



**VINAYAKA MISSION'S  
RESEARCH FOUNDATION**

(Deemed to be University under section 3 of the UGC Act 1956)



# **VINAYAKA MISSION'S RESEARCH FOUNDATION**

**(Deemed to be University under Section 3 of UGC Act, 1956), SALEM, INDIA.**

# **REGULATIONS 2024**

## **CHOICE BASED CREDIT SYSTEM (CBCS)**

**(FOR THE STUDENTS ADMITTED FROM 2024-25  
ONWARDS)**

**MASTER OF ENGINEERING / TECHNOLOGY  
(M.E./M.Tech.)**

**Regular Degree Programme for  
Working Professionals**

**Under  
FACULTY OF ENGINEERING AND TECHNOLOGY**

# **VINAYAKA MISSION'S RESEARCH FOUNDATION**

**(Deemed to be University under Section 3 of UGC Act, 1956)**  
**SALEM, INDIA.**

## **MASTER OF ENGINEERING/ TECHNOLOGY (M.E./M.Tech) REGULAR DEGREE PROGRAMME FOR WORKING PROFESSIONALS**

**UNDER**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**REGULATIONS 2024**

**(FOR THE STUDENTS ADMITTED FROM 2024-25 ONWARDS)**

In exercise of the powers conferred by the Revised Memorandum of Association rules of the Vinayaka Mission's Research Foundation, Deemed to be University Salem, the Board of Management of the University hereby issues the following Regulations pertaining to the Postgraduate Programme and award of the degree of Master of Engineering / Master of Technology (M.E. /M.Tech.) at this University.

### **1. TITLE AND COMMENCEMENT**

These revised regulations shall be called "REGULATIONS FOR MASTER OF ENGINEERING / MASTER OF TECHNOLOGY (M.E./M.Tech) – REGULAR DEGREE PROGRAMME FOR WORKING PROFESSIONALS (R2024). These Revised Regulations come into force with effect from the Academic Year 2024-2025 and are subject to modifications which may be approved by the apex bodies of the University from time to time.

### **2. PREAMBLE**

The Regular Degree Programme of Master of Engineering / Master of Technology (M.E./M.Tech) for working professionals in Faculty of Engineering and Technology shall be awarded to a Candidate who, as per these Regulations, has successfully undergone the Programme, passed the prescribed Examinations and thereby qualified to receive the Degree.

### **3. DEFINITIONS AND NOMENCLATURE**

In the Regulations, unless the context otherwise requires, certain terms used in the form of abbreviation and their meanings are as under.

3.1	AC	Academic Council, the highest academic body of the University, headed by the Vice Chancellor.
3.2	AB	Absent
3.3	AICTE	All India Council for Technical Education, New Delhi.
3.4	M.E / M.Tech.	Master of Engineering/Master of Technology
3.5	BoM	Board of the Management- the highest governing body of the University.
3.6	BoS	Board of Studies of the University under the Faculty of Engineering and Technology.
3.7	Specialization	Discipline of M.E/M.Tech. Degree Programme, such as Embedded Systems Technology, Construction Engineering & Management, Power Systems Engineering , Manufacturing Engineering etc.
3.8	CBCS	Choice Based Credit System
3.9	CO	Course Outcomes
3.10	CoE	Controller of Examinations of the University.
3.11	Course	Subject of study offered by various departments.
3.12	Credit	Course work measured in units, based on hours conducted/week and content of course. 01 Hour Lecture/Tutorial and 02 Hour Practical per Week is equivalent to 01 Credit.
3.13	Curriculum and Syllabus	Courses studied in each Programme that provides appropriate knowledge in the chosen branch. The Curriculum and Syllabus for study is as prescribed by the Board of Studies (BoS) with the approval of the concerned Academic Council (AC) based on the UGC / AICTE Regulations.
3.14	Dean	Dean for the Faculty of Engineering and Technology of the University.
3.15	EA	External Assessment
3.16	HoD	Head of the Department of the Institution.
3.17	HoI	Head of the Institution or Principal of the Constituent Engineering College of the University.
3.18	Institution	Constituent Engineering College of the University.
3.19	IA	Internal Assessment
3.20	MoE	Ministry of Education.

3.21	MOOCs	Massive Open Online Courses
3.22	NCC	National Cadet Corps
3.23	NPTEL	National Programme on Technology Enhanced Learning
3.24	NSS	National Service Scheme
3.25	OBE	Outcome Based Education
3.26	PG	Post Graduate
3.27	PO	Programme Outcomes
3.28	Programme	Under Graduate Programme leading to the award of Degree B.E. approved by UGC, AICTE and University.
3.29	PSO	Programme Specific Outcomes
3.30	RRC	Red Ribbon Club of the Institution.
3.31	RA	Reappear
3.32	SWAYAM	Study Webs of Active Learning for Young Aspiring Minds is a Programme of the MHRD, Government of India.
3.33	Teacher	Professors, Associate Professors, Assistant Professors, Pro-term Lecturers and other persons engaged in teaching of the Students and assisting the Students in the conduct of studies and Research in the College/University.
3.34	UGC	University Grants Commission.
3.35	VMRF	Vinayaka Mission's Research Foundation, Deemed to be University, Salem, Tamil Nadu, India.
3.36	VC	Vice - Chancellor of the University.
3.37	YRC	Youth Red Cross of the Institution.

