# PAAVAI ENGINEERING COLLEGE

## (AUTONOMOUS)

## REGULATIONS 2019(CBCS)

## CURRICULUM STRUCTURE

| S.No. | Category | Credit Range(160-165) | |
| --- | --- | --- | --- |
| | | Min | Max |
| 1 | Humanities and Social Sciences (HS) | 09 | 14 |
| 2 | Basic Sciences (BS) | 25 | 28 |
| 3 | Engineering Sciences (ES) | 20 | 24 |
| 4 | Professional Core Courses (PC) | 55 | 70 |
| 5 | Professional Elective Courses (PE) | 15 | 18 |
| 6 | Open Elective Courses (OE) | 06 | 12 |
| 7 | Employability Enhancement Courses (EE) | 11 | 13 |
| 8 | Mandatory Courses (MC)-(2 Courses Offered) | - | - |
| 9 | Progress Norms of the College | - | - |

*The total range of credits for the B.E/B.Tech. Programmes shall be fixed between 160-165 credits

DEAN-ACADEMICS
Paavai Engineering Colle
NH-44, Pachal Post. Nam

PRINCIPAL

PRINCIPAL
PAAVAI ENGINEERING COLLEG
NH.7 PACHAL Post. NAMA

# PAAVAI ENGINEERING COLLEGE

## (AUTONOMOUS)

## REGULATIONS 2016(CBCS)

## CURRICULUM STRUCTURE

| S.No. | Category | Credit Range(180-185) | |
|---|---|---|---|
| | | Min | Max |
| 1 | Humanities and Social Sciences (HS) | 14 | 18 |
| 2 | Basic Sciences (BS) | 30 | 35 |
| 3 | Engineering Sciences (ES) | 25 | 32 |
| 4 | Professional Core Courses (PC) | 70 | 85 |
| 5 | Professional Elective Courses (PE) | 12 | 18 |
| 6 | Open Elective Courses (OE) | 06 | 12 |
| 7 | Employability Enhancement Courses (EE) | 09 | 12 |
| 8 | Progress Norms of the College | - | - |

*The total range of credits for the B.E/B.Tech. Programmes shall be fixed between 180-185 credits

**DEAN-ACADEMICS**

**PRINCIPAL**

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NH-44, Pachal Post, Nam....

PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH.7 PACHAL Post, NAMAKKAL Dis

# PAAVAI ENGINEERING COLLEGE, NAMAKKAL – 637 018
## (AUTONOMOUS)
*(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai*

*Accredited by NBA, New Delhi and by `NAAC with "A" Grade)*

## REGULATIONS 2019

### (CHOICE BASED CREDIT SYSTEM)

## B.E./B.Tech. PROGRAMMES

*(Approved in the 5<sup>th</sup>Academic Council Meeting 25-05-2019 &*

*Amended in the 6<sup>th</sup> Academic Council Meeting 19-09-2020)*

*(Applicable for the students admitted during the academic year 2019-2020 onwards)*

**NOTE:** *The regulations hereunder are subject to amendments as may be made by the Academic Council of the College from time to time. Any or all such amendments will be effective from such date and to such batches of students (including those already undergoing the programme) as may be decided by the Academic Council)*

## 1.0   PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

I   **"Programme"** means Degree Programme,(i.e)B.E./B.Tech. Degree Programme offered by the college and approved by the University.

II   **"Discipline"** means specialization or branch of B.E./B.Tech. Degree Programme such as Civil Engineering, Computer Science and Engineering etc.

III   **"Course"** means a theory, practical or theory and practical integrated subject that is normally studied in a semester such as Computer Programming, Engineering Graphics, etc.

IV   **"University"** means ANNA UNIVERSITY, CHENNAI.

V   **"College"** means **Paavai Engineering College, Namakkal**, an Autonomous Institution affiliated to Anna University Chennai and approved by AICTE, New Delhi.

VI **"Head of the Institution"** means the Principal of the college who is responsible for the academic administration of the college.

VII **"Dean Academics"** means the authority of the college who is responsible for all academic activities of the institution and the implementation of relevant rules of these Regulations pertaining to the academic programmes.

VIII **"Controller of Examinations"** means the authority of the college who is responsible for all activities pertaining to the examinations conducted by the institution under the autonomous scheme.

IX **"Head of the Department"** means authority of the department concerned and is responsible for the all academic activities and administration of the department.

X **"Curriculum**" refers to the various components / courses studied in each programme that provide appropriate outcomes (knowledge skills and attitude/behavior ) in the chosen branch of study

XI **"L-T-P-C"** refers to Lecture, Tutorial, Practical and Credits respectively.

XII **"Board of Studies"** means the academic body of the department in the college responsible for framing the curriculum and syllabi of the programme concerned.

XIII **"Credit** "refers to the numerical weightage given to each and every course of study based on the depth of teaching – learning process of that course**.**

XIV **"Grade"** means the alphabet assigned to each course based on the range of marks secured by the student.

XV "**Grade Point**" means a numerical value (0 to 10) assigned based on the grade secured.

XVI **"Department Advisory Committee" (DAC)** consists of the Principal, the Head of the Department, a senior faculty member(s), a member from an industry and the class coordinator of the department concerned.

## 2.0 ADMISSION

**2.1** Candidates seeking admission to the **first semester** of the **B.E. / B.Tech. Degree Programme** through TNEA counseling conducted by the Government of Tamil Nadu.

Candidates should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(OR)

Candidates should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

**2.2 Lateral Entry Admission**

(i) The candidates who possess the **Diploma in Engineering / Technology** awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for admission to the third semester of B.E. / B.Tech. Programmes under Lateral Entry Scheme (LES) corresponding to their branch of study. Such candidates, if needed shall undergo two/three bridge courses in Humanities and Social Sciences (HS), Basic Sciences (BS) and Engineering Sciences (ES) either in the third or fourth semester of the period of study.

(OR)

(ii) The candidates who possess the **Degree in Science** (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. level are eligible to apply for admission to the third semester of B.E. / B.Tech. Programmes under LES. Such candidates shall undergo two/three additional engineering subjects in the third and fourth semester of the period of study as prescribed by the college.

## 3.0    PROGRAMMES OFFERED

A student may be offered one of the programme(s) in any one of the branches of study in the college approved by AICTE and affiliated to Anna University, Chennai. A student of a programme should earn the total minimum credits specified to enable him to be eligible to be awarded the degree. Normally it is recommended that the total range of credits for the B.E./B.Tech. Programmes shall be fixed between 160-165credits. In case of students admitted to the B.E/B.Tech. Programme under Lateral Entry Scheme, the credit range is fixed between 120-125 credits.

| S.No. | Degree | Branch of Study |
|-------|--------|-----------------|
| 1. | B.E. | Aeronautical Engineering |
| 2. | B.E. | Agriculture Engineering |
| 3. | B.E. | Biomedical Engineering |
| 4. | B.E. | Civil Engineering |
| 5. | B.E. | Computer Science and Engineering |
| 6. | B.E. | Cyber Security |
| 7. | B.E. | Electronics and Communication Engineering |
| 8. | B.E. | Electrical and Electronics Engineering |
| 9. | B.E. | Mechanical Engineering |
| 10. | B.E. | Mechatronics |
| 11. | B.E. | Medical Electronics |
| 12. | B.Tech. | Chemical Engineering |
| 13. | B.Tech. | Food Technology |
| 14. | B.Tech. | Information Technology |
| 15. | B.Tech. | Pharmaceutical Technology |

**4.0    DURATION OF THE PROGRAMME**

**4.1**    A student is expected to complete the B.E. /B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 semesters **(seven academic years)** for HSC (or equivalent) student and not more than 12 semesters **(six academic years)** for Lateral Entry student as per the university guidelines.

**4.2**    Each semester shall normally consist of 90 working days or the number of periods specified in the curriculum with each period of 50 minutes duration. The Head of the Institution shall ensure that every faculty member deliver the full content of the specified syllabus.

**4.3**    The Head of the department may advice / instruct the faculty members concerned to conduct additional classes for improvement, special and remedial coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations by the students, the attendance requirement as per Clause 7 should be followed.

**4.4**    The End Semester Examinations will ordinarily follow immediately after the last working day of the semester as per the academic schedule prescribed by the college from time to time.

**4.5**    The total duration for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum duration specified in Clause 4.1 irrespective of the period of break of study (vide Clause 18.4) in order that he/she may be eligible for the award of the degree (vide Clause 17.1).

**5.0    STRUCTURE OF THE PROGRAMMES**

The curriculum, syllabi and course contents under Regulations 2019 are designed and prepared in accordance with the Outcome Based Education (OBE) to meet out the Program Educational Objectives (PEOs), Program Outcomes (POs) and Course Outcomes (COs).

**5.1** Every Programme will have a curriculum with syllabi consisting of theory and practical courses (as decided by the respective Board of Studies) such as:

5.1.1 **Humanities and Social Sciences (HS)** courses include English Communication, Humanities and Management etc.

5.1.2 **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry and Biology etc.

5.1.3 **Engineering Sciences (ES)** courses include Engineering Practices, Engineering Graphics, Basics of Electrical / Mechanical / Computer etc.

5.1.4 **Professional Core Courses (PC)** include the core courses relevant to the chosen branch of study.

5.1.5 **Professional Elective Courses (PE)** include the courses relevant to the chosen branch offered and registered by the student for specialization.

5.1.6 **Open Elective Courses (OE)** include the courses offered by any engineering / science departments of the college. The student can choose and study two courses offered by other departments as open elective courses. The open elective courses may be offered from 5th semester onwards. The open elective courses should not have any pre-requisite courses.

5.1.7 **Employability Enhancement Courses (EE)** include courses such as Project, Seminar, Career Development Lab and In-plant training/ Internship.

5.1.8 **Mandatory Courses (MC)** include Environmental Science /Engineering, Value Education and Induction Programme (0 Credits)

5.1.9 **Progress Norms**: The student admitted to the B.E./ B.Tech. Programme(s) should undergo **ANY** three non-credit courses as provided in a separate list given in clause 5.3.

## 5.2 One Credit Courses (OCC)

One Credit Courses are optional. The courses shall be provided from second semester onwards, either by industry/other academic institution /parent institution / through online courses with the approval of Board of Studies of the department concerned and a maximum of six one credit courses can be opted during his/her period of study. The duration of the theory course is 15 hours, integrated theory and practical is 20 hours, practical course is 30 hours and for online courses, it shall be a minimum of 4 weeks. The students shall be exempted from any one open elective course provided in the curriculum upon the successful completion of the three one credit courses and the same has to be approved by the respective department concerned. The grades earned by the students for the one-credit courses which are not opted for conversion into an open elective, shall not be included in the computation of CGPA. However, they shall be considered as additional credits earned in the grade sheet. Core courses cannot be replaced/ exempted by any online courses like NPTEL etc. The department advisory committee shall submit the necessary equivalent grades for the marks obtained in the online one credit courses to the Controller of Examinations Office.

## 5.3 Progress Norms Courses

Every student shall be made to undergo any three non-credit courses such as co-curricular, extra-curricular and club activities listed in the table. The participation and involvement (provided with certificate) in the listed non-credit courses from approved institutions/organizations/industries shall be considered in the progress norms and will not be indicated by grades and counted for the computation of SGPA/ CGPA. He / she shall complete the 3 non-credit courses before the end of $7^{th}$ semester. The list of courses shall be revised / modified time to time based on the academic and industry needs and are subject to amendments.

| Category | Code | Details of Non-Credit Courses |
|---|---|---|
| Associated Skills (Minimum 2) | PN101 | Online course certification (Skill Development/Soft Skills) of minimum 4 weeks duration from MOOC. |
| | PN102 | Industry In-plant Training / Internship (minimum 2 weeks during the entire duration of the course) |
| | PN103 | Publication in Scopus indexed / SCI/ UGC/AICTE/ Anna University Annexure Journals |
| | PN104 | Workshops / Seminars / Development Programmes – (minimum 7 days during the entire duration of the Programme) |
| | PN105 | Any one foreign language certification through Centre for Foreign Language of the college |
| Personality and Self-Character Development | PN201 | Participation in district / state / national level cultural competition conducted by recognized agencies. |
| | PN202 | Valid certificate from the Anna University Sports Board/ Inter-state / Inter University / National level competition. |
| | PN203 | Participation in social responsible activities in and around the college through NSS/YRC/Yoga /Meditation for 1 week duration. |
| | PN204 | Participation in state / national level republic /independence day parades and integration camps. |

## 5.4 Credit Assignment

Each course is assigned certain number of credits based on the following:

| Contact period per week | Credits |
|---|---|
| 1 Lecture Period | 1 |
| 1 Tutorial Period | 1 |
| 1 Practical Period (Laboratory /Seminar/Project Work/ etc.) | 0.5 |

## 5.5 Courses per Semester

The curriculum for each semester shall normally has a blend of theory courses not exceeding 5 to 6, practical courses not exceeding 2 to 4 and integrated theory and practical courses not exceeding 5. However, the total number of courses per semester shall not exceed 7 to 9.The

maximum number of credits assigned per semester shall not exceed 25, excluding one credit, on-line and reappearance courses.

### 5.6 Industrial Training/Internship

The students may undergo Industrial training / internship for a period as specified in the Curriculum during the summer / winter vacation. In this case, the training has to be undergone continuously for the entire period. The students may undergo Internship at a Research organization / University / industry of State/National and International level (after due approval from the Department Advisory Committee) for the period prescribed in the curriculum during the summer/winter vacation. In lieu of Industrial training/Internship, students may be permitted to travel International Universities with the approval of Principal, Head of the Department and Departmental Advisory Committee for internships. Credits are awarded as per AICTE's Internship policy i.e. 40 hours of internship work merits 1 credit.

If Industrial Training / Internship is not prescribed in the curriculum, the student shall undergo Industrial Training / Internship optionally in any Research organization / University / industry of State/National and International eminence (after due approval from the Department Advisory Committee). In lieu of Industrial training/ Internship, the students may be permitted to travel International Universities. The credits for such Industrial training/ Internship are awarded as per AICTE's Internship policy i.e 40 hours of internship work merits 1 credit.

On the successful completion of the Industrial Training / Internship, if the student earns three credits in Industrial Training / Internship, he/she may drop one equivalent professional elective in the curriculum. In such cases, Industrial Training / Internship need to be undergone continuously from one organization only for the entire period.

However, if the credits earned through Industrial Training / Internship does not meet the requirement of exempting one professional elective course, then such Industrial Training / Internship shall be considered as

value added course and the respective credits earned will be indicated in the grade sheet and not computed for CGPA calculation or shall be considered for progress norms requirement. The student is allowed to undergo a maximum of 6 weeks Industrial Training / Internship during the entire duration of study.

| Duration of Training / Internship Credits | |
| --- | --- |
| Duration | Credits |
| 2 Weeks / 40 – 45 hours | 1 |
| 4 Weeks / 80 – 90 hours | 2 |
| 6 Weeks / 120 – 135 hours | 3 |

**MoU with foreign universities**

To provide international exposure for meritorious students, MoUs are signed by Paavai Engineering College with foreign universities. Students can utilize the opportunity of undergoing industrial training/Internship in foreign universities and shall transfer the credits of such industrial training/Internship done in foreign universities for exemption of courses.

**5.7    Industrial Visit**

Every student is expected to undergo one industrial visit every year starting from the second year of the programme, subject to the approval of the Head of the department and the Principal. The Heads of the department shall ensure that necessary arrangements are made in this regard.

**5.8    Online Courses**

5.8.1 The students may be permitted to undergo one online course of 3 credits weightage between $5^{th}$-$7^{th}$ semester (which are provided with certificate after evaluation of the performance) for a minimum of 12 weeks duration for those courses listed as professional electives with the approval of respective Boards of Studies concerned.

5.8.2 After the successful completion of one online course, the students may obtain   exemption from studying one Professional Elective and

in such case the marks obtained in online course shall be converted to equivalent grade and included for calculation of Cumulative Grade Point Average (CGPA). The Department Advisory Committee shall submit the necessary equivalent grades for the marks obtained in the online courses to the respective BoS for approval and then to the Controller of Examinations Office.

### 5.9 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports except for the courses on language other than English.

### 5.10 Fast Track Mode

Fast Track Mode is available to the students to undergo a semester-long internship or special training in industry or project work in department/industry.

A student who secures a minimum CGPA of 8.50 up to $4^{th}$ semester ($1^{st}$ semester to $4^{th}$ semester for Regular category / $3^{rd}$ semester & $4^{th}$ semester for Lateral Entry Scheme) and with no standing arrears as on date, shall be eligible to opt for Fast Track Mode and should maintain the CGPA of minimum of 8.50 till $6^{th}$ semester without any arrears.

Such student is required to complete the courses available in the $8^{th}$ Semester except project work satisfactorily in the earlier semesters (maximum one per semester or evenly distributed in the $5^{th}$ semester to $7^{th}$ semester) as additional courses within the completion of $7^{th}$ Semester, provided that the prerequisite of the courses should be fulfilled.

### 5.11 Every student shall be required to carry out the project work in the department / industry or by exercising Fast Track Mode during $8^{th}$ semester on a full time basis in consultation with the faculty guide and submit the project report, in the prescribed format, at the end of the $8^{th}$ semester for the valuation.

## 6.0    COURSE REGISTRATION

**6.1**   Each student, on admission shall be assigned to a Class Coordinator (vide Clause 8) 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.

**6.2**   Every student shall enroll for the courses of the succeeding semester, in the current semester (as per Clause 6.3.2). 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.

**6.3**   After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Internal Assessment marks and appear for the End Semester Examinations.

6.3.1 Each student on admission to the programme shall register for **all the courses specified in the curriculum** in the **first semester of study (3rd semester** for the students admitted under **lateral entry scheme).**

6.3.2 The enrollment for all the courses of the 2nd semester will commence 10 working days prior to the last working day of 1st semester. The student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the 2nd semester. In case, if a student fails in a course, he/ she may be permitted to register the course for examination purpose in the subsequent semester or when it is offered.

6.3.3 The enrollment for the courses of the 3rd to 8th semesters 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 Class Coordinator. If a student wishes, the student may drop or add courses (vide clause 6.4) within **five** working days after the commencement of the semester concerned

and complete the registration process duly authorized by the Class Coordinator and Head of the department.

6.3.4 In any department, the preference for registration shall be given to the students of that department for whom the course is a professional core course. The registration for any course shall be on first come first served basis, provided the students fulfill the prerequisite for that course, if any. The number of students to be registered shall be based on the classroom and laboratory capacity. Every effort shall be made by the department/centre to accommodate as many students as possible.

6.3.5 No course shall be offered by a department unless a minimum of 30 students are registered for that course. However, if the student admitted is less than 30, this minimum criterion shall not be applicable.

## 6.4 Flexibility to Add or Drop courses

6.4.1 A student has to earn the minimum total number of credits specified in the curriculum of the respective programme of study in order to be eligible to obtain the degree. However, if a student wishes, the student is permitted to earn more than the total number of credits prescribed for the semester in the curriculum by opting for additional courses.

6.4.2 From $3^{rd}$ to $8^{th}$ semesters (from $4^{th}$ to $8^{th}$ semesters in the case of lateral entry students), the student has the option of registering for additional courses provided that the prerequisite of the courses should be fulfilled or by dropping the elective courses. Total number of credits of such courses should not exceed 6 credits. However the maximum number of credits that a student can register in a particular semester shall not exceed 30 credits. In such cases, the attendance requirement as stated in Clause 7 is mandatory.

6.4.3 The student shall register for the project work in the 8$^{th}$ semester only.

## 6.5 Reappearance Registration

6.5.1 If a student fails in a course, the student shall do reappearance registration for that course in the subsequent semester or when it is offered next. The registration of reappearance courses in the subsequent semester is mandatory.

6.5.2 On registration, a student may attend the classes for the reappearance registration courses, if he/she wishes. However, the attendance requirement (vide Clause 7) is not compulsory for such courses provided that the student has secured required attendance in the previous registration.

6.5.3 If the theory course, in which the student has failed, is a professional elective or an open elective, or a mandatory course, or an integrated course (Theory & Practical) the student may register for the same in the subsequent semesters.

6.5.4 The student who fails in project work / seminar other than practical courses shall register for the same in the subsequent semester and reappear for the End Semester Examination.

6.5.5 If a student is prevented from writing the End Semester Examination for the course(s) available in that semester due to lack of attendance, the student has to re-register for that course again, when offered next, attend the classes and fulfill the attendance requirements as per Clause 7. 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 for examination as per Clause 7.

### 7.0    REQUIREMENTS FOR ATTENDANCE AND PROGRESS NORMS

### 7.1    Eligibility Norms

A student who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for completion of a semester. Ideally every student is expected to attend all classes and secure 100% attendance for the specified hours. However, the student should **secure not less than 75%** (after rounding off to the nearest integer) of overall attendance for the prescribed hours.

The student's academic progress should be satisfactory for each and every semester and is ascertained through the appearance and performance in the Continuous Internal Assessment Tests.

The student's character / conduct should be satisfactory.

### 7.2    However, a student who **secures overall attendance between 65% and 74.9%** in the current semester for the prescribed hours due to medical reasons (prolonged hospitalization/accident/specific illness)/participation in sports events may be permitted to appear for the current semester examinations to a maximum of TWO times during the period of study. In such case, the student shall submit the medical certificate/sports participation certificate attested by the Head of Department and approved by the Principal during the period of medical leave and in advance for participation in sports. The same shall be forwarded to the Controller of Examinations for record purposes.

### 7.3    Progress Norms

Students who do not satisfy the requirement of undergoing the non-credit courses viz. any of the **THREE** non-credit courses listed within **Seventh** semester will not be allowed / permitted to register for **Eighth** semester. Such students are permitted to register for the **Eighth** semester only after completing the above mentioned requirement. The satisfactory completion of the non-credit courses to meet the progress norms will be mentioned in the grade sheet as **COMPLETED.**

**7.4** Students who **secure less than 65% overall attendance and students who do not satisfy the Clause 7.1 and 7.2** and or qualify the norms for progress specified in **Clause 7.3** shall not be permitted to write the End Semester Examinations at the end of the semester and to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed by the Directorate of Technical Education, Chennai and Anna University, Chennai. The student will however be readmitted not more than once during the period of study. However, under specific circumstances, second readmission is permitted for the students on valid medical reasons.

**8.0 CLASS COORDINATOR**

The class coordinator will be one among the faculty members who are handling the respective classes. He / She will be appointed by the Head of the Department concerned. The responsibilities for the class coordinator shall be:

➢ To act as the channel of communication between the Head of the Department and the students of the respective class.

➢ To collect and maintain various academic and non-academic records of students.

➢ To help the chairperson of the class committee in planning and conducting class committee meetings.

➢ To monitor the academic performance of the students including attendance periodically and to inform the Head of the Department and parents about the student's progress.

**9.0 CLASS COMMITTEE**

**9.1** Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson should be the senior faculty of the department who is not teaching the class. The overall goal of the class committee is to improve the teaching-learning process. The functions of the class committee include:

- Solving problems encountered by students in the classroom and in the laboratories.

- **Displaying the Regulations of the degree programme on the notice board and explaining the details of the rules particularly clause 5, 6 and 7.**

- Informing the student representatives about the academic schedule including the dates of assessments and the syllabus coverage for each assessment.

- Informing the student representatives about the details of Regulations regarding mark details of each assessment. In the case of practical courses, the breakup of marks for each experiment / exercise / module of work should be clearly discussed in the class committee meeting and informed to the students.

- Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.

- Identifying the weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.

9.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.

9.3 The class committee shall be constituted within the first week of each semester.

9.4 At least 6 student representatives (usually 3 boys and 3 girls) shall be included in the class committee.

9.5 The Chairperson of the class committee may invite the Class coordinator(s) and the Head of the Department to the class committee meeting.

**9.6** The Head of the Institution may participate in any class committee meeting of the class.

**9.7** The Chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Department within two days of the meeting and arrange to circulate it among the students and teachers concerned and a copy of the minutes of meeting should be submitted to the Head of the Institution. If there are some points in the minutes requiring remedial action to be taken by the management, the same shall be brought to the notice of the management by the Head of the Institution for further action.

**9.8** The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and assessment process within the framework of the Regulations. Three subsequent meetings may be held in a semester at suitable intervals. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

**10.0 COURSE COMMITTEE FOR COMMON COURSES**

Each common theory course offered to more than one discipline or group shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as course coordinator. The nomination of the course coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments.

The 'Course Committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the internal assessment test(s).

## 11.0  SYSTEM OF EVALUATION

**11.1**  Performance in each course of study shall be evaluated based on

(i) Continuous Internal Assessment and

(ii) End Semester Examinations at the end of the semester.

**11.2**  Each theory course including mandatory courses shall be evaluated for a maximum of 100 marks with **40 marks** as internal marks based on the Continuous Internal Assessment and **60 marks** as external marks based on the End Semester Examination. Similarly, each practical course (including Project Work &Viva Voce Examination) shall be evaluated for a maximum of 100 marks with **50 marks** as internal marks based on the Continuous Internal Assessment and **50 marks** as external marks based on the End Semester Examinations.

**11.3**  The End Semester Examinations (theory including mandatory courses and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semester and between April and June during the even semester.

**11.4**  The End Semester Examinations for Project Work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the project group and an internal examiner.

**11.5**  For the End Semester Examinations in both theory and practical courses including project work, the internal and external examiners shall be appointed by the Controller of Examinations.

## 12.0  ASSESSMENT SCHEME

### 12.1  Theory & Practical Courses

| Theory Courses | | Practical Courses | |
|---|---|---|---|
| Continuous Internal Assessment (CIA) | 40 Marks | Continuous Internal Assessment | 50 Marks |
| End Semester Examinations | 60 Marks | End Semester Examinations | 50 Marks |
| Total | 100 Marks | Total | 100 Marks |
| **Internal Assessment** | | **Internal Assessment** | |
| Continuous Internal Assessment Test 1 | 7 Marks | Preparation & Conduct of Experiment | 20 |
| Continuous Internal Assessment Test 2 | 7 Marks | Observation & Results | 10 |
| Continuous Internal Assessment Test 3 | 10 Marks | Record | 05 |
| Attendance | 05 Marks | Viva | 05 |
| Practices adopted by the student (Seminar Presentation / Assignment ) | 05 Marks | 40 Marks for each experiment as specified above will be averaged as the Internal Assessment Marks **40 Marks** | |
| Innovative practices | 06 Marks | Model Practical Examinations | 10 Marks |
| **Total** | **40 Marks** | **Total** | **50 Marks** |
| **End Semester Examination** | | **End Semester Examination** | |
| **Examination Duration : 3 Hours Max. Marks : 100 (Converted to 60 marks)** | | **Examination Duration : 3 Hours Max. Marks : 100 (Converted to 50 marks)** | |

The assigned 05 marks for attendance in the continuous internal assessment process are detailed below.

| Range of Attendance | Marks |
|---|---|
| 75 % - 84 % | **03** |
| 85 % - 89 % | **04** |
| 90 % - 100 % | **05** |

### 12.2  Integrated Theory and Practical Courses

Three tests will be conducted for assigning internal marks. First two tests will be from the theory portions and the third test will be on practical content. The sum of first two test will be converted to 20 marks, each test will be contributing to the weightage of 10. The third test will be converted to 10 marks. The practical experiment marks are averaged to 10. The attendance marks for both theory and practical is summed up to 5. The assignment carries 5 marks either from theory or practical content. For end semester examination the theory and practical examinations are conducted for 100 marks and converted to 50 marks, with the constraint that the student shall obtain a minimum of 50% from each theory and practical exams.

| External Marks – 50 marks *(minimum of 50% from each theory and practical examinations)* | Theory Examinations – 100 Marks (Converted to 50 marks) |
| | Practical Examinations – 100 Marks (Converted to 50 marks) |
| Internal Marks – 50 Marks | Continuous Internal  Assessment Test 1- (Theory)   - 10 Marks |
| | Continuous Internal  Assessment Test 2- (Theory)   - 10 Marks |
| | Continuous Internal  Assessment Test 3 – (Practical) – 10 Marks |
| | Averaged  Practical  Assessment  Marks  - 10 Marks |
| | Attendance   -  5 Marks |
| | Assignment  -   5 Marks |

**12.3** Courses such as Technical Seminar / Case study are to be considered as purely **INTERNAL MODE.** Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee of various cadres appointed by Head of the Institution/Department will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The

evaluation shall be based on the seminar paper (40marks), presentation (40 marks) and response to the questions asked during presentation (20 marks).

## 12.4 Assessment for Industrial Training / Internship

Industrial Training/Internship/Summer Project which is the part of the curriculum / not part of the curriculum shall be evaluated through internal assessment only and carry 100 marks. At the end of Industrial Training/Internship, the candidate shall submit a certificate from the organization where he / she had undergone training along with a brief report. The evaluation shall be made based on the report submitted along with the presentation and a Viva voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution. The certificates (issued by the organization) submitted by the students along with the marks obtained by the students based on the evaluation shall be sent to the Controller of Examinations by the Head of the Institution. The marks shall be awarded to each student based on the individual performance.

| Category | Marks |
|----------|-------|
| Report | 40 |
| Presentation | 30 |
| Viva Voce | 30 |

**12.5** The evaluation process for theory based one credit courses shall be of 40 % internal assessment and 60 % external assessment, for integrated theory & practical and practical oriented one credit courses; it shall be of 50 % internal assessment and 50 % external assessment and for online one credit courses, the assessment shall be conducted by the respective certification authority and its marks shall be made grade equivalents by the respective advisory committee. The question papers for the one credit courses have to be provided by the expert concerned who handle the practical/ theory course to the Controller of Examinations office. The duration of examination for one credit courses may be of 1½ hours for

50 marks. The students have to appear for one continuous internal assessment and an end semester examinations.

## 12.6 Assessment for Online Course (MOOC)

On successful completion of any MOOC, the student shall submit the digitally signed / verified certificate (after performance evaluation) to the Head of the department. The grade equivalence shall be approved by Department Advisory Committee and forwarded to the Controller of Examinations.

