or above)

- A student obtaining Grade F shall be considered failed and will be required to reappear for that subject when the next supplementary examination offered.
- For Mandatory courses "Satisfactory" or "Not satisfactory" shall be indicated instead of the letter grade and this will not be counted for the computation of SGPA/CGPA.

**Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA):**

i. 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 point scored by the student in the $i^{th}$ course.

ii. The Cumulative Grade Point Average (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 $i^{th}$ 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 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 letters S, A, B, C, D, E and F.

**Example: Computation of SGPA and CGPA**

**Illustration for SGPA**

| Course | Credit | Grade Letter | Grade Point | Credit Point |
|---|---|---|---|---|
| Course-I | 3 | S | 10 | 3x10=30 |
| Course-II | 3 | A | 9 | 3x9=27 |
| Course-III | 3 | B | 8 | 3x8=24 |
| Course-IV | 3 | D | 6 | 3x6=18 |
| Course-V | 2 | B | 8 | 2x8=16 |
| Course-VI | 1 | C | 7 | 1x7=7 |
| | 15 | | | 122 |

**Thus, SGPA=$\frac{122}{15}$ = 8.13**

**Illustration for CGPA**

| I Semester | II Semester | III Semester | IV Semester |
|---|---|---|---|
| Credit: 19<br>SGPA: 8.13 | Credit: 19.5<br>SGPA: 6.9 | Credit: 21.5<br>SGPA: 7.3 | Credit: 21.5<br>SGPA: 6.8 |
| **V Semester** | **VI Semester** | **VII Semester** | **VIII Semester** |
| Credit: 22<br>SGPA: 8.2 | Credit: 21.5<br>SGPA: 7.4 | Credit: 21<br>SGPA: 7.2 | Credit: 14<br>SGPA: 7.8 |

**Thus, CGPA=$\frac{(19x8.13)+(19.5x6.9)+(21.5x7.3)+(21.5x6.8)+(22x8.2)+(21.5x7.4)+(21x7.2)+(14x7.8)}{160}$**

**= 7.45**

## AWARD OF CLASS

After a student has satisfied the requirement 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:

| CGPA ≥ 7.5 | CGPA ≥ 6.5 and < 7.5 | CGPA ≥ 5.5 and < 6.5 | CGPA ≥ 4.0 and < 5.5 | CGPA < 4.0 |
|---|---|---|---|---|
| **First Class with Distinction** | **First Class** | **Second Class** | **Pass Class** | **Fail** |

**A student with final CGPA is < 4.00 will not be eligible for the Award of the Degree.**

## CONDUCT OF SEMESTER END EXAMINATIONS ANDEVALUATION

Semester end examination shall be conducted by the Controller of Examinations (CoE) by inviting Question Papers from the External Examiners

Question papers may be moderated for the coverage of syllabus, pattern of questions by a Semester End Examination Committee chaired by CoE and senior subject expert before the commencement of semester end examinations. Internal Examiner shall prepare a detailed scheme of valuation.

The answer papers of semester end examination should be evaluated by an external examiner immediately after the completion of exam and the award sheet should be submitted to CoE in a sealed cover.

CoE shall invite required number of external examiners to evaluate all the end-semester answer scripts on a prescribed date(s). Practical laboratory exams are conducted involving external examiners.

Examinations Control Committee shall consolidate the marks and award grades.

## 15.0 MAKEUP EXAMINATION

The make-up examination facility shall be available to students who may have missed to attend CIA exams in one or more courses in a semester for valid genuine reasons. The make-up examination shall have comprehensive online objective type questions. The syllabus for the make-up examination shall be the whole syllabus covered till the end of

the semester under consideration and will be conducted at the end of the semester.

## SUPPLEMENTARY EXAMINATIONS

Apart from the regular End Examinations the institute may also schedule and conduct supplementary examinations for all subjects for the benefit of students with backlogs. Such students writing supplementary examinations as supplementary candidates may have to write more than one examination per day.

## ATTENDANCE REQUIREMENTS AND DETENTION POLICY

A candidate shall put in a minimum required attendance of 75 % in that semester. Otherwise, she/he shall be declared detained and has to repeat semester.

For cases of medical issues, deficiency of attendance in a semester to the extent of 10% may be condoned by the College Academic Committee (CAC) on the recommendation of Head of the department if their attendance is between 75% and 65% in a semester, subjected to submission of medical certificates, medical case file and other needful documents to the concerned departments. The condonation is permitted maximum of two times during the entire course of study.

A prescribed fee shall be payable towards condonation of shortage of attendance.