#### **4. DURATION OF THE PROGRAMME**

The normal duration of the M.E. /M. Tech. Programme, including the Project Work shall be two years (four semesters).

##### **4.1 EXTENDED DURATION OF THE PROGRAMME**

The candidates who fail to complete the year-wise programme as mentioned in clause 9 would be permitted to complete the programme within a period of 4 years (8 semesters). Those who fail to complete within the extended period shall be discharged from the course.

#### **5. MEDIUM OF INSTRUCTION**

The Medium of instruction for Lectures, Examinations and Project work is English, except for Language courses other than English.

## **6. FEE STRUCTURE**

The Fee Structure for the Programmes shall be fixed by the Committee constituted for this purpose by the VMRF from time to time.

## **7. ADMISSION ELIGIBILITY**

Candidates who have been awarded or qualified for the award of the Bachelor's degree in Engineering / Technology, from an Institution approved by AICTE are eligible for admission to the M.E. / M.Tech. Programme. Eligibility of Candidates will be decided from time to time by following the Guidelines issued by All India Council for Technical Education (AICTE). Sponsored candidates from Industries, R&D organizations, National Laboratories as well as Educational Institutions, with a Bachelor's Degree in Engineering are eligible for admission to the M.E. /M. Tech. Programme. The number of Candidates to be admitted to each M.E. / M.Tech. Stream will be based on approval received from the AICTE. Admission will be complete only on meeting all the other requirements mentioned in the letter of admission and on payment of the fees. Candidates who have the Associate Membership of Professional Bodies that are approved by the University and have qualified in GATE shall also be eligible for admission to the M.E/M.Tech. Programme.

## **8. PROGRAMMES OFFERED**

The Regular Degree programme for working professionals offered by the VMRF in Faculty of Engineering and Technology are as mentioned below and are subjected to addition or removal of the Programmes depending on the decision taken by BoS and further approval of VC.

### **PROGRAMMES OF STUDY –** **M.E. / M.Tech REGULAR DEGREE PROGRAMME FOR WORKING PROFESSIONALS**

<b>Sl. No.</b>	<b>PG Degree</b>	<b>Programme</b>
1	M.Tech.	BIOTECHNOLOGY
2	M.E.	COMPUTER SCIENCE AND ENGINEERING
3	M.E.	CONSTRUCTION ENGINEERNG AND MANAGEMENT
4	M.E.	EMBEDDED SYSTEMS TECHNOLOGIES
5	M.E.	MANUFACTURING ENGINEERING
6	M.E.	POWER SYSTEMS ENGINEERING

## **9. MODE AND TIMINGS FOR CONDUCT OF CLASSES:**

As per the AICTE guidelines for working professionals with effect from Academic year 2024 – 25 as per Annexure - I.

## **10. SELECTION OF STUDENTS**

Guidelines issued from time to time for selection of Students for admission in Constituent Colleges of the VMRF are followed for admitting eligible Students in various UG Programmes. Applications received are checked for completeness and a Merit list based on the Marks obtained in Qualifying Examination is prepared. The students are admitted as per the Merit List.

## **11. REGISTRATION**

A Candidate admitted in the Post Graduate Programme in the constituent Engineering Colleges of the University shall register with the University by remitting the prescribed Fees along with the application form for registration duly filled in and forwarded to the Controller of Examinations of this University through the Head of the Institutions within the stipulated date. The name of the Candidate must be registered in the University within Three months from the date of admission. If the candidate fails to satisfy the requirements, the admission of the Candidate stands cancelled.

## **12. COMMENCEMENT OF THE COURSE**

The Academic Year for the courses shall commence in the month of July every year except First Year. The First-Year classes shall commence in the month of August or as decided by the regulatory bodies and the University.

## **13. WORKING DAYS IN A SEMESTER**

Each semester normally consists of 90 Working Days inclusive of End Semester Theory & Practical Examinations and 75 Teaching Days.

## **14. BREAK OF STUDY**

Break of Study may be permitted for genuine reasons like serious Health problems and calamitous family situations. The Vice Chancellor is vested with the power to permit the break for which the Candidate must apply in the prescribed form enclosing necessary supporting documents and Fees through his/her HoI, sufficiently ahead of the proposed period of break. A Break of Study may cast for a period of 6 to 12 Months. If a Student does not have a minimum of 75 % attendance in at least 3 or more courses in the previous Semester will not be allowed to enroll for current Semester and has to undergo a year of break in studies.

