

E.G.S. PILLAY ENGINEERING COLLEGE

(Autonomous)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai
Accredited by NAAC with 'A' Grade | Accredited by NBA (CSE, EEE, MECH)
Recognized by UGC with 2(f) & 12(B) Status

NAGAPATTINAM – 611 002



B.E. / B.Tech. Programmes
Regulations – 2019
(Choice Based Credit System)
(For the candidates admitted from 2019-20)

**APPROVED IN THE FOURTH ACADEMIC COUNCIL MEETING
25.05.2019**

E.G.S. PILLAY ENGINEERING COLLEGE (AUTONOMOUS),

NAGAPATTINAM – 611 002.

REGULATIONS 2019

(CHOICE BASED CREDIT SYSTEM (CBCS))

(Common to all B.E./B.Tech. Degree Programmes)

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REGULATIONS 2019

(CHOICE BASED CREDIT SYSTEM)

(Common to all B.E./B.Tech. Degree Programmes)

INTRODUCTION

Regulation 2019 of EGS Pillay Engineering College, Nagapattinam has been prepared in accordance with the guidelines given by the University Grants Commission (UGC), All India Council for Technical Education (AICTE) and Anna University, Chennai with features of the Choice Based Credit System (CBCS). Also we are following outcome based education system. The Regulation 2019 is applicable to the candidates admitted to the Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) Degree Programmes of the Institution in the academic year 2019-2020 and subsequently. The regulations are common to all the B.E./B.Tech. programmes of E.G.S. Pillay Engineering College, Nagapattinam and binding on all stakeholders concerned.

The regulations hereunder are subjected to amendments as may be decided by the Academic Council of the Institution from time to time. Any or all such amendments will be effective from such date and to such batches of students (including those already in the middle of the programme) as may be decided by the Academic Council.

1. DEFINITIONS

In these regulations, unless the context otherwise requires:

- **“Degree”** means that academic award conferred upon a student on successful completion of a programme designed to achieve the defined attributes. It is referred to as Under-Graduate (UG) Degree, that is B.E./B.Tech. Degree.
- **“Programme”** means cohesive arrangement of courses, co-curricular and extracurricular activities to accomplish predetermined objectives leading to the awarding of a degree. It also means specialization or discipline of B.E./B.Tech. Degree programme like Civil Engineering, Electronics Engineering, etc.
- **“Course”** means a theory, practical or theory cum practical subject studied in a semester, like Mathematics, Physics, etc.
- **“Chairman”** means the Head of the Department.
- **“Head of the Institution”** means the Principal of the college.
- **“Head of the Department”** means head of the department concerned.
- **“Controller of Examinations”** means the authority of the College who is responsible for all activities of the Examinations.
- **“University”** means ANNA UNIVERSITY.
- **“Choice Based Credit System”** means providing choice for students to select courses from the prescribed course categories (core, elective, value-added, skill courses), in the preferred semester complying prerequisites and based on their learning aptitudes.
- **“Arrear”** means a subject in which the student has failed (has not fulfilled the examination passing criteria)
- **“Lateral Entry Students”** means students who are directly admitted into the second year of B.E./B.Tech. programme after completing Diploma in Engineering or B.Sc. degree.

2. ADMISSION

Candidate, seeking admission to the B.E./B.Tech. Programme, shall satisfy the conditions of admission prescribed by the Directorate of Technical Education and Anna University, Chennai as given below:

2.1. Regular Admission:

Candidates for admission to the first semester of the eight semesters B.E/B.Tech degree programmes should have passed:

- Higher Secondary examination (10+2) of curriculum (Regular Academic Stream) prescribed by the government of Tamilnadu with Mathematics, Physics and Chemistry as three of the four subjects of the study prescribed under Part III or any other examinations of any board or University or authority accepted by the syndicate of the university / Directorate of Technical Education (DOTE), Chennai as equivalent thereto.

(Or)

- Should have passed higher secondary examination of vocational stream (Engineering / Technology), prescribed by the government of Tamilnadu.

2.2. Lateral Entry Admission

2.2.1 The candidates who possess Diploma in Engineering / Technology awarded by the State Board of Technical Education and Training, Tamil Nadu or its equivalent are eligible to apply for Lateral Entry admission to the third semester of B.E. / B.Tech. Programmes in the branch of study as per the eligibility criteria prescribed by the Directorate of Technical Education from time to time.

