



RAMAIAH
Institute of Technology

**REVISED
REGULATIONS FOR
B.E / B.Arch
DEGREE PROGRAMMES**

Academic Year 2023 - 24 and 2024 - 25

RAMAIAH INSTITUTE OF TECHNOLOGY

(Autonomous Institute, Affiliated to VTU)
Approved by AICTE, New Delhi & Govt. of Karnataka
Accredited by NBA & NAAC with A⁺ Grade

RANKED

#75

Among 1463 Reputed
Engineering Institutes
in India

#21

Among 115 Reputed
Schools of Architecture
in India



- As per National Institutional Ranking Framework, MoE, Govt. of India, 2024



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REVISED REGULATIONS FOR B.E / B.Arch DEGREE PROGRAMMES

Academic Year 2023 - 24 and 2024 - 25

Note: The regulations hereunder are subject to amendments as may be made by the VTU/ 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 candidates (including those already undergoing the programme) as may be decided by the VTU/Academic Council.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURES

- 1.1 “Autonomous Institute / College” means an institute / college designated as autonomous institute / college by the Visvesvaraya Technological University (VTU), as per the VTU Autonomous College Statutes, 2006 amended 2018.
- 1.2 “Academic Autonomy” means freedom to a College in all aspects of conducting its academic programmes, granted by the University for promoting excellence.
- 1.3 “Commission” means University Grants Commission.
- 1.4 “AICTE” means All India Council for Technical Education.
- 1.5 “CoA” means Council of Architecture.
- 1.6 “University” means Visvesvaraya Technological University.
- 1.7 “Institute” means Ramaiah Institute of Technology (formerly known as M. S. Ramaiah Institute of Technology), Bangalore. Unless indicated otherwise by the context.
- 1.8 “Programme” means an educational program in a particular stream/ branch of Engineering/ branch of specialization leading to the award of Degree. It involves events/ activities, comprising of lectures/ tutorials/ laboratory work/ field work/ outreach activities/ project work/ vocational training/ viva-voce/ seminars/ internship/ assignments/ presentations/ self-study, etc., or a combination of some of these, such as Bachelor of Engineering (B.E) degree programme OR Bachelor of Architecture (B. Arch) degree programme OR Master of Technology (M.Tech) degree programme OR Master of Architecture (M.Arch) degree Programme OR Master of Business Administration (MBA) degree programme OR Master of Computer Applications (MCA) degree programme OR UG Degree Programme: B.E / B.Arch OR PG Degree Programme: M.Tech / M.Arch / MBA / MCA Research Programmes: Master of Science (Engineering), M.Sc (Engineering) by Research and Doctor of Philosophy (Ph.D)
- 1.9 “Branch” means specialization in a programme like B.E. degree programme in Civil Engineering, B.E. degree programme in Electronics & Instrumentation Engineering, M.Tech degree programme in Computer Integrated Manufacturing, M. Tech degree programme in Software Engineering, etc.
- 1.10 “Semester” refers to one of the two sessions (odd and even) of an academic year.
- 1.11 “Academic Year” refers to two consecutive semesters (odd followed by an even) sessions, including intervening periods.
- 1.12 “Course” usually refers to as subject and is a component of a Program. It means a theory or practical subject, identified by its course – code and course-title, which is normally studied in a semester.
- 1.13 “Credit” refers to a unit or weightage by which the Coursework is measured. It represents the number of hours of instructions prescribed per week. One credit is equivalent to one hour of lecture or two hours of laboratory/ practical courses/ tutorials/ fieldwork etc., per week.

- 1.14 “Continuous Internal Evaluation (CIE)” (also known as formative assessment) refers to the evaluation of students’ performance in the course during the teaching-learning process. CIE shall be done by the faculty teaching course and evaluation components may include tests, assignments, group discussions, quizzes, course specific projects, seminars, etc., conducted during the semester tenure with a weightage for different activities.
- 1.15 “Semester End Examinations Evaluation (SEE)” (also called as summative assessment) refers to the examinations conducted at the end of the semester covering the entire syllabus.
- 1.16 “Honours” means a higher recognition awarded to a well performing UG student on earning the specific extra credits after satisfying the B.E. Degree award conditions in the same branch as per the Regulations.
- 1.17 “Minor” Degree is awarded along with B.E. Degree in a programme if a student completes the required number of credits of another program as per the Regulations governing Minor Degree Program.