The period of Break of Study of the candidate for rejoining the course shall be calculated from the date of commencement of the discontinuance of the course. A maximum of One Year (two spells having Six Months duration each) of break of study for PG degree courses will be allowed for the entire duration of the Course. Any further break of study shall entail the Candidate to be de-registered and his/her admission will stand cancelled. A Candidate having a break of more than 12 Months for PG Degree course, the course of study shall be extended by that period and the Candidate is permitted to appear for the Examination only after completing this Extension period. The Candidate shall apply to the University through his/her HoI for the extension using the prescribed form and fees. The duration specified for passing all the courses for the purpose of awarding Degree as per Clause 4 shall be increased by the period of such break of study permitted. If a Student is detained for want of requisite attendance, progress and good conduct, the period spent in that semester shall not be considered as permitted Break of Study.

## **15. DISCONTINUATION / READMISSION**

For PG degree courses the Candidate having availed a break of study between 6 and 12 Months shall apply for rejoining the course by remitting the stipulated fee for condonation of Break of Study to the through the Principal of the concerned College for issue of necessary permission to rejoin the course. The concerned Principal of the College shall not permit any candidate with a Break of Study as stipulated above to rejoin the course without obtaining the prior permission from the authorities of the University. Any Break of Study beyond Two Years is considered as discontinuation of Study. This is applicable for all the years of study of the Post Graduate Degree courses. However, in exceptional cases, if a Candidate having a break of study beyond Two years and the break of study is in Six Months one spell, the Board of Management, may, on the recommendation of the Vice Chancellor, permit the Candidate to rejoin the Course from the beginning of the Year. The Candidate shall be permitted to rejoin at the beginning of the First year of the course (i.e.) the candidate has to Re-Do the Course from the beginning and shall after fulfillment of the Regulations this University to the Course concerned be admitted to the Examinations. The Candidate shall not be exempted in the Subjects already passed.

### **15.1 READMISSION AFTER EXTENSION**

If the Candidates name is not registered with the University within Three Months from the cutoff date prescribed for the respective courses for Admission without any valid reasons / ground for such non-registration, permission for re-admission for such Candidates will not be issued by the University.

## 16. PROGRAM STRUCTURE

### Curriculum

The Curriculum and the Syllabus for the Course pertaining to the M.E. / M.Tech. Programme shall be prescribed by the Academic Council based on the recommendation of concerned BoS. The M.E./M.Tech. Programme in all streams of Specialization will be structured on a Credit based system following the Semester pattern with continuous evaluation. Every stream of Specialization in the M.E. /M.Tech. Programme will have a Curriculum and Syllabi for the courses. The Curriculum should be so drawn up that the number of Credits for successful completion of the M.E/M.Tech. Programme in any stream of specialization is 75. All Subjects/Courses are to be registered by the Student in a Semester to earn Credits which shall be assigned to each Subject/Course in an L: T: P: C (Lecture Periods: Tutorial Periods: Practical Periods: Credits) structure based on the following general pattern:

### Definition of Credit:

1 Hour Lecture (L) per week	1 Credit
1 Hour Tutorial (T) per week	1 Credit
2 Hours Practical (Lab) per week	1 Credit

Other Student activities like Study Tour, Guest Lecture, Conference/Workshop participations, Technical Paper Presentations, and identified Mandatory courses, if any, will not carry Credits.

### **STRUCTURE OF POSTGRADUATE ENGINEERING PROGRAM FOR WORKING PROFESSIONALS**

Sl. No.	Category of Courses	Types of Courses	Suggested Breakup of Credits
1.	<b>A. Foundation Courses (FC)</b>		
		Mathematics / Applied Mathematics	3
		Research Methodology and IPR	2
2	<b>B. Program Core Courses (PCC)</b>		32
3	<b>C. Elective Courses (EC)</b>		
		Professional Electives	15
		Open Electives (Courses on Emerging Areas)	3
4	<b>D. Employability Enhancement Courses and courses for presentation</b>		

	<b>of Technical skills related to the specialization</b>	
	Project Work Phase I	06
	Project Work Phase II	12
	Research Internship	1
	Technical seminar	1
<b>5</b>	<b>E. Mandatory Courses/Audit Courses</b>  Any two courses on: 1. English for Research Paper Writing 2. Disaster Mitigation and Management 3. Value Education 4. Constitution of India 5. Pedagogy Studies 6. Personality Development Through Life Enlighten Skills	Zero Credit
	<b>Minimum Credits to be earned</b>	<b>75</b>

## 17. Components of Curriculum

### 17.1 Category A - Foundation Courses (FC)

The courses in this category belong to Mathematics and research. The credits earned in this category will be used for overall CGPA calculation.