A student shall not be promoted to the next semester unless he/she satisfies the attendance requirement of the present semester, as applicable. They may seek readmission into that semester when offered next. If any candidate fulfills the attendance requirement in the present semester, he/she shall not be eligible for readmission into the same class.

Any student against whom any disciplinary action by the institute is pending shall not be permitted to attend any SEE in that semester.

## PROMOTION POLICIES

The following academic requirements have to be satisfied in addition to the attendance requirements

A student shall be promoted from IV Semester to V Semester only if he/she acquires 24 credits (i.e 40% of total credits) that have been studied up to III Semester from the following examinations, irrespective of whether the candidates takes the end examinations or not as per the normal course of the study

B.Tech I Semester - one Regular and two Supplementary
B.Tech II Semester - one Regular and one Supplementary
B.Tech III Semester - one Regular only

(OR)

A student shall be promoted from IV Semester to V Semester only if he/she acquires 33 credits (i.e 40% of total credits) that have been studied up to IV Semester from the following examinations, irrespective of whether the candidates takes the end examinations or not as per the normal course of the study

B.Tech I Semester - one Regular and three Supplementary
B.Tech II Semester - one Regular and two Supplementary
B.Tech III Semester - one Regular only and one Supplementary
B.Tech IV Semester - one Regular only

A student shall be promoted from VI Semester to VII Semester only if he/she acquires 41 credits (i.e 40% of total credits) that have been studied up to V Semester from the following examinations, irrespective of whether the candidates takes the end examinations or not as per the normal course of the study

B.Tech I Semester - one Regular and four Supplementary
B.Tech II Semester - one Regular and three Supplementary
B.Tech III Semester - one Regular and two Supplementary
B.Tech IV Semester - one Regular and one Supplementary
B.Tech V Semester - one Regular only

(OR)

A student shall be promoted from VI Semester to VII Semester only if he/she acquires 50 credits (i.e 40% of total credits) that have been studied up to VI Semester from the following examinations, irrespective of whether the candidates takes the end examinations or not as per the normal course of the study

B.Tech I Semester - one Regular and five Supplementary
B.Tech II Semester - one Regular and four Supplementary
B.Tech III Semester - one Regular and three Supplementary
B.Tech IV Semester - one Regular and two Supplementary
B.Tech V Semester - one Regular and one Supplementary
B.Tech VI Semester - one Regular only

A lateral entry student shall be promoted from VI Semester to VII Semester only if he/she acquires 26 of the credits (i.e 40% of the credits) from the courses that have been studied up to V Semester from all the regular and supplementary examinations until V Semester.

B.Tech III Semester - one Regular and two Supplementary
B.Tech IV Semester - one Regular and one Supplementary
B.Tech V Semester - one Regular only

(OR)

A lateral entry student shall be promoted from VI Semester to VII Semester only if he/she acquires 35 of the credits (i.e 40% of the credits) from the courses that have been studied up to VI Semester from all the regular and supplementary examinations until V Semester.

B.Tech III Semester - one Regular and three Supplementary
B.Tech IV Semester - one Regular and two Supplementary
B.Tech V Semester - one Regular and one Supplementary
B.Tech VI Semester - one Regular only

A student shall register and putup minimum attendance in all 160 credits and earn all the 160 credits. Marks obtained in all 160 credits shall be considered for the calculation of aggregate percentage of marks obtained. In the course structure within eight academic years from the year of their admission shall forfeit their seat in B.Tech. Course and their admission shall stand cancelled.

A lateral entry student shall register and put-up minimum attendance in all 121 credits and earns all the 121 credits. Marks obtained in all 121 credits shall be considered for the calculation of aggregate percentage of marks obtained. In the course structure within six academic years from the year of their admission shall forfeit their seat in B.Tech. Course and their admission shall stand cancelled.

**MAJOR DEGREE WITH A MINOR:**

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 for example, If Mechanical Engineering student selects subjects from Civil Engineering under this scheme, he/she will get Major degree of Mechanical Engineering with minor degree of Civil Engineering.

   Student can opt the Industry relevant tracks of any branch to obtain the Major degree with Minor, for example, a B.Tech Mechanical student can opt for the industry relevant tracks like Data Mining track, IOT track, Machine learning track etc.