## 12.7 Project Work

Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

12.7.1 The Head of the Institution shall constitute a Review committee for project work for each branch of study. There shall be three reviews during the semester by the Review committee. The student shall make presentation on the progress made by him / her before the committee. The project report shall be submitted as per the approved guidelines of Anna University, Chennai. The total marks obtained in the three reviews and the marks for the project report submission shall be **converted as Internal marks (50 marks)** and rounded to the nearest integer. The marks shall be awarded to every student based on the individual performance within the project group for the project report.

| Review I | Review II | Review III | Project Submission& Assessment by the Supervisor | Total Marks |
|---|---|---|---|---|
| 10 | 20 | 30 | 40 | 100 |

12.7.2 The End Semester Viva Voce Examination shall carry 100 marks. Marks are awarded to each student of the project group based on the individual performance in the Viva-Voce examination and

**converted as external End Semester Examination marks (50 marks)** and rounded to the nearest integer.

| End Semester Examinations | | | | |
|---|---|---|---|---|
| Project Evaluation (60) | | Viva-Voce (40) | | Total Marks |
| Internal | External | Internal | External | |
| 30 | 30 | 20 | 20 | 100 |

12.7.3 If a student fails to submit the project report on or before the submission date, he/she is deemed to have failed in the Project Work and shall re-enroll for the same in the subsequent semester.

12.7.4 Internal marks approved by the Head of the Institution shall be displayed in the notice board by the respective Head of the departments within 5 days from the last working day.

## 12.8 Attendance Record

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topics covered), separately for each course. This should be submitted to the Head of the Department periodically (15 days once to a maximum of 5 times per semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the Department will sign with date after due verification. At the end of the semester, the record should be verified by the Head of the Institution and submitted to the Controller of Examinations who will keep this document in safe custody (for five years). The inspection team appointed by the College / University may verify the records of attendance and assessment of both current and previous semesters.

### 12.9 Malpractice

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

### 13.0 REQUIREMENTS FOR APPEARING AND PASSING THE EXAMINATIONS

### 13.1 APPEARING REQUIREMENTS

13.1.1 A student shall normally be permitted to appear for the End Semester Examinations of the current semester if he/she has satisfied the semester completion requirements (subject to Clause 7) and has registered for examination in all courses of the semester.

13.1.2 Registration is mandatory for current semester examinations as well as arrear examinations.

13.1.3 A student who has already appeared for any subject in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades.

### 13.2 PASSING REQUIREMENTS

13.2.1 A student who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End Semester Examinations] with a minimum of 50% of the marks prescribed for the End Semester Examinations, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and practical courses (including project work).

13.2.2 If a student fails to secure a pass in a particular course, it is mandatory that he/she shall register and reappear for the examination in that course during the subsequent semester when examination is conducted in that course; he/she should continue to register and reappear for the examinations in the failed subjects till he/she secures a pass.

13.2.3 The internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent registration for the courses till the student secures a pass. However, from the third registration onwards if a student fails to obtain pass marks (Internal Assessment + End Semester Examination) as per clause 13.2.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for end semester examination alone.

13.2.4 The passing requirement is essential for completing mandatory courses which are assessed by internal and external assessments.

## 14.0 AWARD OF GRADES

All assessments of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a student , letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the student in each course as detailed below:

| Range of Marks | Letter Grade | Grade Point | Description |
|---|---|---|---|
| 90 -100 | O | 10.0 | Outstanding |
| 80 - 89 | A+ | 9.0 | Excellent |
| 70 -79 | A | 8.0 | Very Good |
| 60 - 69 | B+ | 7.0 | Good |
| 50 - 59 | B | 6.0 | Average |
| 0-49 | RA | 0.0 | Fail |
| | SA | 0.0 | Shortage of Attendance |
| | RA* | 0.0 | Absent |
| | W | 0.0 | Withdrawal |
| | SATISFACTORY | 0.0 | Pass in mandatory non-credit course |
| | NOT SATISFACTORY | 0.0 | Fail in mandatory non-credit course |

Non-credit courses shall be indicated as COMPLETED or NOT COMPLETED instead of the grades and this will not be counted for the computation of SGPA/ CGPA.

Mandatory courses shall be indicated as "SATISFACTORY" or "NOT SATISFACTORY" instead of grades as a student is deemed/ registered to get satisfactory in the mandatory course, in order to be declared for eligible for the award of the degree.

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+","B".

'**SA**' denotes **shortage of attendance** (as per 7.4) and hence prevented from writing the End Semester Examination. 'SA' will appear only in the result sheet.

**"RA*"**denotes absent for which reappearance is required for the examination in the course.

"**W**" denotes withdrawal from the exam for the particular course. (The grades RA and RA* will figure both in Grade Sheet as well as in Result Sheet)

**Grade Sheet**

After the declaration of results, grade sheet will be issued to each student which will contain the following details:

➢ The college in which the student has studied

➢ The list of courses enrolled during the semester, grade scored and Grade points earned.

➢ The Semester Grade Point Average (SGPA) for the semester and

➢ The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

SGPA for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

CGPA will be calculated in a similar manner, considering all the courses registered from the first semester to the eighth semester. "W" grade will be excluded for calculating GPA and CGPA.

The SGPA / CGPA will be available in the grade sheets only if the student has passed all the courses registered for that particular semester.

$$\text{SGPA / CGPA} = \frac{\sum_{i=1}^{n} C_i G_i}{\sum_{i=1}^{n} C_i}$$

Where

$C_i$     is the credits assigned to the course

$G_i$     is the point corresponding to the grade obtained for each course

**n**     is number of all courses successfully cleared during the particular semester in the case of SGPA and during all the semesters in the case of CGPA.

The equivalent marks to the CGPA will be printed in the grade sheet.

## 15.0 AWARD OF THE DEGREE – ELIGIBILTY & CLASSIFICATION

### 15.1 Eligibility

**A student shall be declared to be eligible for the award of the Degree if he/she has**

❖ passed the End Semester Examinations for all the courses of all the eight semesters (six semesters in the case of lateral entry)

❖ successfully gained the required number of total credits as specified in the Curriculum corresponding to his/her programme within the stipulated time.

❖ no disciplinary action pending against him/her.

- been recommended by the Academic Council of the college to the University, which in turn shall award the degree.

- successfully completed the progress norms and mandatory courses

- successfully completed any additional courses prescribed by the Dean Academics of the college, whenever any student is readmitted under Regulations other than Regulations 2019 based on the recommendations of the Academic Council.

## 15.2 Classification of the Degree Awarded

### 15.2.1 FIRST CLASS WITH DISTINCTION

A student shall be declared to have passed the examination in **First class with Distinction** under the following conditions.

- Should have passed the End Semester Examinations in all the courses of all the eight semesters (six semesters in the case of lateral entry) in his/her **FIRST APPEARANCE** within four years (three years in the case of lateral entry). Withdrawal from examination (vide Clause 17) will not be considered as an appearance. One year authorized break of study (if availed of) is permitted in addition to four years (three years in the case of lateral entry) for award of First Class with Distinction.
- Should have secured a CGPA of not less than 8.50

### 15.2.2 FIRST CLASS

A student who satisfies the following conditions shall be declared to have passed the examination in **First Class** if she/he satisfies the following conditions.

- Should have passed the End Semester Examinations in all the courses of all the eight semesters (six semesters in the case of lateral entry) within five years (four years in the case of lateral entry). One year authorized break of study (if availed of) or prevention from writing the End Semester

Examinations due to lack of attendance (if applicable) is included in the duration of five years (four years in the case of lateral entry) for award of First Class.

➢ Should have secured a CGPA of not less than 7.0

15.2.3 **SECOND CLASS**

All other students (not covered in Clauses 15.2.1 and 15.2.2) who qualify for the award of the degree (vide Clause 15) shall be declared to have passed the examination in **Second Class**.

➢ A student who is absent in semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification. (subject to Clause 17 and 18)

## 16.0  REVALUATION

**16.1** A student can apply for photocopy of his/her semester examinations answer script in a theory course, within 1 week from the declaration of results on payment of a prescribed fee through proper application to the Controller of Examination through the Head of Institution. The answer script is to be valued and justified by a faculty member, who handled the course and recommend for revaluation with breakup of marks for each question. Based on the recommendation, the candidate can register for the revaluation through proper application to the Controller of Examination. The Controller of Examination will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the institution. Revaluation is not permitted for practical courses and for project work.

**16.2** A student can apply for revaluation of answer scripts for not exceeding 5 courses at a time.

## 17.0 WITHDRAWAL FROM END SEMESTER EXAMINATION

**17.1** A candidate may be granted permission to withdraw from appearing for the examination of any regular course(s) of only one semester examinations. Such withdrawal is permitted only once during the entire period of study of the degree programme.

**17.2** Withdrawal application shall be valid only if the student is otherwise eligible to write the examination and if it is made prior to the commencement of the examination in that course or courses in normal circumstances and also recommended by the Head of the Department, otherwise the applications shall not be considered. In case of accidents or unforeseen circumstances, the withdrawal will be considered even after the conduct of examinations; however the application is made within a week time after the date of examination subject to the approval of the Head of Institution.

**17.3** Withdrawal shall not be construed as an appearance for the eligibility of a student for First Class with Distinction. Withdrawal from the End Semester Examinations is **NOT** applicable to arrear subjects of previous semesters. The student shall reappear for the withdrawn courses during the examination conducted in the subsequent semester. Withdrawal shall not be permitted in the Eighth End Semester Examinations.

## 18.0 AUTHORISED BREAK OF STUDY

**18.1** Break of Study shall be granted **only once** for valid reasons for a maximum of one year during the entire period of study of the degree programme. If a student  intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he/she applies to the Dean Academics of the college in advance, but not later than the last date for registering for the End Semester Examinations of the semester through the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.

**18.2** The students permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students rejoining in new Regulations shall apply to the Dean Academics of the college in the prescribed format through Head of the Institution at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum and the same may be approved by the Dean Academics of the college.

**18.3** The authorized break of study will not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 15.2).The total period for completion of the Programme, reckoned from the commencement of the first semester to which the student  was admitted, shall not exceed the maximum period

specified in Clause 4.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

**18.4** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1)

**19.0 CO-CURRICULAR DEVELOPMENT**

Every student being admitted to any undergraduate degree programme should undergo and involve in any of the co-curricular activities / events during the period of study.

**In plant Training** will equip the students with the latest ongoing trends in the industries**.**

**Technical Workshops / Seminars / Skill Development Courses** will enhance the skills and knowledge of the students.

**Publications** in National and International level conferences and symposiums will improve higher order thinking and presentation skills.

## 20.0 PERSONALITY AND CHARACTER DEVELOPMENT

All students shall enroll, on admission, in any of the personality and character development programmes (NSS / YRC) and undergo training for stipulated hours and in case of NSS, a special camp for about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.

**National Service Scheme (NSS)** will have social service activities in and around the College.

**Youth Red Cross (YRC)** will have activities related to social services in and around college.

**Sports & Games** activities will include preparation for inter-collegiate sports events.

**Yoga** for training the body and mind.

**Club Activities** initiate the Corporate Social Responsibility**.**

The training activities will normally be conducted during the weekends and the camp will normally be during the vacation period.

## 21.0 DISCIPLINE

Every student is required to observe discipline and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the college. The Head of Institution shall constitute a disciplinary committee consisting of the Heads of Department of which one should be from the faculty of the student to enquire into acts of indiscipline and notify to the Head of the Institution about the disciplinary action recommended for approval.

## 22.0 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The college may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and Scheme of examinations, if deemed necessary, based on the approval of Academic council of the college.

## 23.0 AUDITS ON THE EXAMINATION SYSTEM

An audit on the examination system such as verification of the standard of question papers prepared by the examiners, valuation of answer scripts and methods adopted in awarding marks will be conducted by the team of expert members from IIT/NIT/Government Engineering Colleges and reputed autonomous engineering colleges, appointed by the Head of the Institution, after the completion of all the End Semester Examinations activities of the semester.

# PAAVAI ENGINEERING COLLEGE, NAMAKKAL – 637 018
## (AUTONOMOUS)
### *(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai*

### *Accredited by NBA, New Delhi and by `NAAC with "A" Grade)*

## REGULATIONS 2019

### (CHOICE BASED CREDIT SYSTEM)

## M.E./M.B.A. /M.C.A. PROGRAMMES

### *(Approved in the 5th Academic Council Meeting 25-05-2019 &*

### *Amended in the 6th Academic Council Meeting 19-09-2020)*

### *(Applicable for the students admitted during the academic year 2019-2020 onwards)*

## 1.0    PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

I    **"Programme"** means Degree Programme, (i.e) M.E./M.B.A./M.C.A, Degree Programme offered by the college and approved by the University.

II    **"Discipline"** means specialization or branch of M.E. Degree Programme such as Power Systems Engineering, Computer Science and Engineering etc.

III    **"Course"** means a theory, practical or theory and practical integrated subject that is normally studied in a semester such as Power Quality, Advanced Digital Signal Processing etc.

IV    **"University"** means ANNA UNIVERSITY, CHENNAI.

V    **"College"** means **Paavai Engineering College, Namakkal**, an Autonomous Institution affiliated to Anna University Chennai and approved by AICTE, New Delhi.

VI    **"Head of the Institution"** means the Principal of the college who is responsible for the academic administration of the college.

VII    **"Dean Academics"** means the authority of the college who is responsible for all academic activities of the institution and the implementation of relevant rules of these Regulations pertaining to the academic programmes.

VIII **"Controller of Examinations"** means the authority of the college who is responsible for all activities pertaining to the examinations conducted by the institution under the autonomous scheme.

IX **"Head of the Department"** means authority of the department concerned and is responsible for the all academic activities and administration of the department.

X **"Curriculum**" refers to the various components / courses studied in each programme that provide appropriate outcomes (knowledge skills and attitude/behavior ) in the chosen branch of study

XI **"L–T–P–C"** refers to Lecture, Tutorial, Practical and Credits respectively.

XII **"Board of Studies"** means the academic body of the department in the college responsible for framing the curriculum and syllabi of the programme concerned.

XIII **"Credit** "refers to the numerical weightage given to each and every course of study based on the depth of teaching – learning process of that course**.**

XIV **"Grade"** means the alphabet assigned to each course based on the range of marks secured by the student.

XV "**Grade Point**" means a numerical value (0 to 10) assigned based on the grade secured.

XVI **"Department Advisory Committee" (DAC)** consists of the Principal, the Head of the Department, a senior faculty member(s), a member from an industry and the class coordinator of the department concerned.

## 2.0 ADMISSION AND MODE OF STUDY

## 2.1 Admission

2.1.1 Candidates seeking admission to the **first semester** of the Postgraduate Degree Programme shall be required to have passed an appropriate Undergraduate Degree Examinations of Anna University or equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria. Such candidates get admitted through TANCA Counseling conducted by the Government of

Tamil Nadu or through the common entrance test conducted by the Associations of Management of Coimbatore Anna University Affiliated Colleges.

2.1.2 Candidates seeking admission to M.C.A. degree programme under lateral entry scheme shall be required to have passed a recognized Bachelor's degree of minimum 3 years duration of study such as B.C.A., B.Sc. (Information Technology / Computer Science) with mathematics as a course at 10+2 level or at graduate level and obtained 50 % (45% in the case of candidates belonging to reserved community) in the qualifying degree examinations.

**Note: TANCA** releases the updated criteria during the admissions every academic year. Admission shall be offered only to the candidates who possess the qualification prescribed against each programme. Any other relevant qualification which is not prescribed against each programme shall be considered for equivalence by the committee constituted for the purpose. Admission to such degrees shall be offered only after obtaining equivalence to such degrees.

## 2.2 Mode of Study

### 2.2.1 **Full-Time**

Candidates admitted under 'Full-Time' should be available in the college / institution during the entire duration of working hours (from morning to evening on a full-time basis) for the curricular, co-curricular and extra-curricular activities assigned to them.

The Full-Time candidates should not attend any other full-time programme(s) / course(s) or take up any full-time job / part-time job in any institution or company during the period of the full-time programme. Violation of the above rules will result in cancellation of admission to the PG programme.

## 3. 0   PROGRAMMES OFFERED

A student may be offered one of the programme(s) in any one of the branches of study in the college approved by AICTE and affiliated to Anna University, Chennai.   A student of a programme should earn that total minimum credits specified to enable him/her to be eligible for the award of the degree.

| S.No. | Degree | Branch of Study |
|-------|--------|-----------------|
| 1 | M.E. | Communication Systems |
| 2 | M.E. | Computer Science and Engineering |
| 3 | M.E. | Engineering Design |
| 4 | M.E. | Power Systems Engineering |
| 5 | M.E. | Structural Engineering |
| 6 | M.B.A | Master of Business Administration |
| 7 | M.C.A. | Master of Computer Applications |

The range of credits given below

| Name of the Programmes | Range of Credits |
|------------------------|------------------|
| M.E | 65-68 |
| M.B.A. | 98-102 |
| M.C.A. | 115-120 |
| M.C.A. (Lateral Entry Scheme) | 72 - 77 |
| M.C.A. (2 Year Degree Programme) | 80-85 |

## 4.0   DURATION OF THE PROGRAMME

**4.1**   The minimum and maximum period for completion of the P.G. Programme is given below:

| Programme | Minimum No. of Semesters | Maximum No. of Semesters |
|---|---|---|
| M.E. | 04 (2 Years) | 08 (4 Years) |
| M.C.A. | 06 (3 Years) | 12 (6 Years) |
| M.C.A. ( Lateral Entry Scheme) | 04 (2 Years) | 08 (4 Years) |
| M.C.A. (2 Year Degree Programme) | 04 (2 Years) | 08 (4 Years) |
| M.B.A. | 04 (2 Years) | 08 (4 Years) |

**4.2** Each semester shall normally consist of 70 working days (including examination days) or the number of periods prescribed in the curriculum with each period of 50 minutes duration for M.E., M.B.A and M.C.A. programmes. The Head of the Institution shall ensure that every faculty member deliver the full content as per the number of periods specified in the syllabus.

**4.3** The End Semester Examinations will follow immediately after the last working day of the semester as per the academic schedule prescribed by the college from time to time.

**4.4** The total period for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in Clause 4.1 irrespective of the period of break of study (vide Clause 18.4) in order that he/she may be eligible for the award of the degree (vide Clause 17.1).

**5.0 STRUCTURE OF THE PROGRAMME**

The curriculum, syllabi and course contents under Regulations 2019 are designed and prepared in accordance with the Outcome Based Education (OBE) to meet out the Program Educational Objectives (PEOs), Program Outcomes (POs) and Course Outcomes (COs).

**5.1 Categorization of Courses**

The Board of Studies of each department comprises University nominee, two academic experts, industry expert, renowned alumni appointed by the Academic Council of the college, Heads of the Department, all faculty members of the department and senior faculty members of allied departments. The Head of the Department concerned will act as the

Chairman of the Board of Studies and will convene the meeting as and when required with the approval of the Head of the Institution. Every Programme will have a curriculum with syllabi consisting of theory and practical courses (as decided by the respective Board of Studies) such as:

5.1.1 **Foundation Courses (FC)** courses include Mathematics, or basic courses.

5.1.2 **Professional Core Courses (PC)** include the core courses relevant to the chosen programme of study

5.1.3 **Professional Elective Courses (PE)** include the courses relevant to the chosen programme offered and registered by the student for specialization.

5.1.4 **Employability Enhancement Courses (EE)** include Project work, Internship, Seminar, Professional Practices, Summer Project, Case Study and Industrial /Practical training.

5.1.5 **Open Elective Courses (OE)** include the courses which are relevant to skill development and industry context, offered by the engineering and science departments are applicable to M.E. programme(s) only. The student can choose and study any course provided in the separate list of open elective courses and it should not be of their respective programme specialization. The open elective courses shall be offered by the departments during the 3$^{rd}$ semester of the M.E. programmes. Any open elective course will be offered to the students, provided that minimum 10 students had registered for that open elective course.

5.1.6 **Audit Courses (AC)** include the courses for developing desired attitude among the learners on the line of initiatives as provided in the separate list of audit courses. The audit courses are applicable for M.E. programmes only and shall be undertaken during first and second semester.

5.1.7 **Progress Norms**

The student admitted to any of one of the programme(s) should undergo **ANY** three non-credit courses as provided in the separate list.

**5.2   Progress Norms**

5.2.1   Every student shall be made to involve in any of the three non-credit courses available and provided to the students such as co-curricular, extra-curricular and club activities. The participation and involvement (provided with certificate) in the listed non-credit courses from approved institutions/organizations/industries shall be considered in the progress norms and will not be indicated by the grades and will not be counted for the computation of SGPA/ CGPA. The additional courses shall be included as non- credit courses and provided to the students, if needed, based on the recommendations of the Academic Council of the college.

| Category | Code | Details Non-Credit of Courses |
|---|---|---|
| *Associated Skills (Minimum any Two)* | PN101 | Online course certification (Skill Development/Soft Skills) of minimum 4 weeks duration form MOOC |
| | PN102 | Industry In-plant Training / Internship *(minimum 2 weeks during the entire duration of the course)* |
| | PN103 | Publication in Scopus indexed / SCI/ UGC/AICTE/ Anna University Annexure Journals |
| | PN104 | Workshops / Seminars / Development Programmes – (minimum 7 days during the entire duration of the course) |
| *Personality and Character Development* | PN201 | Participation in district/state / national level cultural competition/Yoga-Meditation conducted by recognized agencies |
| | PN202 | Valid certificate from the Anna University Sports Board/ Interstate / Inter University / National level competition. |

## 5.3   Courses per Semester

Curriculum of a semester shall normally have a blend of theory courses and practical courses as mentioned in the table.

| Programme | Theory Courses | Practical Courses | Maximum Courses |
|---|---|---|---|
| M.E. | 5-6 | 2-3 | 7-9 |
| M.B.A. | 6-7 | 1-2 | 7-9 |
| M.C.A. | 5-6 | 2-3 | 7-9 |

## 5.4   Credit Assignment

Each course is assigned certain number of credits based on the following:

| Contact period per week | Credits |
|---|---|
| 1 Lecture period | 1 |
| 1 Tutorial period | 1 |
| 1 Practical period (laboratory / seminar /Project work) | 0.5 |

## 5.5   One Credit Courses (OC)

One Credit Courses are optional. The courses shall be provided from second semester onwards, either by industry/other academic institution /parent institution /or through online courses with the approval of Board of Studies of the department concerned and a maximum of three one credit courses can be opted during his/her period of study. The duration of the theory course is 15 hours, integrated theory and practical is 20 hours, practical course is 30 hours and for online courses, it shall be a minimum of 4 weeks. The grades earned by the students for the one-credit courses which are not opted for conversion into an open elective, shall not be included in the computation of CGPA. However, they shall be considered as additional credits earned in the grade sheet. Core courses cannot be replaced/ exempted by any on-line courses like NPTEL etc. The department advisory committee shall submit the necessary equivalent grades for the marks obtained in the online one credit courses to the COE Office.

### 5.6 Online Courses

5.6.1 The students may be permitted to undergo one online course of 3 credits weightage between $1^{st}$ and $2^{nd}$ semester (which are provided with certificate after evaluation of the performance) for a minimum of 12 weeks duration for those courses listed as professional electives with the approval of respective Boards of Studies concerned.

5.6.2 After the successful completion of one online course, the students

may obtain exemption from studying one Professional Elective and in such case the marks obtained in online course shall be converted to equivalent grade and included for calculation of Cumulative Grade Point Average (CGPA). The Department Advisory Committee shall submit the necessary equivalent grades for the marks obtained in the online courses to the respective Board of Studies for approval and then to the Controller of Examinations Office.

### 5.7 Industrial Training/Internship

The students may undergo industrial training for a period as specified in the Curriculum during summer/winter vacation at industry/research organizations /Universities/ academic institutions in India and abroad (after due approval from the Department Consultative Committee)

If Industrial training / internship is not prescribed in the curriculum, the students may undergo Industrial training / internship optionally for a minimum of two weeks and earns the certificate and such certificate shall be considered for progress norms requirement.

**MoU with foreign universities**

To provide international exposure for meritorious students, MoUs are signed by Paavai Engineering College with foreign universities. Students can utilize the opportunity of undergoing industrial training/Internship in foreign universities and shall transfer the credits of such industrial training/Internship done in foreign universities for exemption of courses.

### 5.8 Industrial Visit

Every student is expected to undergo one industrial visit every year starting from the first year of the programme, subject to the approval of the HoD and the Principal. The Heads of the department shall ensure that necessary arrangements are made in this regard.

### 5.9 Project Work

The Project work is an important component of a postgraduate programme. The Project work for M.E. programme consists of Phase I work & Phase II work. The Phase I work is to be undertaken during $3^{rd}$ semester of M.E. programme and Phase II work which is a continuation of Phase I work is to be undertaken during $4^{th}$ semester, for M.C.A. / M.B.A. programme, the project work has to be undertaken in the final semester.

5.9.1 The Project work (Phase-II) for M.E./M.C.A./M.B.A. programme shall be pursued for a minimum of 16 weeks.

5.9.2 Project work shall be carried out under the supervision of a faculty member possessing Ph.D. degree or post graduate degree with a minimum of 3 years experience in teaching.

5.9.3 A student may, however, in certain cases, be permitted to work on project in an industry / research organization, on the recommendation of the Head of the Department. In such cases, the project work shall be jointly supervised by a supervisor of the department and an expert as a joint supervisor from the organization. The student shall be instructed to meet the supervisor periodically and to attend the review committee meetings conducted in the department for the evaluation of the project work.

**5.10** Practical training or Industrial training as specified in the curriculum shall be organized by the Head of the Department / Institution for a duration not exceeding 4 weeks.

**5.11** The student of M.E. programme shall undergo 2 weeks training in teaching practices like handling theory and practical courses to the undergraduate programme.

**5.12**  Summer project if specified in the curriculum, shall be organized by the Head of the Department / Institution for a duration not exceeding 6 weeks.

**5.13**  The open electives as provided in the separate list are to be chosen by the students with the approval of the Head of the Department. The Head of the Department offering such courses also approves such requests subject to no clash in the time-table for the lecture classes.

**5.14  Medium of Instruction**

The medium of instruction shall be English for all courses, examinations, seminar presentations and project thesis/dissertation reports.

**6.0   COURSE REGISTRATION**

**6.1**  Each student, on admission shall be assigned to a Class Coordinator (vide Clause 8) 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.

**6.2**  Every student shall enroll for the courses of the succeeding semester, in the current semester. However, the student shall confirm the enrollment by registering the courses within the first five working days after the commencement of the semester concerned.

**6.3**  After registering a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Internal Assessment marks and appear for the End Semester Examination.

6.3.1 Each student on admission to the programme shall register for **all the courses prescribed in the curriculum in** the **first Semester of study (3ʳᵈ semester** for students admitted under **lateral entry scheme).**

6.3.2 The enrollment for all the courses of the 2ⁿᵈ semester will commence 10 working days prior to the last working day of 1ˢᵗ semester. The student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the 2ⁿᵈ semester. In case, 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.

6.3.3 The enrollment for the courses of the 2$^{nd}$ semester to final semester 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 class coordinator. If a student wishes, the student may drop or add courses (vide Clause 6.4) within five working days after the commencement of the semester concerned and complete the registration process duly authorized by the Class Coordinator.

6.3.4 In any department, the preference for registration shall be given to the students of that department for whom the course is a programme core course. The registration for any course shall be on first come first served basis, provided the student fulfills prerequisites for that course, if any. The number of students to be registered shall be based on the class room and laboratory capacity. Every effort shall be made by the Department/Centre to accommodate as many students as possible.

6.3.5 No course shall be offered by a department unless a minimum of 5 students are registered for that course. However, if the student admitted is less than 5, this minimum will not be applicable.

6.3.6 The student shall register for the Project Phase I work in the third semester and Project Phase II work in the fourth semester of M.E programme. In case of MBA/MCA (2 Year Degree) programme the student shall register for project work in the fourth semester. In case of MCA programme, the student shall register for project work in the sixth semester. However, if the student does not satisfy the requirement of undergoing the Non-Credit Courses, viz any three of the non-credit Courses as specified in the list, the student may not be permitted to register for the Project Work (Phase II in the case of M.E.)

## 6.4 Flexibility to Add or Drop Courses

6.4.1 A student has to earn a total minimum number of credits specified in the curriculum of the respective programme of study in order to be eligible to obtain the degree. However, if a student wishes, the student is permitted to earn more than the total number of credits prescribed for the semester in the curriculum by opting for additional courses.

6.4.2 From the 2nd to final semesters, the student has the option of registering for additional courses provided that the prerequisite of the courses should be fulfilled or by dropping the elective courses. Total number of credits of such courses cannot exceed 6for Postgraduates. However the maximum number of credits that a student can register in a particular semester for M.E. programme shall not exceed 24 credits, for M.B.A. programme shall not exceed 36 credits and M.C.A. programme shall not exceed 28 credits. In such cases, the attendance requirement as stated Clause 7 is mandatory.

## 6.5 Reappearance Registration

6.5.1 If a student fails in a course, the student shall do reappearance registration for that course in the subsequent semester or when it is offered next. The registration of reappearance courses in the subsequent semester is mandatory.

6.5.2 On registration, a student may attend the classes for the reappearance registration courses, if he/she wishes. However, the attendance requirement (vide Clause 7) is not compulsory for such courses.

6.5.3 If the theory course, in which the student has failed, is a professional elective or an open elective or an audit course, or an integrated theory and practical the student may register for the same in the subsequent semesters.

6.5.4 If a student is prevented from writing the 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 7.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 7.

## 7.0 REQUIREMENTS FOR ATTENDANCE AND PROGRESS NORMS

### 7.1 Eligibility Norms

A student who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester.

Ideally every student is expected to attend all classes and secure 100% attendance for the specified hours. However, the student should **secure not less than 75%** (after rounding off to the nearest integer) of overall attendance for the specified hours.

The student's academic progress should be satisfactory for each and every semester and is ascertained through the appearance and performance in the Continuous Internal Assessment Tests.

The student's character / conduct should be satisfactory.

### 7.2 However, a student who **secures overall attendance between 65% and 74.9 %** in the current semester for the specified hours due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examinations to a maximum of TWO times during the period of study. In such case, the student shall submit the medical certificate/sports participation certificate attested by the Head of Department and approved by the Principal during the period of medical leave and prior in advance for participation in sports. The same shall be forwarded to the Controller of Examinations for record purposes.