2. PROGRAMMES OFFERED

Ramaiah Institute of Technology, an autonomous institute affiliated to VTU, offers B.E, B.Arch, M.Tech, M.Arch, MCA and MBA Programmes under the autonomous scheme.

- 2.1 The following are the branches of study of B.E./B.Arch. degree programme:
- Artificial Intelligence and Data Science
 - Artificial Intelligence and Machine Learning
 - Bio Technology
 - Chemical Engineering
 - Civil Engineering
 - Computer Science and Engineering
 - Computer Science and Engineering (AI and ML)
 - Computer Science and Engineering (Cyber Security)
 - Electrical and Electronics Engineering
 - Electronics and Communication Engineering
 - Industrial Engineering and Management
 - Information Science and Engineering
 - Electronics & Instrumentation Engineering
 - Mechanical Engineering
 - Medical Electronics Engineering
 - Electronics & Telecommunication Engineering
 - Aerospace Engineering
 - B. Arch Degree Programme

2.2 The following are the branches of study of M.Tech degree programme:

| Name of the Department Offering the Programme | Title of M.Tech Degree Programme |
|---|--|
| Bio Technology | Biotechnology |
| Civil Engineering | Structural Engineering |
| Computer Science and Engineering | 1. Computer Science and Engineering 2. Computer Network Engineering |
| CSE (AI & ML) | Artificial Intelligence |
| Electronics and Communication Engineering | 1. Digital Electronics and Communication 2. VLSI Design & Embedded System |
| Information Science and Engineering | Data Science |
| Mechanical Engineering | Robotics and Artificial Intelligence |
| Aerospace Engineering | Aerospace Engineering |

- 2.3 M.Arch (Landscape Architecture) Degree Programme
- 2.4 MBA Degree Programme
- 2.5 MCA Degree Programme
- 2.6 M.S. (by Research)
- 2.7 Ph.D

3. DURATION OF THE PROGRAMMES

3.1 Normal Duration

- 3.1.1 B.E Degree Programme extends over a period of four academic years leading to the Degree of Bachelor of Engineering (B.E) of the Visvesvaraya Technological University.
- 3.1.2 For students admitted under lateral entry scheme, B.E Degree Programme extends over a period of three academic years leading to the Degree of Bachelor of Engineering (B.E) of the Visvesvaraya Technological University.
- 3.1.3 B. Arch Degree Programme extends over a period of five academic years leading to the Degree of Bachelor of Architecture (B.Arch) of the Visvesvaraya Technological University.

3.2 Maximum Duration

- 3.2.1 The maximum period within which a student must complete a full-time academic programme is: 8 years for B.E, 10 years for B. Arch. If a student fails to complete the academic programme within the maximum duration as specified above, he/ she will be required to withdraw from the programme. However, the student can seek readmission to the first year of the programme as a fresh candidate.

- 3.2.2 For students admitted under lateral entry scheme in B.E degree programme, the maximum period within which a student must complete a full-time academic programme is 6 years. If a student fails to complete the academic programme within the maximum duration as specified above, he/ she will be required to withdraw from the programme.

- 3.2.3 The period is reckoned from the academic year in which the student is admitted for the first time into the degree programme.

3.3 Semester Structure

- 3.3.1 The academic year is divided into Two Main Semesters. Main semesters are for regular class work.
- 3.3.2 Each main semester shall be of 19 weeks duration and this period includes time for Registration of courses, Course work, Examination preparation, Conduct of examinations, Assessment and Declaration of final results.
- 3.3.3 Each main semester shall have a minimum of 90 working days.
- 3.3.4 The Academic Calendar is declared at the start of the semester.