2. A student shall be permitted to register for Minors program at the beginning of $4^{th}$ semester provided that the student must have acquired 8.0 CGPA (for SC/ST students CGPA of 7.5) up to the end of $2^{nd}$ semester without any history of backlogs. It is expected that the $3^{rd}$ semester results may be announced after the commencement of the $4^{th}$ semester, if a student fails to acquire 8.0 CGPA (for SC/ST students CGPA of 7.5) CGPA up to $3^{rd}$ semester or failed in any course, his registration for Minors program shall stand cancelled. An SGPA and CGPA of 7.5 (for SC/ST students CGPA of 7.0) has to be maintained in the subsequent semesters without any backlog in order to keep the Minor registration active.

3. Minor degree will cumulatively require additional 20 credits in the specified area in addition to the credits essential for obtaining the under graduate degree in Major discipline (i.e., 160 credits).

4. 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, CSE(AI), CSE(DS), ECE, EEE,CE,ME etc or industry tracks such as Artificial Intelligence (AI), Machine Learning (ML), Data Science(DS), Robotics, Electric vehicles, VLSI etc. The list of disciplines/ branches eligible to opt for an industry relevant minor specialisation shall be clearly mentioned in the respective BOS.

5. Student must complete 4 courses each of 4 credits by choosing from six courses mentioned in the course structure of the department.
6. In addition to acquiring 16 credits from courses, students shall have to pursue at least 2 courses for two credits each through MOOCS/NPTEL. The concerned BOS shall list the MOOCS/NPTEL courses to be pursued by the student. Attendance will not be monitored for this MOOCS course. A student has to acquire a certificate of MOOCS/NPTEL course from the agencies approved by the BOS in order to earn the required credits, and that should be evaluated by Department committee for the credits.
7. Student can opt the Industry relevant minor specialisations as approved by the concerned departmental BoS or he/she can opt the courses from skill development corporation (APSSDC) or he/she can opt the courses from an external agency recommended and approved by concerned BOS and should produce course completion certificate. The Board of studies of the concerned discipline of Engineering shall review such courses being offered by eligible external agencies and prepare a fresh list every year incorporating latest skills based on industrial demand.
8. A committee should be formed at the level of College/Universities/department to evaluate the grades/ marks given by external agencies to a student which are approved by concerned BoS. Upon completion of courses the departmental committee should convert the obtained grades/marks to the maximum marks assigned to that course. The controller of examinations can take a decision on such conversions and may give appropriate grades.
9. If a student prefers to take test from an external agency, he/she must take a comprehensive viva-voce conducted at University level and the marks assigned for the Viva-voce will be assigned to that course. However, if students wish to take the courses from the department, he/she should take examination conducted by the University only. Also, if a student completes courses from external agency without taking test are also eligible to get minor degree after fulfilling all the formalities assigned by the departmental committee.
10. It is the responsibility of the student to acquire prerequisite knowledge of the minor program domain before taking the course. The University/Institution BoS concerned shall prepare the list of subjects and pre requisites for each minor track.
11. 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. 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 for the following: All the courses done under the dropped Minors will be shown in the transcript.
12. In case a student fails to meet the CGPA requirement for B.Tech Degree with Minor at any point after registration, he/she will be dropped from the list of

students eligible for Degree with Minors and they will receive B. Tech Degree only. However, such students will receive a separate grade sheet mentioning the additional courses completed by them.

## HONORS PROGRAM:

1. Students from same department are eligible for Honor program.
2. A student shall be permitted to register for Honors program at the beginning of 4th semester provided that the student must have acquired 8.0 CGPA (for SC/ST students CGPA of 7.5) CGPA upto the end of 2nd semester without any history of backlogs. It is expected that the 3rd semester results may be announced after the commencement of the 4th semester, if a student fails to acquire 8.0 CGPA (for SC/ST students CGPA of 7.5) CGPA upto 3rd semester or failed in any course, his registration for Honors program shall stand cancelled. An SGPA and CGPA of 7.5 (for SC/ST students CGPA of 7.0) has to be maintained in the subsequent semesters without any backlog in order to keep the Honors registration active
3. Students can select advanced subjects from their respective branch in which they are pursuing the degree. E.g. If Mechanical Engineering student completes the selected advanced subjects from the same branch under this scheme, he/she will be awarded B.Tech (Honors) in Mechanical Engineering.
4. Student must complete 4 courses @ 4 credits from each pool and 2 MOOC/NPTEL courses @ 2 credits (Total 20 credits)
5. The student who has registered for Honors shall choose one course from each pool. There shall be 4 pools with 5 courses each as mentioned in course structure of Honors program. The board of studies concerned will decide the courses under each pool for Honors programs.
6. For Honors program, all the courses offered in each pool shall be domain specific courses and advanced courses.
7. In addition to the 4 courses chosen, one from each pool, students shall have to pursue at least 2 courses through MOOCS/NPTEL. The concerned BoS shall list the MOOCS/NPTEL courses to be pursued by the student. Attendance will not be monitored for this MOOCS course. Student has to acquire a certificate of MOOCS/NPTEL course from the agencies approved by the BoS in order to earn 2 credits. BoS concerned shall prepare the list of advanced courses for each pool taking into consideration the core courses offered in the curriculum. If a course comes with a lab component, that component has to be cleared separately. The concerned BoS shall provide pre requisites to take the specific course by the student. It is the responsibility of the student to acquire/complete prerequisite before taking the course.
8. If a student drops (or terminated) from the Honors program, they cannot convert the earned credits 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 for the following: All the courses done under the dropped Honors will be shown in the transcript. None of the courses done under the dropped Honors will be shown in the transcript.