### 17.2 Category B – Program Core Courses

The courses related to the programme are called core courses and the same has to be selected by the students in every semester in consultation and guidance of their mentor / faculty advisor. A student may opt for core courses offered through MOOCs (Massive Open Online Courses), SWAYAM, NPTEL etc. and the credits earned after successful completion of the courses will be recommended by HoI for transfer of credits and endorsement in marks statement. The credits earned in this category will be used for overall CGPA calculation.

### 17.3 Category C - Elective Courses (EC)

#### 17.3.1 Program Elective Courses relevant to chosen specialization

Program Electives are Courses which are not offered under Program Core Courses. These Courses may not have any Prerequisites and can be chosen as and when required by the Students. A Student may opt for Program Elective courses offered through MOOCs (Massive Open Online Courses), SWAYAM, NPTEL etc. and the Credits earned after successful completion of the Courses will be recommended by HoI for transfer of credits and endorsement in Marks statement. The Credits earned in this category will be used for overall CGPA calculation.

### **17.3.2 Open Electives**

#### **Courses on Emerging Areas**

The Courses offered in this Category include courses on Emerging areas which are 3D Printing, Artificial Intelligence, Internet of Things etc. These Courses do not have any Prerequisite condition and can be chosen as and when desired by the Students. A Student may opt for Open Elective courses offered through MOOCs (Massive Open Online Courses), SWAYAM, NPTEL etc. and the Credits earned after successful completion of the Courses will be recommended by HoI for Credit transfer and endorsement in Marks Statement. The Credits earned in this category will be used for overall CGPA calculation.

### **17.4 Category D – Employability Enhancement Courses and Technical Seminar related to the Specialization**

#### **17.4.1 Project Work**

The Student must represent his earned knowledge in the Engineering Programme by doing a quality Project in his/her last Semester of the Programme of study. The Project work for M.E./M.Tech. Consists of Phase-I and Phase-II. The Phase - I is to be undertaken during V Semester and Phase-II, which is a continuation of Phase-I is to be undertaken during VI Semester. This Project Work should be done under the regular guidance of Faculty Supervisor. In case of an Industry Sponsored Project, a Co-Supervisor from the Industry will also be involved and there should be a regular interaction between the Student and Supervisor and the Proceedings should be recorded periodically. Once in a month the Student must report to the Faculty Supervisor with attendance report from Co-Supervisor and present progress and latest status of his/her project with the help of a Power Point presentation in presence of HoD. The Progress and Presentations in the Semesters will be used for Internal Evaluation and giving Internal Assessment Marks and End Semester Examination will be used for External Assessment Marks. The Credits earned in this category will be used for overall CGPA calculation.

#### **17.4.2 Research Internship**

The Research Internship component of the Postgraduate (PG) Engineering Degree is designed to provide students with hands-on experience in their field of study, allowing them to apply theoretical knowledge to practical, real-world problems. It is mandatory for every student to undergo Research Internship in any Research Centres. Minimum one week of Internship will be considered as eligible for awarding one credit in this category. Students should submit the offer letter received from the Research Centres providing Internship, along with self-declaration, to the Principal for approval through proper channel in the prescribed proforma. Internships can be

undertaken at academic institutions, research laboratories, industry R&D departments, or other relevant organizations. The Research Centres offering Internship will have to be verified by the Institution's Research Committee. The Internship request shall be submitted at least one month prior to the commencement of the respective semester, in which he/she is proceeding for Internship. Each student will be assigned an academic supervisor from the home institution to oversee their progress and ensure academic objectives are met.

At the end of the internship, a comprehensive report must be submitted, including a detailed description of the research undertaken, methodologies used, results obtained, and conclusions drawn. While doing Internship, the candidate should secure a minimum 90% attendance. Research Centre shall submit the attendance report of the students to the head of the respective department. After completion of Internship, students are required to submit the report of work done along with the certificate of completion. The Department Internship coordinator shall verify the eligibility conditions, attendance records; academic records, progress reports, Internship certificate and stipend proof of such students undergoing Internship (if applicable) and submit to authorities concerned for further processing absent without the authorization of the Internship supervisor / College. The credits earned in this category will be used for overall CGPA calculation. HoD on recommendation of the committee constituted for evaluation will be submitting the evaluation scores to the COE office through the HoI. The final semester project in research organization will not be considered as Research internship for earning credits in this category.

#### **17.4.3 Technical seminar**

In order to develop Research Aptitude, the Student may be encouraged to read and understand Research Papers published in Indexed Journals, Patents etc. and present in front of a Committee constituted by HoD for evaluation and assessment. In a Semester, Minimum 03 Presentations on research have to be organized and Internal Assessment Marks will be awarded on the basis of performance in Best 02 (Two) of the 03 (Three) Presentations and External Assessment Marks will be awarded on the basis of performance in the Final 4th presentation to be done during End Semester Practical Examinations. Besides this it is mandatory for the student to present Technical Papers in one National or International Conference. Record of presentations and certificate should be maintained by the Faculty In-charge. The Credits earned in this category will be used for overall CGPA calculation.

