

VELAMMAL ENGINEERING COLLEGE, CHENNAI -66
(An Autonomous Institution affiliated to Anna University, Chennai)

REGULATIONS 2023

CHOICE BASED CREDIT SYSTEM

Degree of Master of Engineering

(For the students admitted to M.E. Degree Programme during the Academic year 2023-2024 and onwards)

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE	
In these Regulations, unless the context otherwise specifies.	
I	“Programme” means Degree Programme, that is M.E. Degree Programme.
II	“Discipline” means specialization or branch of M.E. Degree Programme, like Computer Science and Engineering and Power System Engineering.
III	“Course” means a theory or practical subject that is normally studied in a semester, like Multi core Architecture, Research Methodology and IPR, Machine Learning, Advanced software Engineering, Advanced Power System Analysis, Power System Operation and Control, etc.
IV	"Principal & Chairman" means the authority of the Autonomous Institution who is responsible for all academic activities of the institute, for implementation of relevant rules and regulations.
V	"Controller of Examinations" means the Authority of the Institution who is responsible for all activities of the Semester End Examinations of all Master's in Engineering Departments and hereafter called COE.
VI	“Head of the Institution” means the Principal of the College.
VII	“Head of the Department” means head of the Department concerned.
VIII	“University” means ANNA UNIVERSITY Chennai.
2. ADMISSION	
2.1	<p>Candidates seeking admission to the first semester of the four semesters M.E. Degree Programme:</p> <p>Candidates for admission to the first semester of the Post-Graduate Degree Programme shall be required to have passed an appropriate Under-Graduate Degree Examination of Anna University or equivalent as specified under qualification for admission as per the Tamil Nadu Common Admission (TANCA) criteria.</p> <p>Note: TANCA releases the updated criteria during the admissions every academic year.</p> <p>Admission shall be offered only to the candidates who possess the qualification prescribed against each programme.</p> <p>Any other relevant qualification which is not prescribed against each programme shall be considered for equivalence by the committee constituted for the purpose.</p> <p>Admission to such degrees shall be offered only after obtaining equivalence to such degrees.</p>

3	PG PROGRAMMES OFFERED Branches of study currently being offered by the Institution are listed below: <ol style="list-style-type: none"> 1. M.E. Computer Science and Engineering 2. M.E. Power System Engineering 								
4	STRUCTURE OF THE PROGRAMMES								
4.1	Categorization of Courses <p>Every M.E. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:</p> <ol style="list-style-type: none"> I. Foundation Courses (FC) may include Mathematics or other basic courses II. Professional Core Courses (PCC) include the core courses relevant to the chosen specialization/branch of study. III. Professional Elective Courses (PEC) include the elective courses relevant to the chosen specialization/ branch of study. IV. Open Elective (OE) courses include the courses from other branches which a student can choose from the list specified in the M.E. Programme curriculum. V. Employability Enhancement Courses (EEC) include Project Work and/or Internship, Seminar, Professional Practices, Case Study and Industrial/Practical Training. VI. Audit courses (AC) include Constitution of India, Term Paper Writing and Seminar, Value Education, Pedagogy Studies, Soft Skills, etc. (Non-Credit) <p>Credit requirements A total of 75 credits for a student is eligible to get the student Post Graduate degree in engineering.</p>								
4.2	Number of courses per semester The Curriculum of a semester shall normally have a blend of lecture courses and practical courses including Employability Enhancement Courses. Each course may have credits assigned as per clause 4.3.								
4.3	Credit Assignment Each course is assigned certain number of credits based on the following: <table border="1" data-bbox="557 1650 1161 1874"> <thead> <tr> <th>Contact Period per week</th><th>CREDITS</th></tr> </thead> <tbody> <tr> <td>1 Lecture Period</td><td>1</td></tr> <tr> <td>1 Tutorial Period</td><td>1</td></tr> <tr> <td>2 Practical Period-(Laboratory / Seminar / Project Work / etc.)</td><td>1</td></tr> </tbody> </table>	Contact Period per week	CREDITS	1 Lecture Period	1	1 Tutorial Period	1	2 Practical Period-(Laboratory / Seminar / Project Work / etc.)	1
Contact Period per week	CREDITS								
1 Lecture Period	1								
1 Tutorial Period	1								
2 Practical Period-(Laboratory / Seminar / Project Work / etc.)	1								
4.4	Project Work The Project work is an important component of post-Graduate Programmes. The Project work for M.E. consists of Project Work - I and Project Work - II. The Project								