9. In case a student fails to meet the CGPA requirement for Degree with Honors at anypoint after registration, 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.

**GRADUATION REQUIREMENTS**

The following academic requirements shall be met for the award of the B.Tech degree.

Student shall register and acquire minimum attendance in all courses and secure 160 credits for regular program and 121 credits for lateral entry program.

A student of a regular program, who fails to earn 160 credits within eight consecutive academic years from the year of his/her admission with a minimum CGPA of 4.0, shall forfeit his/her degree and his/her admission stands cancelled.

A student of a lateral entry program who fails to earn 121 credits within six consecutive academic years from the year of his/her admission with a minimum CGPA of 4.0, shall forfeit his/her degree and his/her admission stands cancelled.

## 22.0 REVALUATION

A student, who seeks the re-evaluation of the answer script, is directed to apply for the photocopy of his/her semester examination answer paper(s) in the theory course(s), within 5 working days from the declaration of results in the prescribed format with prescribed fee to the Controller of Examinations through the Head of the department. On receiving the photocopy, the student can consult with a competent member of faculty and seek the opinion for revaluation. Based on the recommendations, the student can register for the revaluation with prescribed fee. The Controller of Examinations shall arrange for the revaluation and declare the results. Revaluation is not permitted to the courses other than theory courses.

**TEMPORARY BREAK OF STUDY FROM THE PROGRAMME**

A candidate is normally not permitted to break the study. However, if a candidate intends to temporarily discontinue the program in the middle for valid reasons (such as accident or hospitalization due to prolonged ill health) and to rejoin the program after the break from the commencement of the respective semester as and when it is offered , she/he shall apply to the Principal in advance. Such application shall be submitted before the commencement of the semester in question and forwarded through the Head of the department stating the reasons for such withdrawal together with supporting documents and endorsement of his / her parent / guardian.

The institute shall examine such an application and if it finds the case to be genuine, it may permit the student to rejoin. Such permission is accorded only to those who do not have any outstanding dues like tuition fee etc.

The total period for completion of the program reckoned from the commencement of the semester to which the candidate was first admitted shall not exceed the maximum period 8 years for regular and 6 years for lateral entry programme. The maximum period includes the break period.

**GAP YEAR**

Gap Year concept of Student Entrepreneur in Residence shall be introduced and 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 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. An evaluation committee

shall be constituted to evaluate the proposal submitted by the student and the committee shall decide on permitting the student for having the Gap Year.

### TERMINATION FROM THE PROGRAMME

The admission of a student to the program may be terminated and the student is asked to leave the institute in the following circumstances:

- The student fails to satisfy the requirements of the program within the maximum period stipulated for that program.
- A student shall not be permitted to study any semester more than three times during the entire Program of study.
- The student fails to satisfy the norms of discipline specified by the institute from time to time.

## 26.0 WITH-HOLDING OF RESULTS

If the candidate has any dues not paid to the institute or if any case of indiscipline or malpractice is pending against him/her, the result of the candidate shall be withheld and he/she will not be allowed / promoted into the next higher semester. The issue of awarding degree is liable to be withheld in such cases.

## 27.0 STUDENT TRANSFERS

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

### GRADUATION DAY

The institute shall have its own annual Graduation Day for the award of Degrees to students completing the prescribed academic requirements in each case, in consultation with the University and by following the provisions in the Statute. The college shall announce prizes and medals to meritorious students and award them annually at the Graduation Day. This will greatly encourage the students to strive for excellence in their academic work.