(or)

2.2.2 The candidates who possess the Bachelor Degree in Science (B.Sc.) (10+2+3 stream) with Mathematics as a subject at the B.Sc. is eligible to apply for Lateral Entry admission to the third semester of B.E./B.Tech. Programmes, as per the eligibility criteria prescribed by the Directorate of Technical Education from time to time. Such candidates shall undergo two additional Engineering subject(s) one each in third and fourth semesters, as bridge courses.

3. PROGRAMMES OFFERED

A candidate may be offered admission to any one of the programmes offered by the Institution for the candidates specified in Clause 2.1 and as per the eligibility criteria of DoTE for the candidates under Clause 2.2 from the list given below:

B.E. Programmes

- (i). Civil Engineering
- (ii). Computer Science and Engineering
- (iii). Electrical and Electronics Engineering
- (iv). Electronics and Communication Engineering
- (v). Mechanical Engineering
- (vi). Biomedical Engineering

B. Tech. Programme

(vi). Information Technology

4. STRUCTURE OF THE PROGRAMME

4.1 Every programme shall have a distinct curriculum with syllabi consisting of theory, practical, life-skills and personality development courses as prescribed by the respective Boards of Studies, broadly categorized under:

- I. **Basic Science (BS)** courses including Mathematics, Physics and Chemistry.
- II. **Engineering Science (ES)** courses including Engineering Graphics, Workshop Practices, Engg. Mechanics, Basics of Electrical and Electronics Engineering and Computer Programming, etc.
- III. **Humanities and Social Science (HSS)** courses including Language Courses, Management Courses and Professional Ethics.
- IV. **Humanities and Social Science Elective (HSSE)** courses includes Elective courses from HSS
- V. **Professional Courses (PC)** include Discipline Core Courses
- VI. **Professional Electives (PE)** includes Core Electives
- VII. **Open Electives (OE)** includes courses offered by other departments.
- VIII. **Employability Enhancement Courses (EEC)** include Project Work, Internship, Seminar, Industrial visits, In-plant Training and Value Added Courses, Aptitude, Competitive exam preparation, Life Skills, etc.
- IX. **Mandatory Courses** prescribed by AICTE

The recommended distribution of credits for each category is given Table 1.

Table1: Credit Distribution

| | | Regular Entry | Lateral Entry |
|-------------|---|----------------------|----------------------|
| S.No | Category | Credits | Credits |
| A | Foundation Courses | 62* | 28* |
| | Humanities, Social Science and management (HSS) | 13* | 8* |
| | Basic Science (BS) | 25* | 9* |
| | Engineering Science (ES) | 26* | 11* |
| B | Professional Core Courses | 48* | 48* |
| C | Elective Courses | 36* | 36* |
| | Programme specific Electives | 15* | 15* |
| | Open Electives | 6* | 6* |
| | Humanities, Social Science and management (HSS) Electives | 9* | 9* |

| | | | |
|---|---|---|---|
| D | Project work, seminar, Internship/Inplant training in industry or at Higher Learning institutions, Comprehensive Viva, etc. | 13* | 13* |
| E | Mandatory Courses – Environment Science, Induction Programme, Constitution of India, Essence of Indian Tradition knowledge | Non Credit (Not included for CGPA) | Non Credit (Not included for CGPA) |
| | Minimum Credits to be earned for the award of the Degree | 155 - 160* (from A to E) and the successful completion of Mandatory Courses | 119 - 125* (from A to E) and the successful completion of Mandatory Courses |

*Minor changes can be made

The assortment of different courses shall be so designed that the student, at the end of the programme, would be able to be trained not only in his / her relevant professional field but also trained to become a responsible citizen.

The medium of instruction is English for all the Courses, Examinations, Seminar Presentation, Projects and any other courses that a student registers for.

In lab courses, 80% of experiments may be conducted. Further to encourage the usage of virtual labs, minimum one or two experiments from a reputed virtual lab may be added in all lab courses“ syllabus.

4.2. Each course is normally assigned a certain number of credits, with 1 credit per lecture period per week, 1 credit for 1 period of tutorial per week, 1 credit for 2 periods of practical per week, and 1 credit for 2 periods of seminar/project work per week.

4.3. Every student shall be required to opt for **ten** electives from the list of electives. Students can also opt for the electives from any branch of B.E/B.Tech. Programmes, besides his / her own discipline courses, during V to VIII Semesters as Open Electives.

4.4. However, out of ten electives, every student shall be required to opt for, a minimum of two electives as open electives from the list of electives of any branch other than his / her branch of specialization. There shall be no pre-requisite course for such open electives.