### **17.5 Category E – Mandatory / Audit Zero Credit Courses**

The courses under this category do not have any credit and will not be included for CGPA

calculations. Courses like English for Research Paper Writing; Disaster Mitigation and Management; Value Education ; Constitution of India; Pedagogy Studies; Personality Development Through Life Enlighten Skills,etc.,are included under this. The student should complete a minimum of two courses under this category.

## **18. BLENDED MODE OF LEARNING & ADOPTION OF SWAYAM COURSES**

Students are allowed to take a **maximum of 40% of the** total number of credits of 75 to be earned as per the curriculum, which are offered through MOOCs like NPTEL/SWAYAM.

The credits earned should be transferred in mark sheet on successful completion of the courses and recommendations by the Transfer of Credit (ToC) committee constituted for this purpose. The credits earned for the courses completed through MOOC like NPTEL/SWAYAM will be used for overall CGPA calculation. Scores of the MOOC courses completed by the students on permitted platforms are valid till 1 year. Please refer Annexure – II for the Standard operating procedure.

Over and above the maximum limit of 40% of the total number of credits of 75, the students if interested can take any number of courses offered through MOOCs like NPTEL/SWAYAM. Credits earned on successful completion of these courses will not be transferred in mark sheet and will not be used for overall CGPA calculation.

## **19. COURSE REGISTRATION IN A SEMESTER**

**19.1** The Students will register courses to be studied in a Semester (Even / Odd) in their Department in First Week of commencement of Semester or whenever it is asked for. The selection of Courses should satisfy the minimum Credit requirement for each category of Courses. This may also be discussed during First Class Committee meeting in presence of Mentor and allotted Mentee. Faculty Advisor of the Class may also assist in planning and selection of the courses for registration in the Semester.

**19.2** In a Semester, a Student can register new courses for minimum 12 Credits and maximum 25 Credits as well as Online classes (in case of Blended mode of learning) except in Final Semester. Registration of courses will not include courses registered in NPTEL/SWAYAM.

The criteria for registration of courses for minimum 12 Credits will not be applicable for those students who are having less than 12 Credits to be earned for awarding of Degree. In such cases, the Students will be allowed to register for the remaining courses for less than 12 Credits. The limit of Maximum 25 Credits will not include courses of

Reappearance i.e. Courses could not be completed successfully in previous Semesters.

The Students can register any number of courses for Reappearance.

**19.3** The Students are at liberty to drop the course of Reappearance and can choose a new Course. The Student has to attend the Classes of the new Course and has to satisfy the requirement of Internal as well as External assessment.

## **20. ASSESSMENT**

### **20.1 Learning Assessment Procedure**

All Assessments are designed based on Revised Bloom's Taxonomy levels of Thinking and Learning. The Learning of a Student is assessed and evaluated twice in an academic year at the end of Odd /Even semester respectively, and shall have learning assessments from the following perspectives with respect to all courses:

- (a) Evaluation with respect to Knowledge.
- (b) Evaluation with respect to Understanding.
- (c) Evaluation with respect to Skill.
- (d) Evaluation with respect to Applications
- (e) Higher Order Thinking Skills Registration for end-semester final examination for all courses enrolled in that Semester is mandatory.

The Student's learning in each Course, in general, is Assessed (Formative) and Evaluated (Summative) based on In-Semester Continuous Learning Assessment (Internal Assessment) and End-Semester Final Examination.

### **20.2 Internal Assessment (IA)**

60% Weightage of the total marks will be used for Internal Assessment of the Students by the Faculty in Charge / Course handler in theory as well as Practical Courses. An In-Semester Continuous Learning Assessment (also known as Internal Assessment Test) is spread through the duration of Course and is done by the Faculty Member facilitating the Course. The Internal Assessment Marks will be calculated based on the following guidelines.

<b>S. No.</b>	<b>Description</b>	<b>Marks</b>
01	Internal Assessment Test - 01 & 02 and Model Exam (10 Marks each)	30
02	Seminar/Technical Quiz	20
03	Assignment/Project	10
<b>Total Marks</b>		<b>60</b>

### **20.3 External Assessment (EA)**

40% Weightage of the total marks will be used for External assessment of the Students and it will be mandatory for the Student to appear in the Exam. The Examination may be conducted Online/Offline depending on the prevailing situation.

### **20.4 Eligibility for End Semester Examinations**

The Student maintaining minimum 75% attendance percentage in each Course will only be eligible for appearing in Internal as well as External Assessment Tests/Examinations. In exceptional Emergency cases, HoI may permit the Students with attendance percentage 65% and above but below 75% to appear in the Tests/Examinations with Condonation fee as decided by the Fee Fixation Committee of the University.