### CONDUCT AND DISCIPLINE

- Students shall conduct themselves within and outside the premises of the Institute in a decent and dignified manner befitting the students of Sri Venkatesa Perumal College of Engineering & Technology.
- As per the order of the Honorable Supreme Court of India, ragging in any form is considered a criminal offence and is totally banned. Any form of ragging will be severely dealt with the following acts of omission and / or commission shall constitute gross violation of the code of conduct and are liable to invoke disciplinary measures with regard to ragging.
  - (i) Lack of courtesy and decorum, indecent behavior anywhere within or outside the college campus.
  - (ii) Damage of college property or distribution of alcoholic drinks or any kind of narcotics to fellow students / citizens.
- Possession, consumption or distribution of alcoholic drinks or any kind of narcotics or hallucinogenic drugs.
- Mutilation or unauthorized possession of library books.
- Noisy and unruly behavior, disturbing studies of fellow students.
- Hacking in computer systems (such as entering into other person's areas without

prior permission, manipulation and / or damage of computer hardware and software or any other cyber crime etc.

- Usage of camera /cell phones in the campus.

- Plagiarism of any nature.
- Any other act of gross indiscipline as decided by the college academic council from time to time.
- Commensurate with the gravity of offense, the punishment may be reprimand, fine, expulsion from the institute/ hostel, debarring from examination, disallowing the use of certain facilities of the Institute, rustication for a specified period or even outright expulsion from the Institute, or even handing over the case to appropriate law enforcement authorities or the judiciary, as required by the circumstances.
- For an offence committed in (i) the hostel (ii) department or in a class room and (iii) elsewhere, the chief Warden, the concern Head of the Department and the Principal respectively, shall have the authority to reprimand or impose fine.
- Cases of adoption of unfair means and/ or any malpractice in an examination shall be reported to the principal for taking appropriate corrective action.
- All cases of serious offence, possibly requiring punishment other than reprimand, shall be reported to the Academic council of the college.
- The Institute Level Standing Disciplinary Action Committee constituted by the academic council shall be the authority to investigate the details of the offence, and recommend disciplinary action based on the nature and extent of the offence committed.
- The Principal shall deal with any problem, which is not covered under these rules and regulations.

## 30.0 GRIEVANCE REDRESSAL COMMITTEE

Grievance and Redressal Committee constituted by the Principal shall deal with all grievances pertaining to the academic / administrative / disciplinary matters. All the students must abide by the code and conduct rules prescribed by the college from time to time.

## TRANSITORY REGULATIONS

Required to do all the courses in the curriculum prescribed for the batch of students in which the student joins subsequently. However, exemption will be given to those candidates who have already passed such courses in the earlier semester(s) s/he was originally admitted into and substitute subjects are offered in place of them as decided by the Board of Studies. However, the decision of the Board of Studies will befinal.

### Four Year B.Tech Regular course:

A student who is under Jawaharlal Nehru Technological University Anantapur (JNTUA) curriculum and detained due to shortage of attendance at the end of the first semester shall join the autonomous batch of first semester. Such students shall study all

the courses prescribed for the batch in which the student joins and considered on par with regular candidates of Autonomous stream and will be governed by the autonomous regulations.

A student who is following JNTUA curriculum, detained due to lack of credits or shortage of attendance at the end of the second semester or at the subsequent semesters shall join with the autonomous batch in the appropriate semester. Such candidates shall be required to pass in all the courses in the program prescribed by the Board of Studies concerned for that batch of students from that semester onwards to be eligible for the award of degree. However, exemption will be given in the courses of the semester(s) of the batch which he had passed earlier and substitute courses will be offered in place of them as decided by the Board of Studies. The student has to clear all his backlog courses up to previous semester by appearing for the supplementary examinations conducted by JNTUA for the award of degree. The total number of credits to be secured for the award of the degree will be sum of the credits up to previous semester under JNTUA regulations and the credits prescribed for the semester in which a candidate seeks readmission and subsequent semesters under the autonomous stream. The class will be awarded based on the academic performance of a student in the autonomous pattern.

**Three Year B.Tech program under Lateral Entry Scheme:**

A student who is following JNTUA curriculum and detained due to shortage of attendance at the end of the first semester of second year shall join the autonomous batch of third semester. Such students shall study all the courses prescribed for the batch in which the student joins and considered on par with Lateral Entry regular candidates of Autonomous stream and will be governed by the autonomous regulations.