4.5. **Industry Supported Courses:** Students can also opt for **one-credit** (15 hours duration) **and two-credit courses** (30 hours duration). They will be offered by the experts from the industry on specialized topics. Also a faculty with enough industrial training can conduct

the course. Students can opt for such **one-credit and two-credit courses** during the semesters III to VI as and when these courses are offered. A student will also be permitted to register the **one-credit and two-credit courses** offered by other Departments, provided the student has fulfilled the necessary pre-requisites. Under no circumstance, same one credit and two-credit courses shall be repeated in subsequent semester and maximum batch size for a particular course shall not exceed 40. In the case of discipline with multiple divisions (intake more than 60) different course(s) shall be offered to other batch(es) of students. One credit and two-credit courses syllabus need to be framed in such a way that it enhances employability.

On successful completion of one credit and two-credit courses, Credits will be indicated in the Grade Sheet, but will not be considered for computing the Cumulative Grade Point Average (CGPA). However, if a student wishes to avail the exemption from any one of the Electives of the Semester VIII, he / she can do so by exercising his / her option in writing to the respective Head of the Department during the beginning of the VIII Semester by following the equivalence norm that **one regular elective (in the VIII Semester)** is equivalent to **three one-credit courses or 1 one credit + one two-credit course** completed by the student during the previous semesters, III to VI. Details of the one credit and two-credit courses offered and their syllabus shall be finalized by the Board of Studies and shall be forwarded to the office of CoE.

4.6. Online Courses

Students may be permitted to register for online courses (NPTEL, MOOC and virtual lab courses which are provided with certificate after evaluation of the performance), during fourth to seventh semester of his/her study. Institute will conduct an exam for awarding grade point. So, students can earn 6 - 9 credits additionally. On successful completion of the course, he/she may request the Head of the Department for exemption from registering for an elective course. Based on the recommendation by the team of faculty members nominated by the Head of the Department, the student will be awarded grade and credits in Elective categories. The recommendation will be sent to The Controller of Examinations after the approval by the Head of the Department.

4.7. The Course advancement Scheme shall enable students to undergo a semester-long Internship or Special Training or project work in eighth semester in a higher education institute or R&D establishment or an industry in India or in other countries. A student who secures a minimum CGPA of 8.50 in Semester IV with no history of arrears, and maintains the CGPA of 8.50 till VI Semester shall be eligible to opt for Course advancement Scheme and such student is required to complete three elective courses satisfactorily, while completion of Semester VII, as additional Credits during the

semesters V to VII.

- 4.8. Every student shall be required to carry out a Project Work in Department / Industry or by exercising course advancement scheme during VIII Semester in consultation with the Faculty Guide and submit the project report, in the prescribed format, at the end of the VIII Semester for the valuation. Individual and Interdisciplinary projects are allowed. Zeroth review shall be conducted in VII semester. If a student presents minimum one paper in a reputed International Conference like IEEE/ACM/ASME/ELSEVIER/SPRINGER, etc, an additional 10 marks can be awarded within scope of maximum marks. In case of industrial project, guide may visit the industry minimum one time.
- 4.9. **Guided study course:** A student, who does not have history of arrear in the programme and CGPA greater than 8.0, can study ONE course under Programme Elective or Open Elective or HSS elective category after his/her Second year of study, as a guided study course. One faculty member approved by the Head of the Department shall be responsible for the periodic monitoring and evaluation of the course. The student does not need to attend the classes. However, the student has to appear for continuous assessment tests and submit assignments to the respective faculty-in-charge assigned by the Head of the Department.

5. VALUE ADDED COURSES / ADD-ON COURSES

A Student can opt for the Value Added Courses / Add-on Courses offered by the various Departments from Semester IV to VII. Head of the Departments shall submit the list of such courses duly approved by BoS to the Controller of Examinations to administer the examination process. Minimum duration for a value added course is 40 hours. A separate Certificate will be issued on successful completion of the course by the Office of the Controller of Examinations. For placement oriented training such as aptitude and competitive exam preparations, suitable credits shall be given in the curriculum.

6. DURATION OF THE PROGRAMME

- 6.1. A regular student (admitted after 10+2) or equivalent is normally expected to satisfactorily fulfill the requirements for award of the degree B.E. / B.Tech. within four academic years (8 semesters) from the date of admission but in any case not more than 7 years (14 Semesters); lateral entry students shall fulfill such requirements within three academic years (6 semesters) from the date of admission but in any case not more than 6 years (12 Semesters) leading to the award of Degree of Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) of Anna University, Chennai.