**20.4.1. Compensatory Courses:** The system of compensatory courses is meant only for those students who are unable to cope up with the academic vigor and hence fails to secure 75% attendance in 1 or 2 courses in a semester. Students can register those courses under Compensatory Courses in the forthcoming semesters subject to the following conditions:

- i. Compensatory courses are conducted only for a student who is 'Detained from Study' due to lack of attendance of 75% minimum in 1 or 2 Courses.
- ii. Compensatory courses may be announced after the publication of results, by the respective Department, by the HODs, with the approval of the Principal.
- iii. Student has to register for the Compensatory Course and pay the prescribed fee for the Compensatory Courses within the specified time limit. A maximum of two Compensatory Courses alone will be permitted to be registered by a student during the semester next to the semester of detainment.
- iv. Withdrawal from Compensatory courses is not permitted.
- v. These Compensatory courses will be held either during weekends or in evenings.
- vi. A student has to obtain a minimum of 75% attendance in each of these courses.
- vii. A student has to score the minimum passing criterion to be declared 'Pass' in that course.
- viii. Students cannot demand a compensatory course for a course in any semester as a matter of right. Compensatory courses will be conducted subject to availability of faculty, class rooms and logistics.
- ix. Students who have done a Compensatory Course will not be considered for rank, medal or distinction.

## **21. PASSING REQUIREMENTS – THEORY AND PRACTICAL COURSES**

A Candidate securing not less than 50% of Total marks (IA + EA) prescribed for the Course in both Theory and Practical courses will be declared to have passed the Examination. A minimum a 40% need to be scored in both IA and EA for Passing.

For Lab Embedded Theory Courses Student should compulsorily appear for both Theory and Practical Examination and secure a total of 50% to pass the Examination. If a Student fails to meet the minimum passing requirement, he/she need to reappear for the course (Theory and Practice).

## **22. ELIGIBILITY FOR AWARD OF DEGREE**

A Student shall be declared to be eligible for the award of the M.E / M.Tech. Degree if she has

- a) Registered and successfully completed the courses and has earned the minimum Credit requirements for the respective Engineering Programme.
- b) Successfully acquired the required learning Credits as specified in the Curriculum corresponding to the Branch of his/her Study within the stipulated time duration.
- c) No disciplinary action is pending against him/her.

## **23. CLASSIFICATION OF PERFORMANCE**

Classification of Performance of Students in the Examinations pertaining to the Courses in a Programme is done on the basis of numerical value of Cumulative Grade Point Average (CGPA). The concept of CGPA is based on Marks, Credits, Grade and Grade points assigned.

### **23.1 Mapping of Marks to Grades**

Each Course (Theory/Practical) is to be assigned 100 Marks, irrespective of the number of Credits, and the mapping of marks to Grades may be done as given in the following table.

<b>Assigned Grade</b>	<b>Grade Points(GP)</b>	<b>Range of Marks</b>
O++	10	95-100
O+	9.5	90-94
O	9	85-89
A++	8.5	80-84
A+	8	70-79
A	7	60-69

B+	6	55-59
B	5.5	51-54
C	5	40-50
	ABSENT (Failure due to nonappearance in Examination)	
U	REAPPEAR (Failure due to insufficient marks in the course)	

### 23.2 Semester Grade Point Average (SGPA)

Each student is assigned a Semester Grade Point Average (SGPA) on completion and declaration of result of a Semester.

$$SGPA = \frac{\sum (C_i * G_i)}{\sum C_i}$$

where  $C_i$  is the credit for a Course in that semester and  $G_i$  is the Grade Point earned by the Student for that Course. The SGPA is rounded off to two decimal numbers and calculated on all courses appeared including Courses in which 'RA' grade is obtained.

### 23.3 Cumulative Grade Point Average(CGPA)

The overall performance of a Student at any stage of the Degree Programme is evaluated by the Cumulative Grade Point Average (CGPA) up to that point of time and is calculated on the Courses which are successfully completed.

$$CGPA = \sum_j \left\{ \frac{\sum_i (C_{ij} * G_{ij})}{\sum_i C_{ij}} \right\}$$

## 24. CLASSIFICATION OF SUCCESSFUL CANDIDATES FOR AWARD OF DEGREE

### 24.1 First Class with Distinction

**24.1.1** A Student who qualifies for the award of Degree and passed the Examination in all registered Courses in his / her first appearance within Two Years and securing a CGPA of not less than 8.00 shall be declared to have passed in First Class with Distinction.

**24.1.2** A Student who qualifies for the award of Degree and passed the Examination in all registered Courses in his / her first appearance within Three years including the authorized Break of Study of One Year and securing a CGPA of not less than 8.00 shall be declared to have passed in First Class with Distinction.

## **24.2 First Class**

**24.2.1** A Student who qualifies for the award of Degree and passed the Examination in all registered Courses within Two Years and securing a CGPA of not less than 6.5 shall be declared to have passed in First class.