A student who is following JNTUA curriculum, detained due to lack of credits or shortage of attendance at the end of the second semester of second year or at the subsequent semesters shall join with the autonomous batch in the appropriate semester. Such candidates shall be required to pass in all the courses in the program prescribed by the Board of Studies concerned for that batch of students from that semester onwards to be eligible for the award of degree. However, exemption will be given in the courses of the semester(s) of the batch which he had passed earlier and substitute courses are offered in place of them as decided by the Board of Studies. The student has to clear all his backlog courses up to previous semester by appearing for the supplementary examinations conducted by JNTUA for the award of degree. The total number of credits to be secured for the award of the degree will be sum of the credits up to previous semester under JNTUA regulations and the credits prescribed for the semester in which a candidate seeks readmission and subsequent semesters under the autonomous status. The class will be awarded based on the academic performance of a student in the autonomous pattern.

**Transfer candidates (from non-autonomous college affiliated to JNTUA):**

A student who is following JNTUA curriculum, transferred from other college to this institute in third semester or subsequent semesters shall join with the autonomous batch in the appropriate semester. Such candidates shall be required to pass in all the courses in the program prescribed by the Board of Studies concerned for that batch of students from that semester onwards to be eligible for the award of degree. However, exemption

will be given in the courses of the semester(s) of the batch which he had passed earlier and substitute courses are offered in their place as decided by the Board of Studies. The student has to clear all his backlog courses up to previous semester by appearing for the supplementary examinations conducted by JNTUA for the award of degree. The total number of credits to be secured for the award of the degree will be the sum of the credits upto previous semester under JNTUA regulations and the credits prescribed for the semester in which a candidate joined after transfer and subsequent semesters under the autonomous status. The class will be awarded based on the academic performance of a student in the autonomous pattern.

**Transfer candidates (from an autonomous college affiliated to JNTUA):**

A student who has secured the required credits upto previous semesters as per the regulations of other autonomous institutions shall also be permitted to be transferred to this institute. A student who is transferred from the other autonomous colleges to this institute in third semester or subsequent semesters shall join with the autonomous batch in the appropriate semester. Such candidates shall be required to pass in all the courses in the program prescribed by the Board of Studies concerned for that batch of students from that semester onwards to be eligible for the award of degree. However, exemption will be given in the courses of the semester(s) of the batch which he had passed earlier and substitute subjects are offered in their place as decided by the Board of Studies. The total number of credits to be secured for the award of the degree will be the sum of the credits upto previous semester as per the regulations of the college from which he is transferred and the credits prescribed for the semester in which a candidate joined after transfer and subsequent semesters under the autonomous status. The class will be awarded based on the academic performance of a student in the autonomous pattern.

## 32.0 REVISION OF REGULATIONS AND CURRICULUM

The Institute from time to time may revise, amend or change the regulations, scheme of examinations and syllabi if found necessary and on approval by the Academic Council and the Governing Body shall come into force and shall be binding on the students, faculty, staff, all authorities of the Institute and others concerned.

**FAILURE TO READ AND UNDERSTAND THE REGULATIONS IS NOT AN EXCUSE**

## B.TECH - PROGRAM OUTCOMES (POS)

**PO-1 :** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems (**Engineering Knowledge**).

**PO-2 :** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences **(Problem Analysis).**

**PO-3 :** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations **(Design/Development of Solutions).**

**PO-4 :** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions **(Conduct Investigations of Complex Problems).**

**PO-5 :** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations **(Modern Tool Usage).**

**PO-6 :** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice **(The Engineer and Society).**

**PO-7 :** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development **(Environment and Sustainability).**

**PO-8 :** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice **(Ethics).**

**PO-9 :** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings **(Individual and Team Work).**

**PO-10 :** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions **(Communication).**

**PO-11 :** Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO-12 :** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change **(Life-long learning).**

## FREQUENTLY ASKED QUESTIONS AND ANSWERS ABOUT AUTONOMY

**1. Who grants Autonomy? UGC, Govt., AICTE or University**

In case of Colleges affiliated to a university and where statutes for grant of autonomy are ready, it is the respective University that finally grants autonomy but only after concurrence from the respective state Government as well as UGC. The State Government has its own powers to grant autonomy directly to Govt. and Govt. aided Colleges.

**2 Shall Sri Venkatesa Perumal College of Engineering & Technology award its own Degree?**

No. Degree will be awarded by Jawaharlal Nehru Technological University Anantapur, Ananthapuramu with a mention of the name Sri Venkatesa Perumal College of Engineering & Technology on the Degree Certificate.

**3 What is the difference between a Deemed to be University and an Autonomy College?**

A Deemed to be University is fully autonomous to the extent of awarding its own Degree. A Deemed to be University is usually a Non-Affiliating version of a University and has similar responsibilities like any University. An Autonomous College enjoys Academic Autonomy alone. The University to which an autonomous college is affiliated will have checks on the performance of the autonomous college.