### 7.3 Progress Norms

Students who do not satisfy the requirement of undergoing the non-credit courses viz. any of the **THREE** non-credit courses provided in the separate

list, within the **Third/Fifth** semester will not be allowed / permitted to register for **Fourth/Sixth**(For the MCA students who has been admitted in the academic year 2019-20 only) semester. Such Students are permitted to register for the **Fourth/Sixth** (For the MCA students who has been admitted in the academic year 2019-20 only) semester only after completing the above mentioned requirements. The satisfactory completion of the non-credit courses to meet the progress norms will be mentioned in the grade sheet as **COMPLETED.**

**7.4** Students who **secure less than 65% overall attendance and students who do not satisfy the Clause7.1 and 7.2** and / or qualify the norms for progress specified in **Clause7.3** shall not be permitted to write the End Semester Examinations at the end of the semester and to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed by the Directorate of Technical Education, Chennai and Anna University, Chennai. The student will however be readmitted not more than once during the period of study. However, under specific circumstances, second readmission is permitted for the students on valid medical reasons.

**8.0 CLASS COORDINATOR**

The class coordinator will be one among the faculty members who are handling the respective classes. He / She will be appointed by the Head of the Department concerned. The responsibilities for the class coordinator shall be:

➢ To act as the channel of communication between the Head of the Department and the students of the respective class.

➢ To collect and maintain various statistical details of students.

➢ To help the chairperson of the class committee in planning and conducting the class committee meetings.

➢ To monitor the academic performance of the students including attendance periodically and to inform the Head of the Department and parents about the student's progress.

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### 9.0 CLASS COMMITTEE

**9.1** Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson should be the senior faculty member of the department who is not teaching the class. The overall goal of the class committee is to improve the teaching-learning process. The functions of the class committee include:

- Solving problems encountered by students in the classroom and in the laboratories.
- **Displaying the Regulations of the degree programme on the notice board and explaining the details of the rules particularly Clause 5, 6 and 7**
- Informing the student representatives about the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
- Informing the student representatives about the details of Regulations and mark details of each assessment. In case of practical courses, the breakup of marks for each experiment / exercise / module of work should be clearly discussed in the class committee meeting and informed to the students.
- Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
- Identifying the weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.

**9.2** The class committee for a class under a particular branch is normally constituted by the Head of the Department.

**9.3** The class committee shall be constituted within the first week of each semester.

**9.4** At least 2 student representatives (usually 1 boy and 1 girl) shall be included in the class committee.

**9.5** The Chairperson of the class committee may invite the Class Coordinator(s) and the Head of the Department to the class committee meeting.

**9.6** The Head of the Institution may participate in any class committee meeting of the class.

**9.7** The Chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Department within two days of the meeting and arrange to circulate it among the students and the teachers concerned and a copy of the minutes of meeting should be submitted to the Head of the Institution. If there are some points in the minutes requiring remedial action to be taken by the management, the same shall be brought to the notice of the management by the Head of the Institution for further action.

**9.8** The first meeting of the class committee shall be held within one week from the date of commencement of the semester in order to inform the students about the nature and assessment process within the framework of the Regulations. Three subsequent meetings may be held in a semester at suitable intervals. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

**10.0 COURSE COMMITTEE FOR COMMON COURSES**

Each common theory course offered to more than one discipline or group shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course Committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the internal assessment test(s).

## 11.0 SYSTEM OF EVALUATION

**11.1** Performance in each course of study shall be evaluated based on

(i) Continuous Internal Assessment and

(ii) End Semester Examination at the end of the semester.

**11.2** Each theory course shall be evaluated for a maximum of 100 marks with 40 marks as Internal marks based on the Continuous Internal Assessment and 60 marks as External marks based on the End Semester Examination. Similarly each practical course (including Project Work &Viva Voce examinations) shall be evaluated for a maximum of 100 marks with 50 marks as Internal marks based on the Continuous Internal Assessment and 50 marks as External marks based on the End Semester Examinations.

**11.3** The End Semester Examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.

**11.4** The End Semester Examinations for project work shall consist of evaluation of the final report submitted by the student by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the student and an internal examiner.

**11.5** For the End Semester Examination in both theory and practical courses including Project Work, the internal and external examiners shall be appointed by the Controller of Examinations.

## 12.0 ASSESSMENT SCHEME

### 12.1 Theory & Practical Courses

| Theory Courses | | Practical Courses / Project Work | |
|---|---|---|---|
| Continuous Internal Assessment | 40 Marks | Continuous Internal Assessment | 50 Marks |
| End Semester Examination | 60 Marks | End Semester Examination | 50 Marks |
| Total | 100 Marks | Total | 100 Marks |

| Internal Assessment | | Internal Assessment | |
|---|---|---|---|
| Continuous Internal Assessment Test 1 | 10 Marks | Preparation & Conduct of Experiment | 20 |
| Continuous Internal Assessment Test 2 | 10 Marks | Observation & Results | 10 |
| Continuous Internal Assessment Test 3 | 10 Marks | Record | 05 |
| Attendance | 05 Marks | Viva | 05 |
| | | 40 Marks for each experiment as specified above will be averaged as the Internal Assessment Marks **40 Marks** | |
| Practices adopted by the student (Seminar Presentation / Assignment /case study) | 05 Marks | Model Practical Examinations | 10 Marks |
| **Total** | **40 Marks** | **Total** | **50 Marks** |
| **End Semester Examination** | | **End Semester Examinations** | |
| **Examination Duration : 3 Hours Max. Marks : 100 (Converted to 60 marks)** | | **Examination Duration : 3 Hours Max. Marks : 100 (Converted to 50 marks)** | |

The assigned 05 marks for attendance in the continuous internal assessment process are detailed below.

| Range of Attendance | Marks |
|---|---|
| 75 % - 84 % | **03** |
| 85 % - 89 % | **04** |
| 90 % - 100 % | **05** |

## 12.2  Integrated Theory and Practical Courses

Three tests will be conducted for assigning internal marks. First two tests will be from the theory portions and the third test will be on practical content. The sum of first two tests will be converted to 20 marks, each test will be contributing to the weightage of 10. The third test will be on practical content and it is converted to 10 marks. The practical experiment marks are averaged to 10 marks. The attendance marks for both theory and practical is summed up to 5. The assignment carries 5 marks either from theory or practical content. For end semester examination the theory and practical examinations are conducted for 100 marks and converted to 50, with the constraint that the student shall obtain a minimum of 50% from theory and practical exams.

| External Marks – 50 marks *(minimum of 50% from each theory and practical examinations)* | Theory Examinations – 100 Marks (Converted to 50 marks) |
|---|---|
| | Practical Examinations – 100 Marks (Converted to 50 marks) |
| Internal Marks – 50 Marks | Continuous Internal Assessment Test 1- (Theory) - 10 Marks |
| | Continuous Internal Assessment Test 2- (Theory) - 10 Marks |
| | Continuous Internal Assessment Test 3 – (Practical) – 10 Marks |
| | Averaged Practical Assessment Marks - 10 Marks |
| | Attendance - 5 Marks |
| | Assignment - 5 Marks |

**12.3** Courses such as Technical Seminar / Case study are to be considered as purely **INTERNAL** with **NO CREDIT**. Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee of various cadres appointed by Head of the Institution/Department will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40 marks), presentation (40 marks) and response to the questions asked during presentation (20 marks).

**12.4** Courses such as Industrial / In-plant training and summer project shall be evaluated through internal assessment only. At the end of Industrial / Practical training / Summer Project, the student shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a Viva Voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.

**12.5** The evaluation process for theory based one credit courses should be of 40 % internal assessment and 60 % external assessment, for practical oriented

one credit courses; it shall be of 50 % internal assessment and 50 % external assessment and for online one credit courses, the assessment shall be conducted by the respective certification authority and its marks shall be made grade equivalents. The question papers for the one credit courses have to be provided by the expert concerned who handle the practical/ theory course to the COE office. The duration of examination for one credit courses may be of 1 ½ hours.

## 12.6 Assessment for One Credit Courses

The evaluation process for theory based one credit courses shall be of 40 % internal assessment and 60 % external assessment, for integrated theory and practical and practical oriented one credit courses; it shall be of 50 % internal assessment and 50 % external assessment and for online one credit courses, the assessment shall be conducted by the respective certification authority and its marks shall be made grade equivalents by the respective advisory committee. The question papers for the one credit courses have to be provided by the expert concerned who handle the practical/ theory course to the COE office. The duration of examination for one credit courses may be of 1½ hours. The students have to appear for One Continuous Internal Assessment of and End Semester examinations

## 12.7 Assessment for Online Course (MOOC)

On successful completion of any MOOC, the student shall submit the digitally signed / verified certificate (after performance evaluation) to the Head of the department. The grade equivalence shall be approved by Department Advisory Committee and forwarded to the Controller of Examinations

## 12.8 Project Work

12.8.1 The Project work for M.E. consists of Phase I work and Phase II work. The Phase I work is to be undertaken during 3rd semester and Phase II work, which is a continuation of Phase I work, is to be undertaken during 4th semester.

12.8.2 In case of students of M.E. Programme not completing Phase I work of project work successfully, the students can undertake Phase I work

again in the subsequent semester. In such case, the students can enroll for Phase II work, only after the successful completion of Phase I work.

12.8.3 Project work shall be carried out under the supervision of a "qualified faculty member" in the department concerned. In this context "qualified faculty member" means the faculty member possessing (i) PG degree with a minimum of 3 years experience in teaching or (ii) Ph.D. degree.

12.8.4 The deadline for submission of final project report is 30 calendar days from the last working day of the semester in which project / thesis / dissertation is done. However, the Phase-I of the project work in the case of M.E. shall be submitted within a maximum period of 30 calendar days from the last working day of the semester as per the academic calendar published by the college.

12.8.5 The students pursuing M.E. programmes should publish /communicate the project work to refereed / Scopus indexed journals and national / international level conferences. The publications of the project work in the refereed / Scopus indexed journals and national / international level conference is MANDATORY for submitting the thesis.

## 12.9  Evaluation of Project Work

12.9.1 The evaluation of Project Work for Phase I & Phase II of M.E., project work of M.B.A and M.C.A shall be done independently in the respective semesters and marks shall be allotted as per the weightage.

12.9.2 The Head of the Institution shall constitute a Review Committee for project work for each branch of study. There shall be three reviews of 100 marks each during the semester by the Review Committee. The student shall make a presentation on the progress made by him / her before the committee. The project report shall be submitted as per Anna University, Chennai. The total marks obtained in the three reviews and the marks for thesis submission shall be **converted as internal marks (50 marks)** and rounded to the nearest integer.

| Review I | Review II | Review III | Project Submission & Assessment by the Supervisor | Total Marks |
|:---:|:---:|:---:|:---:|:---:|
| 10 | 20 | 30 | 40 | 100 |

12.9.3 The End Semester Viva Voce Examination shall carry 100 marks. Marks are awarded to each student based on the performance in the viva-voce examination and **converted as external End Semester Examination marks (50 marks)** and rounded to the nearest integer.

| End Semester Examinations | | | | |
|:---:|:---:|:---:|:---:|:---:|
| **Project Evaluation (40)** | | **Viva-Voce (60)** | | **Total Marks** |
| **Internal** | **External** | **Internal** | **External** | |
| 20 | 20 | 30 | 30 | 100 |

12.9.4 If the student fails to obtain 50% of the internal assessment marks in the Phase I and Phase II / final project, he/she will not be permitted to submit the report for that particular semester and has to re-enroll for the same in the subsequent semester.

12.9.5 If a student fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the project work and shall re-enroll for the same in a subsequent semester. This applies to both Phase–I and Phase–II in the case of M.E. Project Work and the Final Project work of M.B.A. / M.C.A.

12.9.6 If a student fails in the End Semester Examination of Phase I of project work, he/she has to resubmit the project report within 30 days from the date of declaration of the results and the viva-voce examinations will be conducted in the subsequent semester and he/she has to take up the project work (Phase-II) after the successful completion of Project work(Phase-I). If he/she fails in the End Semester Examination of Phase–II of Project work of M.E. or the final project work of M.B.A. / M.C.A, he/she shall resubmit the Project

Report within 60 days from the date of declaration of the results. The resubmission of a project report and subsequent viva-voce examination will be considered as reappearance with the payment of exam fee.

12.9.7 A copy of the approved project report after the successful completion of Viva Voce examination shall be kept in the library of the college / institution.

12.9.8 Practical/Industrial training, Summer project as specified in the curriculum shall not exceed the maximum duration of 6 weeks and should be organized by the Head of the Department for every student.

**12.10** Internal marks approved by the Head of the Institution shall be displayed on the notice board by the respective HODs within 5 days from the last working day (except the Project work marks)

## 12.11 Attendance Record

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or tutorial or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the Department periodically (15 days once to maximum of 5 times per semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the Department will sign with date after due verification. At the end of the semester, the record should be verified by the Head of the Institution and submitted to the Controller of Examinations who will keep this document in safe custody (for five years). The inspection team appointed by the College / University may verify the records of attendance and assessment of both current and previous semesters.

## 12.12 Malpractice

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

## 13.0 REQUIREMENTS FOR APPEARING AND PASSING THE EXAMINATIONS

### 13.1 Appearing Requirements

13.1.1 A student shall normally be permitted to appear for the End Semester Examinations of the current semester if he/she has satisfied the semester completion requirements (subject to Clause 7) and has registered for examination in all courses of the semester.

13.1.2 Registration is mandatory for current semester examinations as well as for arrear examinations.

13.1.3 A student who has passed all the courses prescribed in the curriculum for the award of the degree shall not be permitted to re-enroll to improve his/her marks in a course or the aggregate marks / CGPA.

### 13.2 Passing Requirements

13.2.1 A student who secures not less than 50% of total marks prescribed for the course [Continuous Internal Assessment + End Semester Examinations] with a minimum of 50% of the marks prescribed for the End Semester Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and practical courses (including project work).

13.2.2 If a student fails to secure a pass in a particular course, it is

mandatory that he/she shall register and reappear for the examination in that course during the subsequent semester when examination is conducted in that course; he/she should continue to register and reappear for the examinations in the failed subjects till he / she secures a pass.

13.2.3 The internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent registrations till the student secures a pass. However, from the third registration onwards if a student fails to obtain pass marks (Internal Assessment + End Semester Examination) as per clause 13.2.1, then the student shall be declared to have passed the examination if he/she

secures a minimum of 50% marks prescribed for end semester examinations alone.

13.2.4 The passing requirement is essential for completing audit courses which are assessed by internal and external assessments.

## 14.0 AWARD OF GRADES

All assessments of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a student, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the student in each course as detailed below:

| Range of Marks | Letter Grade | Grade Point | Description |
|----------------|--------------|-------------|-------------|
| 90 -100 | O | 10 | Outstanding |
| 80 - 89 | A+ | 9 | Excellent |
| 70 -79 | A | 8 | Very Good |
| 60 - 69 | B+ | 7 | Good |
| 50 - 59 | B | 6 | Average |
| 0-49 | RA | 0 | Fail |
| | SA | 0 | Shortage of Attendance |
| | RA* | 0 | Absent |
| | W | 0 | Withdrawal |
| | SATISFACTORY | 0 | Pass in audit non-credit course |
| | NOT SATISFACTORY | 0 | Fail in audit non-credit course |

Non-credit courses shall be indicated as COMPLETED or NOT COMPLETED instead of the grades and this will not be counted for the computation of SGPA/ CGPA.

Audit courses shall be indicated as "SATISFACTORY" or "NOT SATISFACTORY" instead of grades as a student is deemed/ registered to get "satisfactory" in the audit course, in order to be declared for eligible for the award of the degree.

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+","B".

'**SA**' denotes **Shortage of Attendance** (as per Clause 6.4) and hence prevented from writing the end semester examination. 'SA' will appear only in the result sheet.

"**RA\*"**denotes **Absent** for which reappearance is required for the examination in the course.

"**W**" denotes **Withdrawal** from the exam for the particular course. (The grades RA will figure both in Grade Sheet as well as in the Result Sheet)

**Grade sheet**

After the results are declared, Grade Sheet will be issued to each student which will contain the following details:

➢ The college in which the student has studied

➢ The list of courses enrolled during the semester, grade scored and grade points earned

➢ The Semester Grade Point Average (SGPA) for the semester and

➢ The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

SGPA for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

CGPA will be calculated in a similar manner, considering all the courses registered from the first semester to the inal semester. "W" grade will be excluded for calculating SGPA and CGPA.

The SGPA / CGPA will be available in the grade sheets only if the student has passed all the courses registered for that particular semester.

$$\text{SGPA / CGPA} = \frac{\sum_{i=1}^{n} C_i G_i}{\sum_{i=1}^{n} C_i}$$

Where

**$C_i$**    is the credits assigned to the course

**$G_i$**    is the point corresponding to the grade obtained for each course

**n**    is number of all courses successfully cleared during the particular semester in the case of SGPA and during all the semesters in the case of CGPA.

The equivalent marks to the CGPA will be printed in the grade sheet.

## 15.0 AWARD OF THE DEGREE – ELIGIBILTY & CLASSIFICATION

### 15.1 Eligibilty

**A student shall be declared to be eligible for the award of the Degree if he/she has**

❖ passed the End Semester Examinations for all the courses of all the semesters as specified in the Curriculum.

❖ successfully gained the required number of total credits as specified in the Curriculum corresponding to his/her programme within the stipulated time.

❖ no disciplinary action pending against him/her.

❖ been recommended by the Academic Council of the college to the University, which in turn shall award the degree.

❖ successfully completed any additional courses prescribed by the Dean Academics of the college, whenever any student is readmitted under Regulations other than Regulations 2019 based on the recommendations of the Academic Council.

### 15.2 CLASSIFICATION OF THE DEGREE AWARDED

#### 15.2.1 **FIRST CLASS WITH DISTINCTION**

A student shall be declared to have passed the examination in **First Class with Distinction** under the following conditions.

**M.E, M.B.A. & M.C.A (LES)**

➢ Should have passed the End Semester Examinations in all the courses of all the four semesters in his/her **First Appearance** within two years. Withdrawal from examination (vide Clause 17) will not be considered as an appearance. One year authorized break of study (if availed of) is permitted in addition to two years for the award of First Class with Distinction.

➢ Should have secured a CGPA of not less than 8.50

**M.C.A.**

➢ Should have passed the End Semester Examinations in all the courses of all the six semesters in his/her **First Appearance** within three years. Withdrawal from examination (vide Clause 17) will not be considered as an appearance. One year authorized break of study (if availed of) is permitted in addition to three years for the award of First Class with Distinction.

➢ Should have secured a CGPA of not less than 8.50

**M.C.A. (2 Years Degree Programme)**

➢ Should have passed the End Semester Examinations in all the courses of all the four semesters in his/her **First Appearance** within two years. Withdrawal from examination (vide Clause 17) will not be considered as an appearance. One year authorized break of study (if availed of) is permitted in addition to two years for the award of First Class with Distinction.

➢ Should have secured a CGPA of not less than 8.50

15.2.2 **FIRST CLASS**

A student shall be declared to have passed the examination in **First class** if he/she satisfies the following conditions.

**M.E., M.B.A. & M.C.A (LES)**

➢ Should have passed the End Semester Examinations in all the courses of all the four semesters within three years. One year authorized break of study (if availed of) or prevention from writing the End Semester Examinations due to lack of attendance (if applicable) is included in the three years.

➢ Should have secured a CGPA of not less than 7.0

**M.C.A.**

➢ Should have passed the End Semester Examinations in all the courses of all the six semesters within four years. One year authorized break of study (if availed of) or prevention from writing the End Semester Examinations due to lack of attendance (if applicable) is included in the four years.

➢ Should have secured a CGPA of not less than 7.0.

**M.C.A. (2 Years Degree Programme)**

➢ Should have passed the End Semester Examinations in all the courses of all the four semesters within three years. One year authorized break of study (if availed of) or prevention from writing the End Semester Examination due to lack of attendance (if applicable) is included in the three years.

➢ Should have secured a CGPA of not less than 7.0.

15.2.3 **SECOND CLASS**

➢ All other students (not covered in Clauses 15.2.1 and 15.2.2) who qualify for the award of the degree (vide Clause 15) shall be declared to have passed the examination in **Second Class**.

➢ A student who is absent in End Semester Examination in a course / project work after having registered for the same shall be considered

to have appeared in that examination for the purpose of classification. (subject to Clause 17 and 18)

## 16.0 REVALUATION

**16.1** A student can apply for photocopy of his/her semester examination answer script in a theory course, within 1 week from the declaration of results on payment of a prescribed fee through proper application to the Controller of Examination through the Head of Institution. The answer script is to be valued and justified by a faculty member, who handled the course and recommend for revaluation with breakup of marks for each question. Based on the recommendation, the candidate can register for the revaluation through proper application to the Controller of Examination. The Controller of Examination will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the institution. Revaluation is not permitted for practical courses and for project work.

**16.2** A student can apply for revaluation of answer scripts for not exceeding 5 courses at a time.

## 17.0 WITHDRAWAL FROM END SEMESTER EXAMINATION

**17.1** A student may be granted permission to withdraw from appearing for the examination of any regular course(s) of only one semester examinations. Such withdrawal is permitted **only once during the entire period** of study of the degree programme.

**17.2** Withdrawal application shall be valid only if the student is otherwise eligible to write the examination and if it is made prior to the commencement of the examination in that course or courses in normal circumstances and also recommended by the Head of the Department, otherwise the applications shall not be considered. In case of accidents or unforeseen circumstances, the withdrawal will be considered even after the conduct of examination, however the application is made within a week time subject to the approval of the Head of the Department and the Head of the Institution.

**17.3** Withdrawal shall not be construed as an appearance for the eligibility of a student for First Class with Distinction. Withdrawal from the End Semester Examinations is **NOT** applicable to arrear subjects of previous semesters. The student shall reappear for the withdrawn courses during the examination conducted in the subsequent semester. Withdrawal shall not be permitted in the **Fourth / Sixth** (2 year degree programme) End Semester Examinations.

## 18.0  AUTHORISED BREAK OF STUDY

**18.1** Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Dean Academics of the college in advance, but not later than the last date for registering for the End Semester Examinations of the semester through the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.

**18.2** The students permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students rejoining in new Regulations shall apply to the Dean Academics of the college in the prescribed format through the Head of the Institution at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum and the same may be approved by the Dean Academics of the college.

**18.3** The authorized break of study will not be counted with the duration specified for passing all the courses for the purpose of classification (vide Clause 15.2).The total period for completion of the Programme, reckoned from the commencement of the first semester to which the student was admitted, shall not exceed the maximum period specified in Clause4.1 irrespective of

the period of break of study in order that he/she may be eligible for the award of the degree.

**18.4** If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause18.1)

## 19.0  CO-CURRICULAR DEVELOPMENT

Every student being admitted to any postgraduate degree programme should undergo and involve in any of the curricular and co-curricular activities / events during the period of study.

- ➢ **Industry Internships** will equip the students with the latest ongoing trends in the industries**.**
- ➢ **Technical Workshops / Seminars / Skill Development Courses** will enhance the skills and domain knowledge of the students.
- ➢ **Publications** in national and international level conferences and Scopus indexed and refereed Journals will improve higher level thinking and presentation skills.

## 20.0  PERSONALITY AND CHARACTER DEVELOPMENT

All students shall enroll, on admission to M.B.A/ MCA programmes should attend any of the personality and character development programmes (NSS / YRC) and undergo training for stipulated hours and in case of NSS, a special camp for about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.

- ➢ **National Service Scheme (NSS)** will have social service activities in and around the College.
- ➢ **Youth Red Cross (YRC)** will have activities related to social services in and around college.
- ➢ **Sports & Games** activities will include preparation for inter-collegiate sports events.
- ➢ **Yoga** for training the body and mind.
- ➢ **Club Activities** initiate the Corporate Social Responsibility**.**

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The training activities will normally be conducted during the weekends and the camp will normally be during the vacation period.

## 21.0 DISCIPLINE

Every student is required to observe discipline and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the college. The Head of Institution shall constitute a disciplinary committee consisting of the Heads of Department of which one should be from the faculty of the student to enquire into acts of indiscipline and notify to the Head of the Institution about the disciplinary action recommended for approval.

## 22.0 REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The college may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and scheme of examinations if deemed necessary based on the approval of Academic council of the college.

## 23.0 AUDITS ON THE EXAMINATION SYSTEM

An audit on the examination system such as verification of the standard of question papers prepared by the examiners, valuation of answer scripts and methods adopted in awarding marks will be conducted by a team of expert members from IIT/NIT/Government Engineering Colleges and reputed autonomous engineering colleges, appointed by the Head of the Institution, after the completion of all the End Semester Examinations activities of the semester.

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL – 637 018**

**(AUTONOMOUS)**

**Approved by AICTE, New Delhi and Affiliated to Anna University,Chennai**

**Accredited by NBA, New Delhi and by NAAC with "A" Grade**

**REGULATIONS 2016**

**(CHOICE BASED CREDIT SYSTEM)**

**B.E./B.Tech. PROGRAMMES**

(Approved in the 2ⁿᵈAcademic Council Meeting27.06.2016,

Amended in the 3rd Academic Council Meeting 07.06.2017,

Amended in the4th Academic Council Meeting 06.06.2018,

Amended in the 5ᵗʰ Academic Council Meeting 25.05.2019&

Amended in the 6ᵗʰ Academic Council Meeting 19.09.2020)

*The Regulations 2016 is applicable to the candidates admitted to the **Bachelor of Engineering (B.E.) / Bachelor of Technology (B.Tech.) Degree Programmes** of the college from the **academicyear 2016-2017** onwards.*

## 1.0    PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

  I.   **"Programme"** means Degree Programme,(i.e)B.E./B.Tech. Degree Programme offered by the college and approved by the University.

 II.   **"Discipline"** means specialization or branch of B.E./B.Tech. Degree Programme such as Civil Engineering, Computer Science and Engineering etc.

III.   **"Course"** means a theory or practical subject that is normally studied in a semester such as Computer Programming, Engineering Graphics, etc.

IV.   **"University"** means ANNA UNIVERSITY, CHENNAI.

 V.   "**College"** means **Paavai Engineering College, Namakkal**, an Autonomous Institution affiliated to Anna University Chennai and approved by AICTE, New Delhi.

VI.   **"Head of the Institution"** means the Principal of the college who is responsible for the academic administration of the college.

VII.    **"Dean, Academics"** means the authority of the college who is responsible for all academic activities of the institution and the implementation of relevant rules of theseRegulations pertaining to the academic programmes.

VIII.   **"Controller of Examinations"** means the authority of the college who is responsible for all activities pertaining to the examinations conducted by the institution under the autonomous scheme.

IX.     **"Head of the Department"** means authority of the department concerned and is responsible for the all-academic activities and administration of the department.

X.      **"Board of Studies"** means the academicbodyof the college responsible for framing the curriculum and syllabi of the programme concerned.

XI.     **"Credit"**refers to the numerical weightage given to each and every course of study based on the depth of teaching – learning process ofthat course**.**

XII.    **"Grade"** means the alphabet assigned to each course based on the range of marks secured by the student.

XIII.   "**Grade Point**" means a numerical value (0 to 10) assigned based on the grade secured.

XIV.    "**Elective"** means the courses which are offered to all the UG programme studentsfor different specialization of the departmentsconcerned.

## 2.0    ADMISSION

2.1     Candidates seeking admission to the **first semester** of the **B.E. / B.Tech. Degree Programme** through TNEA Counseling conducted by the Government of Tamil Nadu or through the common entrance test conducted by the Associations of Management of Coimbatore Anna University Affiliated Colleges.

Candidates should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(OR)

Candidates should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

## 2.2    LATERAL ENTRY ADMISSION

(i)The candidates who possess the **Diploma in Engineering / Technology** awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. in the branch corresponding to their branch of study. Such candidates, if needed shall undergo two/three bridge courses in Humanities and Social Sciences (HS), Basic Sciences (BS) and Engineering Sciences (ES) either in the 3$^{rd}$ or 4$^{th}$ semester of the period of study.

<div align="center">(OR)</div>

(ii)The candidates who possess the **Degree in Science** (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc.level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech.Such candidates shall undergo two/three additional engineering subjects in the third and fourth semesters as prescribed by the college.

## 3.0    PROGRAMMES OFFERED

A candidate may be offered one of the programme(s) in any one of thebranches of study in the college approved by AICTE andaffiliated to Anna University, Chennai.A student of a programme should earn the total minimum credits specified to enable him to be eligible to be awarded the degree.Normallyit is recommended that the total minimum credits for the B.E./B.Tech. Programmes shall be fixed between 180-185 credits for regular students and between 130 -140 credits for the lateral entry students.

| S.No. | Degree | Branch of Study |
|:-----:|:------:|-----------------|
| 1 | B.E. | Aeronautical Engineering |
| 2 | B.E. | Agriculture Engineering |
| 3 | B.E. | Civil Engineering |
| 4 | B.E. | Computer Science and Engineering |
| 5 | B.E. | Electronics and Communication Engineering |
| 6 | B.E. | Electrical and Electronics Engineering |
| 7 | B.E. | Mechanical Engineering |
| 8 | B.E. | Mechatronics |
| 9 | B.Tech. | Chemical Engineering |
| 10 | B.Tech. | Information Technology |
| 11 | B.E. | Biomedical Engineering |
| 12 | B.E. | Medical Electronics |
| 13 | B.Tech. | Food Technology |
| 14 | B.Tech. | Pharmaceutical Technology |

**4.0    DURATION OF THE PROGRAMME**

4.1    A studentisexpectedto complete theB.E. /B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 Semesters **(seven academic years)**for HSC (or equivalent) candidates and not more than 12 semesters **(six academic years)** for Lateral Entry Candidatesas per the university guidelines.

4.2    Each semester shall normally consist of 90 working days or the number of periods specified in the curriculum with each period of 50 minutes duration. The Head of the Institution shall ensure that every faculty member imparts instruction as per the number of periods specified in the syllabus and teaches the full content of the specified syllabus for the course being taught.

4.3    The Head of the department may advice / instruct the faculty members concerned to conduct additional classes for improvement, special and remedial coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations by the students, the attendance requirement as per Clause 7 should be followed.

4.4    The End Semester Examination will ordinarily follow immediately after the last working day of the semester as per the academic schedule prescribed by the college from time to time.

4.5    The total duration for completion of the programme reckoned from the commencement of the first semester to which the candidate was admitted shall not exceed the maximum duration specified in Clause 4.1 irrespective of the period of break of study (videClause 18.4) in order that he/she may be eligible for the award of the degree (vide Clause 17.1).

**5.0    STRUCTURE OF PROGRAMME**

The curriculum, syllabi and course contents under Regulations 2016 are designed and prepared in accordance with the Outcome Based Education (OBE) to meet out the Program Educational Objectives (PEOs), Program Outcomes (POs) and Course Outcomes (COs).