**24.2.2** A Student who qualifies for the award of Degree and passed the Examination in all registered Courses within Three years including the authorized Break of Study of One Year and securing a CGPA of not less than 6.5 shall be declared to have passed in First Class.

## **24.3 Second Class**

All other Students not covered above and who qualifies for the award of M.E. / M.Tech. Degree and passed the Examination in all the registered Courses shall be declared to have passed in Second Class.

## **25. RANKING**

Students obtaining top 3 Positions in CGPA ranking in a Programme at the University level will be considered as a Rank Holder. They should have passed all the prescribed Courses in the First appearance and should have obtained a CGPA of 8.0 and above. The Student should also have a clean record of discipline during the period of study and without break of studies. Special Certificates will be given to Rank Holders.

## **26. MODIFICATIONS OF REGULATIONS**

These Regulations are subject to modifications from time to time as per the decisions of the apex bodies of the University.

**ANNEXURE -I**  
**GUIDELINES FOR WORKING PROFESSIONALS**



**Approval Process 2024-25**

**Guidelines for Working Professionals  
(Engineering & Technology)**

**Guidelines for Working Professionals in AICTE Approved Institutions  
for Diploma, UG and PG Courses in Engineering & Technology  
(w.e.f. A/Y 2024-25)**

AICTE Approved Institutes fulfilling the criteria mentioned below are eligible to run Diploma, UG (B.E/B.Tech) and PG (M.E /M. Tech) Courses from the A/Y 2024-25 for working Professionals ONLY in the approved disciplines/Courses. As per the Provisions of the Approval Process Handbook 2024-25 to 2026-27 following guidelines are applicable to run the courses w.e.f. A/Y 2024-25 ONLY with the Approval of AICTE.

<b>1. Eligibility Criteria for the Institutes for Obtaining AICTE Approval</b>		
Institutions having more than 80% average enrollment in last 3 years (Enrollment of First Year Only shall be considered (Lateral Entry Admission shall not be considered) for calculating Average Enrolment. (OR) Institutions operating in Aspirational Districts (as per the latest list notified by NITI Aayog). (OR) Institutions belonging to Jammu, Kashmir and Leh/ Ladakh and NER States.		
<b>2. Courses &amp; Intake</b>		
i	Number of Permitted Courses	Maximum Three Courses per Institute/Level
ii	Permitted Intake per Course	15/30 (PG-Level Course) 30/60 (Diploma/UG Level Course) (Supernumerary in nature)
ii	Minimum Admission Required to Run the Course	1/3 of the Approved Intake in each course
<b>3. Eligibility for Admission</b>		
i	Professionals working in Registered Industry / Organization (Central / State) / Private/ Public Limited Company/ MSMEs located within 50 KM radial distance from the Institute.	
ii	Minimum of ONE Year Full time / Regular working Experience	
iii	Qualification Same as candidates eligible for Lateral Entry to Second Year (As Specified in Approval Process Handbook published by AICTE from time to time)	



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<b>4.</b>	<b>Duration of the Course</b>
i	<b>Diploma Level:</b> Same as Lateral Entry to Second Year with a total course duration NOT less than TWO years and shall fulfill the total contact hours as prescribed by the Affiliating Body/Board/University for completion of duration of the course. (or) Same as Lateral Entry to Second Year with at least minimum of one semester extra to fulfill the total contact hours as prescribed by the Affiliating Body/Board/University for completion of duration of the course.
ii	<b>Under Graduate Level:</b> Same as Lateral Entry to Second Year with a total course duration NOT less than THREE years and shall fulfill the total contact hours as prescribed by the Affiliating University for completion of duration of the course. (or) Same as Lateral Entry to Second Year with at least minimum of one semester extra to fulfill the total contact hours as prescribed by the Affiliating University for completion of duration of the course.
iii	<b>Post Graduate Level:</b> Total course duration NOT less than TWO years and shall fulfill the total contact hours as prescribed by the Affiliating University for completion of duration of the course.
iv	Timings for conduct of classes normally shall be in the evening hours/any flexible convenient timings in alignment with timings of Industry / Organization.
v	Mode of Conduct of Classes shall be as applicable for Regular Programs as defined in the AICTE Public Notice Vide. No. AICTE/AB/Academic/2020-21, dated 13th August, 2020 (In Regular Face to Face Mode).
<b>05</b>	<b>Academic Requirements</b>
i	Total Credits as specified in the AICTE Model Curriculum (or) Affiliating University are required to be earned for getting the Degree
ii	Syllabus shall be same as applicable to regular students.
iii	As per the AICTE Regulation up to 40% of credit transfer is permitted through MOOCs / SWAYAM. However for Diploma level institutes, other MOOCs platform similar to NPTEL/SWAYAM recognised by State/Central Government may also be considered.
iv	Examination shall be same as the regular students.