4. ADMISSIONS

- 4.1 Candidates, for admission to any programme offered by the Institute, will be required to satisfy the conditions of admission there to be prescribed by Visvesvaraya Technological University, Government of Karnataka, and appropriate statutory bodies like CoA, AICTE, etc. The admission process will be according to the directions and guidelines issued by the appropriate authorities from time to time.
- 4.2 Lateral admission, directly to Second Year of B.E degree programme for candidates with 3-year Diploma in Engineering/ Polytechnic or B.Sc. qualification is possible. The admission process will be according to the directions and guidelines issued by appropriate authorities from time to time.
- 4.3 The Institute may admit students from other Institutes / Universities to any semester. Such admissions will be according to the directions and guidelines issued by appropriate authorities from time to time and will be governed by the transitory rules and regulations of the institute.

5. CURRICULUM FRAMEWORK

Every Program has a prescribed course structure which, in general terms, is known as the Curriculum or the Courses of Study or the Scheme of Teaching and Evaluation. It prescribes all the courses/ laboratory/ other requirements for the degree and sets out the nominal sequence semester wise. The curriculum framework for BE programme shall include the following courses:

- 5.1 Humanities, Social Sciences, and Management Courses (HSMC): These are mandatory for all disciplines.

- 5.2 Humanities, Social Sciences, and Management Courses (HSMC): These are mandatory for all disciplines.
- 5.3 Basic Science Courses (BSC): Physics, Chemistry, and Mathematics. These are mandatory for all disciplines.
- 5.4 Engineering Science Courses (ESC): Materials, Workshop, Drawing, Basics of Electrical/ Electronics/ Civil/ Mechanical/ Computer Engineering etc. These are mandatory for all disciplines.
- 5.5 Professional Core Courses (PCC): These are Professional Core courses, relevant to the chosen specialization/ branch. The core courses shall be compulsorily studied by students and it is mandatory to complete them to fulfill the requirements of a program.
- 5.6 Professional Elective Courses (PEC): These are Professional Electives, relevant to the chosen specialization/branch and can be chosen from the pool of courses. It shall be supportive to the discipline providing extended scope/ enabling exposure to some other domain and nurturing student proficiency skills.
- 5.7 Open Elective Courses (OEC): These are the Elective courses from other technical areas and/ or from emerging fields. Students of other departments shall opt for these courses based on fulfilling the eligibility and pre-requisites mentioned in the syllabus.
- 5.8 Integrated Professional Core Courses (IPCC): It refers to Professional Theory core course integrated with practical of the same course.
- 5.9 Project Work: Mini-project work and Major Project work: They are carried out at the institute or any university/ Government recognized organization / research labs/ industry without affecting the regular class work.
- 5.10 Seminar: Each student is required to present the seminar on specific topic chosen from relevant field/list provided by the department under the supervision of a faculty member
- 5.11 Internship (INT): The internship program helps the students to gain professional know-how and enhances the employability skills.
- 5.12 Non-Credit Mandatory Courses (NCMC): These courses are mandatory, without the benefit of a credit or grade. Passing in each mandatory course is required to qualify for the award of degree.
- 5.13 Ability Enhancement Courses (AEC): These courses are designed to help students to enhance their skills in communication, language and personality development etc. They also promote a deeper understanding of courses like social sciences, ethics, culture, human behavior, human rights, and the law. Ability Enhancement courses are based upon the content that leads to knowledge enhancement.
- 5.14 Universal Human Values Courses (UHV): The courses which teach a holistic perspective based on self-exploration about themselves (human being), family, society, and nature. Understanding (or developing clarity) of the harmony in the human being, family, society, and nature. These are mandatory for all disciplines.