	Work - I is to be undertaken during III semester. Project Work - II, which is a continuation of Project Work - I is to be undertaken during IV semester.
4.4.1	The Project work for M.E (Project work - II) shall be pursued for a minimum of 16 weeks during the final semester.
4.4.2	The Project work shall be carried out under the supervision of a “qualified teacher” in the Department concerned. In this context “qualified teacher” means a faculty member possessing (i) PG degree with a minimum of 3 years of teaching experience or (ii) Ph.D. degree.
4.4.3	A student 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. In such cases, the Project work shall be jointly guided by a supervisor of the department and an expert as joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress.
4.5	<p>Industrial Training / Internship</p> <p>The students should undergo Industrial training 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.</p> <p>The students should undergo Internship at a Research organization / University/ industry (after due approval from the Departmental Consultative Committee) for the period prescribed in the curriculum during the summer / winter vacation, in lieu of Industrial training.</p>
4.6	<p>Value Added Courses</p> <p>Students may optionally undergo Value Added Courses and the credits earned through the Value-Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One/Two credit courses shall be offered by a Department with the prior approval of Board of Studies and Academic Council. Students can take a maximum of two ‘one credit courses’ or one ‘Two credit course’. They shall be allowed to take one/two credit courses offered in other Departments with the permission of the Head of the Department offering the course.</p>
4.7	<p>Online Courses</p> <p>Students may be permitted to credit a maximum of two online courses, subject to a maximum of six credits, with the approval of the Dean Academics and the Head of the institution, in lieu of open elective / professional elective courses. The Head of the Institution shall form a three-member committee with members as HOD and a faculty member from the Department of the student, HOD of any other branch of the Institution to ensure that the student has not studied such courses and would not repeat it again as Professional Core/Professional Elective/Open Elective courses. Suitable online courses shall be chosen from the SWAYAM/Skill India platform.</p>
4.8	Self- Study Courses
4.8.1	Students may be permitted to credit almost one self-study course with the approval of the Board of Studies and Academic Council.

4.8.2	The Department may offer self-study courses. The purpose of the course is to permit the student to study a course / topic of the student's choice. The students shall study on their own under the guidance of a faculty member. No formal lectures need be delivered. The syllabus of the course and mode of assessments shall be approved by the Board of Studies and Academic Council, preferably before the commencement of the semester. The self -study course of 3 credits can be considered as one elective course. One Faculty member approved by the Head of the Department shall be responsible for the periodic monitoring and evaluation of the course.
4.9	Medium of Instruction The medium of instruction is ENGLISH for all Courses, Examinations, Seminar Presentations and Project / Thesis / Dissertation Reports.
5	DURATION OF THE PROGRAMME
5.1	A student is ordinarily expected to complete the M.E. Programme in 4 semesters (two academic years) but in any case, not more than 8 Semesters.
5.2	Each semester shall normally consist of 90 working days (including Examination Days). 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.
5.3	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 5.1 irrespective of the period of break of study (vide clause 17) or prevention (vide clause 7.4) in order that the student may be eligible for the award of the degree (vide clause 15).
5.4	The Curriculum of P.G. Programmes has been designed to have the credits of 75 for the award of the degree.
6	COURSE ENROLLMENT AND REGISTRATION
6.1	Each student, on admission, shall be assigned to a Faculty Advisor (vide clause 8), who shall advice and 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	After registering for a course, a student shall attend the classes, satisfy the attendance requirements, earn Continuous Assessment marks, and appear for the End Semester Examinations.
6.2.1	Each student on admission shall register for all the courses prescribed in the curriculum in the student's first Semester of study.
6.2.2	The enrollment for the courses from the II Semester to Final Semester will commence 5 working days prior to the commencement of the succeeding semester.
6.2.3	Instead of two electives in the curriculum, the student may be permitted to choose a maximum of 2 courses from other PG programmes with the approval of