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<b>06</b>	<b>Faculty &amp; Staff Requirement</b>
i	As per the prevailing AICTE Norms. Existing Faculty in the Institute / Industry Experts with requisite qualification as per AICTE Norms are permitted with additional remuneration / honorarium as per the Affiliating University / State Government / Institute Norms.
ii	Existing staff (Technical / Supporting) are permitted with additional remuneration / honorarium as per the Affiliating University / State Government Norms.
<b>07</b>	<b>Infrastructure Requirements</b>
	Existing Infrastructure can be used. No additional Infrastructure is Required.
<b>08</b>	<b>Mode of Admission or Admission Policy</b>
i	As per the University /State Admission Policy. In absence of any such Admission Policy, Institute can devise transparent mechanism for short listing the eligible candidates in a highly transparent manner based on Merit of the Qualifying Examination.
ii	Reservation Policy of the respective State/UT is applicable. However, One Seat in Every Institute Shall be Reserved for Candidates working in Central Government Organizations / Industries /Companies / Autonomous Organizations purely on MERIT Basis. In absence of any such Candidates the vacant seat may be transferred to General Category.  Note: If any seats are vacant after the last round, candidates from other States/UTs may also be considered for admission, if they reside within a 50 KM radial distance from the institute.
<b>09</b>	<b>State Government, Board &amp; University Requirements</b>
	State Government, DTE (Board) & University (as applicable) should devise a mechanism to affiliate the Working Professionals admitted in AICTE Approved Institutes for Courses under this Policy of AICTE.
<b>10</b>	<b>Other Requirements</b>
	AICTE Approved Institutes shall fulfill any other requirements as specified / required which are notified from time to time.
<p>NOTE-1: Above Guidelines are also applicable to State Public Universities/State Private Universities, provided, ONLY if they are having Approval of AICTE.</p> <p>NOTE-2: UGC Norms /Guidelines /Rules (If any) are also applicable.</p>	

## ANNEXURE -II

### STANDARD OPERATING PROCEDURE FOR TRANSFER OF CREDITS

**As per clause 18 of regulations 2024** of the Faculty of Engineering and Technology, Students are encouraged to take a maximum of 40% of the total number of credits of 160 through SWAYAM NPTEL.

Over and above 40 % of the credits, the students if interested can take any number of courses offered through various MOOC platform like NPTEL/SWAYAM and credits earned on successful completion of these courses will not be transferred in mark sheet and will not be used for overall CGPA calculation.

#### Guidelines for Credit Transfer

1. Students cannot register for the mapped MOOC courses that are being offered in the current semester.
2. The student should have successfully completed / passed in the MOOC course. This will be the minimum eligibility Criteria for credit transfer.
3. Scores of the MOOC courses completed by the students on permitted platforms are valid till 1 year.

#### PROCEDURE FOR TRANSFER OF CREDITS

1. Each department should recommend the MOOC courses with at least 60% mapping with VMRF syllabus. The list of courses should be recommended by the department coordinator and HoD. The list should be submitted to the Transfer of Credit Committee (TOC).
2. TOC committee will approve the list of courses recommended by the department.
3. The student should enroll for the courses only from the approved list.
4. After successful completion of the MOOC course, the student should apply for the credit transfer using **CREDIT TRANSFER APPLICATION FORM** along with the MOOC course completion certificate through proper channel to the Transfer of Credit Committee.
5. Transfer of Credit Committee (TOC) will consolidate all the applications received from the departments and validate them. The committee will submit the list to the Controller of Examination, VMRF for further action.
6. The Grade for the completed MOOC course will be awarded as per VMRF regulations.

### **CREDIT TRANSFER APPLICATION FORM**

**Name of the Student** : **Department** :  
**Register Number** :  
**Program/ Branch** : **Year/ Semester** :

#### **COURSE COMPLETION DETAILS**

Name of the MOOC Course	
MOOC Course Code	
MOOC Course Roll Number	
MOOC Course Duration and Period	
MOOC Course Offered By	
MOOC Course Completed on (Month and Year)	
Marks Secured in MOOC Course (Certificate to be Attached)	
VMRF Equivalent Course Name with Code	
VMRF Equivalent Course Credit	
Transferable Credit	
VMRF Equivalent Grade to be awarded	

#### **STUDENT DECLARATION**

I have read and understood the credit Transfer Procedure as per the regulations

#### **SIGNATURE OF THE APPLICANT**

**NAME:**

**REGISTER NUMBER:**

**DATE:**

#### **RECOMMENDATIONS FOR TRANSFER OF CREDIT**

The MOOC courses completed by the student have been checked and found Eligible/ In-Eligible for transfer of credits in the course as mentioned above.

Recommended/ Not Recommended for the transfer of credits.

**Coordinator,  
TOC Committee**

**Vice Principal  
(Academics)**

**Vice Principal  
(Administration)**

**Principal**