6. CREDIT SYSTEM

- 6.1 All the academic programmes under autonomy are based on Credit System. A certain quantum of academic work, measured in terms of credits, is laid down as the requirement for completion of B.E. degree in the different available specialization areas. A student earns credits by satisfactorily completing courses and other academic activities every semester.
- 6.2 The definition of one credit for any course is as follows:
- Lecture (L) : 1 hour/week
 - Tutorial (T) : 2 hours/week
 - Practical (P) : 2 hours/week
- 6.3 The students shall be offered courses as per the Scheme of Teaching and Evaluation, and the students are required to register for the courses before the beginning of every semester.
- 6.4 A specific course would be assigned credits, as Lecture Credits, Tutorial Credits and Practical Credits based on the academic load in accordance with the definition given above. For example, a course that consists of 2 hours of lecture per week, 2 hours of Tutorial per week and 2 hours of Practical per week would be assigned credits as 2:1:1 for a total of 4 credits.
- 6.5 A student can register for a course for earning credits in order to meet the academic requirements of the programme, as stipulated below in 6.6 Such courses together with the grades obtained and the credits earned will be included in the Grade Card issued by the Institute at the end of each semester and they form the basis for determining the academic performance of the student in that semester.
- 6.6 A student must secure a **minimum CGPA of FIVE (5)** and earn total number of credits as detailed below in order to qualify for the award of a degree:

| | Programme | Normal Duration Years (Semesters) | Total Number of Credits to be Earned |
|-----------|----------------------|--------------------------------------|---|
| UG Degree | B.E. | 4 (8) | 160 |
| | B.E. (Lateral entry) | 3 (6) | 120 |
| | B. Arch. | 5 (10) | 260 (as per CoA) |

Note: A student shall be awarded B.E. degree with Honours or Minor, if he/she earns a minimum of additional 18 credits, satisfying the conditions specified in the regulations for the same.

7. REGISTRATION OF COURSES

- 7.1 Each student has to compulsorily register for course work at the beginning of each semester as per the schedule mentioned in the Academic Calendar with the total number of Credits being limited by considering the permissible weekly Contact Hours (typically: 35 hours/Week). It is absolutely compulsory

for the student to register for courses in time. The BE students have to normally register for a minimum of 18 -24 credits per semester (e.g., 6-7 Courses); to also include 1/2 Units of Non-Credit Mandatory Courses in some semesters. The student shall not be permitted to register in a semester for more than a total of 28 credits. These 28 credits, include Minor/ Honours degree courses, the courses of the regular semester and backlog courses. The students of B.Arch have to register for a minimum of 20 credits and 1/2 Units of non-credit mandatory courses and up to a maximum of 30 credits. On an average, a student of B.Arch is expected to register for 25 credits.

7.2 Any student may be barred from registering for any course for specific reasons like disciplinary reasons, non- payment of fees etc.

7.3 Non-Credit Mandatory Courses: Formal registration for these courses shall also be done along with other courses, at the beginning of the semesters. The award of degree is subject to successful completion of the minimum requirements for these courses with attendance criteria. Not satisfying the requirements will result in a failure grade and the student has to re-register for the course when offered next in the subsequent semesters.

8. ASSESSMENT AND GRADING

8.1 The assessment will comprise of Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). Only those students maintaining a minimum standard in CIE are permitted to appear in the SEE of the course. CIE and SEE have equal weightages of 50% each. The sum of CIE and SEE in a given course is used to assign a Letter Grade.

8.2 The Letter Grade will be assigned based on Relative Grading System or Absolute Grading System as announced for a particular course at the beginning of the semester in which that course is offered. In absolute grading system, the grade would be assigned based on the total marks (CIE + SEE) scored by the student according to the following table:

8.3 Letter Grades and the corresponding Grade Points for UG programmes are as follows:

| Level | Outstanding | Excellent | Very Good | Good | Above Average | Average | Pass | Fail |
|-----------------------|-------------|-----------|-----------|-------|---------------|---------|-------|------|
| Grade | O | A+ | A | B+ | B | C | P | F |
| Grade Points | 10 | 09 | 08 | 07 | 06 | 05 | 04 | 00 |
| Score (Marks) Range % | 90-100 | 80-89 | 70-79 | 60-69 | 55-59 | 50-54 | 40-49 | 0-39 |

8.4 Continuous Internal Evaluation (CIE) of the students is made by the Course faculty all through the semester. The evaluation process may include mid-term tests, weekly / fortnightly class tests, assignments, problem solving exercises, group discussions, quizzes, seminars, mini-project, surprise test etc.