	the Head of the Department offering such courses.
6.2.4	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 the student's marks in a course or the aggregate marks / CGPA.
6.3	Redoing a Course Redoing a course means reregistering for a course, attending all classes, fulfilling the attendance requirements as per clause 7, earning fresh Continuous Assessment marks and appearing for End Semester Examinations. A student has to redo a course in the following conditions.
6.3.1	If a student is prevented from writing end semester examination of any core course due to lack of attendance, the student has to register for that course again when offered next and redo the course.
6.3.2	If a student is prevented from writing the end semester examination of any professional/open elective course due to lack of attendance, the student can opt to register for the same course again when offered next and redo the course, or he/she can opt to register for a different professional/open elective course when it is offered, attend classes, fulfill the attendance requirements as per clause 7, secure Continuous Assessment marks and appear for End Semester Examinations.
6.3.3	If a student fails to secure a pass in a theory course / laboratory course (except electives), the student shall register and appear only for the semester end examination in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA+ Semester End Examination), then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the Semester End Examinations alone.
6.3.4	If the course in which the student fails to secure a pass even after three arrear attempts is a professional/open elective course, then the student can opt for a different professional/ open elective course, register for the same when it is offered, attend classes, fulfill the attendance requirements as per clause 7, secure Continuous Assessment marks and appear for End Semester Examinations.
6.3.5	The student who fails in any Project work / Seminar / Internship / Career Development Skills / Professional Practices / Case Study and Industrial / Practical Training shall register for the same in the subsequent semester and redo the course. In this case, the student shall attend the classes and fulfill the attendance requirements as per clause 7.
7	REQUIREMENTS FOR APPEARING FOR THE END SEMESTER EXAMINATION OF A COURSE A student who has fulfilled the following conditions (vide clause 7.1 and 7.2) shall be deemed to have satisfied the attendance requirements for appearing for the end semester examination of a particular course.

7.1	Ideally every student is expected to attend all periods and earn 100% attendance. However, the student shall secure not less than 75% attendance, course wise, considering the number of periods required for that course, as specified in the curriculum.
7.2	<p>If a student secures attendance between 65% and less than 75% in any course in the current semester, due to medical reasons (hospitalization / accident / specific illness) or due to participation in the College / University / State / National / International level Sports events, with prior permission from the Head, Physical Education Department and Head of the Department concerned, the student shall be given exemption from the prescribed attendance requirement and the student shall be permitted to appear for the end semester examination of that course. In all such cases, the students should submit the required documents on joining after the absence to the Head of the Department through the Faculty Advisor.</p> <p>If the student secures overall attendance between 65% and 74 % for other reasons, the student may or may not be allowed for the examinations by the head of the institution. If allowed in such cases condonation fee is applicable. The decision to levy the condonation fee for such cases is under the sole discretion of the head of the institution.</p> <p>The same shall be forwarded to the Controller of Examinations for record purposes.</p>
7.3	A student shall normally be permitted to appear for the end semester examination of the course if the student has satisfied the attendance requirements (vide Clause 7.1 – 7.2) and has registered for the examination in those courses of that semester by paying the prescribed fee.
7.4	Students who do not satisfy clause 7.1 and 7.2 and who secure less than 65% attendance in a course will not be permitted to write the end semester examination of that course. The student has to register and redo the course when it is offered next as per Clause 6.3. If the course in which the student has been prevented is a professional/ open elective, the student can opt to redo the same course or opt for different professional/ open elective course as per Clause 6.3.2.
7.5	If a student has shortage of attendance in all the registered courses, he/she would not be permitted to move to the higher semester and has to repeat the current semester in the subsequent year.
7.6	In the case of reappearance (Arrear) registration for a course, the attendance requirement as mentioned in Clauses 7.1 - 7.3 is not applicable. However, the student has to register for examination in that course by paying the prescribed fee.
7.7	A student who has already appeared for a course in a semester and passed the examination is not entitled to reappear for the same course for improvement of letter grades / marks.
8	<p>FACULTY ADVISOR</p> <p>To help the students in planning their courses of study and for general advice on the academic programme, the Head of the Department of the students will attach a certain number of students to a teacher of the Department, who shall function as</p>

	<p>Faculty Advisor for those students throughout their period of study. The Faculty Advisor shall advise the students in registering and reappearance (Arrear) registering of courses, authorize the process, monitor their attendance and progress and counsel them periodically. If necessary, the Faculty Advisor may also discuss with or inform the parents about the progress /performance of the students concerned.</p> <p>The responsibilities of the faculty advisor shall be:</p> <ol style="list-style-type: none"> To inform the students about the various facilities and activities available to enhance the student's curricular and co-curricular activities. To guide student enrollment and registration of the courses. To authorize the final registration of the courses at the beginning of each semester. To monitor the academic and general performance of the students including attendance and to counsel them accordingly. To collect and maintain the academic and co-curricular records of the students.
9	CLASS COMMITTEE
9.1	<p>A Class Committee consists of teachers of the concerned class, student representatives and a chairperson who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include:</p> <ul style="list-style-type: none"> Solving problems experienced by students in the class room and in the laboratories. Clarifying the regulations of the programme and the details of rules therein. Informing the student representatives, the "academic schedule" including the dates of assessments and the syllabus coverage for each assessment period. Informing the student representatives, the details of regulations regarding the weightage used for each assessment. In the case of practical courses (laboratory / project work / seminar etc.) 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 improving the performance of the students. Identifying the slow learners, if any, in any specific subject and requesting the teachers concerned to provide some additional help or guidance or coaching to such students as frequently as possible.
9.2	The class committee for a class under a particular programme is normally constituted by the Head of the Department. However, if the students of different programmes are mixed in a class, 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 2 student representatives (usually 1 boy and 1 girl) shall be included in the class committee.
9.5	The chairperson of the class committee shall invite the Class advisor(s) and the Head of the Department to the meeting of the class committee.