**4 How will the Foreign Universities or other stake – holders know that we are an Autonomous College?**

Autonomous status, once declared, shall be accepted by all the stake holders. The Govt. of Andhra Pradesh mentions autonomous status during the First Year admission procedure. Foreign Universities and Indian Industries will know our status through our website.

**5 What is the change of Status for Students and Teachers if we become Autonomous?**

An autonomous college carries a prestigious image. Autonomy is actually earned out of our continued past efforts on academic performances, our capability of self- governance and the kind of quality education we offer.

**6 Who will check whether the academic standard is maintained / improved after Autonomy? How will it be checked?**

There is a built in mechanism in the autonomous working for this purpose. An Internal Committee called Academic Programme Evaluation Committee, which will keep a watch on the academics and keep its reports and recommendations every year. In addition the highest academic council also supervises the academic matters. The standards of our question papers, the regularity of academic calendar, attendance of students, speed and transparency of result declaration and such other parameters are involved in this process.

**7 Will the students of Sri Venkatesa Perumal College of Engineering & Technology as an Autonomous College qualify for University Medals and Prizes for academic excellence?**

No. Sri Venkatesa Perumal College of Engineering & Technology has instituted its own awards, medals, etc. for the academic performance of the students. However for all other events like sports, cultural on co-curricular organized by the University the students shall qualify.

**8 Can Sri Venkatesa Perumal College of Engineering & Technology have its own Convocation?**

No. Since the University awards the Degree the Convocation will be that of the University, but there will be Graduation Day at Sri Venkatesa Perumal College of Engineering & Technology.

**9 Can Sri Venkatesa Perumal College of Engineering & Technology give a provisional degree certificate?**

Since the examinations are conducted by Sri Venkatesa Perumal College of Engineering & Technology and the results are also declared Sri Venkatesa Perumal College of Engineering & Technology, the college sends a list of successful candidates with their final Grades and Grade Point Averages including CGPA to the University. Therefore with the prior permission of the University the college will be entitled to give the provisional certificate.

**10 Will Academic Autonomy make a positive impact on the Placements or Employability?**

Certainly, the number of students qualifying for placement interviews is expected to improve, due to rigorous and repetitive classroom teaching and continuous assessment. Also the autonomous status is more responsive to the needs of the industry. As a result therefore, there will be a lot of scope for industry oriented skill development built-in into the system. The graduates from an autonomous college will therefore represent better employabilit y.

**11 What is the proportion of Internal and External Assessment as an Autonomous College?**

Presently, it is 60 % external and 40% internal. As the autonomy matures the internal assessment component shall be increased at the cost of external assessment.

**12 Is it possible to have complete Internal Assessment for Theory or Practicals?**

Yes indeed, we define our own system. We have the freedom to keep the proportion of external and internal assessment component to choose.

**13 Why Credit based Grade System?**

The credit based grade system is an accepted standard of academic performance the world over in all Universities. The acceptability of our graduates in the world market shall improve.

**14 What exactly is a Credit based Grade System?**

The credit based grade system defines a much better statistical way of judging the academic performance. One Lecture Hour per week of Teaching Learning process is assigned One

Credit. One hour of laboratory work is assigned half credit. Letter Grades like S, A+, A, B+, B, C, F etc. are assigned for a Range of Marks. (e.g. 90% and above is S, 80 to 89 % could be A+ etc.) in Absolute Grading System while grades are awarded by statistical analysis in relative grading system. We thus dispense with sharp numerical boundaries. Secondly, the grades are associated with defined Grade Points in the scale of 1 to 10. Weighted Average of Grade Points is also defined Grade Points are weighted by Credits and averaged over total credits in a Semester. This process is repeated for all Semesters and a CGPA defines the Final Academic Performance

### 15 What are the norms for the number of Credits per Semester and total number of Credits for UG/PG programme?

These norms are usually defined by UGC or AICTE. Usually around 28 Credits per semester is the accepted norm.

### 16 What is a Semester Grade Point Average (SGPA)?

The performance of a student in a semester is indicated by a number called SGPA. The SGPA is the weighted average of the grade points obtained in all the courses registered by the student during the semester.

$$SGPA = \sum_{i=1}^{n}(C_i\, G_i)/\sum_{i=1}^{n} C_i$$

Where, $C_i$ is the number of credits of the $i^{th}$ course and $G_i$is the grade point scored by the student in the $i^{th}$ course and i represent the number of courses in which a student registered in the concerned semester. SGPA is rounded to two decimal places.