8.5 For Internship/ Field work/ Seminar there is no SEE. CIE evaluation only is to be considered for assigning final grade.

8.6 Terminal Examination designated as Semester End Examination (SEE), a written examination for theory courses and practical / design examination with built-in viva part for laboratory / design courses. Controller of Examinations, with the help of Boards of Examiners, implements this SEE process. Only those students who satisfy the minimum attendance and CIE requirement shall be eligible to appear for SEE of that course.

8.7 Students having no backlog courses, may not have more than one examination scheduled on the same day. However, students having backlog course may face a situation where they may have two examinations scheduled on the same day (one during the morning session and the other in the afternoon session) and examination on consecutive days. The students shall be prepared to appear for the examinations in these cases. The institute will take utmost care to see that two examinations are not scheduled at the same time of the day for a student. But in view of time constraint to complete examinations and announce results on time, if it is unavoidable, the student shall choose to appear for the examination as per the advice of Proctor. As changing the examination date is not an option, the examination time table shall not be modified/ altered/ adjusted in any of the above cases.

8.8 Grade Points: Depending on the grade assigned, a student earns grade points as indicated in 8.3.

8.9 The total points earned by a student in a given course are computed as the credits assigned to that subject multiplied by the grade points corresponding to the grade awarded in that course. For example, if a course has the credits as 3:1:0 and if the student scores Grade "A+" in that course, then the grade points earned would be $4 \times 9 = 36$ in that course.

8.10 In addition to the letter grades mentioned above, a student may be awarded letter grades of I, X which are explained below:

8.11.1 **Grade "I"**: A student is awarded grade "I" in a course if he/she has satisfactory attendance in that course, has met the passing standard in the CIE (see 8.1) but remained absent from SEE for valid and convincing reasons acceptable to the Institute. For example, **personal accident/ serious illness/ death of parent or guardian**, because of which the student could not write the SEE would constitute a valid reason acceptable to the Institute. The application must include the necessary support documents. If the application is accepted by the Institute, the student would be awarded "I" grade in that course. The student would then be permitted to write a Make-Up SEE conducted as per the announced schedule. Based on the performance in this make-up SEE, the "I" grade would be converted to a regular letter grade.

8.11.2 **Grade “X”:** A student may be awarded grade “X” if he/she has attendance $\geq 85\%$ and has done exceptionally well in a course with the CIE being greater than or equal to 90% and has attended examination but not done well in the SEE and it is observed that the student would get an overall “F” grade in that course. A student who is awarded grade “X” would be permitted to write make-up SEE conducted as per the announced schedule. Based on the performance in this make-up SEE, the “X” grade would be converted to a regular letter grade. Grade “X” is awarded only if the student has attended the SEE. There is no ‘X’ grade awarded for practical subjects.

8.12 **Review of grades:** A student may appeal for review of the grade / grades awarded to him / her by paying prescribed fee within the stipulated time. If the appeal is upheld and the grade gets revised to a higher grade, the fee amount will be refunded to the student as per norms of the institute.

8.13 **Grade Point Averages:**

The credit points earned by a student are used for calculating the Semester Grade Point Average (SGPA) and the Cumulative Grade Point Average (CGPA), both of which are important performance indices of the student. SGPA is equal to the sum of all the total points earned by the student in a given semester divided by the number of credits registered by the student in that semester. CGPA gives the sum of all the total points earned in all the previous semesters and the current semester divided by the number of credits registered in all these semesters. Thus,

$$\text{SGPA} = \frac{\sum [(\text{Course credits}) \times (\text{Grade points})] \text{ for all Courses in that semester excluding those with transitional grades}}{\sum [(\text{Course credits}) \text{ for all Courses in that semester excluding those with transitional grades}]}$$

$$\text{CGPA} = \frac{\sum [(\text{Course credits}) \times (\text{Grade points})] \text{ for all Courses, excluding those with “F” and transitional grades until that semester}}{\sum [(\text{Course credits}) \text{ for all Courses excluding those with “F” and transitional grades until that semester}]}$$

The SGPA and CGPA respectively declare the academic performance of a student at the end of a semester and at the end of successive semesters.