9.6	The Head of the Institution may participate in any class committee of the institution.											
9.7	The Chairperson of the Class Committee is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate among the concerned students and teachers. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the management by the Head of the Institution.											
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 weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held at suitable intervals. During these meetings the student members, representing the entire class, shall meaningfully interact and express the opinions and suggestions of the class students to improve the effectiveness of the teaching-learning process.											
10	<p>COURSE COMMITTEES</p> <p>A theory course handled by more than one teacher shall have a “Course Committee”, comprising of all teachers teaching that course. One of the teachers shall be nominated as Course Coordinator by the Faculty Chairman, duly approved by the Director, Academic Courses.</p> <p>The first meeting of the Course Committee shall be held within fifteen days from the date of formation of the committee. The nature and weightage of the continuous assessments shall be decided in the first meeting, within the framework of the Regulations. Two or three subsequent meetings in a semester may be held at suitable intervals.</p> <p>In addition, the “Course Committee” shall meet to ensure uniform evaluation of continuous assessments after arriving at a common scheme of evaluation for the assessments (vide clause 11).</p> <p>Wherever feasible, the course committee shall prepare a common question paper for the continuous assessment tests also. The question paper for the end semester examination is common and shall be set by the Course Coordinator, in consultation with all the teachers.</p>											
11	<p>ASSESSMENT PROCEDURES FOR AWARDING MARKS</p> <p>For all theory, laboratory courses, theory courses with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below:</p>											
11.1	<p>ASSESSMENT FOR THEORY COURSES</p> <table><tr><th colspan="2">Continuous Internal Evaluation (CIE)</th><th rowspan="2">SEMESTER END EXAMINATION(SEE)</th></tr><tr><th>CIE 1 & CIE 2</th><th>MODEL</th></tr><tr><td>CIE 1 : Units 1 & 2</td><td>Model examination:</td><td>SEE :</td></tr><tr><td>CIE 2 : Units 3 & 4</td><td>All five Units</td><td>All five Units</td></tr></table>	Continuous Internal Evaluation (CIE)		SEMESTER END EXAMINATION(SEE)	CIE 1 & CIE 2	MODEL	CIE 1 : Units 1 & 2	Model examination:	SEE :	CIE 2 : Units 3 & 4	All five Units	All five Units
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CIE 1 : Units 1 & 2	Model examination:	SEE :										
CIE 2 : Units 3 & 4	All five Units	All five Units										