5.1 The Board of Studies of each department comprises of University nominee, two academic experts,industry expert, renowned alumni appointed by the Academic Council of the college and all faculty members of the department and HODs of allied departments. The Head of the Department concerned will act as the Chairman of the Board of Studies and will convene the meeting as and when required with approval of the Head of the Institution. Every Programme will have a curriculum with syllabi consisting of theory and practical courses (as decided by the respective Board of Studies) such as:

5.1.1 **Humanities and Social Sciences (HS)** courses include Technical English, Engineering Ethics and Human Values, Communication skills, Environmental Science and Engineering.

5.1.2 **Basic Sciences (BS)** courses include Mathematics, Physics and Chemistry etc.

5.1.3 **Engineering Sciences (ES)** courses include Engineering Practices, EngineeringGraphics, Basics of Electrical / Electronics / Mechanical / Computer etc.

5.1.4 **Programme Core Courses (PC)** include the core courses relevant to the chosen programme of study.

5.1.5 **Programme Elective Courses (PE)** include the courses relevant to the chosen programme offered and registered by the student for specialization.

5.1.6 **Open Elective Courses (OE)** include the courses offered by the any departments of the college. The student can choose and study any course offered by the department as open elective course. The open elective courses shall be offered by the departments from the $5^{th}$ / $6^{th}$ semester onwards. Any open elective course will be offered to the students, provided that minimum 30 students had registered for that open elective course.

5.1.7 **Employability Enhancement Courses (EE)** include coursessuch as Project, Seminar, Career Development Lab and In-plant training/ Internship.

5.1.8 **One Credit Courses (OC)**One Credit Coursesare optional. The courses shall be provided from second semester onwards, either by industry/other academic

institution /parent institution / through online courses with the approval of Board of Studies of the department concerned and a maximum of six one credit courses can be opted during his/her period of study. The duration of the theory course is 15 hours, integrated theory and practical is 20 hours, practical course is 30 hours and for online courses, it shall be a minimum of 4 weeks. The students shall be exempted from any one open elective course provided in the curriculum upon the successful completion of the three one credit courses and the same has to be approved by the respective department concerned. The grades earned by the students for the one-credit courses which are not opted for conversion into an open elective, shall not be included in the computation of CGPA. However, they shall be considered as additional credits earned in the grade sheet. Core courses cannot be replaced/ exempted by any on-line courses like NPTEL etc. The department advisory committee shall submit the necessary equivalent grades for the marks obtained in the online one credit courses to the COE Office.

5.1.9 Student's strength for one credit course should be minimum of 10 students.

5.1.10 The evaluation process for theory based one credit courses shall be of 40 % internal assessment and 60 % external assessment, for integrated theory &practical and practical oriented one credit courses; it shall be of 50 % internal assessment and 50 % external assessment and for online one credit courses, the assessment shall be conducted by the respective certification authority and its marks shall be made grade equivalents by the respective advisory committee. The question papers for the one credit courses have to be provided by the expert concerned who handle the practical/ theory course to the COE office. The duration of examination for one credit courses may be of 1½ hours for 50 marks. The students have to appear for One Continuous Internal Assessment and an End Semester examination.

5.1.11 Core courses cannot be replaced/ exempted by any On-line courses like NPTEL etc.

5.2    **Non Credit Courses**

5.2.1 Everystudent shall be made to involve in any of the3 non-credit courses available and provided to the students such as co-curricular, extra-curricular and club activities (as per the Table 1).The participation and involvement (provided with certificate) in the listed non-credit courses from approved institutions/organizations/industries shall be considered in the progress norms and will not be indicated by grades and will not be counted for the computation of SGPA/ CGPA. The additional courses shall be included as Non Credit Courses and provided to the students, if needed based on the recommendations of the academic council of the college.

**Table 1**

| Category | Code | Details of Courses |
|---|---|---|
| Associated Skills | NC101 | Technical Symposium |
| | NC102 | National / International Conference |
| | NC103 | Technical Workshop/ Seminar |
| | NC104 | Skill Development Courses |
| | NC105 | Industry In-plant Training / Internship *(minimum 2 weeks during the entire duration of the course)* |
| | NC106 | Research Publications |
| | NC107 | Soft Skills Certification |
| | NC108 | Aptitude Proficiency Certification |
| | NC109 | Globally accepted online Certification Courses |
| | NC110 | Valid score in GATE/CAT/TOEFL/IELTS/GRE |
| Personality and Self-Character Development | NC201 | NSS / YRC / Socially Responsible Activities |
| | NC202 | Cultural Activities |
| | NC203 | Yoga |
| | NC204 | Sports & Games |
| | NC205 | Human Rights and Human Values |

**5.3    Credit Assignment**

Each course is assigned with **1** credit per lecture period per week, **1** credit per 2 tutorial periods per week, **1** credit for 2 periods of laboratory or practical or seminar or project work per week (eg. 2 credits for 4 periods of practical).

5.4     Each semester curriculum shall normally have a blend of theory Courses not exceeding 5 to 7 and practical courses not exceeding 2 to 4. However, the total number of courses per semester shall not exceed 8 to 11.

5.5     For the award of the degree, a student has to earn total minimum number of credits specified in the curriculum of the relevant programme of study.

5.6     **Medium of Instruction**

The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports except for the courses on language other than English.

5.7     **Fast Track Mode**

Fast Track Mode is available to the students to undergo a semester-long internship or special training in industry or project work in department/industry. A student who secures a minimum CGPA of 8.50 up to $4^{th}$ semester ($1^{st}$semester to $4^{th}$ semester for Regular category / $3^{rd}$ semester & $4^{th}$semester for Lateral Entry Scheme) and with no standing arrears as on date, shall be eligible to opt for Fast Track Mode and should maintain the CGPA of minimum of 8.50 till $6^{th}$ semester without any arrears. Such student is required to complete the courses available in the $8^{th}$ Semester expect project work satisfactorily in the earlier semesters (maximum one per semester or evenly distributed in the $5^{th}$ semester to $7^{th}$ semester) as additional courses within the completion of $7^{th}$ Semester, provided that the prerequisite of the courses should be fulfilled.

5.8     Every student shall be required to carry out the project work in department / industry or by exercising Fast Track during $8^{th}$semester on a full time basis in consultation with the faculty guide and submit the project report, in the prescribed format, at the end of the $8^{th}$semester for the valuation.

**5.9     Industrial Training / Internship**

The students may undergo industrial training for a period as specified in the Curriculum during summer/winter vacation at industry / research organizations / Universities/    academic institutions (after due approval from the Department Consultative Committee).

If Industrial training / internship is not prescribed in the curriculum, the students may undergo Industrial training / internship optionally for a minimum of two weeks and earns the certificate and such certificate shall be considered for progress norms requirement.

**5.10    Industrial Visit**

Every student is expected to undergo one industrial visit every year starting from the second year of the programme, subject to the approval of the HoD and Principal.The heads ofthe department shall ensure that necessary arrangements are made in this regard.

**5.11    Online Courses**

**5.11.1** The students may be permitted to undergo one online course of 3 credits weightage between 5-7$^{th}$ semester (which are provided with certificate after evaluation of the performance) with a minimum of 12 weeks duration forthose courses listed as professional electives with the approval of the respectiveBoards of Studies concerned.

**5.11.2** After successful completion of one online course,the students may obtain exemption from studying one Professional Elective and in such case the marks obtained in online course shall be converted to equivalent grade and included for calculation of Cumulative Grade Point Average (CGPA). The department advisory committee shallsubmit the necessary equivalent grades for the marks obtained in the online courses to the respective BoS for the approval and then to the COE Office.

## 6.0    COURSE REGISTRATION

6.1    Each student, on admission shall be assigned to a Class Coordinator (vide Clause 8) 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.

6.2    Every student shall enroll for the courses of the succeeding semester, in the current semester (as per Clause 6.3.2). 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.

6.3    After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Internal Assessment marks and appear for the End Semester Examinations.

   6.3.1    Each student on admission to the programme shall register for **all the courses specified in the curriculum** inthe **first semester of study (3$^{rd}$ semester** for students admitted under **lateral entry scheme).**

   6.3.2    The enrollment for all the courses of the 2$^{nd}$ semester will commence 10 working days prior to the last working day of 1$^{st}$ semester. The student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the 2$^{nd}$ semester. In the case, if a student fails in a course, he/ she may be permitted to register the course for examination purpose in the subsequent semester or when it is offered.

   6.3.3    The enrollment for the courses of the 3$^{rd}$ to 8$^{th}$ semesters 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 Class Coordinator. If a student wishes, the student may drop or add courses (vide clause 6.4) within fiveworking days after the commencement of the semester concerned and complete the registration process duly authorized by the Class Coordinator.

   6.3.4    In any department, the preference for registration shall be given to the students of that department for whom the course is a programme core

course. The registration for any course shall be on first come first served basis, provided the student fulfills prerequisites for that course, if any. The number of students to be registered shall be based on the classroom and laboratory capacity. Every effort shall be made by the department/centre to accommodate as many students as possible.

6.3.5 No course shall be offered by a department unless a minimum of 30 students are registered for that course. However, if the student admitted is less than 30, this minimum will not be applicable.

6.3.6 The student can have the option of registering Maximum TWO open elective courses from other departments / parent department.

## 6.4 Flexibility to Add or Drop courses

6.4.1 A student has to earn the minimum total number of credits specified in the curriculum of the respective programmeof study in order to be eligible 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 by opting additional courses.

6.4.2 From3$^{rd}$to 8$^{th}$semesters (from 4$^{th}$ to 8$^{th}$ semesters in the case of lateral entry students), the student has the option of registering for additional courses provided that the prerequisite of the courses should be fulfilledor dropping the elective courses. Total number of credits of such courses should not exceed 6 credits. However the maximum number of credits that a student can register in a particular semester shall not exceed 30 credits. In such cases, the attendance requirement as stated in Clause 7 is mandatory.

6.4.3 The student shall register for the project work in the 8$^{th}$semester only.

## 6.5 Reappearance Registration

6.5.1 If a student fails in a course, the student shall do reappearance registration for that course in the subsequent semester or when it is offered next. The registration of reappearance courses in the subsequent semester is mandatory.

6.5.2 On registration, a student may attend the classes for the reappearance registration courses, if the student wishes. However, the attendance

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requirement (vide Clause 7) is not compulsory for such courses provided that the student has secured required in the previous registration.

6.5.3 If the theory course, in which the student has failed, is a programmeelective or an open elective, the student may register for the same in the subsequent semesters.

6.5.4 If a student is prevented from writing the End Semester Examination of a course due to lack of attendance, the student has to re-register for that course again, when offered next, attend the classes and fulfill the attendance requirements as per Clause 7. If the course, in which the student has 'lack of attendance', is a programme elective or an open elective, the student may register for the same or any other programme elective or open elective course(s) respectively in the subsequent semesters and appear in the examination as per Clause 7.

## 7.0 REQUIREMENTS FOR ATTENDANCE AND PROGRESS

## 7.1 ELIGIBILTY NORMS

A candidate who has fulfilled the following conditions shall be deemed to have satisfied the attendance requirements for completion of a semester.

Ideally every student is expected to attend all classes and secure 100% attendance for the specified hours. However, the studentshould **secure not less than 75%** (after rounding off to the nearest integer) of overall attendance for the specified hours.

The student's academic progress should be satisfactory for each and every semester and is ascertained through the appearance and performance in the Continuous Internal Assessment Tests.

The student's character / conduct should be satisfactory.

7.2 However, a candidate who **secures overall attendance between 65% and 74%**in the current semester for the specified hours due to medical reasons (prolonged hospitalization / accident / specific illness)/participation in sports events may be

permitted to appear for the current semester examinations to a maximum of TWO times during the period of study.In such case, the candidate shall submit the medical certificate/sports participation certificate attested by the Head of Department and approved bythe Principal during the period of medical leave and in advance for participation in sports. The same shall be forwarded to the Controller of Examinations for record purposes.

**7.3    PROGRESS NORMS**

Candidates who do not satisfy the requirement of undergoing the non-credit courses viz. any of the**THREE**non-credit courseslisted in theTable 1 within **Seventh**semester willnot be allowed / permitted to register for **Eighth** semester. Such candidates are permitted toregister for the **Eighth**semester only after completing the above mentionedrequirements.Thesatisfactorycompletion of the non-credit courses to meet the progress norms will be mentioned in the grade **sheet as COMPLETED.**

**7.4**    Candidates who **secure less than 65% overall attendance and candidates who do not satisfy the Clause 7.1 and 7.2** and / or qualify the norms for progress specified in **Clause 7.3** shall not be permitted to write the End Semester Examination at the end of the semester and to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed by the Directorate of Technical Education, Chennai and Anna University, Chennai.The candidate will however be readmitted not more than once during the period of study. However, under specific circumstances, second readmission is permitted for the students on valid medical reasons.

**8.0    CLASS COORDINATOR**

The class coordinator will be one among the faculty members of the class. He / She will be appointed by the Head of the Department concerned. The responsibilities for the class coordinator shall be:

> ➢ To act as the channel of communication between the Head of the Department and the students of the respective class.

- To collect and maintain various academic and non-academic records of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance periodically and to inform the Head of the Department and parents about the student's progress.

**9.0    CLASS COMMITTEE**

**9.1**    Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairpersonshould be the senior faculty of the department who is not teaching the class. The overall goal of the class committee is to improve the teaching-learning process. The functions of the class committee include:

- Solvingproblems experienced by students in the classroom and in the laboratories.

- **Clarifyingthe Regulations of the degree programme and the details of rules therein particularly (Clause 5, 6 and 7) which should be displayed on college notice-Board.**

- Informing he student representatives about the academic schedule including the dates of assessments and the syllabus coverage for each assessment.

- Informingthe student representatives about the details of Regulations regarding mark details of each assessment. In the case of practical courses, the breakup of marks for each experiment / exercise / module of work should be clearly discussed in the class committee meeting and informed to the students.

- Analyzingthe performance of the students of the class after each test and finding the ways and means of solving problems, if any.

- Identifyingthe weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.

**9.2**    The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are

mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.

**9.3** The class committee shall be constituted within the first week of each semester.

**9.4** At least 6 student representatives (usually 3 boys and 3 girls) shall be included in the class committee.

**9.5** The Chairperson of the class committee may invite the Class coordinator(s) and the Head of the Department to the class committee meeting.

**9.6** The Head of the Institution may participate in any class committee meeting of the class.

**9.7** The Chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Department within two days of the meeting and arrange to circulate it among the students and teachers concerned and a copy of the minutes of meeting should be submitted to the Head of the Institution. If there are some points in the minutes requiring remedial action to be taken by the management, the same shall be brought to the notice of the management by the Head of the Institution for further action.

**9.8** The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and assessment process within the framework of the Regulations. Three subsequent meetings may be held in a semester at suitable intervals. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

**10.0 COURSE COMMITTEE FOR COMMON COURSES**

Each common theory course offered to more than one discipline or group shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as course coordinator. The nomination of the course coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course Committee' shall meet in order to arrive at a common scheme of evaluation for the test and

shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the internal assessment test(s).

## 11.0 SYSTEM OF EVALUATION

**11.1** Performance in each course of study shall be evaluated based on

(i) Continuous Internal Assessment and

(ii) End Semester examinations at the end of the semester.

**11.2** Each theory course shall be evaluated for a maximum of 100 marks with **40 marks** as Internal marks based on the Continuous Internal Assessment and **60 marks** as External marks based on the End Semester Examinations.Similarly, each practical course (including Project Work &Viva Voce Examinations) shall be evaluated for a maximum of 100 marks with **50 marks** as Internal marks based on the Continuous Internal Assessment and **50 marks** as External marks based on the End Semester Examinations.

**11.3** The End SemesterExamination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semester and between April and June during the even semester.

**11.4** The End SemesterExamination for Project Work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the project group and an internal examiner.

**11.5** For the End SemesterExamination in both theory and practical courses including project work, the internal and external examiners shall be appointed by the Controller of Examinations.

## 12.0 ASSESSMENT SCHEME

**12.1** Theory & Practical Courses

| Theory Courses | | Practical Courses | |
|---|---|---|---|
| ContinuousInternal Assessment | 40 Marks | ContinuousInternal Assessment | 50 Marks |
| End Semester Examination | 60 Marks | End Semester Examination | 50 Marks |
| Total | 100 Marks | Total | 100 Marks |
| **Internal Assessment** | | **Internal Assessment** | |
| Continuous Internal Assessment Test 1 | 10 Marks | Preparation & Conduct ofExperiment | 20 |
| Continuous Internal Assessment Test 2 | 10  Marks | Observation & Results | 10 |
| Continuous Internal Assessment Test 3 | 10 Marks | Record | 05 |
| Attendance | 05 Marks | 40 Marks for each experiment as specified above will be averaged as the Internal Assessment Marks | |
| Practices adopted by the student (Seminar Presentation / Assignment ) | 05 Marks | **40 Marks** | |
| | | Model Practical Examinations | 10 Marks |
| **Total** | **40 Marks** | **Total** | **50 Marks** |
| **End Semester Examination** | | **End Semester Examination** | |
| **Examination Duration : 3 Hours**<br>**Max. Marks : 100**<br>**(Converted to 60 marks)** | | **Examination Duration : 3 Hours**<br>**Max. Marks : 100**<br>**(Converted to 50 marks)** | |

The assigned 05 marks for attendance in the continuous internal assessment process are detailed below.

| Range of Attendance | Marks |
|---|---|
| 75 % - 84 % | **03** |
| 85 % - 89 % | **04** |
| 90 % - 100 % | **05** |

**12.2** Theory Courses with Laboratory component

Three tests will be conducted. The first two tests (each 100 marks) will be from theory portions and the third test (maximum marks 100) will be for laboratory component. The sum of marks of first two tests shall be converted to 60 marks and the third test mark shall be converted to 40 marks. The sum of these 100 marks may then be arrived at for 40 and rounded to the nearest integer. The End Semester Examinations shall be conducted in the similar manner as conducted for the theory courses for the theory portions only.

**12.3** Courses such as Technical Seminar / Case study areto be considered as purely **INTERNAL MODE.** Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by Head of the Institution/Department will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40marks), presentation (40 marks) and response to the questions asked during presentation (20 marks).

**12.4** Courses such as Industrial / Practical training, Summerproject shall be evaluated through internal assessment only. At the end of Industrial / Practical training, Summer project, the candidate shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a Viva voce Examination, conducted internally by a three member Departmental committee constituted by the Head of the Institution. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.

**12.5 Project Work**

Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

12.5.1 The Head of the Institution shall constitute a Review committee for project work for each branch of study. There shall be three reviews during the semester by the Review committee. The student shall make presentation on the progress made by him / her before the committee. The project report

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shall be submitted as per the approved guidelines of Anna University, Chennai. The total marks obtained in the three reviews and the marks for thesis submission shall be **converted asInternal marks (50 marks)** and rounded to the nearest integer.The same marks shall be awarded to every student within the project group for the project report.

| Review I | Review II | Review III | Project Submission& Assessment by the Supervisor | Total Marks |
|---|---|---|---|---|
| 10 | 20 | 30 | 40 | 100 |

12.5.2 The End Semester VivaVoce Examination shall carry 100 marks. Marks are awarded to each student of the project group based on the individual performance in the Viva-Voce examination and **converted as external End Semester Examination marks (50 marks)** and rounded to the nearest integer.

| End Semester Examinations | | | | |
|---|---|---|---|---|
| ProjectEvaluation | | Viva-Voce (60) | | Total Marks |
| Internal | External | Internal | External | |
| 20 | 20 | 30 | 30 | 100 |

12.5.3 If a candidate fails to submit the project report on or before the last working day, he/she is deemed to have failed in the Project Work and shall re-enroll for the same in the subsequent semester.

12.5.4 Internal marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.

12.5.5 Attendance Record

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topics covered), separately for each course. This should be submitted to the Head of the Department periodically (15 days once to a maximum of 5 times per semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the Department will sign with date after due verification. At the end of the semester, the record should be verified by the Head of the Institution and submitted to the Controller of Examinations who will keep this document in safe custody (for five years). The inspection team appointed by the College / University may verify the records of attendance and assessment of both current and previous semesters.

### 12.5.6 MALPRACTICE

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

## 12.6 Online Courses

On successful completion of any MOOC, the student shall submit the digitally signed / verified certificate (after performance evaluation) to the Head of the department. The grade equivalence shall be approved by DAC and forwarded to the Controller of Examinations

## 13.0 REQUIREMENTS FOR APPEARING AND PASSING THE EXAMINATIONS

## 13.1 APPEARING REQUIREMENTS

13.1.1 A candidate shall normally be permitted to appear for the End Semester Examinations of the current semester if he/she has satisfied the semester completion requirements (subject to Clause 7) and has registered for examination in all courses of the semester.

13.1.2 Registration is mandatory for current semester examinations as well as arrear examinations.

13.1.3 A candidate who has already appeared for any subject in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades.

## 13.2 PASSING REQUIREMENTS

13.2.1 A candidate who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End Semester Examinations] with a minimum of 50% of the marks prescribed for the EndSemester Examinations, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and practical courses (including project work).

13.2.2 If a candidate fails to secure a pass in a particular course, it is mandatory that he/she shall register and reappear for the examination in that course during the subsequent semester when examination is conducted in that course; he/she should continue to register and reappear for the examinations in the failed subjects till he/she secures a pass.

13.2.3 The internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (Internal Assessment + End Semester Examination) as per clause 13.2.1, then the candidate shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for end semester examinations alone.

## 14    AWARD OF GRADES

All assessments of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each course as detailed below:

| Range of Marks | Letter Grade | Grade Point | Description |
|---|---|---|---|
| 90 -100 | O | 10.0 | Outstanding |
| 80 - 89 | A+ | 9.0 | Excellent |
| 70 -79 | A | 8.0 | Very Good |
| 60 - 69 | B+ | 7.0 | Good |
| 55 - 59 | B | 6.0 | Above Average |
| 50- 54 | C | 5.0 | Average |
| 0-49 | RA | 0.0 | Fail |
| | SA | 0.0 | Shortage of Attendance |
| | RA* | 0.0 | Absent |
| | W | 0.0 | Withdrawal |

Non-credit courses shall be indicated as COMPLETED or NOT COMPLETED instead of the grades and this will not be counted for the computation of SGPA/ CGPA.

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+","B".

'**SA**' denotes**shortage of attendance** (as per 7.4) and hence prevented from writing the End Semester Examination. 'SA' will appear only in the result sheet.

**"RA*"**denotes Absent for which reappearanceis required for the examination in the course.

"**W**" denotes withdrawalfrom the exam for the particular course. (The grades RA and RA* will figure both in Grade Sheet as well as in Result Sheet)

**Grade Sheet**

After the declaration of results,grade sheetwill be issued to each student which will contain the following details:

➢ The college in which the candidate has studied

- The list of courses enrolled during the semester, grade scored and credits earned.
- The Semester Grade Point Average (SGPA) for the semester and
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

SGPA for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

CGPA will be calculated in a similar manner, considering all the courses registered from the first semester to eighth semester. "W" grade will be excluded for calculating GPA and CGPA.

The SGPA / CGPA will be available in the grade sheets only if the candidate has passed all the courses registered for that particular semester.

$$\textbf{SGPA / CGPA} = \frac{\sum_{i=1}^{n} C_i G_i}{\sum_{i=1}^{n} C_i}$$

Where

$C_i$ is the Number of Credits assigned to the course

$G_i$ is the point corresponding to the grade obtained for each course

$n$ is number of all courses successfully cleared during the particular semester in the case of SGPA and during all the semesters in the case of CGPA.

The Equivalent marks to the CGPA will be printed in the grade sheet.

## 15.0 AWARD OF THE DEGREE – ELIGIBILTY & CLASSIFICATION
## 15.1 ELIGIBILTY

**A student shall be declared to be eligible for the award of the Degree if he/she has**

- passed the End Semester Examinationsfor all the courses of all the eight semesters (six semesters in the case of lateral entry)

- successfullygained the required number of total credits as specified in the Curriculum corresponding to his/her programmewithin the stipulated time.
- no disciplinary action pending against him/her.
- been recommended by the Academic Council of the college to the University, which in turn shall award the degree.
- Successfullycompleted any additional courses prescribed by the Dean Academics of the college, whenever any candidate is readmitted under Regulations other than Regulations 2016 based on the recommendations of the specific committee.

## 15.2   CLASSIFICATION OF THE DEGREE AWARDED

### 15.2.1  FIRST CLASS WITH DISTINCTION

A candidate shall be declared to have passed the examination in **First class with Distinction**under the following conditions.

- Should have passed the End Semester Examinationsin all the courses of all the eight semesters (six semesters in the case of lateral entry) in his/her **FIRST APPEARANCE**within four years (three years in the case of lateral entry). Withdrawal from examination (vide Clause 17) will not be considered as an appearance. One year authorized break of study (if availed of) is permitted in addition to four years (three years in the case of lateral entry) for award of First Class with Distinction.
- Should have secured a CGPA of not less than 8.50

### 15.2.2  FIRST CLASS

A candidate who satisfies the following conditions shall be declared to have passed the examination in **First Class**if she/he satisfies the following conditions.

- Should have passed the End Semester Examinationsin all the courses of all the eight semesters (six semesters in the case of lateral entry) within five years (four years in the case of lateral entry). One year authorized break of study (if availed of) or prevention from writing the End Semester Examinations due to lack of attendance (if applicable) is included in the duration of five years (four years in the case of lateral entry) for award of First Class.

- Should have secured a CGPA of not less than 6.5

15.2.3 SECOND CLASS

All other candidates (not covered in Clauses 15.2.1 and 15.2.2) who qualify for the award of the degree (vide Clause 15) shall be declared to have passed the examination in **Second Class**.

➢ A candidate who is absent in semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification. (subject to Clause 17 and 18)

## 16.0 REVALUATION

16.1 A candidate can apply for photocopy of the answer scripts of the theory course for the examination conducted within 1 week from the declaration of resultson payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institution. He/She can apply for revaluation of the concerned answer paper based on the genuineness of the evaluation, within 2 weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institution. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate through the college website. Revaluation is not permitted for practical courses and for project work.

16.2 A candidate can apply for revaluation of answer scripts fornot exceeding 5 subjects at a time.

## 17.0 WITHDRAWAL FROM END SEMESTER EXAMINATION

17.1 A candidate may be granted permission to withdraw from appearing for the examination of any regular course(s) of only one semester examinations. Such withdrawal is permitted only once during the entire period of study of the degree programme.

17.2 Withdrawal application shall be valid only if the candidate is otherwiseeligible to write the examination and if it is made prior to thecommencement of the examination in that course or courses in normalcircumstances and also

recommended by the Head of the Department,otherwise the applications shall not be considered.Incase of accidents or unforeseen circumstances, the withdrawal will be considered even after the conduct of examination, however the applicationis made within a week time after the date of examination subject to the approval of the Head of Institution.

17.3 Withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction. Withdrawal from the End Semester Examinations is **NOT** applicable to arrear subjects of previous semesters. The candidate shall reappear for the withdrawn courses during the examination conducted in the subsequent semester.Withdrawal shall not be permitted in the Eighth EndSemester Examinations.

## 18.0 AUTHORISED BREAK OF STUDY

18.1 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he/she applies to the Dean, Academics of the college in advance, but not later than the last date for registering for the End Semester Examinations of the semester through the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.

18.2 The candidates permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining.The students rejoining in new Regulations shall apply to the Dean Academics of the college in the prescribed format through Head of the Institution at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum and the same may be approved by the Dean Academics of the college.

18.3 The authorized break of study will not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 15.2).The

total period for completion of the Programme, reckoned from, the commencement of the first semester to which the candidate was admitted, shall not exceed the maximum period specified in Clause 4.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

18.4    If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1)

## 19.0    CO-CURRICULAR DEVELOPMENT

Every student being admitted to any undergraduate degree programme should undergo and involve in any of the co-curricular activities / events during the period of study.

**In plant Training**will equipthe students with the latest ongoing trends in the industries**.**

**Technical Workshops / Seminars / Skill Development Courses**will enhance the skills and knowledge of the students.

**Publications** in national and international level conferences and symposiums will improve higher order thinking and presentation skills.

## 20.0    PERSONALITY AND CHARACTER DEVELOPMENT

All students shall enroll, on admission, in any of the personality and character development programmes (NSS / YRC) and undergo training for stipulated hours and in case of NSS, a special camp forabout seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.

**National Service Scheme (NSS)** will have social service activities in and around the College.

**Youth Red Cross (YRC)** will have activities related to social services in and around college.

**Sports & Games** activities will include preparation for inter-collegiate sports events.

**Yoga**for training the body and mind.

**Club Activities**initiates the Corporate Social Responsibility**.**

The training activities will normally be conducted during the weekends and the camp will normally be during the vacation period.

## 21.0   DISCIPLINE

Every student is required to observe discipline and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the college. The Head of Institution shall constitute a disciplinary committee consisting of the Heads of Department of which one should be from the faculty of the student to enquire into acts of indiscipline and notify to the Head of the Institution about the disciplinary action recommended for approval.

## 22.0   REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The college may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and Scheme of examinations if deemed necessary based on the approval of Academic council of the college.

## 23.0   AUDITS ON THE EXAMINTION SYSTEM

An audit on the examination system such as verification of the standard of question papers prepared by the examiners, valuation of answer scripts and methods adopted in awarding marks will be conducted by the team of expert members from IIT/NIT/Government Engineering Colleges and reputed autonomous engineering colleges, appointed by the Head of the Institution, after the completion of all the End Semester Examinations.

**PAAVAI ENGINEERING COLLEGE, NAMAKKAL – 637 018**
**(AUTONOMOUS)**
**Affiliated to Anna University Chennai and approved by AICTE, New Delhi.**
**Accredited by NBA, New Delhi and NAAC with "A" Grade**

**REGULATIONS 2016**

**(CHOICE BASED CREDIT SYSTEM)**

**M.E./M.B.A./M.C.A. PROGRAMMES**

(Approved in the 2ndAcademic Council Meeting 27.06.2016,

Amended in the 3rd Academic Council Meeting 07.06.2017,

Amended in the 4th Academic Council Meeting 06.06.2018,

Amended in the 5th Academic Council Meeting 25.05.2019&

Amended in the 6th Academic Council Meeting 19.09.2020)

*The Regulations 2016 is applicable to the candidates admitted to the Master of Engineering (M.E.) / Master of Technology (M.Tech.) / Master of Business Administration (M.B.A.) / Master of Computer Applications (M.C.A.) Degree Programmes of the Institution from the academic year 2016-2017 onwards.*

## 1.0    PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

I.    **"Programme"** means Post Graduate Degree Programme, (i.e.) M.E. / M.Tech. Degree Programme offered by the college and approved by the University.