- 6.2. Each semester shall consist of minimum 90 working days including examination and study holidays (65 days for conduction of classes). The Head of the Department shall ensure that every faculty member teaches the subject / course as prescribed in the approved curriculum and syllabi.
- 6.3. Special Theory / Practical Sessions may be conducted for students who require additional inputs over and above the number of periods normally specified (Remedial Classes), as decided by the Head of the Department, within the specified duration of the Semester / Programme. A technical seminar may be a group activity. More importance can be given to the method of presentation instead of giving importance to PPT to enhance the students to express their communication skills without any aids.
- 6.4. The total period for completion of the programme from the commencement of the semester, to which the student was admitted, shall not exceed the maximum period (Clause 6.1), regardless to the break-of-study (vide Clause 16) or period of prevention in order.

7. COURSE ENROLLMENT AND REGISTRATION

- 7.1. Each student, on admission shall be assigned to a Counselor (vide clause 9) who shall advise / counsel the student about the details of the academic programme and the choice of courses considering the student's academic background and career objectives.
- 7.2. Every student shall enroll for the courses of the succeeding semester, in the current semester. However, the student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the semester concerned.
- 7.3. After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment marks and appear for the End Semester Examinations.
 - 7.3.1. Each student on admission to the programme shall register for **all the courses prescribed in the curriculum in the first Semester of study (III Semester for students admitted under lateral entry stream)**. As per AICTE new curriculum, Induction programme for 3 weeks shall be conducted for first year students to fill the gap between school/diploma studies to engineering curriculum.
 - 7.3.2. The enrollment for the courses of the Semesters II to VIII will commence 10 working days prior to the last working day of the preceding semester. The student shall enroll for the courses with the guidance of the student's Counselor. If a student fails in a course, he/ she may be permitted to register the course in the subsequent semester or

when it is offered.

- 7.3.3. If a student wishes, the student may drop or add courses (vide clause 7.4) within **five** working days after the commencement of the semester concerned and complete the registration process duly authorized by the Counselor.

7.4. Flexibility to Add or Drop courses

- 7.4.1. A student has to earn the total number of credits specified in the Curriculum of the respective Programme of study in order to satisfy one of the eligible conditions to obtain the degree. However, if a student wishes, the student is permitted to earn more than the total number of credits prescribed in the curriculum of the student's programme by opting for one-credit and two-credit courses, Guided study elective or additional courses.
- 7.4.2. From the III to VIII semesters (from IV to VIII Semesters in case of lateral entry students), the student has the option of registering for additional courses or dropping existing courses. Total number of credits of such courses cannot exceed 6. However the maximum number of credits the student can register in a particular semester shall not exceed 34 credits. In such cases, the attendance requirement as stated Clause 8 is mandatory.
- 7.4.3. The student shall register for the project work in the VIII semester only.

7.5. Reappearance Registration

- 7.5.1. If a student fails in a theory course, the student shall do reappearance registration for that course in the subsequent semester or when it is offered next.
- 7.5.2. On registration, a student may attend the classes for the reappearance registration courses, if the student wishes. However, the attendance requirement (vide clause 8) is not compulsory for such courses.
- 7.5.3. If the theory course, in which the student has failed, is a professional elective or an open elective, the student may register for the same or any other professional elective or open elective course(s), respectively in the subsequent semesters.
- 7.5.4. The student who fails in any Laboratory Course/ Project work / Seminar and any other EEC course shall register for the same in the subsequent semester or when offered next, and **repeat** the course. In this case, the student shall attend the classes, satisfy the attendance requirements (vide clause 8), earn Continuous Assessment marks and appear for the End Semester Examinations. The facility of Reappearance

Registration is not available for such courses.

- 7.5.5. If a student is prevented from writing end semester examination of a course due to lack of attendance, the student has to register for that course again, when offered next, attend the classes and fulfill the attendance requirements as per clause 8. If the course, in which the student has „lack of attendance“, is a Professional Elective or an Open Elective, the student may register for the same or any other Professional Elective or Open Elective course(s) respectively in the subsequent semesters and appear in the examination as per Clause 8.

8. REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION OF A COURSE

A student who has fulfilled the following conditions (vide clause 8.1 and 8.2) shall be deemed to have satisfied the attendance requirements for appearing for end semester examination of a particular course:

- 8.1. Ideally every student is expected to attend all the periods and earn 100% attendance. However, a student should secure not less than 75% attendance course wise taking into account the number of periods required for that course as specified in the curriculum.
- 8.2. If a student secures attendance above 65% and below 75% in any course in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) or participation in Institution/ University/ State/ National/ International level extra and co-curricular activities, with prior permission from the Head of the Department, shall be permitted to appear for the current semester examinations subject to the condition that the student shall submit the medical certificate / participation certificate attested by the Head of the Department. Such certificates shall be forwarded to the Controller of Examinations for verification and for the permission to attend the examinations. Further maximum two medical certificates will be accepted throughout the programme duration. Medical certificates should be produced within 2 working days after the leave period.
- 8.3. A student shall normally be permitted to appear for End semester examination of a course if the student has satisfied the attendance requirements (vide Clause 8.1 – 8.2) and has registered for examination in those courses of that semester by paying the prescribed fee.
- 8.4. Students who do not satisfy clause 8.1 and 8.2 and who secure less than 65% attendance in a course will not be permitted to write the End-Semester Examination of that course. Such students have to register and repeat this course in the subsequent semester or when it is offered next (vide clause 7.5.5).