	<div>Duration : 1.5 Hrs. TOTAL : 50 Marks</div>	<div>Duration : 3.00 Hrs. Total : 100 Marks</div>	<div>Duration : 3.00 Hrs. Total : 100 Marks</div>																	
	<div>Overall, CIE will be calculated as follows. CIE 1 : 10 Marks CIE 2 : 10 Marks Model Examination : 15 Marks Assignments : 5 marks Total : 40 Marks</div>		<div>Grade sheet will contain</div> <table><tr><td>CIE</td><td>40 Marks</td></tr><tr><td>SEE</td><td>60 Marks</td></tr><tr><td>Total</td><td>100 Marks</td></tr></table>	CIE	40 Marks	SEE	60 Marks	Total	100 Marks											
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Total	100 Marks																			
	Three tests each mentioned above for CIE shall be conducted during the. The total marks obtained in all tests put together, shall be proportionately reduced for 40 marks, and rounded to the nearest integer.																			
11.2	ASSESSMENT FOR LABORATORY COURSES																			
	The maximum marks for Internal Assessment shall be 60 in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records maintained. The criteria for arriving at the Internal Assessment marks of 60 is as follows:																			
	<table><tr><th colspan="2">Continuous Internal Evaluation (CIE)</th><th rowspan="2">SEMESTER END EXAMINATION(SEE)</th></tr><tr><th>CIE 1 & CIE 2</th><th>MODEL</th></tr><tr><td>CIE 1 : 1st Cycle of Experiments CIE 2 : 2nd Cycle of Experiments TOTAL : 50 Marks</td><td>Model Lab examination: All experiments Duration: One lab session Total : 100 Marks</td><td>SEE : All experiments Duration 3.00 Hrs. Total : 100 Marks</td></tr><tr><td colspan="2"><div>Overall CIE will be calculated as follows CIE 1(Based on 1st cycle of Experiments):15 Marks CIE 2 (Based on 2nd cycle of Experiments):15 Marks Model lab Examination : 30 Marks Total : 60 Marks</div></td><td><div>Grade sheet will contain.</div><table><tr><td>CIE</td><td>60 Marks</td></tr><tr><td>SEE</td><td>40 Marks</td></tr><tr><td>Total</td><td>100 Marks</td></tr></table></td></tr></table>			Continuous Internal Evaluation (CIE)		SEMESTER END EXAMINATION(SEE)	CIE 1 & CIE 2	MODEL	CIE 1 : 1 st Cycle of Experiments CIE 2 : 2 nd Cycle of Experiments TOTAL : 50 Marks	Model Lab examination: All experiments Duration: One lab session Total : 100 Marks	SEE : All experiments Duration 3.00 Hrs. Total : 100 Marks	<div>Overall CIE will be calculated as follows CIE 1(Based on 1st cycle of Experiments):15 Marks CIE 2 (Based on 2nd cycle of Experiments):15 Marks Model lab Examination : 30 Marks Total : 60 Marks</div>		<div>Grade sheet will contain.</div> <table><tr><td>CIE</td><td>60 Marks</td></tr><tr><td>SEE</td><td>40 Marks</td></tr><tr><td>Total</td><td>100 Marks</td></tr></table>	CIE	60 Marks	SEE	40 Marks	Total	100 Marks
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Total	100 Marks																			
	The total mark shall be reduced to 60 and rounded to the nearest integer.																			
11.3	ASSESSMENT FOR THEORY COURSES WITH LABORATORY COMPONENT																			
	The maximum marks for Continuous Assessment shall be 50 in case of theory courses with Laboratory component. For a theory course with Laboratory component, there shall be three assessments: the first two assessments (each with a maximum of 100 marks) will be from theory portions and the third assessment (maximum marks 100) will be for laboratory component. The sum of marks of all																			