II.    **"Discipline"** means specialization or branch of M.E. / M.Tech. Degree Programme such as Power Systems Engineering, Applied Electronics etc.

III.    **"Course"** means a theory or practical subject that is normally studied in a semester, like Power Quality, Advanced Digital Signal Processing, etc.

IV.    **"University"** means ANNA UNIVERSITY, CHENNAI.

V.    "**College"** means **Paavai Engineering College, Namakkal**, an Autonomous Institution affiliated to Anna University Chennai and approved by AICTE, New Delhi.

VI.    **"Head of the Institution"** means the Principal of the college who is responsible for the academic administration of the college.

VII. **"DeanAcademics"** means the authority of the college who is responsible for all academic activities of the institution and the implementation of relevant rules of theseRegulations pertaining to the academic programmes.

VIII. **"Controller of Examinations"** means the authority of the college who is responsible for all activities pertaining to the examinations conducted by the institution under the autonomous scheme.

IX. **"Head of the Department"** means authority of the department concerned and is responsible for the all academic activities and administration of the department.

X. **"Board of Studies"** means the academicbodyof the college responsible for framing the curriculum and syllabi of the programme concerned.

XI. **"Credit"** refers to the numerical weightage given to each and every course of study based on the depth of teaching – learning process of that course**.**

XII. **"Grade"** means the alphabet assigned to each course based on the range of marks secured by the student.

XIII. "**Grade Point**" means a numerical value (0 to 10) assigned based on the grade secured.

XIV. "**Elective"** means the courses which are offered to all the PG programme students for different specialization of the departmentsconcerned.

## 2.0 ADMISSION AND MODE OF STUDY

2.1 ADMISSION

    2.1.1 Candidates seeking admission to the **first semester** of the Post-Graduate Degree Programme shall be required to have passed an appropriate Under-Graduate Degree Examinations of Anna Universityor equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria. Such candidates get admitted through TANCA Counseling conducted by the Government of Tamil Nadu or through the common entrance test conducted by the Associations of Management of Coimbatore Anna University Affiliated Colleges.

    2.1.2 Candidates seeking admission to M.C.A. degree programme under lateral entry scheme shall be required to have passed a recognized Bachelor's degree of minimum 3 years duration of study such as B.C.A., B.Sc. (Information Technology / Computer Science) with mathematics as a course at 10+2 level or at

graduate level and obtained 50 % (45% in the case of candidates belonging to reserved community) in the qualifying degree examinations.

**Note:** TANCA releases the updated criteria during the admissions every academic year. Admission shall be offered only to the candidates who possess the qualification prescribed against each programme.Any other relevant qualification which is not prescribed against each programme shall be considered for equivalence by the committee constituted for the purpose. Admission to such degrees shall be offered only after obtaining equivalence to such degrees.

2.1.3 All Part-Time (Day-Time mode) candidates should satisfy other conditions regarding experience, sponsorship etc. that may be prescribed by the Syndicate of Anna University, Chennai from time to time.

2.2 **MODES OF STUDY**

2.2.1 Full-Time

Candidates admitted under 'Full-Time' should be available in the college / institution during the entire duration of working hours (from morning to evening on full-time basis) for the curricular, co-curricular and extra-curricular activities assigned to them.

The Full-Time candidates should not attend any other full-time programme(s) / course(s) or take up any full-time job / part-time job in any institution or company during the period of the full-time programme. Violation of the above rules will result in cancellation of admission to the PG programme.

3. **PROGRAMMES OFFERED**

A candidate may be offered one of the programme(s) in any one of the branches of study in the college approved by AICTE and affiliated to Anna University, Chennai. A student of a programme should earn the total minimum credits specified to enable him/her to be eligible to be awarded the degree. Normallyit is recommended that the total minimum credits shall be 75 credits for the M.E.M/.Tech. Programmes, 91 credits for M.B.A. Programme and 122 credits for M.C.A Programme for regular students and 79credits for the lateral entry students.

| S.No. | Degree | Branch of Study |
|-------|--------|-----------------|
| 1 | M.E. | Applied Electronics |
| 2 | M.E. | Computer Science and Engineering |
| 3 | M.E. | Communication Systems |
| 4 | M.E. | Engineering Design |
| 5 | M.E. | Power Electronics and Drives |
| 6 | M.E. | Power Systems Engineering |
| 7 | M.E. | Structural Engineering |
| 8 | M.E. | VLSI Design |
| 9 | M.B.A | Master of Business Administration |
| 10 | M.C.A. | Master of Computer Applications |

## 4.0    DURATION OF THE PROGRAMME

4.1    The minimum and maximum period for completion of the P.G. Programmes is given below:

| Programme | Minimum No. of Semesters | Maximum No. of Semesters |
|-----------|--------------------------|--------------------------|
| M.E. / M.Tech. (Full-Time) | 04 (2 Years) | 08 (4 Years) |
| M.C.A. (Full Time) | 06 (3 Years) | 12 (6 Years) |
| M.C.A. ( Lateral Entry Scheme) | 04 (2 Years) | 08 (4 Years) |
| M.B.A. (Full Time) | 04 (2 Years) | 08 (4 Years) |

4.2    Each semester shall normally consist of 70 working days or the number of periods prescribed in the curriculum with each period of 50 minutes duration for full-time mode of study for M.E. / M.Tech., and M.C.A. programmes(normally 350 periods is assumed) and 400 Periods in case of M.B.A. Programme. The Head of the Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught. But for the purpose of calculation of attendance requirement for writing the End Semester Examinations by the students, the attendance requirement as per Clause 7 should be followed.

4.3    The End Semester Examinations will ordinarily follow immediately after the last working day of the semester as per the academic schedule prescribed by the college from time to time.

4.4 The total period for completion of the programme reckoned from the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in Clause4.1 irrespective of the period of break of study (videClause18.4) in order that he/she may be eligible for the award of the degree (vide Clause17.1).

## 5.0 STRUCTURE OF PROGRAMME

The curriculum, syllabi and course contents under Regulations 2016 are designed and prepared in accordance with the Outcome Based Education (OBE) to meet out the Program Educational Objectives (PEOs), Program Outcomes (POs) and Course Outcomes (COs).

5.1 The Board of Studies of each department comprises of University nominee, two academic experts, industry expert, renowned alumni appointed by the Academic Council of the college and all faculty members of the department and HODs of allied departments. The Head of the Department concerned will act as the Chairman of the Board of Studies and will convene the meeting as and when required with approval of the Head of the Institution. Every Programme will have a curriculum with syllabi consisting of theory and practical courses (as decided by the respective Board of Studies) such as:

5.1.1 **Basic Sciences (BS)** courses include Mathematics, etc.

5.1.2 **Programme Core Courses (PC)** include the core courses relevant to the chosen programme of study and the Employability Enhancement courses such as Project, Seminar and Inplant training/ Internship.

5.1.3 **Programme Elective Courses (PE)** include the courses relevant to the chosen programme offered and registered by the student for specialization.

5.1.4 **Open Elective Courses (OE)** include the courses relevant to the chosen specialization / branch, courses of other M.E. / M. Tech./ M.B.A./ M.C.A. Programmes and courses offered by the Departments under the Faculty of Science and Humanities. The student can choose and study any course offered by the department as open elective course. The open elective courses shall be offered by the departments from the $2^{nd}$ / $3^{rd}$ semester onwards in case of M.E. / M. Tech./M.B.A. Programmes and $4^{th}$ / $5^{th}$ semester onwards in case of M.C.A.

programmes. Any open elective course will be offered to the students, provided that minimum 10 students had registered for that open elective course.

## 5.2 NON CREDIT COURSES

5.2.1 Every student shall be made to involve in any of the three non-credit courses available and provided to the students such as co-curricular, extra-curricular and club activities. The participation and involvement (provided with certificate) in the listed non-credit coursesfrom approved institutions/organizations/industries shall be considered in the progress norms and will not be indicated by the grades and will not be counted for the computation of SGPA/ CGPA. The additional courses shall be included as Non Credit Courses and provided to the students, if needed, based on the recommendations of the Academic Council of the college.

**Table 1**

| Category | Code | Details of Courses |
|---|---|---|
| *Associated Skills* | NC101 | Technical Symposium(Paper Presentation) |
| | NC102 | National / International Conference |
| | NC103 | Technical Workshop/ Seminar (Minimum 2 days) |
| | NC104 | Skill Development Courses (Minimum 4 weeks) |
| | NC105 | Industry In-plant Training / Internship *(minimum 2 weeks during the entire duration of the course)* |
| | NC106 | Research Publications |
| | NC107 | Soft Skills Certification (Minimum 1 week) |
| | NC108 | *Aptitude Proficiency Certification* |
| | NC109 | *Globally accepted online Certification Courses* |
| | NC110 | *Valid score in GATE/CAT/TOEFL/IELTS/GRE* |
| *Personality and Self-Character Development* | NC201 | *NSS / YRC / Socially Responsible Activities* |
| | NC202 | *Cultural Activities* |
| | NC203 | *Yoga* |
| | NC204 | *Sports & Games* |
| | NC205 | *Human Rights and Human Values* |

## 5.3 CREDIT ASSIGNMENT

Each course is normally assigned with **1** credit per lecture period per week, **1** credit per 2 tutorial periods per week, **1** credit for 2 periods of laboratory or practical or seminar or project work per week (2 credits for 4 periods of practical).

5.4    **PROJECT WORK**

The Project Work is an important component of a post graduate programme. TheProject work for M.E. programme consists of Phase I work& PhaseII work. The PhaseI work is to be undertaken during $3^{rd}$semester of M.E. programme and Phase II work which is a continuation of Phase I work is to be undertaken during $4^{th}$ semester. For M.C.A. / M.B.A. programme, the project work has to be undertaken in the final semester.

5.4.1    The project work (Phase-II) for M.E./M.Tech./M.C.A./M.B.A. programme shall be pursued for a minimum of 16 weeks during the final semester.

5.4.2    Project work shall be carried out under the supervision of a faculty member possessing Ph.D. degree or PG degree with a minimum of 3 year's experience in teaching.

5.4.3    A student may, however, in certain cases, be permitted to work on project in an industry / research organization, on the recommendations of the Head of the Department. In such cases, the project work shall be jointly supervised by a supervisor of the department and an expert as a joint supervisor from the organization. The student shall be instructed to meet the supervisor periodically and to attend the review committee meetings conducted in the department for the evaluation of the project work.

5.5    Two weeks of practical training in any industrial / research laboratory is applicable to all modes of study.Practical training or Industrial training as specified in the curriculum should be organized by the Head of the Department / Institution for a duration not exceeding 4 weeks.

5.6    Candidates of M.E. / M.Tech. programme should undergo 2 weeks training in teaching practices like handling theory and practical courses to the undergraduate programme.

5.7    Summer project if specified in the curriculum, should be organized by the Head of the Department / Institution for a duration not exceeding 6 weeks.

5.8    The electives from the curriculum are to be chosen with the approval of the Head of the Department. A candidate may be permitted by the Head of the Department to choose a maximum of two electives from other P.G. Programmes offered by the respective Department provided the Head of the Department offering such courses also approves such requests subject to no clash in the time-table for the lecture classes of both the programme.

5.9     **MEDIUM OF INSTRUCTION**

The medium of instruction shall be English for all courses, examinations, seminar presentations and project thesis/dissertation reports.

5.10    For the award of the degree, a student has to earn certain minimum total number of credits specified in the curriculum of the relevant branch of study.

5.11    **ONE CREDIT COURSES**

One Credit Coursesare optional. The courses shall be provided from first semester onwards, either by industry/other academic institution /parent institution /through online courses with the approval of Board of Studies of the department concerned and a maximum of threeone credit courses can be opted during his/her period of study. The duration of the theory course is 15 hours, integrated theory and practical is 20 hours, practical course is 30 hours and for online courses, it shall be a minimum of 4 weeks. The grades earned by the students for the one-credit courses shall not be included in the computation of CGPA. However, they shall be considered as additional credits earned in the grade sheet. Core courses cannot be replaced/ exempted by any on-line courses like NPTEL etc. The department advisory committee shall submit the necessary equivalent grades for the marks obtained in the online one credit courses to the COE Office.

5.12    **ONLINE COURSES**

5.12.1 The students may be permitted to undergo one online course of 3 credits weightage between 1st and 2nd semester (which are provided with certificate after evaluation of the performance) with a minimum of 12 weeks duration for those courses listed as professional electives with the approval of the respective Boards of Studies concerned.

5.12.2 After successful completion of one online course,the students may obtain exemption from studying one Professional Elective and in such case the marks obtained in online course shall be converted to equivalent grade and included for calculation of Cumulative Grade Point Average (CGPA). The department advisory committee shallsubmit the necessary equivalent grades for the marks obtained in the online courses to the respective BoS for the approval and then to the COE Office.

### 5.13  INDUSTRIAL TRAINING / INTERNSHIP

The students may undergo industrial training for a period as specified in the Curriculum during summer/winter vacation at industry / research organizations / Universities/ academic institutions  (after due approval from the Department Consultative Committee).

If Industrial training / internship is not prescribed in the curriculum, the students may undergo Industrial training / internship optionally for a minimum of two weeks and earns the certificate and such certificate Shall be considered for progress norms requirement.

### 5.14  INDUSTRIAL VISIT

Every student is expected to undergo one industrial visit every year starting from the first year of the programme, subject to the approval of the HoD and Principal. The heads of the department shall ensure that necessary arrangements are made in this regard.

## 6.0  COURSE REGISTRATION

6.1  Each student, on admission shall be assigned to a Class Coordinator (vide Clause 8) 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.

6.2  Every student shall enroll the courses of the succeeding semester, in the current semester. However, the student shall confirm the enrollment by registering the courses within the first five working days after the commencement of the semester concerned.

6.3  After registering a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Internal Assessment marks and appear for the End Semester Examinations.

    6.3.1  Each student on admission to the programme shall register for **all the courses prescribed in the curriculum in** the **first Semester of study ($3^{rd}$ semester** for students admitted under **lateral entry scheme).**

    6.3.2  The enrollment for all the courses of the $2^{nd}$ semester will commence 10 working days prior to the last working day of $1^{st}$ semester. The student shall confirm the enrollment by registering for the courses within the first five working days after the commencement of the $2^{nd}$ semester. In the case, 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.

6.3.3   The enrollment for the courses of the $2^{nd}$ semester to final semester 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 class coordinator. If a student wishes, the student may drop or add courses (vide Clause 6.4) within fiveworking days after the commencement of the semester concerned and complete the registration process duly authorized by the Class Coordinator.

6.3.4   In any department, the preference for registration shall be given to the students of that department for whom the course is a programme core course. The registration for any course shall be on first come first served basis, provided the student fulfills prerequisites for that course, if any. The number of students to be registered shall be based on the class room and laboratory capacity. Every effort shall be made by the Department/Centre to accommodate as many students as possible.

6.3.5   No course shall be offered by a department unless a minimum of 05 students are registered for that course.However, if the student admitted is less than 05, this minimum will not be applicable.

6.3.6   The student can have the option of registering Maximum TWOopen elective courses from other departments/ parent department.

**6.4     Flexibility to Add or Drop courses**

6.4.1   A student has to earn a total minimum number of credits specified in the curriculum of the respective programme of study in order to be eligible 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 by opting additional courses.

6.4.2   From the $2^{nd}$to final semesters, the student has the option of registering for additional courses provided that the prerequisite of the courses should be fulfilledor dropping the elective courses. Total number of credits of such courses cannot exceed 6. However the maximum number of credits that a student can

register in a particular semester shall not exceed 30 credits. In such cases, the attendance requirement as stated Clause 7 is mandatory.

6.4.3 The student shall register for the Project Phase I work in the third semester and Project Phase II work in the fourth semester in the case of M.E./M.Tech programme. In the case of MBA degree programme the student shall register for project work in the fourth semester. In the case of MCA programme,the student shall register for project work in the sixth semester. However, if the student do not satisfy the requirement of undergoing the Non Credit Courses, viz any three of the Non Credit Courses as specified in Table 1, the student may be permitted to register for the Project Work (Phase II for in the case of M.E./M.Tech. programme) as and when the student satisfies the progress norms requirements.

**6.5    Reappearance Registration**

6.5.1 If a student fails in a course, the student shall do reappearance registration for that course in the subsequent semester or when it is offered next. The registration of reappearance courses in the subsequent semester is mandatory.

6.5.2 On registration, a student may attend the classes for the reappearance registration courses, if the student wishes. However, the attendance requirement (vide Clause 7) is not compulsory for such courses.

6.5.3 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 in the subsequent semesters.

6.5.4 If a student is prevented from writing the 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 7.If the course, in which the student has 'lack of attendance', is a programme elective or an open elective, the student may register for the same or any other programme elective or open elective course(s) respectively in the subsequent semesters and appear in the examination as per Clause 7.

**7.0     REQUIREMENTS FOR ATTENDANCE AND PROGRESS**

7.1     **ELIGIBILTY NORMS**

A candidate who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester.

Ideally every student is expected to attend all classes and secure 100% attendance for the specified hours. However, the student should **secure not less than 75%** (after rounding off to the nearest integer) of overall attendance for the specified hours.

The student's academic progress should be satisfactory for each and every semester and is ascertained through the appearance and performance in the Continuous Internal Assessment Tests.

The student's character / conduct should be satisfactory.

7.2     However, a candidate who **secures overall attendance between 65% and 74%** in the current semester for the specified hours due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examinations to a maximum of TWO times during the period of study. In such case, the candidate shall submit the medical certificate/sports participation certificate attested by the Head of Department and approved bythe Principal during the period of medical leave and prior in advance for participation in sports. The same shall be forwarded to the Controller of Examinations for record purposes.

7.3     **PROGRESS NORMS**

Candidates who do not satisfy the requirement of undergoing the non-credit courses viz. any of the **THREE** non-credit courseslisted in theTable 1 within the **Third / Fifth** semester will not be allowed / permitted to register for **Fourth / Sixth** semester. Such candidates are permitted to register for the **Fourth / Sixth** semester only after completing the above mentioned requirements. Thesatisfactorycompletion of the non-credit courses to meet the progress norms will be mentioned in the grade sheet as **COMPLETED.**

7.4     Candidates who **secure less than 65% overall attendance and candidates who do not satisfy the Clause7.1 and 7.2** and / or qualify the norms for progress specified in

**Clause7.3** shall not be permitted to write the End Semester Examinations at the end of the semester and to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed by the Directorate of Technical Education, Chennai and Anna University, Chennai.The candidate will however be readmitted not more than once during the period of study. However, under specific circumstances, second readmission is permitted for the students on valid medical reasons.

**8.0    CLASS COORDINATOR**

The class coordinator will be one among the faculty membersof the class. He / She will be appointed by the Head of the Department concerned. The responsibilities for the class coordinator shall be:

➢ To act as the channel of communication between the Head of the Department and the students of the respective class.

➢ To collect and maintain various statistical details of students.

➢ To help the chairperson of the class committee in planning and conduct of the class committee meetings.

➢ To monitor the academic performance of the students including attendance periodically and to inform the Head of the Department and parents about the student's progress.

**9.0    CLASS COMMITTEE**

9.1    Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a senior faculty member, who is not teaching the class as the chairperson. The overall goal of the class committee is to improve the teaching-learning process. The functions of the class committee include:

➢ solving problems experienced by students in the class room and in the laboratories.

➢ **clarifying the Regulations of the post graduate degree programme and the details of rules therein particularly (Clause5,6 and 7) which should be displayed on college notice-Board.**

➢ informing the student representatives about the academic schedule including the dates of assessments and the syllabus coverage for each assessment.

- informing the student representatives about the details of Regulations and mark details of each assessment.In the case of practical courses, the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
- analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
- identifying the weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.

9.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department.

9.3 The class committee shall be constituted within the first week of each semester.

9.4 At least 6 student representatives (usually 3 boys and 3 girls) shall be included in the class committee.

9.5 The Chairperson of the class committee may invite the Class Coordinator(s) and the Head of the Department to the class committee meeting.

9.6 The Head of the Institution may participate in any class committee meeting of the class.

9.7 The Chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Department within two days of the meeting and arrange to circulate it among the students and teachers concerned and a copy of the minutes of meeting should be submitted to the Head of the Institution. If there are some points in the minutes requiring remedial action to be taken by the management, the same shall be brought to the notice of the management by the Head of the Institution for further action.

9.8 The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and assessment process within the framework of the Regulations. Three subsequent meetings may be held in a semester at suitable intervals. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

**10.0    COURSE COMMITTEE FOR COMMON COURSES**

Each common theory course offered to more than one discipline or group shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course Committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the internal assessment test(s).

**11.0    SYSTEM OF EVALUATION**

11.1    Performance in each course of study shall be evaluated based on

　　　　　　　(i) Continuous Internal Assessment and

　　　　　　　(ii) End Semester Examinations at the end of the semester.

11.2    Each theory course shall be evaluated for a maximum of 100 marks with **40 marks** as Internal marks based on the Continuous Internal Assessment and **60 marks** as External marks based on the End Semester Examinations.Similarly each practical course (including Project Work &Viva Voce examinations) shall be evaluated for a maximum of 100 marks with **50 marks** as Internal marks based on the Continuous Internal Assessment and **50 marks** as External marks based on the End Semester Examinations.

11.3    The End Semester Examinations (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.

11.4    The End Semester Examinations for project work shall consist of evaluation of the final report submitted by the student by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the student and an internal examiner.

11.5    For the End Semester Examinations in both theory and practical courses including Project Work, the internal and external examiners shall be appointed by the Controller of Examinations.

**12.0    ASSESSMENT SCHEME**

12.1    Theory & Practical Courses

| Theory Courses | | Practical Courses / Project Work | |
|---|---|---|---|
| Continuous Internal Assessment | 40 Marks | Continuous Internal Assessment | 50 Marks |
| End Semester Examination | 60 Marks | End Semester Examination | 50 Marks |
| Total | 100 Marks | Total | 100 Marks |
| **Internal Assessment** | | **Internal Assessment** | |
| Continuous Internal Assessment Test 1 | 10 Marks | Preparation & Conduct ofExperiment | 20 |
| Continuous Internal Assessment Test 2 | 10 Marks | Observation & Results | 10 |
| Continuous Internal Assessment Test 3 | 10 Marks | Record | 05 |
| Attendance | 05 Marks | Viva | 05 |
| Practices adopted by the student (Seminar Presentation / Assignment ) | 05 Marks | 40 Marks for each experiment as specified above will be averaged as the Internal Assessment Marks **40 Marks** | |
| | | Model Practical Examinations | 10 Marks |
| **Total** | **40 Marks** | **Total** | **50 Marks** |
| **End Semester Examinations** | | **End Semester Examinations** | |
| **Examination Duration : 3 Hours Max. Marks : 100 (Converted to 60 marks)** | | **Examination Duration : 3 Hours Max. Marks : 100 (Converted to 50 marks)** | |

The assigned 05 marks for attendance in the continuous internal assessment process are detailed below.

| Range of Attendance | Marks |
|---|---|
| 75 % - 84 % | **03** |
| 85 % - 89 % | **04** |
| 90 % - 100 % | **05** |

12.2    Theory Courses with Laboratory Component

Three tests will be conducted. The first two tests (each 100 marks) will be from theory portions and the third test (maximum mark 100) will be for laboratory component. The sum of marks of first two tests shall be converted to 60 marks and the third test mark shall be converted to 40 marks. The sum of these 100 marks may then be arrived at for 40 marks and rounded to the nearest integer.The End Semester Examinations shall be conducted in the similar manner as conducted for the theory courses for the theory portions only.

12.3    Course such as Technical Seminar / Case study is to be considered as purely **INTERNAL**with**NO CREDIT**. Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by Head of the Institution/Department will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40 marks), presentation (40 marks) and response to the questions asked during presentation (20 marks).

12.4    Courses such as Industrial / Practical training and summerproject shall be evaluated through internal assessment only. At the end of Industrial / Practical training / Summer Project, the candidate shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a VivaVoce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.

12.5    Project Work

12.5.1 The Project work for M.E./M.Tech. programmeconsists of Phase I work and Phase II work. The Phase I work is to be undertaken during 3$^{rd}$ semester and Phase II work, which is a continuation of Phase I work is to be undertaken during 4$^{th}$semester.

12.5.2 In case of candidates of M.E. / M.Tech. Programme not completing Phase I work of project work successfully, the candidates can undertake Phase I work again in

the subsequent semester. In such case, the candidates can enroll for Phase II work, only after the successful completion of Phase I work.

12.5.3 Project work shall be carried out under the supervision of a "qualified faculty member" in the department concerned. In this context "qualified faculty member" means the faculty member possessing (i) PG degree with a minimum of 3 years experience in teaching or (ii) Ph.D. degree.

12.5.4 A candidate may, however, in certain cases, be permitted to work on projects in an industrial/research organization, on the recommendations of the Head of the Department concerned. In such cases, the project work shall be jointly supervised by a supervisor of the candidate and an expert, as a joint supervisor from the industrial/research organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress.

12.5.5 The Project work (Phase II in the case of M.E/M.Tech.) shall be pursued for a minimum of 16 weeks during the final semester.

12.5.6 The deadline for submission of final project report is 60 calendar days from the last working day of the semester in which project / thesis / dissertation is done. However, the Phase-I of the project work in the case of M.E./M.Tech. programmes shall be submitted within a maximum period of 30 calendar days from the last working day of the semester as per the academic calendar published by the college.

12.5.7 The candidates pursuing M.E./M.Tech. programmes should publish /communicate the project work to refereed / Scopus indexed journals and national / international level conferences. The publications of the project work in the refereed / scopus indexed journals and national / international level conference is MANDATORY for submitting the thesis.

12.6 Evaluation of Project Work

12.6.1 The evaluation of Project Work for Phase I & Phase II in the case of M.E. / M.Tech. and project work of M.B.A and M.C.A shall be done independently in the respective semesters and marks shall be allotted as per the weightage.

12.6.2 The Head of the Institution shall constitute a Review Committee for project work for each branch of study. There shall be three reviews of 100 marks each during

the semester by the Review Committee. The student shall make presentation on the progress made by him / her before the committee. The project report shall be submitted as per Anna University, Chennai. The total marks obtained in the three reviews and the marks for thesis submission shall be **converted asinternals marks (50 marks)**and rounded to the nearest integer.

| Review I | Review II | Review III | Project Submission & Assessment by the Supervisor | Total Marks |
|----------|-----------|------------|---------------------------------------------------|-------------|
| 10 | 20 | 30 | 40 | 100 |

12.6.3 The End Semester VivaVoce Examination shall carry 100 marks. Marks are awarded to each student based on the performance in the viva-voce examination and **converted as external End Semester Examination marks (50 marks)**and rounded to the nearest integer.

| End Semester Examinations | | | | |
|---------------------------|---|---|---|---|
| ProjectEvaluation | | Viva-Voce  (60) | | Total Marks |
| Internal | External | Internal | External | |
| 20 | 20 | 30 | 30 | 100 |

12.6.4 If the candidate fails to obtain 50% of the internal assessment marks in the PhaseI and PhaseII / final project, he/she will not be permitted to submit the report for that particular semester and has to re-enroll for the same in the subsequent semester.

12.6.5 If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the project work and shall re-enroll for the same in a subsequent semester. This applies to both Phase–I and Phase–II in the case of M.E. / M.Tech. Project Work and the Final Project work of M.B.A. / M.C.A.

12.6.6 If a candidate fails in the End Semester Examinations of Phase I of project work, he/she has to resubmit the project report within 30 days from the date of declaration of the results. If he/she fail in the End Semester Examinations of Phase–II of Project work of M.E. / M.Tech. or the final project work of M.B.A. / M.C.A, he/she shall resubmit the Project Report within 60 days from the date of

declaration of the results. The resubmission of a project report and subsequent viva-voce examination will be considered as reappearance with payment of exam fee.

12.6.7 A copy of the approved project report after the successful completion of Viva Voce examination shall be kept in the library of the college / institution.

12.6.8 Practical / Industrial training, Summer project as specified in the curriculum shall not exceed the maximum duration of 4 weeks and should be organized by the Head of the Department for every student.

12.7 Internal marks approved by the Head of the Institution shall be displayed on the notice board by the respective HODs within 5 days from the last working day.

12.8 Attendance Record

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the Department periodically (15 days once to maximum of 7 times per semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the Department will sign with date after due verification. At the end of the semester, the record should be verified by the Head of the Institution and submitted to the Controller of Examinations who will keep this document in safe custody (for five years). The inspection team appointed by the College / University may verify the records of attendance and assessment of both current and previous semesters.

## 12.9 MALPRACTICE

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

## 12.10 ASSESSMENT FOR ONE CREDIT COURSES

The evaluation process for theory based one credit courses shall be of 40 % internal assessment and 60 % external assessment, for integrated theory and practical and practical oriented one credit courses; it shall be of 50 % internal assessment and 50 %

external assessment and for online one credit courses, the assessment shall be conducted by the respective certification authority and its marks shall be made grade equivalents by the respective advisory committee. The question papers for the one credit courses have to be provided by the expert concerned who handle the practical/ theory course to the COE office. The duration of examination for one credit courses may be of 1½ hours for 50 marks. The students have to appear for One Continuous Internal Assessment and an End Semester examination.

**12.11  ASSESSMENT FOR ONLINE COURSES**

On successful completion of any MOOC, the student shall submit the digitally signed / verified certificate (after performance evaluation) to the Head of the department. The grade equivalence shall be approved by DAC and forwarded to the Controller of Examinations.

**13.0  REQUIREMENTS FOR APPEARING AND PASSING THE EXAMINATIONS**

**13.1  APPEARING REQUIREMENTS**

13.1.1 A candidate shall normally be permitted to appear for the End Semester Examinations of the current semester if he/she has satisfied the semester completion requirements (subject to Clause 7) and has registered for examination in all courses of the semester.

13.1.2 Registration is mandatory for current semester examinations as well as arrear examinations.

13.1.3 A student who has passed all the courses prescribed in the curriculum for the award of the degree shall not be permitted to re-enroll to improve his/her marks in a course or the aggregate marks / CGPA.

**13.2  PASSING REQUIREMENTS**

13.2.1 A candidate who secures not less than 50% of total marks prescribed for the course [Continuous Internal Assessment + End Semester Examinations] with a minimum of 50% of the marks prescribed for the EndSemester Examinations, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and practical courses (including project work).