8.5. In the case of reappearance registration for a course (vide Clause 7.5), the student has to register for examination in that course by paying the prescribed fee.

8.6. A student who has already appeared for a course in a semester and passed the examination is not entitled to reappear in the same course for improvement of Grades/marks.

9. COUNSELOR

The Head of the Department will attach a certain number of students (maximum of 20) to a Faculty member of the Department who shall function as Counselor for those students. The counselor will help the students in planning their courses of study and for general advice on the academic programme. The Counselor shall advise and guide the students in registering of courses, reappearance of courses, monitor their attendance and progress and counsel them periodically. If necessary, the Counselor may also discuss with or inform the parents about the progress / performance of the students concerned.

10. ACADEMIC COMMITTEES

10.1. Common Course Committee

10.1.1. A theory course handled by more than one faculty or the discipline with multiple divisions (greater than or equal to 2) shall have a “Common Course Committee” comprising of all members of faculty teaching that course with one of the members as the Course Coordinator, nominated by the Head of the Institution (by Head of the Department in the case of multiple divisions) and student representatives (one per specialization or two per division) registered for that course in the current semester. First meeting of the Common Course Committee shall be held within fifteen days from the date of commencement of the semester.

Two subsequent meetings in a semester may be held at suitable intervals. During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching-learning process. It is the responsibility of the student representatives to convey the proceedings of these meetings to all the students.

10.1.2. In addition, Common Course Committee (without the student representatives) shall meet to ensure uniform evaluation through the common question papers during Tests and End-semester Examinations.

10.2 An Academic Audit committee can be constituted to monitor all academic activities of a department.

10.3 Class Committee Meeting

For all the courses taught prescribed in the curriculum, Class Committee meeting shall be convened thrice in a semester (first meeting within 2 weeks from the commencement of the semester and other two meetings at equal interval after the first meeting) comprising members of the faculty handling all the courses and six to nine student representatives from the class.

One of the members of the faculty (not handling any courses to that class), nominated by the Head of the Department, shall coordinate the activities of this committee. During these meetings, the student members shall meaningfully interact and express their opinions and suggestions of all the students to improve the effectiveness of the teaching-learning process. It is the responsibility of the student representatives to convey the proceedings of these meetings to all the students.

11. SYSTEM OF EXAMINATIONS

11.1. Performance in each course of study shall be evaluated based on (i) Continuous Assessment throughout the semester and (ii) End Semester examination at the end of the semester for the regular courses or as decided by the CoE in consultation with the Head of the Institution. However, the final examination in the case of one-credit and two-credit courses / certificate / value added courses may be conducted, as and when the course is completed, through the office of the Controller of Examinations.

11.2. Each course, both theory and practical including project work, shall be evaluated as per the Scheme of Assessment given in Clause 17.

11.3. The End Semester Examinations shall normally be conducted after satisfying the Clause 6.2. Students having completed the duration of the programme and with maximum 2 arrears, supplementary exams may be conducted.

11.4. For the End Semester examinations, both theory and practical courses including project work, the internal and external examiners from Academia or Industry shall be appointed by the Controller of Examinations as per the guidelines given by the Board of Studies meeting.

12. PASSING REQUIREMENTS AND PROVISIONS

12.1. A student who secures not less than 50% of total marks prescribed for a course, vide Clause 17, comprising a minimum of 45% of the marks prescribed for the End Semester Examination, shall be declared to have passed the course successfully and earned the

prescribed credits for that course, applicable for all registered courses.