	three assessments shall be reduced to 50 marks and rounded to the nearest integer.																									
11.4	ASSESSMENT FOR PROJECT WORK The evaluation of Project Work I and Project work II shall be done independently in the respective semesters and marks shall be allotted as per the weightages given in Clause 11.4.1.																									
11.4.1	<p>The Project work shall be evaluated for a maximum of 100 marks of which 40 marks will be through internal assessment. There should be three reviews for each phase (Project work I and Project work II) to be conducted separately with Internals 40 marks and External 60 marks. The committee for the conduct of reviews shall be constituted by the Head of the Department.</p> <p>The project report shall carry a maximum 15 marks. The project report shall be submitted as per the approved guidelines given by Principal. The viva-voce examination shall carry 45 marks. Marks are awarded based on the performance in the viva-voce examination.</p> <table><tr><th colspan="3">Internal Assessment (40 Marks)</th><th colspan="4">End Semester Examination (60 Marks)</th></tr><tr><th rowspan="2">Review - I</th><th rowspan="2">Review - II</th><th rowspan="2">Review - III</th><th>Project Report (15 Marks)</th><th colspan="3">Viva – Voce (Rounded to 45 Marks)</th></tr><tr><th>External Examiner</th><th>Internal Examiner</th><th>External Examiner</th><th>Supervisor Examiner</th></tr><tr><td>10</td><td>10</td><td>20</td><td>15</td><td>15</td><td>15</td><td>15</td></tr></table>	Internal Assessment (40 Marks)			End Semester Examination (60 Marks)				Review - I	Review - II	Review - III	Project Report (15 Marks)	Viva – Voce (Rounded to 45 Marks)			External Examiner	Internal Examiner	External Examiner	Supervisor Examiner	10	10	20	15	15	15	15
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11.4.2	There shall be three assessments (each 100 marks) during the semester by a review committee. The student shall make presentation on the progress made before the committee. The Head of the Department shall constitute the review committee consisting of supervisor, project coordinator and another faculty member from the Department for each branch of study. The total marks obtained in the three assessments shall be reduced to 40 marks and rounded to the nearest integer.																									
11.4.3	The Project Report prepared according to approved guidelines as given by the Principal and duly signed by the supervisor(s), Project Co-Ordinator and the Head of the Department and shall be submitted to the Head of the Department.																									
11.4.4	The evaluation of the Project work - I and Project work - II shall be based on the project report submitted in each of the Project work - I and Project work - II respectively and a Viva-Voce Examination by a team consisting of the supervisor, internal examiner (other than the supervisor) and External Examiner. The Project Co-Ordinator shall act as Internal Examiner. The External examiner shall be appointed by the Controller of Examination from the panel of examiners submitted by the HOD for Project work - I and Project work - II evaluation																									
11.4.5	If the student fails to obtain 50% of the internal assessment marks in the Project work - I and Project work - II in the case of M.E. / M. Tech, he / she will not be permitted to submit the report for that semester and has to re-enroll for the same in the subsequent semester.																									
11.4.6	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 as per the academic calendar published by the University or the Re-opening of next semester whichever is earlier.									
11.4.7	<p>If a student fails to submit the project report on or before the specified deadline, student is deemed to have failed in the Project Work and shall re-enroll for the same in a subsequent semester. This applies to both Project work - I and Project work - II.</p> <p>In case of students not completing Project work - I successfully, the students can undertake Project work - I again in the subsequent semester. In such cases, the students can enroll for Project work - II, only after successful completion of Project work - I.</p>									
11.4.8	A copy of the approved project report after the successful completion of viva-voice examinations shall be kept in the library of the college / institution.									
11.5	<p>ASSESSMENT FOR TECHNICAL PAPER WRITING AND PRESENTATION SKILLS / TECHNICAL PAPER WRITING:</p> <p>The technical paper writing and presentation skills / technical paper writing shall carry 100 marks and shall be evaluated through continuous assessment only. Every student is expected to present a minimum of 2 presentations per semester before the evaluation committee and for each presentation, marks can be equally apportioned. The three-member committee consisting of one coordinator and two members appointed by the Head of the Department will evaluate the presentation 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 report (40%), presentation (40%) and response to the questions asked during presentation (20%).</p>									
11.6	ASSESSMENT FOR INDUSTRIAL TRAINING / INTERNSHIP									
11.6.1	Industrial Training / Internship if 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.									
11.6.2	<p>The Industrial Training / Internship shall carry 100 marks and shall be evaluated through continuous assessment only as per table 1. At the end of Industrial Training / Internship, the student shall submit a brief report on the training undergone and a certificate from the organization concerned. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three-member Departmental Committee consisting of one co-ordinator and two members constituted by the Head of the Department. Certificates (issued by the Organization) submitted by the student shall be attached to the mark list (with grade) and sent to Controller of Examinations by the Head of the Department.</p> <p style="text-align: center;">Table 1</p> <table><tr><th colspan="3">INTERNSHIP / INDUSTRIAL TRAINING EVALUATION</th></tr><tr><th>REPORT</th><th>PRESENTATION</th><th>VIVA VOCE</th></tr><tr><td>40</td><td>30</td><td>30</td></tr></table>	INTERNSHIP / INDUSTRIAL TRAINING EVALUATION			REPORT	PRESENTATION	VIVA VOCE	40	30	30
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REPORT	PRESENTATION	VIVA VOCE								
40	30	30								

11.7	<p>ASSESSMENT FOR VALUE ADDED COURSES</p> <p>The one credit course shall carry 100 marks and shall be evaluated through continuous assessments only. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. The Head of the Department may identify a faculty member as coordinator for the course. A committee consisting of the Head of the Department, staff handling the course (if available), coordinator and a senior Faculty member nominated by the Head of the Department shall monitor the evaluation process. The grades shall be assigned to the students by the above committee based on their relative performance.</p>
11.8	<p>ASSESSMENT FOR ONLINE COURSE</p> <p>Students may be permitted to earn Online Courses - SWAYAM/Skill India platform (which are provided with certificate) with the approval of Board of Studies subject to a maximum of six credits. This Online Course of 6 credits (SWAYAM/Skill India platform) can be considered instead of one open Elective / professional elective courses. The scores obtained during online certification will be considered for awarding the grade</p>
11.9	<p>ASSESSMENT FOR SELF STUDY COURSE</p> <p>The Faculty member approved by the Head of the Department shall be responsible for periodic monitoring and evaluation of the course. The course shall be evaluated through Continuous Assessment and End Semester Examination. The evaluation methodology shall be the same as that of a theory course (vide clause 11.1).</p>
12	PASSING REQUIREMENTS
12.1	A candidate who secures not less than 50% of the total marks prescribed for the course [Internal Assessment + Semester End Examinations] with a minimum of 45% of the marks prescribed for the semester end 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).
12.2	<p>If a student fails to secure a pass in theory courses and laboratory courses in the current semester examination, he/she is allowed to write arrear examinations for the next three consecutive semesters and their internal marks shall be carried over for the above mentioned period of three consecutive semesters.</p> <p>In case, if he/she has not successfully completed all the courses of semester I at the end of semester IV, he/she shall redo the semester I courses along with regular students. For the subsequent semesters of II, III and IV, the same procedure shall be followed, subject to the maximum permissible period for this programme.</p>
12.3	If a candidate fails in the end semester examinations of Project work - I, he/she has to resubmit the Project Report within 30 days from the date of declaration of the results. If he / she fails in the end semester examination of Project work - II, he/she shall resubmit the Project Report within 60 days from the date of declaration of the results. The resubmission of the project report and the subsequent viva- voce