13.2.2 If a candidate fails to secure a pass in a particular course, it is mandatory that he/she shall register and reappear for the examination in that course during the subsequent semester when examination is conducted in that course; he/she should continue to register and reappear for the examinations in the failed subjects till he / she secures a pass.

13.2.3 The internal assessment marks obtained by the candidate in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (Internal Assessment + End Semester Examination) as per clause 13.2.1, then the candidate shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for end semester examinations alone.

## 14.0    AWARD OF GRADES

All assessments of a course will be done on absolute marks basis. However, for the purpose of reporting the performance of a candidate,  grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each course as detailed below:

| Range of Marks | Letter Grade | Grade Point | Description |
|---|---|---|---|
| 90 -100 | O | 10.0 | Outstanding |
| 80 - 89 | A+ | 9.0 | Excellent |
| 70 -79 | A | 8.0 | Very Good |
| 60 - 69 | B+ | 7.0 | Good |
| 55 - 59 | B | 6.0 | Above Average |
| 50- 54 | C | 5.0 | Average |
| 0-49 | RA | 0.0 | Fail |
|  | SA | 0.0 | Shortage of Attendance |
|  | RA* | 0.0 | Absent |
|  | W | 0.0 | Withdrawal |

Non - credit courses shall be indicated as COMPLETED or NOT COMPLETED instead of the grades and this will not be counted for the computation of SGPA/ CGPA.

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+","B".

**'SA'** denotes **shortage of attendance** (as per Clause 6.4) and hence prevented from writing the end semester examination. 'SA' will appear only in the result sheet.

**"RA*"** denotes Absent for which reappearance is required for the examination in the course.

"**W**" denotes withdrawalfrom the exam for the particular course. (The grades RA will figure both in Grade Sheet as well as in Result Sheet)

**Grade sheet**

After the results are declared, Grade Sheet will be issued to each student which will contain the following details:

➢ The college in which the candidate has studied

➢ The list of courses enrolled during the semester, grade scored and credits earned

➢ The Semester Grade Point Average (SGPA) for the semester and

➢ The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

SGPA for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

CGPA will be calculated in a similar manner, considering all the courses registered from the first semester to eighth semester. "W" grades will be excluded for calculating GPA and CGPA.

The SGPA / CGPA will be available in the grade sheets only if the candidate has passed all the courses registered for that particular semester.

$$\textbf{SGPA / CGPA} = \frac{\sum_{i=1}^{n} C_i G_i}{\sum_{i=1}^{n} C_i}$$

Where

$C_i$ is the Number of Credits assigned to the course

$G_i$ is the point corresponding to the grade obtained for each course $n$ is number of all courses successfully cleared during the particular semester in the case of SGPA and during all the semesters in the case of CGPA.

The Equivalent marks to the CGPA will be printed in the grade sheet.

## 15 AWARD OF THE DEGREE – ELIGIBILTY & CLASSIFICATION

## 15.1 ELIGIBILTY

**A student shall be declared to be eligible for the award of the Degree if he/she has**

➢ passed the End Semester Examinationsfor all the courses of all the eight semesters.

➢ successfully gained the required number of total credits as specified in the Curriculum corresponding to his/her Programme within the stipulated time.

➢ no disciplinary action pending against him/her.

➢ been recommended by the Academic Council of the college to the University, which in turn shall award the degree.

➢ successfully completed any additional courses prescribed by the Dean Academics of the college, whenever any candidate is readmitted under Regulations other than Regulations 2016 based on the recommendations of the specific committee.

## 15.2 CLASSIFICATION OF THE DEGREE AWARDED

15.2.1 First Class with Distinction

A candidate shall be declared to have passed the examination in **First Class with Distinction**under the following conditions.

**M.E. / M.Tech., M.B.A.(Full Time)& MCA(LES)**

➢ Should have passed the End Semester Examinations in all the courses of all the four semesters in his/her **First Appearance** within two years. Withdrawal from examination (vide Clause 17) will not be considered as an appearance. One year

authorized break of study (if availed of) is permitted in addition to two years for award of First Class with Distinction.

➢ Should have secured a CGPA of not less than 8.50

**M.E. / M.Tech., M.B.Aand M.C.A (Full Time)**

➢ Should have passed the End Semester Examinations in all the courses of all the six semesters in his/her **First Appearance** within three years. Withdrawal from examination (vide Clause 17) will not be considered as an appearance. One year authorized break of study (if availed of) is permitted in addition to three years for award of First Class with Distinction.

➢ Should have secured a CGPA of not less than 8.50

15.2.2  First Class

A candidate shall be declared to have passed the examination in **First class**if he/shesatisfies the following conditions.

**M.E. / M.Tech., M.B.A. &M.C.A (LES)**

➢ Should have passed the End Semester Examinations in all the courses of all the four semesters within three years. One year authorized break of study (if availed of) or prevention from writing the End Semester Examinations due to lack of attendance (if applicable) is included in the three years.

➢ Should have secured a CGPA of not less than 6.5

**M.C.A**

➢ Should have passed the End Semester Examinations in all the courses of all the six semesters within four years. One year authorized break of study (if availed of) or prevention from writing the End Semester Examinations due to lack of attendance (if applicable) is included in the four years.

➢ Should have secured a CGPA of not less than 6.5.

15.2.3  Second Class

➢ All  other  candidates (not covered in Clauses 15.2.1 and 15.2.2) who qualify for the award of the degree (vide Clause 15) shall be declared to have passed the examination in **Second Class**.

> A candidate who is absent in End Semester Examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification. (subject to Clause 17 and 18)

## 16.0 REVALUATION

16.1 A candidate can apply for photocopy of the answer scripts of the theory course for the examination conducted within 1 week from the declaration of resultson payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institution. She/he can apply for revaluation of the concerned answer paper based on the genuineness of the evaluation, within 2 weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institution. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate through the college website. Revaluation is not permitted for practical courses and for project work.

16.2 A candidate can apply for revaluation of answer scripts fornot exceeding 5 subjects at a time.

## 17.0 WITHDRAWAL FROM END SEMESTER EXAMINATION

17.1 A candidate  may be granted permission to withdraw from appearing for the examination of any regular course(s) of only one semester examinations. Such withdrawal is permitted only once during the entire period of study of the degree programme.

17.2 Withdrawal application shall be valid only if the candidate is otherwiseeligible to write the examination and if it is made prior to thecommencement of the examination in that course or courses in normalcircumstances and also recommended by the Head of the Department, otherwise the applications shall not be considered.Incase accidents or unforeseen circumstances, the withdrawal will be considered even after the conduct of examination, however the applicationis made within a week time subject to the approval of the Head of theDepartment and Head of Institution.

17.3 Withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction. Withdrawal from the End Semester Examinations is **NOT** applicable to arrear subjects of previous semesters. The candidate shall reappear for the withdrawn    courses    during    the    examination    conducted    in    the    subsequent

semester.Withdrawal shall not be permitted in the **Fourth / Sixth** End Semester Examinations.

## 18.0    AUTHORISED BREAK OF STUDY

18.1    Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. If a candidate intends to temporarilydiscontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Dean Academics of the collegein advance, but not later than the last date for registering for the End Semester Examinations of the semester through the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.

18.2    The candidates permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining.The students rejoining in new Regulations shall apply to the Dean Academics of the college in the prescribed format through Head of the Institution at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum and the same may be approved by the Dean Academics of the college.

18.3    The authorized break of study will not be counted with the duration specified for passing all the courses for the purpose of classification (vide Clause 15.2).The total period for completion of the Programme, reckoned from the commencement of the first semester to which the candidate was admitted, shall not exceed the maximum period specified in Clause4.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.

18.4    If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause18.1)

## 19.0    CO-CURRICULAR DEVELOPMENT

Every student being admitted to any post graduate degree programme should undergo and involve in any of the curricular and co-curricular activities / events during the period of study.

**Industry Internships** will equipthestudents with the latest ongoing trends in the industries**.**

**Technical Workshops / Seminars / Skill Development Courses**will enhance the skills and domain knowledge of the students.

**Publications** in national and international level conferences and Scopus indexed and refereed Journals will improve higher level thinking and presentation skills.

## 20.0    PERSONALITY AND CHARACTER DEVELOPMENT

All students shall enroll, on admission to M.B.A/ MCA programmes should attend any of the personality and character development programmes (NSS / YRC) and undergo training for stipulated hours and in case of NSS, a special camp for about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.

**National Service Scheme (NSS)** will have social service activities in and around the College.

**Youth Red Cross (YRC)** will have activities related to social services in and around college.

**Sports & Games** activities will include preparation for inter-collegiate sports events.

**Yoga**for training the body and mind.

**Club Activities** initiate the Corporate Social Responsibility**.**

The training activities will normally be conducted during the weekends and the camp will normally be during the vacation period.

## 21.0    DISCIPLINE

Every student is required to observe discipline and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the college. The Head of Institution shall constitute a disciplinary committee consisting of the Heads of Department of which one should be from the faculty of the student to enquire into acts of indiscipline and notify to the Head of the Institution about the disciplinary action recommended for approval.

## 22.0    REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The college may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and scheme of examinations if deemed necessary based on the approval of Academic council of the college.

## 23.0    AUDITS ON THE EXAMINTION SYSTEM

An audit on the examination system such as verification of the standard of question papers prepared by the examiners, valuation of answer scripts and methods adopted in awarding marks will be conducted by the team of expert members from IIT/NIT/Government Engineering Colleges and reputed autonomous engineering colleges, appointed by the Head of the Institution, after the completion of all the End Semester Examinations.

# PAAVAI ENGINEERING COLLEGE
**(Autonomous Institution)**
(Approved by AICTE and Affiliated to Anna University)
(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu
04286-243038, 58,88 & 98  Fax: 04286-243068  Email: pecprincipal@paavai.edu.in  website: http://pec.paavai.edu.in

## Minutes of Fifth Academic Council Meeting
### Venue: Smart Hall
### Date and Time: 25.05.2019, 02.00 PM
### Member Present

| S. No. | Name | Designation | Position in the Committee | College/ University/ Industry | Signature |
|---|---|---|---|---|---|
| 1. | Dr. M. PREMKUMAR | Principal | Chairman | Paavai Engineering College | |
| 2. | Dr. R. SARAVANAN | Professor | University Nominee | Department of Mechanical Engineering, CEG Campus, Anna University, Chennai. | |
| 3. | Dr.S. THANIGAIARASU | Professor | University Nominee | Department of Aerospace Engineering, MIT Campus, Anna University, Chennai | |
| 4. | Dr. T. SHRIMATHY VENKATALAKSHMI | Professor | University Nominee | Department of English CEG Campus, Anna University, Chennai | |
| 5. | Dr.N. ALAGAMURTHI | Professor | Academic Expert | Department of Mechanical Engineering Pondicherry Engineering College | |
| 6. | Mr. R. SUNDARAM | Managing Director | Expert appointed by the Academic Council | Aerospace Engineering Ltd, Salem | |
| 7. | Dr. R. LATHA | Assistant Civil Surgeon | | Govt. Primary Health Centre, Puthanchanthai | |
| 8. | Mr.I.K. PALANIVEL | Chief Accountant | | Chief Accountant | |

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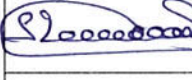
Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu
04286-243038, 58,88 & 98  Fax: 04286-243068  Email: pecprincipal@paavai.edu.in  website: http://pec.paavai.edu.in

| 9. | Dr.K.K.RAMASAMY | Director Administration | | | |
|----|----|----|----|----|----|
| 10. | Dr. K. SELVI | Dean Academics | | | |
| 11. | Dr.B.MURALIBABU | Controller of Examinations | | | |
| 12. | Dr. R.ARANGASAMY | Professor & HoD/ECE | | | |
| 13. | Dr. G.BALAJI | Professor & HoD/EEE | | | |
| 14. | Dr. A. SUPHALAKSHMI | Professor & HoD/CSE | | | |
| 15. | Prof. B.VENKATESAN | Professor & HoD/IT | | | |
| 16. | Prof. A.P.SIVA SUBRAMANIAM | Professor & HoD/MECH | Member | Paavai Engineering College | |
| 17. | Prof. J. UMANAMBI | Professor & HoD/CIVIL | | | |
| 18. | Dr. D.R.P.RAJARATHNAM | Professor & HoD/MCT | | | ABSENT |
| 19. | Prof. D.RAJKUMAR | Professor & HoD/AERO | | | |
| 20. | Dr. G. SRINIVASAN | Professor & HoD/Chemical | | | |
| 21. | Prof .K. VISHNUBHARATH | Asst.Professor& HoD/Agri. | | | |
| 22. | Prof. M. MOHAN | Professor & HoD S&H | | | |
| 23. | Dr.G.RAJA | Professor & HoD/Chemistry | | | |

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04286-243038, 58,88 & 98  Fax: 04286-243068  Email: pecprincipal@paavai.edu.in  website: http://pec.paavai.edu.in

| | | | | | |
|---|---|---|---|---|---|
| 24. | Dr. P.JAYAKUMAR | Professor & HoD/Maths | | | |
| 25. | Dr.S. VADIVEL | Professor & HoD/Physics | | | |
| 26. | Dr.R.SHANTHI | Professor & HoD/English | | | |
| 27. | Dr.P. MUTHUSAMY | Professor & HoD/MCA | | | |
| 28. | Dr.R.N. PADMA | Professor & HoD/MBA | | | |
| 29. | Dr.S. KUMARGANESH | Professor & HoD/Bio Medical | Member | Paavai Engineering College | |
| 30. | Dr.S. VIJAYAKUMAR | Professor & HoD/Medical Electronics | | | |
| 31. | Prof.D. SREENIVASAN | Professor & HoD/Food Technology | | | |
| 32. | Dr.K. MUTHAMIZHI | Professor & HoD/Pharmaceutical Technology | | | |
| 33. | Dr. V. SUBBURAM | Professor & Mech | | | |
| 34. | Dr. N. MAGENDIRAN | Professor & CSE | | | |

The Fifth Academic Council Meeting of Paavai Engineering College was held on 25.05.2019 at 2:00 p.m. in the Smart Hall to discuss the following agenda.

| ITEM | CONTENT |
|------|---------|
| 1. | Welcome address |
| 2. | Dean, Academics Presentation on the academic matters<br><br>a) Achievements<br><br>b) Confirmation of Fourth  Academic Council Meeting<br><br>c) Proposed Academic Regulations 2019 (CBCS – UG & PG)<br><br>d) Standing Committee minutes<br><br>    o   Readmission<br><br>    o   BoS suggestions<br><br>    o   Amendments in the Regulations 2016<br><br>e) Review of results<br><br>f) Approval  of Faculty Recruitment<br><br>g) Industry institute MoUs<br><br>h) Entrepreneurship<br><br>i) Placement |
| 3. | Suggestions by Academic Council Members |
| 4. | Vote of Thanks |

## ITEM 01: WELCOMEADDRESS

Dr.M.Premkumar, Principal, welcomed all the members for the fourth Academic Council meeting. The Chairman of the Academic Council introduced the members.

## ITEM 02: DEAN ACADEMICS PRESENTATION

Dr.K.Selvi, Dean Academics presented the details of the academic matters that happened during the academic year 2018-2019 and also the amendments in UG and PG Regulations 2016.

### a)  Achievements

❖ The achievements of the college for the academic year 2017-2018 such as NBA accreditation, awards and certifications received by the faculty members, students, and the Champion of  Champions Trophy in Anna university sports and games

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* The various funds received by the departments from PMKVY, AICTE, CSIR, ICMR, TNSCT and Institution of Engineers.
* The placement details such as the number of students placed in the various companies during the academic year.
* Business Incubation Centre has been established in our institution under the Ministry of Micro Small Medium Enterprises – Government of India

b) **Confirmation of the minutes of the Fourth Academic Council meeting**

* Funding details for 3 consecutive years may be mentioned

   **Action taken:**

   Received Rs.1,54,79,330 from various funding agencies

* Postgraduate programmes shall be sustained

   **Action Taken:**

   PG programmers are sustained

   **The Academic Council approved the same.**

c) **Proposed Academic Regulations 2019 (CBCS – UG & PG)**

   The Proposed Academic Regulations 2019 (CBCS – UG & PG) was presented in detail and the same has been approved.

d) **Standing Committee minutes**

   **READMISSION**

   **Minutes of the 7<sup>th</sup> Standing Committee Meeting**

   1. DOTE:  MEMO NO 14400 / ECA1 / 2018 , DATED :18.09.2018
   2. Anna University:  Letter No.ODD/RA/SA2-2/2018-2019 DATED: 05-10-2018

| S.No | Name of the Student & Register No. | Semester /Year of Break of Study | Semester /Year of Readmission sought | Addition of Courses & semester of study | Exemption of Courses & semester |
|------|-----------------------------------|----------------------------------|--------------------------------------|-----------------------------------------|---------------------------------|
| **B.E. Aeronautical Engineering** | | | | | |
| 1. | C. Pandiyan (15101020) | 3<sup>rd</sup> Semester 2016 - 2017 | 3<sup>rd</sup> Semester 2018 - 2019 | NIL | NIL |
| **B.E. Agriculture Engineering** | | | NIL | | |
| **B.E. Civil Engineering** | | | | | |

| | | | | CE16404-Concrete Technology (Sem V) | CE16504 Water Supply Engineering (Sem V) |
|---|---|---|---|---|---|
| 2. | R.G. Smith (15103102) | 5th Semester 2017 - 2018 | 5th Semester 2018 - 2019 | CE16403-Construction Techniques , Equipment and Practices (Sem VI) | |
| **B.E. Computer Science and Engineering  NIL** | | | | | |
| **B.E Electronics and Communication Engineering** | | | | | |
| 3. | T. Ruban Raj (15105087) | 5th Semester 2017-2018 | 5th Semester 2018-2019 | NIL | NIL |
| **B.E. Electrical and Electronics Engineering** | | | | | |
| 4. | C. JakirHussan (16106027) | 3rd Semester 2017-2018 | 3rd Semester 2018-2019 | NIL` | NIL |
| 5. | P. Sakthivel (15106077) | 5th Semester 2017-2018 | 5th Semester 2018-2019 | MA16404 - Numerical Methods (Sem V) | EE15402 Transmission and Distribution (Sem V) |
| | | | | E16402 - Electrical Power Generation (Sem V) | EE15403 Control systems (Sem V) |
| | | | | | EE15408 Control Systems Laboratory (Sem V) |
| **B.E. Mechanical Engineering** | | | | | |
| 6. | S. Mohanakrishna (16107101) | 3rd Semester 2017-2018 | 3rd Semester 2018-2019 | NIL | NIL |
| 7. | S. Pradheephkumar (16107123) | 3rd Semester 2017-2018 | 3rd Semester 2018-2019 | NIL | NIL |
| 8. | K. Premkumar (15107137) | 5th Semester 2017-2018 | 5th Semester 2018-2019 | NIL | NIL |
| 9. | R. Barathkumar (15107030) | 5th Semester 2017-2018 | 5th Semester 2018-2019 | NIL | NIL |
| 10. | K. Goudham (15107052) | 5th Semester 2017-2018 | 5th Semester 2018-2019 | NIL | NIL |
| 11. | R. Rahul (15107145) | 5th Semester 2017-2018 | 5th Semester 2018-2019 | NIL | NIL |
| 12. | M. Ranjithkumar (15107154) | 5th Semester 2017-2018 | 5th Semester 2018-2019 | NIL | NIL |
| **B.E. Mechatronics Engineering                Nil** | | | | | |
| **B. Tech.  Chemical Engineering                Nil** | | | | | |
| **B. Tech. Information Technology** | | | | | |
| 13. | M. Shanmika (16202701) | 3rd Semester 2017 - 2018 | 3rd Semester 2018 - 2019 | CS16102 Computer Programming Laboratory (Sem III) | CH16301 Environmental Science and Engineering (Sem II) |

| | | | | CS16203 Data structures and Algorithms (SEM III) | |
| | | | | CS16204 Data structures and Algorithms Laboratory (SEM III) | |
| | | | | CH16201 Engineering Chemistry-II(Sem IV) | |
| | | • | | EN16202 English Communication Skills Laboratory (Sem IV) | |

**M.B.A. (Master of Business Administration)**

| 14. | E. Satheesh (16501045) | 3rd Semester 2017 - 2018 | 3rd Semester 2018 - 2019 | Nil | Nil |
|---|---|---|---|---|---|

## Minutes of the 8th Standing Committee Meeting

1. Dote Chennai:  MEMO NO 40500 / ECA1 / 2018 , DATED :14FEB 2019
2. Anna University:  Letter No.EVEN/UG-RA/SA2-2/2018-2019

| S.No. | Name of the Student & Register No. | Semester /Year of Break of Study | Semester /Year of Readmission sought | Addition/ Exemption of Courses |
|---|---|---|---|---|
| **B.E. Aeronautical Engineering** | | | | |
| 1 | G.DeliBabu (15101008) | 4th Semester 2017 - 2018 | 4th Semester 2018 - 2019 | NIL |
| 2 | S.DinoBrito (16101008) | 4th Semester 2017 - 2018 | 4th Semester 2018 - 2019 | NIL |
| **B.E. Agriculture Engineering** | | | | |
| 3 | V.Hariharan (17102034) | 2nd Semester 2017 - 2018 | 2nd Semester 2018 - 2019 | NIL |
| **B.E. Civil Engineering** | | | | |
| 4 | S.Jagadeeshwaran (15103036) | 6th Semester 2017 - 2018 | 6th Semester 2018 - 2019 | **Addition of Courses** 1. CE16501 – Design of Reinforced Concrete Elements – Semester VI 2. CE16403 – Construction Techniques, Equipment and Practices- Semester VI 3. CE16506 – Highway Engineering Laboratory- Semester VI 4. CE16404 – Concrete Technology – Semester VII **Exemption of Courses** 1. CE15504 – Waste Water Engineering- Semester V 2. CE15506- Environmental Engineering Laboratory- Semester V |
| 5 | V.K. Santhosh (15103090) | 6th Semester 2017 - 2018 | 6th Semester 2018 – 2019 | |
| 6. | R.Srinath (15103105) | 6th Semester 2017 - 2018 | 6th Semester 2018 - 2019 | |
| **B.E. Electronics and Communication Engineering** | | | | |
| 7. | M. Naveen (17105066) | 2nd Semester 2017 - 2018 | 2nd Semester 2018 - 2019 | NIL |

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| | | | | |
|---|---|---|---|---|
| **B.E. Electrical and Electronics Engineering** | | | | |
| 8. | P.Thugil (15106019) | 4th Semester 2017 - 2018 | 4th Semester 2018 - 2019 | **NIL** |
| 9. | P. Mani (15106043) | 6th Semester 2017 - 2018 | 6th Semester 2018 - 2019 | **Addition of Course**<br>1. EE16504 Digital Signal Processing- Semester VII |
| **B.E. Mechanical Engineering** | | | | |
| 10. | G.Manikandan (16107091) | 4th Semester 2017 - 2018 | 4th Semester 2018 - 2019 | **NIL** |
| 11. | T.Murugan • (16107106) | 4th Semester 2017 - 2018 | 4th Semester 2018 - 2019 | **NIL** |
| 12. | N.Siddarth (16107156) | 4th Semester 2017 - 2018 | 4th Semester 2018 - 2019 | **NIL** |
| 13. | P.Vijay (15107218) | 6th Semester 2017 - 2018 | 6th Semester 2018 - 2019 | **NIL** |
| 14. | M.Vimal (15107221) | 6th Semester 2017 - 2018 | 6th Semester 2018 - 2019 | |
| 15 | A.Srinivasan (622114114157) | 6th Semester 2016 - 2017 | 6th Semester 2018 - 2019 | **Addition of Courses**<br>1. ME16504 - Hydraulic and Pneumatic Systems - Semester VI<br>2. ME16151 - Unconventional Machining Process - Semester VII<br>3. EN16401 - Business English course Laboratory - Semester VII<br>4. EN16202 - English Communication Skills Laboratory - Semester VII<br>5. EN16501 - Career Development Laboratory - Semester VIII<br>**Exemption of Course**<br>1. BA16751 - Professional Ethics in Engineering - Semester VIII |
| **B.Tech. Chemical Engineering** | | | | |
| 16 | R. Kamalesh (17201030) | 2nd Semester 2017-2018 | 2nd Semester 2018-2019 | **NIL** |

Students who got readmission form Regulations 2015 to Regulations 2016 have to satisfy a minimum of 180 credits. If they fail to satisfy the minimum credits, it can be compensated by enabling the said candidates to earn the balanced credits.

**The Academic Council approved the same.**

**BOARD OF STUDIES SUGGESTIONS**

❖ All the Boards of Studies suggestions and recommendations were presented and the same were approved. The BoS suggestions are listed in **Annexure-I**.

**The Academic Council resolved to approve the same**

## Amendments in UG and PG Regulations 2016

❖ The amendments in the Regulations 2016 of the Undergraduate and Postgraduate Programmes were presented for approval. **(Refer Annexure – II).**
**The Academic Council approved the same.**

e) **Review of Results**

❖ The results of the End Semester Examinations of April / May 2018 and Nov / Dec. 2018 autonomous scheme were presented for approval.
**The Academic Council approved the same.**

f) **Approval of Faculty Recruitment**

❖ The details of the faculty members recruited to the departments for the forth-coming academic year were presented for approval.
**The Academic Council approved the same.**

g) The details of Industry institute MoUs, Activities of Entrepreneurship cell and placement details were presented before the members.
**The Academic Council approved the same.**
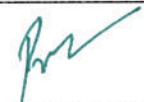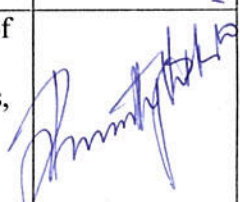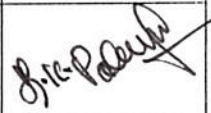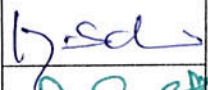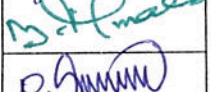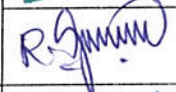
All the points in the Item 2 were proposed by Dr. A.Suphalakshmi, HoD/CSE and seconded by Dr.R.Arangasamy, HoD/ECE.

## ITEM 03: SUGGESTIONS BY THEACADEMIC COUNCIL MEMBERS
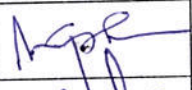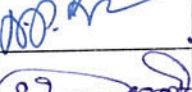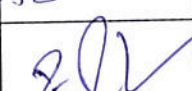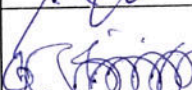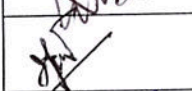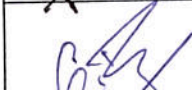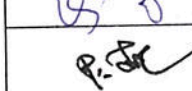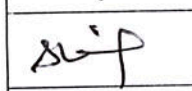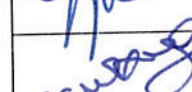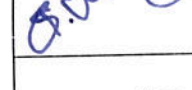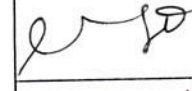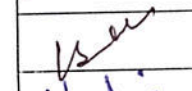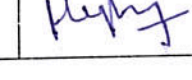
- Permanent affiliation may be applied for the eligible departments.
- The Credit point range should be between 160 and 165 for UG programme for the Academic Regulations 2019.
- Formal Certificate and diploma courses can be introduced with the approval of Anna University.
- GATE coaching classes can be conducted.
- Distinguished Alumni details can be included in the presentation.
- The assessment pattern for the one credit courses can be included in the curriculum.

## ITEM 04: VOTE OF THANKS

Dr.A.Suphalakshmi, Head of the Department, Computer Science and Engineering thanked all the members of the Academic council for their valuable suggestions and constructive contribution.