- 12.1.1. If a student fails to secure a pass in a particular course, i.e., failing to obtain minimum marks, as stated above it is mandatory that he/she shall register and reappear for the examination in that course in the subsequent semester whenever the examinations are conducted in that course, till he / she secures a „Pass“.
- 12.1.2. Two Continuous Assessment (CA) tests shall be conducted. Each test shall be conducted for 50 marks. The duration for each test is 90 minutes.
- 12.1.3. Internal marks obtained by the student in the first appearance shall be retained and considered valid for subsequent three attempts, except Clause 7.5. After that, student has to get 50 marks in end semester examination to get pass.
- 12.2. The minimum number of total credits to be earned by a student to qualify for the award of Degree in the various branches of study as prescribed by the respective Boards of Studies is given below:

| Branch of Study | Minimum Credits | |
|---|-------------------|---------------|
| | Regular Admission | Lateral Entry |
| B.E. Programmes | | |
| Civil Engineering | 160 | 122 |
| Computer Science and Engineering | 160 | 124 |
| Electrical and Electronics Engineering | 155 | 119 |
| Electronics and Communication Engineering | 161 | 125 |
| Mechanical Engineering | 160 | 124 |
| Biomedical Engineering | 160 | 124 |
| B. Tech. Programme | | |
| Information Technology | 160 | 124 |

12.2.1. **Student Migration and Credit Transfer:** If a student migrates from other institutions to E.G.S. Pillay Engineering College, normalization of the Credits will be carried out in consultation with the BOS of the programme concerned and approved by the Head of Institution.

- 12.3.A student shall be declared to have qualified for award of B.E/B.Tech. Degree if he/she successfully completes the course requirements (vide Clause 8, 11 and 12) and passed all the prescribed courses of study of the respective programme listed in Clause 3, within the duration specified in Clause 6.1. A student need to participate minimum one programme (NSS/Yoga/Sports/Extracurricular activities) related to personality development activities.

13. ASSESSMENT AND AWARD OF LETTER GRADES

- 13.1. The assessment will be based on the performance in the End Semester Examinations and / or Continuous Assessment, carrying marks as specified in Clause 17. Letter Grades (based on Credit Point and Grade Point) are awarded to the students based on the performance in the evaluation process.
- 13.2. Credit Point is the product of Grade Point and number credits for a course and Grade Point is a numerical weight allotted to each letter grade on a 10-point scale, while the Letter Grade is an index of the performance of a student in a said course.
- 13.3. The performance of a student will be reported using Letter Grades, each carrying certain points as detailed below:

| Range of Percentage of Total Marks | Grade Points | Letter Grade |
|------------------------------------|--------------|--------------------------------|
| 91 to 100 | 10 | O (Outstanding) |
| 81 to 90 | 9 | A + (Excellent) |
| 71 to 80 | 8 | A (Very Good) |
| 61 to 70 | 7 | B + (Good) |
| 50 to 60 | 6 | B (Above average) |
| 0 to 49 | 0 | RA (Reappearance Registration) |
| Incomplete | 0 | I |
| Withdrawal | 0 | W |
| Absent | 0 | AB |

„RA“ – Reappearance registration is required for that particular course

„I“ - Continuous evaluation is required for that particular course in the subsequent semesters.

- 13.4. After completion of the evaluation process, Grade Point Average (GPA), and the Cumulative Grade Point Average (CGPA) is calculated using the formula:

$$GPA/CGPA = \frac{\sum_1^n C_i * g_i}{\sum_1^n C_i}$$

where C_i : Credit allotted to the course.

g_i : Grade Point secured corresponding to the course.

n : number of courses successfully cleared during the

particular semester in the case of GPA and during all the semesters, under consideration, in the case CGPA.

- 13.5. A student who is absent from appearing for an End Semester examination in a course,

after registering for the same, shall be deemed to have appeared for that examination for the purpose of classification (Subject to Clause 15 and 16).

13.6. Photocopy / Revaluation: A student, who seeks the re-valuation 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 2 working days from the declaration of results in the prescribed format 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 through proper application to the Controller of Examinations. The Controller of Examinations shall arrange for the revaluation and declare the results. Revaluation is not permitted to the courses other than theory courses. In the case of theory courses with laboratory component, a student can seek revaluation for the theory component only, following the procedure stated above.

14. CLASSIFICATION OF THE DEGREE AWARDED

14.1. First Class with Distinction: A student who qualifies for the award of the Degree having passed all the courses of study of all the Eight Semesters (six semesters for lateral entry students) at the first opportunity, within eight consecutive semesters (six consecutive semesters for lateral entry students) after the commencement of his / her study and securing a CGPA not less than 8.50 (vide clause 13.3) shall be declared to have passed with **First Class with Distinction**.

14.2. First Class: A student who qualifies for the award of the Degree having passed all the courses of study of all the eight semesters (six semesters for lateral entry students) within a maximum period of ten consecutive semesters (eight consecutive semesters for lateral entry students) after the commencement of his / her study and securing a CGPA not less than 7.0 shall be declared to have passed with **First Class**.