	examination will be considered as reappearance with payment of exam fee. In case if a student fails to resubmit the project report within the stipulated period and fails in the subsequent viva-voce examination, the student shall register for the course again, in the subsequent semester.																																		
12.4	The passing requirement for the courses which are assessed only through continuous assessment (EEC courses except project work), shall be fixed as minimum 50%.																																		
13.	<p>AWARD OF LETTER GRADES</p> <p>The award of letter grades will be decided using relative grading principle. The performance of a student will be reported using letter grades, each carrying certain points as detailed below:</p> <table><tr><th>Letter Grade</th><th>Grade Points</th></tr><tr><td>O (Outstanding)</td><td>10</td></tr><tr><td>A + (Excellent)</td><td>9</td></tr><tr><td>A (Very Good)</td><td>8</td></tr><tr><td>B + (Good)</td><td>7</td></tr><tr><td>B (Average)</td><td>6</td></tr><tr><td>C (Satisfactory)</td><td>5</td></tr><tr><td>U (Re-appearance)</td><td>0</td></tr><tr><td>SA (Shortage of Attendance)</td><td>0</td></tr><tr><td>W (Withdrawal)</td><td>0</td></tr></table> <p>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”.</p> <p>‘SA’ denotes shortage of attendance (as per clause 7) and hence prevention from writing the end semester examinations. ‘SA’ will appear only in the result sheet.</p> <p>“U” denotes that the student has failed to pass in that course. “W” denotes withdrawal from the exam for the particular course. The grades U and W will figure both in Marks Sheet as well as in Result Sheet). In both cases the student has to earn Continuous Assessment marks and appear for the End Semester Examinations. If the grade W is given to course, the attendance requirement need not be satisfied. If the grade U is given to a core theory course, the attendance requirement need not be satisfied, but if the grade U is given to a Laboratory Course/ Project work and any other EEC course, the attendance requirements (vide clause 7) should be satisfied.</p> <p>Fixed grading shall be followed with the grade range as specified below for award of grades for online NPTEL courses</p> <table><tr><td>O</td><td>A+</td><td>A</td><td>B+</td><td>B</td><td>C</td><td>U</td></tr><tr><td>81-100</td><td>71-80</td><td>61-70</td><td>51-60</td><td>46-50</td><td>40-45</td><td><40</td></tr></table>	Letter Grade	Grade Points	O (Outstanding)	10	A + (Excellent)	9	A (Very Good)	8	B + (Good)	7	B (Average)	6	C (Satisfactory)	5	U (Re-appearance)	0	SA (Shortage of Attendance)	0	W (Withdrawal)	0	O	A+	A	B+	B	C	U	81-100	71-80	61-70	51-60	46-50	40-45	<40
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14	<p>GPA AND CGPA CALCULATION</p> <p>Grade sheet After results are declared, Grade Sheets will be issued to each student which will contain the following details:</p> <ul style="list-style-type: none"> • The college in which the candidate has studied • The list of courses enrolled during the semester and the grade scored. • The Grade Point Average (GPA) for the semester and • The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards. <p>GPA 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.</p> <p>CGPA will be calculated in a similar manner, considering all the courses registered from first semester. RA grades will be excluded for calculating GPA and CGPA.</p> $GPA/CGPA = \frac{\sum_{i=1}^n C_i GP_i}{\sum_{i=1}^n C_i}$ <p>where</p> <p>C_i is the number of Credits assigned to the course</p> <p>GP_i is the point corresponding to the grade obtained for each course</p> <p>n is number of all courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.</p> <p>CGPA will be calculated in a similar manner, considering all the courses enrolled from first semester. “U” and “SA” grades will be excluded for calculating GPA and CGPA.</p>
15	ELIGIBILITY FOR THE AWARD OF THE DEGREE
15.1	<p>A student shall be declared to be eligible for the award of the PG Degree provided the student has</p> <ol style="list-style-type: none"> Successfully gained the required number of total credits as specified in the curriculum corresponding to the student’s programme within the stipulated time. Successfully completed the course requirements, appeared for the End Semester examinations and passed all the subjects prescribed in all the 4 semesters within a maximum period of 4 years reckoned from the commencement of the first semester to which the candidate was admitted. No disciplinary action pending against the student. The award of Degree must have been approved by the Academic council.
15.2	CLASSIFICATION OF THE DEGREE AWARDED
15.2.1	<p>FIRST CLASS WITH DISTINCTION</p> <p>A student who satisfies the following conditions shall be declared to have passed the</p>