6

PRINCIPAL
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL Post, NAMAKKAL

| S. No. | Name | Designation | Position in the Committee | College/ University/ Industry | Signature |
|--------|------|-------------|---------------------------|-------------------------------|-----------|
| 1. | Dr. M. PREMKUMAR | Principal | Chairman | Paavai Engineering College | |
| 2. | Dr. R. SARAVANAN | Professor | University Nominee | Department of Mechanical Engineering, CEG Campus, Anna University, Chennai. | |
| 3. | Dr. S. THANIGAIARASU | Professor | University Nominee | Department of Aerospace Engineering, MIT Campus, Anna University, Chennai | |
| 4. | Dr. T. SHRIMATHY VENKATALAKSHMI | Professor | University Nominee | Department of English, CEG Campus, Anna University, Chennai | |
| 5. | Dr. N. ALAGAMURTHI | Professor | Academic Expert | Department of Mechanical Engineering Pondicherry Engineering College | |
| 6. | Mr. R. SUNDARAM | Managing Director | Expert appointed by the Academic Council | Aerospace Engineering Ltd, Salem | |
| 7. | Dr. R. LATHA | Assistant Civil Surgeon | | Govt. Primary Health Centre Puthan chanthai | |
| 8. | Mr. I.K. PALANIVEL | Chief Accountant | | Chief Accountant | |
| 9. | Dr. K.K. RAMASAMY | Director Administration | MEMBER | Paavai Engineering College | |
| 10. | Dr. K. SELVI | Dean Academics | | | |
| 11. | Dr. B. MURALIBABU | Controller of Examinations | | | |
| 12. | Dr. R. ARANGASAMY | Professor & HoD/ECE | | | |
| 13. | Dr. G. BALAJI | Professor & HoD/EEE | MEMBER | Paavai Engineering | |

| | | | | | |
|---|---|---|---|---|---|
| 14. | Dr. A.SUPHALAKSHMI | Professor & HoD/CSE | | | |
| 15. | Prof. B.VENKATESAN | Professor & HoD/IT | | | |
| 16. | Prof. A.P.SIVA SUBRAMANIAM | Professor & HoD/MECH | | | |
| 17. | Prof. J. UMANAMBI | Professor & HoD/CIVIL | | | |
| 18. | Dr. D.R.P.RAJARATHNAM | Professor & HoD/MCT | | | ABSENT |
| 19. | Prof. D.RAJKUMAR | Professor & HoD/AERO | | | |
| 20. | Dr. G. SRINIVASAN | Professor & HoD/ Chemical | | | |
| 21. | Prof. K.VISHNUBHARATH | Asst.Professor & HoD/Agri. | | | |
| 22. | Prof. M. MOHAN | Professor & Hod/S&H | | | |
| 23. | Dr. G. RAJA | Professor & HoD/ Chemistry | | | |
| 24. | Dr. P. JAYAKUMAR | Professor & HoD/Maths | MEMBER | Paavai Engineering | |
| 25. | Dr. S. VADIVEL | Professor & HoD/Physics | | | |
| 26. | Dr. R.SHANTHI | Professor & HoD/English | | | |
| 27. | Dr. P. MUTHUSAMY | Professor & HoD/MCA | | | |
| 28. | Dr. R.N. PADMA | Professor & HoD/MBA | | | |
| 29. | Dr. S. KUMARGANESH | Professor & HoD/Bio Medical | | | |
| 30. | Dr. S. VIJAYAKUMAR | Professor & HoD/Medical Electronics | | | |
| 31. | Prof. D. SREENIVASAN | Professor & HoD/Food Technology | | | |
| 32. | Dr. K. MUTHAMIZHI | Professor & HoD/Pharmaceutic al Technology | | | |
| 33. | Dr. V. SUBBURAM | Professor &Mech | | | |
| 34. | Dr. N. MAGENDIRAN | Professor & CSE | | | |

# PAAVAI ENGINEERING COLLEGE
**(Autonomous Institution)**
(Approved by AICTE and Affiliated to Anna University)
(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu
04286-243038, 58,88 & 98  Fax: 04286-243068  Email: pecprincipal@paavai.edu.in  website: http://pec.paavai.edu.in

## Minutes of Fourth Academic Council Meeting

### Venue: Smart Hall

### Date and Time: 06.06.2018, 10.30 AM

### Members Present

| S.No | Name | Designation | Position in the Committee | College / University / Industry | Signature |
|---|---|---|---|---|---|
| 1. | Dr.M.PREMKUMAR | Principal | Chairman | Paavai Engineering College | |
| 2. | Dr.R.VELRAJ | Professor | University Nominee | Department of Mechanical Engineering, CEG Campus, Anna University, Chennai | |
| 3. | Dr.S.T.THAMARAI SELVI | Professor | University Nominee | Department of Computer Technology, MIT Camus Anna University, Chennai | |
| 4. | Dr.M.ISAAC SOLOMON JEBAMANI | Principal | University Nominee | GCE, Tirunelveli | |
| 5. | Dr..N.ALAGUMURTHI | Professor | Academic Expert | Department of Mechanical Engineering, Pondicherry Engineering College | |

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04286-243038, 58,88 & 98  Fax: 04286-243068  Email: pecprincipal@paavai.edu.in  website: http://pec.paavai.edu.in

| | | | | | |
|---|---|---|---|---|---|
| 6. | Mr.R. SUNDARAM | Managing Director | Expert appointed by the Academic Council | Aerospace Engineering Ltd.,Salem | |
| 7. | Dr.R. LATHA | Assistant Civil Surgeon | | Govt. Primary Health Centre, Puthan-chanthai | |
| 8. | Mr.I.K. PALANIVEL | Chief Accountant | | Chief Accountant | |
| 9. | Dr.K.K.RAMASAMY | Director Administration | Member | Paavai Engineering College | |
| 10. | Dr.K.SELVI | Dean – Academics | | | |
| 11. | Dr.S.SUKUMAR | Dean -Civil | | | |
| 12. | Dr.B.MURALIBABU | Controller of Examinations | | | |
| 13. | Dr.R.ARANGASAMY | Professor & HOD /ECE | | | |
| 14. | Dr.G.BALAJI | Professor & HOD /EEE | | | |
| 15. | Dr.A.SUPHALAKSHMI | Professor & HOD /CSE | | | |
| 16. | Prof.B.PRABHU SHANKAR | Associate Professor/IT | | | |
| 17. | Prof.A.P.SIVASUBRA MANIAM | Professor & HOD /Mech | | | |
| 18. | Prof.J.UMA NAMBI | Associate Professor & HOD / Civil | | | |
| 19. | Prof.D.R.P.RAJARATH NAM | Associate Professor & HOD / MCT | | | |

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04286-243038, 58,88 & 98  Fax: 04286-243068  Email: pecprincipal@paavai.edu.in  website: http://pec.paavai.edu.in

| 20. | Prof.D.RAJKUMAR | Associate Professor & HOD / Aero | Member | Paavai Engineering College | |
|---|---|---|---|---|---|
| 21. | Prof.G. SRINIVASAN | Professor & HOD /Chem. | | | |
| 22. | Dr.R. JAGANATHAN | Dean - Agri | | | |
| 23. | Dr.G.RAJA | Professor & HOD / Chemistry | | | |
| 24. | Dr.B.KISHOK KUMAR | Professor & HOD/ Maths | | | |
| 25. | Dr.S.VADIVEL | Professor. & HOD/ Physics | | | |
| 26. | Dr.R.SHANTHI | Professor & HOD/ English | | | |
| 27. | Prof.P.MUTHUSAMY | Professor & HOD / MCA | | | |
| 28. | Prof.S.SUSENDIRAN, | Assistant Professor & HOD / MBA | | | |
| 29. | Dr.K.SUNDRAMOORTHY | PROFESSOR / MECH | | | |

The Fourth Academic Council Meeting of Paavai Engineering College was held on 06.06.2018 at 11:00 a.m. in the Smart Hall to discuss the following agenda.

| ITEM | CONTENT |
|------|---------|
| 1. | Welcome address |
| 2. | Dean Academics Presentation on the academic matters <br> a) Achievements <br> b) Confirmation of Third Academic Council Meeting <br> c) New Programmes and Reduction in intake/Closure of Programmes <br> d) Approval of Faculty Recruitment <br> e) Review of Autonomous Status <br> f) Review of Results <br> g) Amendments in UG and PG Regulations 2016 |
| 3. | Chairman of Board of Studies presentation on the respective BOS meetings. |
| 4. | Suggestions by Academic Council Members |
| 5. | Vote of Thanks |

## ITEM 01: WELCOME ADDRESS

Dr.M.Premkumar, Principal, welcomed all the members for the fourth Academic Council meeting. The Chairman of the Academic Council introduced the members.

## ITEM 02: DEAN ACADEMICS PRESENTATION

Dr.K.Selvi, Dean Academics presented the details of the academic matters that happened during the academic year 2017-2018 and also the amendments in UG and PG Regulations 2016.

1

a) **Achievements**

- ❖ The achievements of the college for the academic year 2017-2018 such as NBA accreditation, awards and certifications received by the faculty members, students and Champion of Champions Trophy in Anna university sports and games
- ❖ The various funds received by the departments from PMKVY, AICTE, CSIR, ICMR, TNSCT and Institution of Engineers.
- ❖ The placement details such as the number of students placed in the various companies during the academic year.

b) **Confirmation of the minutes of Third Academic Council meeting**

- ❖ One credit courses shall be introduced pertaining to the programme to enhance the employability skills of the students.

  **Action Taken:** One credit courses introduced.

- ❖ A common curriculum structure shall be maintained by the institution along with the distribution of courses.

  **Action Taken:** Common Curriculum structure is implemented

- ❖ The projects shall be categorized as Mini Project / Design and Development project according to the programme of study, Phase I and Phase II project work shall be kept uniform across the departments.

  **Action Taken:** Project Categorization is implemented

- ❖ The feedback about the courses and its contents shall be obtained from the students Mduring the class committee meeting.

  **Action Taken:** Feedback was recorded

- ❖ The results of the End Semester Examinations were reviewed, discussed and suggested the ways and methods of improvement.

  **Action Taken:**   Cycle tests are conducted

  Mentor System is introduced

  Faculty Development Department trains the Faculty in terms of Knowledge upliftment and Pedagogy which in turn students get benefited

**The Academic Council approved the same.**

**c)** **New Programmes and Reduction in intake/Closure of Programmes**

❖ The details of newly introduced B.E. / B.Tech. Programmes, reduction in the sanctioned intake of the existing B.E. / B.Tech. Programmes and closure of M.E. Programmes were presented for approval.

| S. No. | Name of the Programme | Sanctioned Intake |
|--------|-----------------------|-------------------|
| **New Course** | | |
| 1 | B.E. - Biomedical Engineering | 60 |
| 2 | B.E. - Medical Electronics | 60 |
| 3 | B.E.- Pharmaceutical Engineering | 60 |
| 4 | B.Tech. - Food Technology | 60 |
| **Reduction in Sanctioned Intake** | | |
| 1 | B.E.- Electronics and Communication Engineering | 240 – 120 |
| 2 | B.E. - Mechanical Engineering | 240 – 120 |
| 3 | B.E. - Civil Engineering | 120 – 60 |
| **Closure** | | |
| 1 | M.E. - Applied Electronics | 18 |
| 2 | M.E. - Power Electronics and Drives | 18 |
| 3 | M.E. - VLSI Design | 24 |

**The Academic Council approved the same.**

**d)** **Approval of Faculty Recruitment**

❖ The details of the faculty members recruited to the departments for the forth-coming academic year was presented for approval.

**The Academic Council approved the same.**

3

e) **Review of Autonomous Status**

<u>**READMISSION**</u>

**Minutes of 4<sup>th</sup> Standing Committee Meeting**

DOTE: MEMO NO 11234 / ECA1 / 2017, DATED: 19-7-17
Anna University: Letter No.ODD/RA/SA2-2/2017-2018 DATED: 28-12-2017

| S. No. | Name of the Student & Register No. | Semester /Year of Break of Study | Semester /Year of Readmission sought | Addition/ Exemption of Subjects |
|---|---|---|---|---|
| **B.E. Aeronautical Engineering** | | | | |
| 1 | D. Dinesh (15101009) | 3<sup>rd</sup> Semester 2016 - 2017 | 3<sup>rd</sup> Semester 2017 - 2018 | NIL |
| **B.E. Mechatronics Engineering** | | | | |
| 2 | M. Antony Larence (15108001) | 3<sup>rd</sup> Semester 2016 - 2017 | 3<sup>rd</sup> Semester 2017 - 2018 | NIL |
| 3 | M. Nitheesh (15108027) | 3<sup>rd</sup> Semester 2016 - 2017 | 3<sup>rd</sup> Semester 2017 - 2018 | NIL |
| 4 | V. Vijay (15108040) | 3<sup>rd</sup> Semester 2016 - 2017 | 3<sup>rd</sup> Semester 2017 - 2018 | NIL |
| 5 | K. Vishnu (15108043) | 3<sup>rd</sup> Semester 2016 - 2017 | 3<sup>rd</sup> Semester 2017 - 2018 | NIL |
| **B.Tech. Chemical Engineering** | | | | |
| 6 | Godson Pathrose (15201019) | 3<sup>rd</sup> Semester 2016 - 2017 | 3<sup>rd</sup> Semester 2017 - 2018 | NIL |

# Minutes of 5<sup>th</sup> Standing Committee Meeting

Dote Chennai:  MEMO NO 40100 / ECA1 / 2018, DATED: 5 FEB 2018

Anna University:  Letter No.EVEN/UG-RA/SA2-2/2017-2018 DATED: 2-3-18

| S. No. | Name of the Student & Register No. | Semester/ Year of break of Study | Semester / Year of Readmission sought | Addition/ Exemption of Subjects |
|---|---|---|---|---|
| B.E. Aeronautical Engineering | | | | |
| 1 | G .Deli Babu (15101008) | 4th Semester 2016 - 2017 | 4th Semester 2017 – 2018 | NIL |
| B.E. Electrical and Electronics Engineering | | | | |
| 2 | R. Gokul Raj (15106019) | 4th Semester 2016 - 2017 | 4th Semester 2017 – 2018 | NIL |
| B.E. Electronics and Communication Engineering | | | | |
| 3 | S. Arunachalam (16105015) | 2nd Semester 2016-2017 | 2nd Semester 2017-2018 | NIL |
| B.Tech. Information Technology | | | | |
| 4 | J. Edinbiro (16202011) | 2nd Semester 2016-2017 | 2nd Semester 2017-2018 | NIL |

f)    **Review of Results**

❖ The results of the End Semester Examinations of April / May 2017 and Nov. Dec. 2017 and the graduation details that happened during April / May 2017 under autonomous scheme were presented for approval.

**The Academic Council approved the same.**

❖ The amendments in the Regulations 2016 of the Undergraduate and Post Graduate Programmes were presented for approval. **(Refer Annexure – I).**
**The Academic Council approved the same.**

## ITEM 03: BOARD OF STUDIES CHAIRMAN's PRESENTATION

Chairman of various Board of Studies presented their curriculum and syllabi of their respective departments for the council approval

❖ The curriculum and syllabi of the 7$^{th}$ and 8$^{th}$ semester B.E. / B.Tech. Programmes under Regulations 2015.

❖ The curriculum and syllabi of the 5$^{th}$ and 6$^{th}$ semester B.E. / B.Tech. Programmes under Regulations 2016.

❖ Curriculum and Syllabus for the new courses of 1$^{st}$ and 2$^{nd}$ semesters under Regulations 2016(CBCS) for the students to be admitted during the academic year 2018- 2019

❖ List of one credit courses offered by the respective departments.
**(Refer Annexure – II)**

**The Academic Council resolved to approve the same**

## ITEM 04: SUGGESTIONS BY ACADEMIC COUNCIL MEMBERS

Funding details for 3 consecutive years may be mentioned.

Post Graduate programmes shall be sustained

## ITEM 05: VOTE OF THANKS

Dr.A.Suphalakshmi, Head of the Department, Computer Science and Engineering thanked all the members of the Academic council for their valuable suggestions and constructive contribution.

/PRINCIPAL
 AVAI ENGINEERING COLLEGE.
NH-7, PACHAL Post. Namakkal Dt.

| EXISTING | REVISED |
|---|---|
| **3.0** A candidate may be offered one of the programme(s) in any one of the branches of study in the college approved by AICTE and affiliated to Anna University, Chennai. A student of a programme should earn the total minimum credits specified to enable him to be eligible to be awarded the degree. Normally it is recommended that the total minimum credits for the B.E./B.Tech. Programmes shall be fixed between 180-185 credits for regular students and between 130-140 credits for the lateral entry students. | **3.0** A candidate may be offered one of the programme(s) in any of the branches of study in the college approved by AICTE affiliated to Anna University, Chennai. A student of programme should earn the total minimum credits specified enable him to be eligible to be awarded the degree. Normally is recommended that the total minimum credits for B.E./B.Tech. Programmes shall be fixed between 180-1 credits for regular students and between 130 -140 credits for lateral entry students |

| S.No. | Degree | Branch of Study |
|---|---|---|
| 1 | B.E. | Aeronautical Engineering |
| 2 | B.E. | Agriculture Engineering |
| 3 | B.E. | Civil Engineering |
| 4 | B.E. | Computer Science and Engineering |
| 5 | B.E. | Electronics and Communication Engineering |
| 6 | B.E. | Electrical and Electronics Engineering |

| S.No. | Degree | Branch of Study |
|---|---|---|
| 1 | B.E. | Aeronautical Engineering |
| 2 | B.E. | Agriculture Engineering |
| 3 | B.E. | Civil Engineering |
| 4 | B.E. | Computer Science and Engineering |
| 5 | B.E. | Electronics and Communication Engineering |
| 6 | B.E. | Electrical and Electronics Engineering |

| | | |
|---|---|---|
| 7 | B.E. | Mechanical Engineering |
| 8 | B.E. | Mechatronics |
| 9 | B.Tech. | Chemical Engineering |
| 10 | B.Tech. | Information Technology |

| | |
|---|---|
| 4.1 | A student is expected to complete the B.E. / B.Tech. Programme in 8 semesters (four academic years). However the student has to complete the programme within 14 Semesters for HSC (or equivalent) candidates and within 12 semesters for Lateral Entry Candidates as per the university guidelines. |
| - | - |

| | | |
|---|---|---|
| 7 | B.E. | Mechanical Engineering |
| 8 | B.E. | Mechatronics |
| 9 | B.Tech. | Chemical Engineering |
| 10 | B.Tech. | Information Technology |
| 11 | B.E. | Bio Medical Engineering |
| 12 | B.E. | Medical Electronics |
| 13 | B.E. | Pharmaceutical Engineering |
| 14 | B.Tech | Food Technology |

| | |
|---|---|
| 4.1 | A student is expected to complete the B.E. / B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 Semesters (seven academic years) for HSC (or equivalent) candidates and not more than 12 semesters (six academic years) for Lateral Entry Candidates as per the university guidelines. |
| 5.1.8 | One credit courses are optional. The courses may be handled either by industry/other academic institute/parent institute. Students can opt maximum of six one credit courses during his/her period of study, in which, he/she can be exempted from one open elective course or programme elective course for three one credit courses related to the respective discipline/ specialization. The additional one credit courses opted by the |

| | | | |
|---|---|---|---|
| - | | | students will be mentioned as additional credits earned in grade sheet and will not be computed for CGPA. |
| - | | 5.1.9 | Syllabus equivalence between three one credit courses and op... elective for the exemption of open elective, is not needed |
| - | | 5.1.10 | Student's strength for one credit course should be minimun 10 students. |
| - | | 5.1.11 | The evaluation process for theory based one credit cou... should be of 40 % internal assessment and 60 % exter... assessment and for practical oriented one credit courses, it sh... be of 50 % internal assessment and 50 % external assessm... The question papers for the one credit courses have to... provided by the expert concerned who handled the practi... theory course to the COE office. The duration of examinat... for one credit courses may be of 1 ½ hours. |
| - | | 5.1.12 | Core courses cannot be replaced/ exempted by any On-l... courses like NPTEL etc. |
| 5.2 | **Non Credit Courses** | 5.2 | **Non Credit Courses** |
| 5.2.1 | Every student shall be made to involve in any of the three non credit courses available and provided to the students such as co-curricular, extra-curricular and club activities(as per the Table 1). The participation and involvement (provided with certificate) in the listed non-credit courses from approved institutions/organizations/industries shall be considered in the progress norms and will not be indicated by grades and will | 5.2.1 | Every student shall be made to involve in any of the three n... credit courses available and provided to the students such as... curricular, extra-curricular and club activities (as per the Ta... 1).The participation and involvement (provided with certifica... in the listed non-credit courses from appro... institutions/organizations/industries shall be considered in the progress norms and will not be indicated by grades and will |

not be counted for the computation of SGPA/ CGPA.

## Table 1

| Code | Details of Courses |
|---|---|
| NC101 | Technical Symposium |
| NC102 | National / International Conference |
| NC103 | Technical Workshop/ Seminar |
| NC104 | Skill Development Courses |
| NC105 | Industry Inplant Training / Internship (*minimum 4 weeks during the entire duration of the course*) |
| NC106 | Other Indian Languages |
| NC107 | Research Publications |
| NC108 | Business English Certification |
| NC109 | Foreign Languages |
| NC110 | Soft Skills Certification |
| NC111 | Aptitude Proficiency Certification |
| NC112 | Globally accepted online Certification Courses |
| NC113 | Valid score in GATE/CAT/TOEFL/IELTS/GRE |
| NC201 | NSS / YRC / Socially Responsible Activities |
| NC202 | Cultural Activities |
| NC203 | Yoga |
| NC204 | Sports & Games |
| NC205 | Human Rights and Human Values |

5.4    Each semester curriculum shall normally have a blend of

---

be counted for the computation of SGPA/ CGPA.

## Table 1

| Code | Details of Courses |
|---|---|
| NC101 | Technical Symposium |
| NC102 | National / International Conference |
| NC103 | Technical Workshop/ Seminar |
| NC104 | Skill Development Courses |
| NC105 | Industry Inplant Training / Internship (*minimum 4 weeks during the entire duration of the course*) |
| NC106 | Other Indian Languages |
| NC107 | Research Publications |
| NC108 | Business English Certification |
| NC109 | Foreign Languages |
| NC110 | Soft Skills Certification |
| NC111 | Aptitude Proficiency Certification |
| NC112 | Globally accepted online Certification Courses |
| NC113 | Valid score in GATE/CAT/TOEFL/IELTS/GRE |
| NC201 | NSS / YRC / Socially Responsible Activities |
| NC202 | Cultural Activities |
| NC203 | Yoga |
| NC204 | Sports & Games |
| NC205 | Human Rights and Human Values |

5.4    Each semester curriculum shall normally have a blend of **theory**

| | | | |
|---|---|---|---|
| | lecture courses not exceeding **5 or 6** and practical courses not exceeding **2 or 3**. However, the total number of courses per semester shall not exceed **8 or 9** | | Courses not exceeding **5 to 7** and practical courses exceeding **2 to 4**. However, the total number of courses semester shall not exceed **8 to 11** |
| 12.5.5 | **MALPRACTICE**<br><br>If a student indulges in malpractice in any of the End Semester/Internal Examinations, he / she shall be liable for punitive action as prescribed by **the college/university** from time to time. | 12.5.5 | **MALPRACTICE**<br><br>If a student indulges in malpractice in any of the End Semester Internal Examinations, he / she shall be liable for punitive action as prescribed by **the university** from time to time. |
| 23.0 | **AUDITS ON THE EXAMINTION SYSTEM**<br><br>An audit on the examination system such as verification of the standard of question papers prepared by the examiners, valuation of answer scripts and methods adopted in awarding marks will be conducted by the team of expert members, appointed by the Head of the Institution, after the completion of all the End Semester Examinations. | 23.0 | **AUDITS ON THE EXAMINTION SYSTEM**<br><br>An audit on the examination system such as verification of standard of question papers prepared by the examiners, valuation of answer scripts and methods adopted in awarding marks will be conducted by the team of expert members from IIT/NIT/Government Engineering Colleges and reputed autonomous engineering colleges, appointed by the Head of Institution, after the completion of all the End Semester Examinations. |

# REGULATIONS 2016

## POST GRADUATE PROGRAMMES

**Amendments approved in the 4th Academic Council Meeting held on 06.06.2018**

| EXISTING | REVISED |
|---|---|
| **3.0 PROGRAMMES OFFERED** <br> A candidate may be offered one of the programme(s) in any one of the branches of study in the college, approved by AICTE and affiliated to Anna University, Chennai. A student of a programme should earn the total minimum credits specified to enable him to be eligible to be awarded the degree. Normally it is recommended that the total minimum credits shall be 75 credits for the M.E./M.Tech. Programmes, 91 credits for M.B.A. Programme and 122 credits for M.C.A Programme for regular students and 79 credits for the lateral entry students. | **3.0 PROGRAMMES OFFERED** <br> A candidate may be offered one of the programme(s) in any one of the branches of study in the college, approved by AICTE and affiliated to Anna University, Chennai. A student of a programme should earn the total minimum credits specified to enable him to be eligible to be awarded the degree. Normally it is recommended that the total minimum credits shall be credits for the M.E./M.Tech. Programmes, 91 credits for M.C.A Programme, M.B.A. Programme and 122 credits for M.C.A Programme regular students and 79 credits for the lateral entry students. |

**EXISTING**

| S.No. | Degree | Branch of Study |
|---|---|---|
| 1 | M.E. | Applied Electronics |
| 2 | M.E. | Computer Science and Engineering |
| 3 | M.E. | Communication Systems |
| 4 | M.E. | Engineering Design |
| 5 | M.E. | Power Electronics and Drives |
| 6 | M.E. | Power Systems Engineering |

**REVISED**

| S.No. | Degree | Branch of Study |
|---|---|---|
| 1 | M.E. | Computer Science and Engineering |
| 2 | M.E. | Communication Systems |
| 3 | M.E. | Engineering Design |
| 4 | M.E. | Power Systems Engineering |
| 5 | M.E. | Structural Engineering |
| 6 | M.B.A | Master of Business Administration |
| 7 | M.C.A. | Master of Computer Applications |

| 7 | M.E. | Structural Engineering |
| 8 | M.E. | VLSI Design |
| 9 | M.B.A | Master of Business Administration |
| 10 | M.C.A. | Master of Computer Applications |

| | |
|---|---|
| 12.9 | **MALPRACTICE** <br><br> If a student indulges in malpractice in any of the End Semester/Internal Examinations, he / she shall be liable for punitive action as prescribed by **the college/university** from time to time. | **MALPRACTICE** <br><br> If a student indulges in malpractice in any of the End Semester / Internal Examinations, he / she shall be liable for punitive action as prescribed by **the university** from time to time. |
| 23.0 | **AUDITS ON THE EXAMINTION SYSTEM** <br><br> An audit on the examination system such as verification of the standard of question papers prepared by the examiners, valuation of answer scripts and methods adopted in awarding marks will be conducted by the team of expert members, appointed by the Head of the Institution, after the completion of all the End Semester Examinations. | **AUDITS ON THE EXAMINTION SYSTEM** <br><br> An audit on the examination system such as verification of the standard of question papers prepared by the examiners, valuation of answer scripts and methods adopted in awarding marks will be conducted by the team of expert members from IIT/NIT/Government Engineering Colleges and reputed autonomous engineering colleges, appointed by the Head of the Institution, after the completion of all the End Semester Examinations. |

PRINCIPAL,
PAAVAI ENGINEERING COLLEGE,
NH-7, PACHAL Post, Namakkal Dt.

# ANNEXURE --II

## ONE CREDIT COURSES

### DEPARTMENT OF AERONAUTICAL ENGINEERING

| S. No. | Course Title | L | T | P | C |
|--------|--------------|---|---|---|---|
| 1. | Computer Aided Design using CATIA | 0 | 0 | 2 | 1 |
| 2. | Computer Aided Design using CREO | 0 | 0 | 2 | 1 |
| 3. | Computer Aided Design using Unigraphics | 0 | 0 | 2 | 1 |
| 4. | Computer Aided Design using AUTOCAD | 0 | 0 | 2 | 1 |
| 5. | Computer Aided Design using Solidworks | 0 | 0 | 2 | 1 |
| 6. | Computer Aided Analysis using Ansys | 0 | 0 | 2 | 1 |
| 7. | Computer Aided Analysis using Hypermesh | 0 | 0 | 2 | 1 |
| 8. | Computer Aided Analysis using Nastran-Patran | 0 | 0 | 2 | 1 |
| 9. | Computer Aided Analysis using MATLAB | 0 | 0 | 2 | 1 |
| 10. | Computer Aided Analysis using Fluent | 0 | 0 | 2 | 1 |
| 11. | Non Destructive Testing | 0 | 0 | 2 | 1 |
| 12. | NPTEL Certification | 0 | 0 | 2 | 1 |
| 13. | UAV and MAV Certification | 0 | 0 | 2 | 1 |

### DEPARTMENT OF CIVIL ENGINEERING

| S. No | Course Title | L | T | P | C |
|-------|--------------|---|---|---|---|
| 1 | Building Planning and Vaasthu | 0 | 0 | 2 | 1 |
| 2 | Advanced Surveying using Total Station | 0 | 0 | 2 | 1 |
| 3 | Building Valuation | 0 | 0 | 2 | 1 |
| 4 | Structural Analysis and Design using Staad Pro | 0 | 0 | 2 | 1 |
| 5 | Building Analysis and Design using E-Tabs | 0 | 0 | 2 | 1 |

| | | L | T | P | C |
|---|---|---|---|---|---|
| 6 | Building Information Modelling using Revit Architecture | 0 | 0 | 2 | 1 |
| 7 | Project Management using Primavera | 0 | 0 | 2 | 1 |
| 8 | Tekla Structures | 0 | 0 | 2 | 1 |
| 9 | Finite element and structural analysis using NISA | 0 | 0 | 2 | 1 |

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

| S.No. | Course Title | L | T | P | C |
|---|---|---|---|---|---|
| 1. | Amcat (Online Placement Aptitude Certification) | 0 | 0 | 2 | 1 |
| 2. | e-litmus(Online Placement Aptitude Certification) | 0 | 0 | 2 | 1 |
| 3. | Nasscom nac-tech(Online Placement Aptitude Certification) | 0 | 0 | 2 | 1 |
| 4. | I-pat (Online Placement Aptitude Certification) | 0 | 0 | 2 | 1 |
| 5. | NPTEL / Swayam (Online courses) | 0 | 0 | 2 | 1 |
| 6. | Spoken Tutorial -Advanced C++ | 0 | 0 | 2 | 1 |
| 7. | Spoken Tutorial- Java Business Application | 0 | 0 | 2 | 1 |
| 8. | Spoken Tutorial -Linux&Ubuntu | 0 | 0 | 2 | 1 |
| 9. | Spoken Tutorial -BOSS Linux | 0 | 0 | 2 | 1 |
| 10. | Spoken Tutorial -PHP & MySQL | 0 | 0 | 2 | 1 |
| 11. | Oracle – SQL fundamentals | 0 | 0 | 2 | 1 |
| 12. | Oracle – Java Fundamentals | 0 | 0 | 2 | 1 |
| 13. | CCNA – Certification | 0 | 0 | 2 | 1 |
| 14. | SCJP / OCPJP – Sun Certified Java Programmer / Oracle Certified Professional Java Programmer | 0 | 0 | 2 | 1 |
| 15. | Android application Development | 0 | 0 | 2 | 1 |
| 16. | PC Hardware and Trouble shooting | 0 | 0 | 2 | 1 |

| 4 | Power Distribution in Buildings | 0 | 0 | 2 | 1 |
|---|---|---|---|---|---|
| 5 | Selection & Application of Drives | 0 | 0 | 2 | 1 |
| 6 | Industrial Protection With Numerical Relays | 0 | 0 | 2 | 1 |
| 7 | Creating a Printed Circuit Board | 0 | 0 | 2 | 1 |
| 8 | SCADA (supervisory control and data acquisition) | 0 | 0 | 2 | 1 |
| 9 | Design of Control Circuits | 0 | 0 | 2 | 1 |

## DEPARTMENT OF MECHANICAL ENGINEERING

| S. No. | Course Title | L | T | P | C |
|---|---|---|---|---|---|
| 1 | Non-Destructive Testing | 0 | 0 | 2 | 1 |
| 2 | CATIA | 0 | 0 | 2 | 1 |
| 3 | CNC Milling | 0 | 0 | 2 | 1 |
| 4 | Solid Works | 0 | 0 | 2 | 1 |
| 5 | Industrial Robotics | 0 | 0 | 2 | 1 |
| 6 | Industrial Automation | 0 | 0 | 2 | 1 |
| 7 | ANSYS FLUENT | 0 | 0 | 2 | 1 |
| 8 | Computer Aided Reverse Engineering | 0 | 0 | 2 | 1 |