14.3. For the above purposes (Clause 14.1 – 14.2), One year authorized break of study (if availed) is permitted in addition to Eight Semesters (Six Semesters for lateral entry students) for the award of the Degree.

14.4. Second Class: All other students who qualify for the award of the Degree shall be declared to have passed in **Second Class**.

15. WITHDRAWAL FROM THE EXAMINATION

15.1. A student may, for valid reasons, be granted permission by the Head of the Department to withdraw from appearing in the examination in any course(s) of only once during the

entire duration of the degree programme.

15.2. Withdrawal application shall be valid only, if the student is eligible to write the examination as per Clause 8 and, if such request for withdrawal is made prior to the submission of marks of the Continuous Assessment of the course(s) with the recommendations from the Head of the Department.

15.3. Withdrawal shall not be construed as an opportunity for appearance in the examination for the eligibility of a student for First Class with Distinction or First Class.

16. AUTHORIZED BREAK OF STUDY FROM A PROGRAMME

16.1. A student is normally not permitted to break the period of study temporarily. However, if a student happens to discontinue the programme temporarily during the middle of programme of study, for reasons such as personal accident or hospitalization due to ill health or in need of health care, he/she shall apply to the Head of the Institution in advance, in any case, not later than the last date for registering for the semester, through the Head of the Department stating the reasons for the break-of-study. A student is permitted to go on break of study for a maximum period of one year either as two breaks of one semester each or a single break of one year. However, a student detained for want of minimum attendance requirement as per Clause 8 shall not be considered as permitted „Break of Study“ and Clause 16.3 is not applicable for such case.

16.2. The student who is permitted to rejoin the programme after the break shall be governed by Curriculum and Regulations in force at the time of rejoining.

16.3. Authorized break of study will be counted towards the duration specified for passing all the courses (vide Clause 6.4) and for the purpose of classification of Degree (vide Clause 14).

16.4. The total period for completion of the programme reckoned from the commencement of the first semester to which the student is admitted shall not exceed the maximum period specified in Clause 6.1, irrespective of the period of break of study in order that he / she may be eligible, for the award of the degree (vide clause 14).

16.5. In case of any valid reasons for the extension of break-of-study, such extended break-of-study may be granted by the Head of the Institution for a period not more than one year in addition to the earlier authorized break of study. Such extended break-of-study shall be counted for the purpose of classification of degree (vide clause 14).

16.6. If a student does not report back to the college, even after the extended Break of Study, the name of the student shall be deleted permanently from the college enrollment. Such

students are not entitled to seek readmission under any circumstances.

17. SCHEME OF ASSESSMENT

Courses offered under B.E. / B.Tech. Programmes are assessed as given below:

| | | |
|------------|---|--------------|
| I | THEORY COURSES | Marks |
| | Continuous Assessment | 40 |
| | Distribution of marks for Continuous Assessment: | |
| | <i>Test I (15)</i> | |
| | <i>Test II (15)</i> | |
| | <i>Quiz/Activity based learning /Seminars / Assignments /mini-project/Open Book Test(Any Two)</i> | 10 |
| | End Semester Examination | 60 |
| | Total Marks | 100 |
| II | THEORY COURSES WITH LAB COMPONENT | |
| | Continuous Assessment | 50 |
| | Distribution of marks for Continuous Assessment: | |
| | <i>Test I (15)</i> | |
| | <i>Test II (15)</i> | |
| | <i>Conduct of Experiment</i> | |
| | <i>Preparation, Experiment and Results, Record Note[□] (5)</i> | |
| | <i>Final Lab Examination (15)</i> | |
| | End Semester Examination | 50 |
| | Total Marks | 100 |
| III | LABORATORY COURSES | |
| | Continuous Assessment | 50 |
| | Distribution of marks for Continuous Assessment: | |
| | <i>Conduct of Experiment</i> | |
| | <i>i. Preparation (5)</i> | |
| | <i>ii. Experiment and Results (10)</i> | |
| | <i>iii. Record / Observation[□] (5)</i> | |
| | <i>Test – Cycle I (15)</i> | |
| | <i>Test – Cycle II (15)</i> | |
| | End Semester Examination | 50 |
| | <i>Experiments & Results (40)</i> | |
| | <i>Quiz comprising all experiments – (10)</i> | |
| | Total Marks | 100 |
| IV. | PROJECT | |
| | Continuous Assessment | 50 |
| | Distribution of marks for Continuous Assessment: | |
| | <u>Review I</u> | |
| | <i>Literature survey (10) Problem Identification (5) Methodology (10)</i> | |