	<p>examination in First class with Distinction:</p> <ul style="list-style-type: none"> • Should have passed the examination in all the courses of all the four semesters in the student's First Appearance within three years, which includes authorised break of study of one year (if availed). Withdrawal from examination will not be considered as an appearance. • Should have secured a CGPA of not less than 8.50. • Should NOT have been prevented from writing end Semester examination due to lack of attendance in any of the courses.
15.2.2	FIRST CLASS
	<p>A student who satisfies the following conditions shall be declared to have passed the examination in First class:</p> <ul style="list-style-type: none"> • Should have passed the examination in all the courses of all four semesters within three years, which includes one year of authorized break of study (if availed) or prevention from writing the End Semester Examination due to lack of attendance (if applicable). • Should have secured a CGPA of not less than 6.50
15.2.3	SECOND CLASS
	<p>All other students (not covered in clauses 15.2.1 and 15.2.2) who qualify for the award of the degree (vide Clause 15.1) shall be declared to have passed the examination in Second Class.</p>
15.2.4	<p>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 (except approved withdrawal from end semester examinations as per clause 16) for the purpose of classification.</p>
16	PROVISION FOR WITHDRAWAL FROM EXAMINATION
16.1	<p>A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Chairman, sports board and HOD) be granted permission to withdraw from appearing for the end semester examination in any course or courses in ANY ONE of the semester examinations during the entire duration of the degree programme. The application shall be sent to Head of the Institution through HOD with required documents.</p>
16.2	<p>Withdrawal application shall be valid only if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN working days before the commencement of the end semester examination in that course or courses and also recommended by the Head of the Department.</p>
16.3	<p>Notwithstanding the requirement of mandatory TEN working days' notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.</p>

16.4	If a student withdraws a course or courses from writing end semester examinations, he/she shall register the same in the subsequent semester and write the end semester examination(s).
16.5	Withdrawal shall not be considered as an appearance for deciding the eligibility of a student for First Class with Distinction.
16.6	Withdrawal is permitted for the end semester examinations in the final semester only if the period of study of the student concerned does not exceed 3 years as per clause 15.2.1.
17	BREAK OF STUDY FROM A PROGRAMME
17.1	A student is permitted to go on break of study for a fixed period of one year as a single break in the entire course of study.
17.2	The student applies for break of study, the student shall apply to the Head of the institution in advance, in any case, not later than the last date of the first assessment period. The application duly filled by the student shall be submitted through the Head of the Department.
17.3	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 Head of the institution in the prescribed format through Head of the Department at the beginning of the readmitted semester itself for prescribing additional/equivalent courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
17.4	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 5.1 irrespective of the period of break of study in order that the student may be eligible for the award of the degree (vide clause 15).
17.5	In case there is any period of break of study more than the permitted duration of break of study, the student shall be permitted to continue the programme only if the approval is obtained from the Head of the institution through the concerned Head of the Department before the end of the semester in which the student has taken break of study.
17.6	If a student has not reported to the department for a period of two consecutive semesters without any intimation, the name of the student shall be deleted permanently from the college enrollment. Such students are not entitled to seek readmission under any circumstances.
18	DISCIPLINE
18.1	Every student is required to observe disciplined 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 University / College. The Head of Institution shall constitute a disciplinary committee consisting of one Head of Department and other senior faculty

	from the faculty of the student, to enquire into acts of indiscipline and notify the head of institution about the disciplinary action recommended for approval.
18.2	If a student indulges in malpractice in any of the semester or internal examination, he / she shall be liable for punitive action as prescribed by the Institution from time to time.
19	<p>RANK OF A STUDENT</p> <p>A Candidate who qualifies for the Degree by passing the examination in all courses of the entire Programme in first attempt within a period of Two consecutive academic years can be given his/her position in the class as rank. The Rank is determined through CGPA of semester end examination from I Semester to IV Semester. Students transferred from other institutions to Velammal Engineering College are not eligible for rank and students with history of arrears during the entire programme are not eligible for rank. The candidate who secures first position in the examination based on CGPA in corresponding programme will be given a rank certificate.</p>
20	REVISION OF REGULATIONS, CURRICULUM AND SYLLABI
	The institution may from time-to-time revise, amend or change the Regulations, Curriculum, Syllabi and scheme of examinations through the Academic Council