## DEPARTMENT OF MECHATRONICS ENGINEERING

| S.No. | Course Title | L | T | P | C |
|---|---|---|---|---|---|
| 1 | Maintenance and troubleshooting of hydraulic system | 1 | - | - | 1 |
| 2 | SCADA certification | - | - | 2 | 1 |
| 3 | CAD Software Certification | - | - | 2 | 1 |
| 4 | PLC programming Certification | - | - | 2 | 1 |

| S.No. | Course Title | L | T | P | C |
|-------|-------------|---|---|---|---|
| 1 | Embedded Programming Using ARDUINO | 0 | 0 | 2 | 1 |
| 2 | PC Hardware Assembling and Troubleshooting | 0 | 0 | 2 | 1 |
| 3 | CISCO Certified Network Associate | 0 | 0 | 2 | 1 |
| 4 | Basic Electronic Circuit Design Using Multisim | 0 | 0 | 2 | 1 |
| 5 | MATLAB Programming | 0 | 0 | 2 | 1 |
| 6 | Software Defined Radio | 1 | 0 | 0 | 1 |

| S.No. | One Credit Course | Subject | Semester |
|-------|-------------------|---------|----------|
| 1 | Embedded Programming Using ARDUINO | EC 16652 Embedded Processors and Networks | Semester Eight |
| 2 | PC Hardware Assembling and Troubleshooting | | |
| 3 | CISCO Certified Network Associate | | |
| 4 | Basic Electronic Circuit Design Using Multisim | EC 16653 – RF Microelectronics | Semester Eight |
| 5 | MATLAB Programming | | |
| 6 | Software Defined Radio | | |

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

| S. No. | Course Title | L | T | P | C |
|--------|-------------|---|---|---|---|
| 1 | Best Maintenance Practices In LV Switchgear | 0 | 0 | 2 | 1 |
| 2 | Breaker Maintenance Workshop -C-Power ACB | 0 | 0 | 2 | 1 |
| 3 | Electrical Design of Switchgear Assembly | 0 | 0 | 2 | 1 |

| | | | | | |
|---|---|---|---|---|---|
| 5 | Control of Motors Using Special Drives | - | - | 2 | 1 |
| 6 | Robot Programming Certification | - | - | 2 | 1 |
| 7 | Control Panel and Wiring | - | - | 2 | 1 |

| S.No. | One Credit Course | Subject | Semester |
|---|---|---|---|
| 1 | PLC programming Certification | Flexible Manufacturing System | Semester Eight |
| 2 | SCADA certification | | |
| 3 | Control Panel and Wiring | | |
| 4 | Control of Motors Using Special Drives | Embedded System Design | Semester Eight |
| 5 | Robot Programming Certification | | |
| 6 | Maintenance and troubleshooting of hydraulic system | | |
| 7 | CAD Software Certification | Concepts of Engineering Design | Semester Eight |
| 8 | Control Panel and Wiring | | |
| 9 | Maintenance and troubleshooting of hydraulic system | | |

## DEPARTMENT OF CHEMICAL ENGINEERING

## LIST OF ONE CREDIT COURSES

| S.No. | Course Title | L | T | P | C |
|---|---|---|---|---|---|
| 1 | Introduction to Fuel Cell Technology | 1 | 0 | 0 | 1 |
| 2 | Insight to Hydrogen as Fuel | 1 | 0 | 0 | 1 |
| 3 | Introduction to Petrochemicals | 1 | 0 | 0 | 1 |
| 4 | Corrosion Engineering | 1 | 0 | 0 | 1 |
| 5 | Nanomaterials for Energy and Environmental | 1 | 0 | 0 | 1 |
| 6 | Outline to Biomaterials | 1 | 0 | 0 | 1 |

| | | | | | |
|---|---|---|---|---|---|
| 7 | Analysis for Characterization of Nanomaterials | 1 | 0 | 0 | 1 |
| 8 | Pinch technology | 1 | 0 | 0 | 1 |
| 9 | Physical Chemistry Of Polymers | 1 | 0 | 0 | 1 |
| 10 | Polymeric Materials | 1 | 0 | 0 | 1 |
| 11 | Fabrication Of Polymer Materials | 1 | 0 | 0 | 1 |
| 12 | Experiments on Water Analysis | 0 | 0 | 2 | 1 |

## DEPARTMENT OF INFORMATION TECHNOLOGY

| S.No. | Course Title | L | T | P | C |
|---|---|---|---|---|---|
| 1. | Amcat (Online Placement Aptitude Certification) | 0 | 0 | 2 | 1 |
| 2. | e-litmus(Online Placement Aptitude Certification) | 0 | 0 | 2 | 1 |
| 3. | Nasscom nac-tech (Online Placement Aptitude Certification) | 0 | 0 | 2 | 1 |
| 4. | I-pat (Online Placement Aptitude Certification) | 0 | 0 | 2 | 1 |
| 5. | NPTEL / Swayam (Online courses) | 0 | 0 | 2 | 1 |
| 6. | Spoken Tutorial -Advanced C++ | 0 | 0 | 2 | 1 |
| 7. | Spoken Tutorial- Java Business Application | 0 | 0 | 2 | 1 |
| 8. | Spoken Tutorial -Linux&Ubuntu | 0 | 0 | 2 | 1 |
| 9. | Spoken Tutorial -BOSS Linux | 0 | 0 | 2 | 1 |
| 10. | Spoken Tutorial -PHP & MySQL | 0 | 0 | 2 | 1 |
| 11. | Oracle – SQL fundamentals | 0 | 0 | 2 | 1 |
| 12. | Oracle – Java Fundamentals | 0 | 0 | 2 | 1 |
| 13. | CCNA – Certification | 0 | 0 | 2 | 1 |
| 14. | SCJP / OCPJP – Sun Certified Java Programmer / Oracle Certified Professional Java Programmer | 0 | 0 | 2 | 1 |
| 15. | Android application Development | 0 | 0 | 2 | 1 |
| 16. | PC Hardware and Trouble shooting | 0 | 0 | 2 | 1 |
| 17. | Linux System Administration | 0 | 0 | 2 | 1 |

## DEPARTMENT OF ENGLISH

| S.No. | Course Title | L | T | P | C |
|-------|-------------|---|---|---|---|
| 1. | BEC Vantage | 0 | 0 | 2 | 1 |
| 2. | BEC Higher | 0 | 0 | 2 | 1 |

## CENTRE FOR FOREIGN LANGUAGES

| S.No. | Course Title | L | T | P | C |
|-------|-------------|---|---|---|---|
| 1. | German | 0 | 0 | 2 | 1 |
| 2. | Japanese | 0 | 0 | 2 | 1 |
| 3. | French | 0 | 0 | 2 | 1 |
| 4. | Korean | 0 | 0 | 2 | 1 |
| 5. | Mandarin | 0 | 0 | 2 | 1 |

## DEPARTMENT OF MBA

| S.No. | NAME OF THE COURSE | L | T | P | C |
|-------|-------------------|---|---|---|---|
| 1 | Personality Development | 1 | 0 | 0 | 1 |
| 2 | Executive Communication | 1 | 0 | 0 | 1 |
| 3 | TallyACE Release 6.4.3 | 0 | 0 | 2 | 1 |
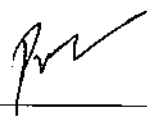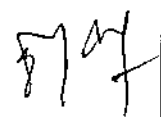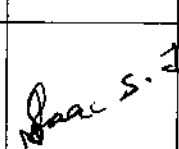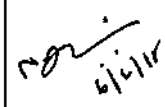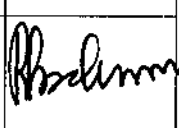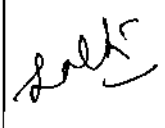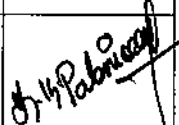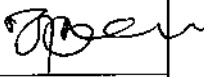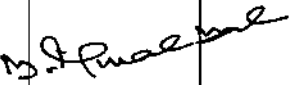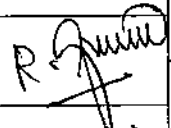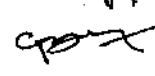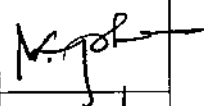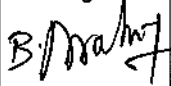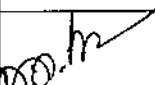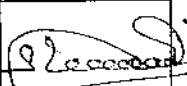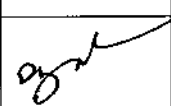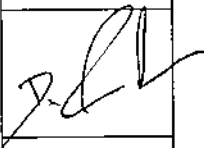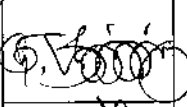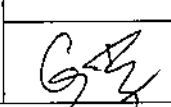
PRINCIPAL,
PAAVAI ENGINEERING COLLEGE
NH-7, PACHAL Post, Namakkal Dt

## Members Present

| S.No | Name | Designation | Position in the Committee | College / University / Industry | Signature |
|------|------|-------------|---------------------------|--------------------------------|-----------|
| 1. | Dr.M.PREMKUMAR | Principal | Chairman | Paavai Engineering College | |
| 2. | Dr.R.VELRAJ | Professor | University Nominee | Department of Mechanical Engineering, CEG Campus, Anna University, Chennai | |
| 3. | Dr.S.T.THAMARAI SELVI | Professor | University Nominee | Department of Computer Technology, MIT Camus Anna University, Chennai | |
| 4. | Dr.M.ISAAC SOLOMON JEBAMANI | Principal | University Nominee | GCE, Tirunelveli | |
| 5. | Dr..N.ALAGUMURTHI | Professor | Academic Expert | Department of Mechanical Engineering, Pondicherry Engineering College | |
| 6. | Mr.R. SUNDARAM | Managing Director | Expert appointed by the Academic Council | Aerospace Engineering Ltd.,Salem | |
| 7. | Dr.R. LATHA | Assistant Civil Surgeon | | Govt. Primary Health Centre, Puthan-chanthai | |
| 8. | Mr.I.K. PALANIVEL | Chief Accountant | | Chief Accountant | |

| | | | | | |
|---|---|---|---|---|---|
| 9. | Dr.K.K.RAMASAMY | Director Administration | | | |
| 10. | Dr.K.SELVI | Dean – Academics | | | |
| 11. | Dr.S.SUKUMAR | Dean -Civil | | | |
| 12. | Dr.B.MURALIBABU | Controller of Examinations | | | |
| 13. | Dr.R.ARANGASAMY | Professor & HOD /ECE | | | |
| 14. | Dr.G.BALAJI | Professor & HOD /EEE | | | |
| 15. | Dr.A.SUPHALAKSHMI | Professor & HOD /CSE | | | |
| 16. | Prof.B.PRABHU SHANKAR | Associate Professor/IT | Member | Paavai Engineering College | |
| 17. | Prof.A.P.SIVASUBRA MANIAM | Professor & HOD /Mech | | | |
| 18. | Prof.J.UMA NAMBI | Associate Professor & HOD / Civil | | | |
| 19. | Prof.D.R.P.RAJARATHNA M | Associate Professor & HOD / MCT | | | |
| 20. | Prof.D.RAJKUMAR | Associate Professor & HOD / Aero | | | |
| 21. | Prof.G. SRINIVASAN | Professor & HOD /Chem. | | | |
| 22. | Dr.R. JAGANATHAN | Dean - Agri | | | |
| 23. | Dr.G.RAJA | Professor & HOD / Chemistry | | | |

| | | | | | |
|---|---|---|---|---|---|
| 24. | Dr.B.KISHOK KUMAR | Professor & HOD/ Maths | | | |
| 25. | Dr.S.VADIVEL | Professor. & HOD/ Physics | | | |
| 26. | Dr.R.SHANTHI | Professor & HOD/ English | | | |
| 27. | Prof.P.MUTHUSAMY | Professor & HOD / MCA | Member | Paavai Engineering College | |
| 28. | Prof.S.SUSENDIRAN, | Assistant Professor & HOD / MBA | | | |
| 29. | Dr.K.SUNDRAMOORTHY | PROFESSOR / MECH | | | |

# PAAVAI ENGINEERING COLLEGE
**(Autonomous Institution)**
(Approved by AICTE and Affiliated to Anna University)
(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018.Tamil Nadu
04286-243038, 58,88 & 98  Fax: 04286-243068  Email: pecprincipal@paavai.edu.in  website: http://pec.paavai.edu.in

## Minutes of Third Academic Council Meeting

## Venue: Smart Hall

## Date and Time : 07.06.2017, 10.00 AM

## Members Present

| S.No | Name | Designation | Position in the Committee | College / University / Industry | Signature |
|------|------|-------------|--------------------------|--------------------------------|-----------|
| 1. | Dr.M.PREMKUMAR | Principal | Chairman | Paavai Engineering College | |
| 2. | Dr.R.VELRAJ | Professor | University Nominee | Department of Mechanical Engineering, CEG Campus, Anna University, Chennai | |
| 3. | Dr.S.T.THAMARAI SELVI | Professor | University Nominee | Department of Computer Technology, MIT Camus Anna University, Chennai | ABSENT |
| 4. | Dr.M.ISAAC SOLOMON JEBAMANI | Professor | University Nominee | Department of Civil Engineering, GCT, Coimbatore | |
| 5. | Dr..N.ALAGUMURTHI | Professor | Academic Expect | Department of Mechanical Engineering, Pondicherry Engineering College | |

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04286-243038, 58,88 & 98  Fax: 04286-243068  Email: pecprincipal@paavai.edu.in  website: http://pec.paavai.edu.in

| | | | | | |
|---|---|---|---|---|---|
| 6. | Dr.K.K.RAMASAMY | Director Administration | | | |
| 7. | Dr.K.SELVI | Dean – Academics | | | |
| 8. | Dr.S.SUKUMAR | Dean -Civil | | | |
| 9. | Dr.B.MURALIBABU | Controller of Examination | | | |
| 10. | Dr.R.ARANGASAMY | Professor & HOD /ECE | | | |
| 11. | Dr.G.BALAJI | Professor & HOD /EEE | | | |
| 12. | Dr.A.SUPHALAKSHMI | Professor & HOD /CSE | Member | Paavai Engineering College | |
| 13. | Prof.B.VENKATESAN | Associate Professor & HOD /IT | | | |
| 14. | Prof.A.P.SIVASUBRA MANIAM | Professor & HOD /Mech | | | |
| 15. | Prof.P.KALIMUTHU | Associate Professor & HOD / Civil | | | |
| 16. | Prof.D.R.P.RAJARATHI NAM | Associate Professor & HOD / MCT | | | |
| 17. | Prof.D.RAJKUMAR | Associate Professor & HOD / Aero | | | |

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| 18. | Prof.S.PANDIYARAJAN | Assistant Professor & HOD /Chem. | Member | Paavai Engineering College | |
|---|---|---|---|---|---|
| 19. | Dr.R.JAGANATHAN | Dean -Agri | | | |
| 20. | Prof.M.MOHAN | Professor & HOD / S&H | | | |
| 21. | Dr.G.RAJA | Professor & HOD / Chemistry | | | |
| 22. | Dr.B.KISHOK KUMAR | Professor & HOD/ Maths | | | |
| 23. | Dr.S.VADIVEL | Professor. & HOD/Physics | | | |
| 24. | Dr.R.SHANTHI | Professor & HOD/English | | | |
| 25. | Prof.P.MUTHUSAMY | Professor & HOD / MCA | | | |
| 26. | Prof.P.REKHA PREETHI | Assistant Professor & HOD / MBA | | | |
| 27. | Mr.R. SUNDARAM | Managing Director | Expert appointed by the Academic Council | Aerospace Engineering Ltd., Salem. | |
| 28. | Dr.R. LATHA | Assistant Civil Surgeon | | Govt. P.H.C Puthanchant hami | |
| 29. | K.SATHIANARAYANAN | Chartered Accountant | | Chartered Accountant | ABSENT |

1. The Chairman of the Academic council welcomed all the members for the 3rd Academic Council meeting.

2. The Chairman of the Academic Council introduced the members.

3. The Dean-Academics briefed the members about the agenda and presented the following academic related matters recommended by the various board of studies and standing committee of the college to the members and it was resolved to approve the following matters,

   a) Confirmation of the minutes of 2nd Academic Council meeting.
   b) B.E./B.Tech. programmes passing of the following details,
      ✓ Curriculum and Syllabus of the courses of 5th and 6th semesters under Regulations 2015 for the students admitted during the academic year 2015-2016
      ✓ Curriculum and Syllabus of the courses of 3rd and 4th semesters under Regulations 2016(CBCS) for the students admitted during the academic year 2016- 2017
      ✓ Revised curriculum for the students to be admitted during 2017-2018 and onwards under Regulations 2016
   c) M.E. / M.Tech./MBA/MCA. programmes passing of the following details
      a. Curriculum and Syllabus of the courses of 3rd and 4th semesters under Regulations 2016(CBCS) for the students admitted during the academic year 2016-2017.
   d) Conduction of Improvement test for the Continuous Internal Assessment tests at the end of the semester.
   e) Assigning the total credits for B.E/B.Tech programmes in the range of 180 to 185 credits.
   f) The Vision, Mission, Program Educational Objectives and Program Outcomes of the college and departments as approved in the BOS.
   g) Results of End Semester Examinations held during May 2016 and November 2016.

h) The following suggestions were given by the members of the academic council for implementation,
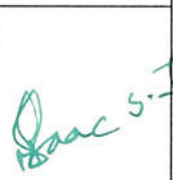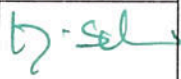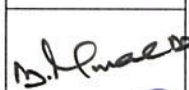
    a. One credit courses shall be introduced pertaining to the programme to enhance the employability skills of the students.

    b. A common curriculum structure shall be maintained by the institution along with the distribution of courses.

    c. The projects shall be categorized as Mini Project / Design and Development project according to the programme of study, Phase I and Phase II project work shall be kept uniform across the departments.

    d. The feedback about the courses and its contents shall be obtained from the students during the class committee meeting.

    e. The results of the End Semester Examinations were reviewed, discussed and suggested the ways and methods of improvements.

4. The Academic Council approved that the Chairman of the Academic Council will have powers to correct any clerical error are technical error in the syllabi found during the implementation of the curriculum, any correction made will be presented in the next Academic Council meeting for ratification.

5. The Academic Council approves the above decisions of item no. 3.

The Chairman of the Academic Council thanked all the members for their valuable presence, suggestions and contributions made for approving the curriculum and syllabus of UG Regulations 2015 & UG/PG Regulations 2016(CBCS)

| S.No | Name | Designation | Position in the Committee | College / University / Industry | Signature |
|------|------|-------------|--------------------------|--------------------------------|-----------|
| 1. | Dr.M.PREMKUMAR | Principal | Chairman | Paavai Engineering College | |
| 2. | Dr.R.VELRAJ | Professor | University Nominee | Department of Mechanical Engineering, CEG Campus, Anna University, Chennai | |
| 3. | Dr.S.T.THAMARAI SELVI | Professor | University Nominee | Department of Computer Technology, MIT Camus Anna University, Chennai | ABSENT |
| 4. | Dr.M.ISAAC SOLOMON JEBAMANI | Professor | University Nominee | Department of Civil Engineering, GCT, Coimbatore | |
| 5. | Dr.N.ALAGUMURTHI | Professor | Academic Expect | Department of Mechanical Engineering, Pondicherry Engineering College | |
| 6. | Dr.K.K.RAMASAMY | Director Administration | Member | Paavai Engineering College | |
| 7. | Dr.K.SELVI | Dean – Academics | | | |
| 8. | Dr.S.SUKUMAR | Dean - Civil | | | |
| 9. | Dr.B.MURALIBABU | Controller of Examination | | | |
| 10. | Dr.R.ARANGASAMY | Professor & HOD / ECE | | | |

| 11. | Dr.G.BALAJI | Professor & HOD/ EEE | | | |
|-----|-------------|---------------------|---|---|---|
| 12. | Dr.A.SUPHALAKSHMI | Professor & HOD /CSE | | | |
| 13. | Prof.B.VENKATESAN | Associate Professor & HOD /IT | | | |
| 14. | Prof.A.P.SIVASUBRAMANIAM | Professor & HOD/ Mech | | | |
| 15. | Prof.P.KALIMUTHU | Associate Professor & HOD / Civil | | | |
| 16. | Prof.D.R.P.RAJARATHINAM | Associate Professor & HOD/MCT | | | |
| 17. | Prof.D.RAJKUMAR | Associate Professor & HOD / Aero | | | |
| 18. | Prof.S.PANDIYARAJAN | Assistant Professor & HOD /Chem. | Member | Paavai Engineering College | |
| 19. | Dr.R.JAGANATHAN | Dean-Agri | | | |
| 20. | Prof.M.MOHAN | Professor & HOD / S&H | | | |
| 21 | Dr.G.RAJA | Professor & HOD / Chemistry | | | |
| 22. | Dr.B.KISHOK KUMAR | Professor & HOD/ Maths | | | |
| 23. | Dr.S.VADIVEL | Professor & HOD/Physics | | | |
| 24. | Dr.R.SHANTHI | Professor & HOD/English | | | |
| 25. | Prof.P.MUTHUSAMY | Professor & HOD / MCA | | | |
| 26. | Prof.P.REKHA PREETHI | Assistant Professor & HOD / MBA | | | |
| 27. | Mr.R. SUNDARAM | Managing Director | Expert appointed by the Academic Council | Aerospace Engineering Ltd.,Salem | |
| 28. | Dr.R. LATHA | Assistant Civil Surgeon | | Govt. P.H.C. Puthanchant ham | |
| 29. | K.SATHIANARAYANAN | Chartered Accountant | | Chartered Accountant | ABSENT |

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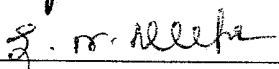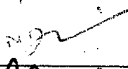04286-243038, 58,88 & 98  Fax: 04286-243068  Email. pecprincipal@paavai.edu.in  website: http://pec.paavai.edu

## MINUTES OF THE ACADEMIC COUNCIL MEETING
### VENUE: Smart Hall
### Date and Time: 27.06.2016, 10.00 a.m.
### Members Present

| S.No. | Name | Designation | Position in the Committee | College/ University/ Industry | Signature with Date |
|---|---|---|---|---|---|
| 1. | Dr.M. Premkumar | Principal | Chairman | Paavai Engineering College | |
| 2. | Dr.S.Kandasamy | Professor/ Civil | University Nominee | Former Prof. Govt College of Technology, Coimbatore | |
| 3. | Dr.S.N. Deepa | Deputy Director | University Nominee | Anna University Regional Office, Coimbatore | |
| 4. | Dr.N.Alagumurthi | Professor/ Mechanical | Expert appointed by the Academic Council | Pondicherry Engineering College, Puducherry. | |
| 5. | Mr.R. Sundaram | Managing Director | | Aerospace Engineering Ltd., Salem. | |
| 6. | Dr.R. Latha | Assistant Civil Surgeon | | Govt. Primary Health Centre, Puthanchanthai. | |
| 7. | K. Sathianarayanan | Chartered Accountant | | Chartered Accountant | |
| 8. | Dr.S. Sukumar | Dean/Civil | Member | Paavai Engineering College | |
| 9. | Dr.R.Arangasamy | HOD/ECE | Member | Paavai Engineering College | |
| 10. | Dr.B. Murali Babu | HOD/EEE | Member | Paavai Engineering College | |
| 11. | Dr.A. Suphalakshmi | HOD/CSE | Member | Paavai Engineering College | |
| 12. | Prof.B. Venkatesan | HOD/IT | Member | Paavai Engineering College | |
| 13. | Prof.A.P.Sivasubramaniam | HOD/Mech | Member | Paavai Engineering College | |
| 14. | Prof.P. Kalimuthu | HOD/Civil | Member | Paavai Engineering College | |
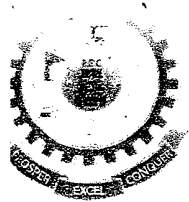
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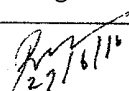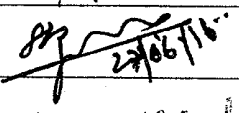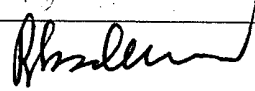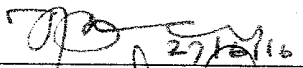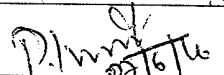
| 15. | Prof.D.R.P.Rajarathnam | HOD/MCT | Member | Paavai Engineering College | |
| 16. | Prof.P. Muthusamy | HOD/MCA | Member | Paavai Engineering College | |
| 17. | Prof.Rekha Preethi | HOD/MBA | Member | Paavai Engineering College | |
| 18. | Prof.S. Pandiarajan | HOD/ Chemical | Member | Paavai Engineering College | |
| 19. | Prof.D. Rajkumar | HOD/Aero | Member | Paavai Engineering College | |
| 20. | Prof.P. Karthikeyan | HOD/Agri | Member | Paavai Engineering College | |
| 21. | Prof.P. Jayakumar | HOD/ Maths | Member | Paavai Engineering College | |
| 22. | Dr.S. Vadivel | HOD/ Physics | Member | Paavai Engineering College | |
| 23. | Dr.R. Shanthi | HOD/ English | Member | Paavai Engineering College | |
| 24. | Dr.G. Raja | HOD/ Chemistry | Member | Paavai Engineering College | |
| 25. | Dr.G. Balaji | ASP/EEE | Member | Paavai Engineering College | |
| 26. | Prof.M. Makesh | ASP/Mech | Member | Paavai Engineering College | |
| 27. | Dr.B. Kishok Kumar | ASP/Maths | Member | Paavai Engineering College | |
| 28. | Prof.S. Kumarganesh | ASP/ECE | Member | Paavai Engineering College | |
| 29. | Prof.N. Magendiran | ASP/CSE | Member | Paavai Engineering College | |
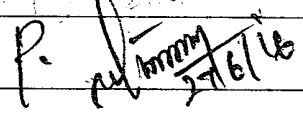
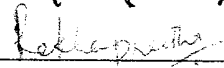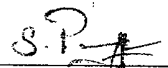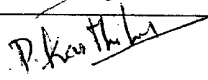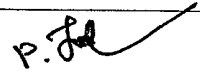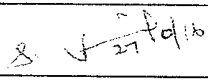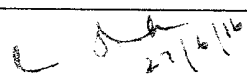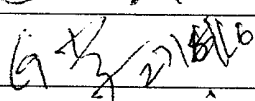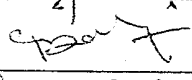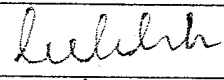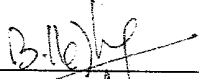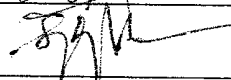## Members Absent

| 1. | Dr.T.Thyagarajan | Professor/Instrumentation | University Nominee | Anna University, Chennai |

1. Chairman of the Academic Council welcomed all the members for the 2nd Academic Council Meeting.

2. Chairman of the Academic Council introduced the members of the Academic Council.

3. Chairman of the Academic Council briefed the members about agenda.

   - Confirmation of the minutes of 1st Academic council meeting.
   - B.E./B.Tech programmes passing of the following details:
     - Syllabus of the courses of 1st and 2nd semester curriculum under Regulations 2016 (Choice Based Credit System) of autonomous scheme for the students admitted during the academic year 2016-2017.
     - Syllabus of the courses of 3rd and 4th Semester curriculum under Regulations 2015 of autonomous scheme for the students admitted during the academic year 2015-2016.

   - M.E./M.Tech/MBA/MCA programmes passing of the following details:
     - Syllabus of the courses of 1st and 2nd semester curriculum under Regulations 2016 (Choice Based Credit System) of autonomous scheme for the students admitted during the academic year 2016-2017.
     - Syllabus of the courses of 3rd and 4th Semester curriculum under Regulations 2015 of autonomous scheme for the students admitted during the academic year 2015-2016.
   - Regulations 2016 of the UG and PG Programmes.
   - Amendments to be carried out in Regulations 2015

4. The following points are presented for the review and approval of the Academic Council:

   - Courses such as human rights or human values shall be included as open elective course / non credit/ one credit course.
   - In addition to foreign language, other Indian languages shall be included in the non credit courses.
   - Quality parameter can be set for the non credit courses.
   - One Elective course can be added/ dropped in case the candidate fails / withdraw the above course in the particular semester. However he/ has to maintain the total credit requirement as per regulation.
   - The details of students who undergo withdrawal or authorized break of study should be approved by the respective Board of Studies of Departments, Standing Committee and the Academic Council.
   - The pass in the competitive exams such as GATE/ CAT/TOEFL/IELTS/GRE shall be considered as non credit courses.
   - The Online courses should be approved by the respective Board of Studies of departments.

- The Academic Council review October / November-2015 1st semester result and gave suggestion for the improvement of the result by taking additional measures.

5. The Academic Council approved that the Chairman of the Academic Council will have powers to correct any clerical error or technical error in the syllabi found during the implementation of the curriculum, any correction made will be presented in the next Academic Council meeting for ratification.

6. The Academic Council approves the above decisions.

7. The Chairman of the Academic Council thanked all the members for their valuable presence, suggestions and contribution made for approving the UG/PG Regulations, Curriculum and syllabus of UG/PG programmes of Regulations 2015 and Regulations 2016 under CBCS Scheme.

| S.No. | Name | Signature |
|-------|------|-----------|
| 1. | Dr.M. Premkumar | |
| 2. | Dr.S.Kandasamy | |
| 3. | Dr.S.N. Deepa | |
| 4. | Dr.N.Alagumurthi | |
| 5. | Mr.R. Sundaram | |
| 6. | Dr.R. Latha | |
| 7. | K. Sathianarayanan | |
| 8. | Dr.S. Sukumar | |
| 9. | Dr.R.Arangasamy | |
| 10. | Dr.B. Murali Babu | |
| 11. | Dr.A. Suphalakshmi | |
| 12. | Prof.B. Venkatesan | |
| 13. | Prof.A.P.Sivasubramaniam | |
| 14. | Prof.P. Kalimuthu | |

| 15. | Prof.D.R.P.Rajarathnam | |
| --- | --- | --- |
| 16. | Prof.P. Muthusamy | |
| 17. | Prof.Rekha Preethi | |
| 18. | Prof.S. Pandiarajan | |
| 19. | Prof.D. Rajkumar | |
| 20. | Prof.P. Karthikeyan | |
| 21. | Prof.P. Jayakumar | |
| 22. | Dr.S. Vadivel | |
| 23. | Dr.R. Shanthi | |
| 24. | Dr.G. Raja | |
| 25. | Dr.G. Balaji | |
| 26. | Prof.M. Makesh | |
| 27. | Dr.B. Kishok Kumar | |
| 28. | Prof.S. Kumarganesh | |
| 29. | Prof.N. Magendiran | |