| | | |
|-------------|---|--------------|
| | <u>Review II</u> | |
| | <i>Continuation in Methodology (10) Results / Progress (15)</i> | |
| | End Semester Examination | 50 |
| | <i>Novel Idea (10) Report (10) Presentation (20) Viva voce (10)</i> | |
| | Total Marks | 100 |
| V. | ENGLISH | Marks |
| | (CONTINUOUS ASSESSMENT ONLY) | |
| | <u>Test 1</u> | 25 |
| | <i>(Listening (10)</i> | |
| | <i>Speaking (5)</i> | |
| | <i>Reading (5)</i> | |
| | <i>Writing (5)</i> | |
| | <u>Test 2</u> | 25 |
| | <i>(Listening (10)</i> | |
| | <i>Speaking (5)</i> | |
| | <i>Reading (5)</i> | |
| | <i>Writing (5)</i> | |
| | Oral Exam | 50 |
| | Total Marks | 100 |
| VI | ONE-CREDIT AND TWO-CREDIT COURSES | Marks |
| | Test | 15 |
| | Quiz | 10 |
| | Final Examination | 25 |
| | Total Marks | 50 |
| VII | MINI-PROJECT | Marks |
| | (CONTINUOUS ASSESSMENT ONLY) | |
| | Review I | 25 |
| | Review II | 25 |
| | Project Evaluation | 50 |
| | <i>Report (25)</i> | |
| | <i>Presentation & Viva Voce (25)</i> | |
| | Total Marks | 100 |
| VIII | LIFE SKILLS | Marks |
| | (CONTINUOUS ASSESSMENT ONLY) | |
| | Test I | 25 |
| | Test II | 25 |
| | Final Examination | 50 |
| | Total Marks | 100 |

| X | VALUE ADDED COURSES / CERTIFICATE | Marks |
|----------|---|--------------|
| | COURSES (CONTINUOUS ASSESSMENT ONLY) | |
| | Test I | 25 |
| | Test II | 25 |
| | Final Evaluation / Test | 50 |
| | Grades (Excellent / Good / Satisfactory / Not Satisfactory) | |

| XI | ENGINEERING GRAPHICS | Marks |
|-----------|---|--------------|
| | Continuous Assessment | 50 |
| | Distribution of marks for Continuous Assessment: | |
| | <i>Class work (based on attendance) (5)</i> | |
| | <i>Assignments (Minimum 8 Assignments) (20)</i> | |
| | <i>Model Examination (25)</i> | |
| | End Semester Examination | 50 |
| | Total Marks | 100 |

Optional Test: A student becomes eligible to appear for the one optional test conducted after the Periodical Test II as retest or improvement test, the student may have registered for the Optional Test (Test for entire syllabus), through the concerned member of faculty who handles the course or through the respective Head of the Department, submitted to the Controller of Examinations. Such Optional Tests will be conducted only for theory and theory with lab component.

18. FIELD / INDUSTRIAL VISIT / INTERNSHIP

Heads of Departments, in order to provide the experiential learning to the students, shall take efforts to arrange at least two industrial visits / field visits in a year subject to approval of the principal. The students may also undergo in-plant training or internship during summer / winter vacation during V and VI semesters. A presentation and a report based on in-plant training/ internship shall be made in VII semester beginning and suitable credit (1 credit for 2 weeks training and 2 credits for 4 weeks training) may be awarded.

19. PERSONALITY AND CHARACTER DEVELOPMENT

All students need to undergo minimum one Personality Development Programme viz, NSS / RRC / YRC / YOGA / Rotaract club/Sports and Games / Technical and Non-technical Club activities.

The attendance of the personality and character development courses / events shall be maintained on the regular basis by concerned Coordinators and made available to the Office of the Controller of Examinations before the commencement of Semester examinations.

20. DISCIPLINE

A student is expected to follow the rules and regulations laid down by the college and the Anna University, as published from time to time. Any violations, if any, shall be treated as per the procedures stated thereof.

If a student indulges in malpractice in any of the End Semester / Continuous Assessments, he / she shall be liable for punitive action as prescribed by the Institution / University from time to time.

21. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The Institution reserves the right to revise/amend/change the Regulations, Curriculum, Syllabi, Scheme of Examinations, date of implementation and to introduce Additional Electives, Open Electives, One Credit Courses, Two credit courses and Value Added Courses through the BOS and Academic Council meetings. A standing committee (Principal as chairman and all HoDs as members) can be constituted and it can resolve all issues related to implementation of regulation, curriculum and syllabus. The resolutions shall be ratified in subsequent BOS and Academic Council meetings.