8.14 When it becomes necessary to provide absolute marks equivalent to the Letter Grades, the same shall be provided based on the guidelines issued by the VTU, AICTE from time to time.

8.15 **Awarding Class:** After meeting all the academic requirements and with the approval of the Academic Council, an undergraduate student is awarded a Class as shown below:

| CGPA | Class |
|--------------------------|------------------------------------|
| $4 \leq \text{CGPA} < 5$ | Pass (PS) |
| $5 \leq \text{CGPA} < 6$ | Second Class (SC) |
| $6 \leq \text{CGPA} < 7$ | First Class (FC) |
| $\text{CGPA} \geq 7$ | First Class with Distinction (FCD) |

8.16 A student must secure a minimum CGPA of FIVE (5) in order to become eligible for the award of the Degree.

8.17 In case, a student do not have a CGPA of 5.00. he/she shall be permitted to appear for SEE in course/s (other than Internship, Technical Seminar, Project (Mini and Main), and Laboratories) of any semester/s without the rejection of CIE marks for any number of times, subject to the provision of the maximum duration of the program to make up the CGPA equal to or greater than 5.00 for the award of degree. The student shall obtain written permission from the Controller of Examination to reappear in SEE to make up the CGPA equal to or greater than 5.00.

8.18 Percentage Equivalence of Grade Points (for a 10 point scale) is calculated as follows as stated below:

Note:

- The following formula for conversion of CGPA to percentage of marks to be used only after a student has successfully completed the programme.
Percentage of Marks = $\text{CGPA} \times 10$ (for undergraduate students)
- Class designation
 - $\geq 70\%$ (First Class with distinction)
 - $\geq 60\%$ and $< 70\%$ (First Class)
 - $\geq 50\%$ and $< 60\%$ (Second Class)
 - $\geq 40\%$ and $< 50\%$ (Pass Class)

9. EXAMINATIONS

9.1 A candidate must secure a minimum of 40% in CIE in a given Degree course other than B. Arch degree course (see 9.2 below) in order to be considered eligible to write the SEE in that course. Thus, a student (other than B.Arch.) securing less than this prescribed minimum of 40% in CIE in a given course will be awarded NE grade in that course. In addition, a student (other than B.Arch.) must secure a minimum of 35% in Semester End Examination (SEE) in order to be considered as having passed the given course.

9.2 Passing Standards for B. E Degree Programmes are:

| Evaluation Method | Passing Standard |
|--------------------------------------|-------------------|
| Continuous Internal Evaluation (CIE) | Score $\geq 40\%$ |
| Semester End Examination (SEE) | Score $\geq 35\%$ |
| Overall Score for Passing | Score $\geq 40\%$ |

9.3 Passing Standards for B. Arch Degree Programmes

| Evaluation Method | Passing Standard |
|--------------------------------------|-------------------|
| Continuous Internal Evaluation (CIE) | Score $\geq 50\%$ |
| Semester End Examination (SEE) | Score $\geq 40\%$ |
| Overall Score for Passing | Score $\geq 50\%$ |

9.4 A student would be considered to have completed a course successfully and earned the credits if he/she secures a letter grade other than "F", "I", or "X" in that course.

9.5 A candidate who is absent in final examination in a course / project work after having registered for the same and has not been awarded grade "I", shall be considered to have appeared and failed in that course / project work and is awarded grade "F".