### 17 What is a Cumulative Grade Point Average (CGPA)?

An up-to-date assessment of overall performance of a student from the time of his first registration is obtained by calculating a number called CGPA, which is weighted average of the grade points obtained in all the courses registered by the students since he entered the Institute.

$$CGPA = \sum_{j=1}^{m}(C_j S_j)/\sum_{j=1}^{m} C_j$$

Where, $S_j$ is the SGPA of the $j^{th}$ semester and $C_j$is the total number of credits upto the semester and $m$ represent the number of semesters completed in which a student registered upto the semester. CGPA is rounded to two decimal places.

### 18 Is there any Software available for calculating Grade point averages and converting the same into Grades?

Yes, the institute has its own MIS software for calculation of SGPA, CGPA, etc.

### 19 Will the teacher be required to do the job of calculating SGPAs etc. and convert the same into Grades?

No, the teacher has to give marks obtained out of whatever maximum marks as it is. Rest is all done by the computer.

**20 Will there be any Revaluation System?**

Yes, there will Re-valuation of answer scripts..

**21 How fast Syllabi can be and should be changed?**

Autonomy allows us the freedom to change the syllabi as often as we need.

**22 Will the Degree be awarded on the basis of only final yearperformance?**

No, the CGPA will reflect the average performance of all the semester taken together.

**23 What are Statutory Academic Bodies?**

Governing Body, Academic Council, Examination Committee and Board of Studies are the different statutory bodies. The participation of external members in every body is compulsory. The institute has nominated professors from IIT, NIT, University (the officers of the rank of Pro-vice Chancellor, Deans and Controller of Examinations) and also the reputed industrialist and industry experts on these bodies.

**24 Who takes Decisions on Academic matters?**

The Governing Body of institute is the top academic body and is responsible for all the academic decisions. Many decisions are also taken at the lower level like Boards of Studies. Decisions taken at the Board of Studies level are to be ratified at the Academic Council and Governing Body.

**25 What is the role of Examination committee?**

The Examinations Committee is responsible for the smooth conduct of internal, End Semester and makeup Examinations. All matters involving the conduct of examinations spot valuations, tabulations preparation of Grade Cards etc, fall within the duties of the Examination Committee.

**26 Is there any mechanism for Grievance Redressal?**

The institute has grievance redressal committee, headed by Dean - Student affairs and Dean - IQAC.

**27 How many attempts are permitted for obtaining a Degree?**

All such matters are defined in Rules & Regulation

**28 Who declares the result?**

The result declaration process is also defined. After tabulation work wherein the SGPA, CGPA and final Grades are ready, the entire result is reviewed by the Moderation Committee. Any unusual deviations or gross level discrepancies are deliberated and

removed. The entire result is discussed in the Examinations and Result Committee for its approval. The result is then declared on the institute notice boards as well put on the web site and Students Corner. It is eventually sent to the University.

**29 Who will keep the Student Academic Records, University or Sri Venkatesa Perumal College of Engineering & Technology?**

It is the responsibility of the Dean, Academics of the Autonomous College to keep and preserve all the records.

**30 What is our relationship with the JNT University?**

We remain an affiliated college of the JNT University. The University has the right to nominate its members on the academic bodies of the college.

**31 Shall we require University approval if we want to start any New Courses?**

Yes, it is expected that approvals or such other matters from an autonomous college will receive priority.

**32 Shall we get autonomy for PG and Doctoral Programmes also?**

Yes, presently our PG programmes also enjoying autonomous status.

# MALPRACTICES RULES

## DISCIPLINARY ACTION FOR / IMPROPER CONDUCT IN EXAMINATIONS

| S.No | 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. |
| (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.<br>The Hall Ticket of the candidate is to be cancelled and sent to the Controller of Examinations. |
| 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 semester end examinations. The continuation of the course by the candidate is subject to theacademic 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. |

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|---|---|---|
| 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 semester end 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 Controller of Examinations /Additional Controller of Examinations/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 COE 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 words, either spoken or written or by signs or by visible representation, assaults the COE 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 Institute premises 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. | 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. |
| 7. | Leaves the exam hall taking away answer script or intentionally tears of the script or any part thereof inside or 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 semester end 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.<br><br>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 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. |
| 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/year examinations. |
| 12. | If any malpractice is detected which is not covered in the above clauses 1 to 11 shall be reported to the University for further action to award suitable punishment. | |