9.6 A candidate shall be declared to have qualified for the award of the degree for which the candidate has been admitted provided the candidate has successfully completed all the academic requirements and has passed all the prescribed courses of study in all the semesters for that programme within the maximum period stipulated for that programme. The period is reckoned from the commencement of the semester to which the candidate was first admitted to the programme.

9.7 A student securing an 'F' grade in any courses, are eligible to appear for that course during the backlog examinations. The CIE marks awarded to the student at the first attempt in the concerned course shall be carried forward.

9.8 Students who obtained NE (Not Eligible) grade in a semester for to not having either sufficient attendance or CIE or both, are required to re-register for the same course in subsequent semester and earn both attendance and CIE, before writing the SEE.

9.9 If a student fails to pass a Course other than Professional Core Course even after four attempts, that course is deemed to be exempted for him/her. Then, the student in consultation with his/her Proctor may choose a course with the same number of credits from the pool of courses stipulated by the concerned Board of Studies. The course so selected should not have been studied by the student or to be studied in higher semester/s. This provision is given only for two courses (one at a time) during the entire maximum duration of a course. However, this is optional and the student can prefer to repeat the same course in which he/she has failed repeatedly.

9.10 A student indulged in malpractice during any examination (CIE / SEE) must face an enquiry by the Malpractice Review Committee of the Institute on specified date at specified time. The committee, after the enquiry, shall submit a written report to the Principal recommending suitable penal action. Principal will issue further appropriate orders in this regard.

9.11 **Make-up examination:** The Make-up examination facility shall be available to students who may have missed to attend the SEE of one or more Courses in a semester for valid reasons and awarded the 'I' grade. Students having 'X' grade shall also be eligible to take advantage of this facility. There shall be no Make-Up examination for supplementary semester, re-registered subject and practicals. The students passing in the makeup examinations shall lose their eligibility to be considered for the award of Ranks.

9.12 **a) Supplementary Examinations:** To help the students to lower their burden of backlog papers. The students are given facility of Supplementary examinations as given below (VTU notification dated 24th June 2024):

- After their 2nd semester for 'F' grade subjects of 1st and 2nd semesters only
- After their 4th semester for 'F' grade subjects of 3rd and 4th semesters only
- After 6th semester for 'F'; grade subjects of 5th and 6th semesters only

b) Students with F Grades can appear for exams of such courses as backlog during the subsequent Semester End Examinations (SEE).

9.13 **No supplementary semester for 2023 batch onwards.**

10. ATTENDANCE REQUIREMENT

10.1 Each semester is considered as a unit and the candidate has to put in a minimum attendance of 85% in each subject with a provision of condonation of 10% of the attendance by the Principal for reasons such as medical emergencies, participation in sports, cultural activities, seminars, workshops and paper presentation, etc., at the level of University, State, Nation, etc.

10.2 The basis for the calculation of the attendance shall be the period prescribed by the College by its calendar of events. For late admission, attendance is reckoned from the date of admission to the programme.

10.3 If a student does not fulfill the attendance requirements in any subject, he / she is not permitted to attend the Semester End Examination in that subject and is deemed to have been awarded "NE" grade in that subject.

11. REJECTION OF RESULTS

11.1 This option is available to the student only once during the entire period of study.

11.2 A student is permitted to reject the total performance of a semester or year only once during the program duration.

11.3 However, rejection of performance of 8th semester Project Work is not permitted.

- 11.4 The student who desires to reject the total SEE performance of an odd or even semester including CIE marks, has to repeat that odd or even semester of prevailing scheme by taking readmission during the subsequent academic year. Readmission to odd/even semesters shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number (USN).
- 11.5 The student shall have to complete the course work within the prescribed time limit which will be calculated with effect from the date of his/her first admission into the course.

12. TEMPORARY BREAK OF STUDY FROM THE PROGRAMME/ READMISSION

- 12.1 A candidate is normally not permitted to break the study. However, if a candidate intends to temporarily discontinue the programme in the middle for valid reasons (such as accident or hospitalization due to prolonged ill health) and to rejoin the programme in a later respective semester, he / she shall apply to the Principal in advance. Such application shall be submitted before the last date for payment of examination fee of the semester in question and forwarded through the Head of the Department stating the reasons for such withdrawal together with supporting documents and endorsement of his / her parent / guardian.
- 12.2 The Institute shall examine such an application and if it finds the case to be genuine, it may permit the student to temporarily withdraw from the programme. Such permission is accorded only to those who do not have any outstanding dues / demand at the College / University level including tuition fees, any other fees, library materials etc.
- 12.3 The candidate has to rejoin the programme after the break from the commencement of the respective semester as and when it is offered.
- 12.4 The total period for completion of the programme reckoned from the commencement of the semester to which the candidate was first admitted shall not exceed the maximum period specified in clause 3.2. The maximum period includes the break period and shall be calculated with reference to the USN allotted during his/her first admission to the program.
- 12.5 If any candidate is detained for any reason, the period of detention shall not be considered as 'Break of Study'.
- 12.6 Students who take re-admission to any semester of the existing scheme from another scheme, as a repeater/ fresher because of various reasons, shall attend and complete all the remaining semesters of the program adhering to the Regulations of the prevailing scheme and shall complete additional courses, if any, as per the decision of equivalence committee in concurrence with concerned Board of Studies on establishing the equivalence between two schemes. Such a candidate shall not be eligible for the award of rank.

- 12.7 A student who has not obtained the eligibility for III semester even after three academic years from the date of admission to I semester shall discontinue the program or get readmitted to I semester of first year B.E./B.Tech., with a new University Seat Number (USN) but retaining the same year of admission.
- 12.8 Readmission to odd/even semester shall not be considered as fresh admission and therefore students shall continue to have the same University Seat Number (USN), which was allotted at the time of his/ her admission to the program.

13. VERTICAL PROGRESSION

- 13.1.1 There are no credit requirements for a student to progress from odd semester to the next higher even semester. However, a student may not be allowed to progress to the next higher even semester because of valid reasons like detention, disciplinary action, etc.
- 13.1.2 The student shall be declared failed if the candidate has not:
- Satisfied the CIE requirements of any course/s
 - Registered for the SEE even after satisfying the attendance and CIE requirements.
- 13.2 VERTICAL PROGRESSION IN CASE OF STUDENT ADMITTED TO FIRST YEAR:**
- 13.2.1 Students having "F" grades for the courses totaling to not more than 16 credits in the two semester of first year of the programme shall be eligible to second year. 'F' or 'NE' grade obtained in non-credit mandatory courses (NCMC) are not included in the count of 16 credits.
- 13.2.2 From 3rd semester (Second year) onwards the student is allowed to move forward to the next semester (odd/even) irrespective of the number of "F" or "NE" grades.
- 13.2.3 Students shall be eligible for 7th semester of B.E. (Fourth year) and 9th semester of B.Arch (Fifth year) provided he/she has no "F" or "NE" grades in the First year (first and second semesters) of the programme.
- 13.3 VERTICAL PROGRESSION IN CASE OF POLYTECHNIC DIPLOMA STUDENT ADMITTED TO SECOND YEAR (LATERAL ENTRY)**
- 13.3.1 The mandatory non-credit courses Additional Mathematics – I and II at III and IV semester respectively, to lateral entry diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete the CIE and attendance requirements and to appear for the SEE. In case, any student fails to satisfy the course requirements, he/she shall be deemed to have to have secured 'F' grade (Fail). In such a case, the students have to fulfill the requirements during subsequent semesters to appear for SEE.
- 13.3.2 Completion of Additional Mathematics – I and II, shall be mandatory for the award of degree.

13.4 VERTICAL PROGRESSION IN CASE OF B.Sc STUDENT ADMITTED TO SECOND YEAR (LATERAL ENTRY)

- 13.4.1 Lateral entry students from B.Sc stream, shall clear the mandatory non-credit courses Computer Aided Engineering Drawing and Design, Basics of Civil Engineering and Mechanics of I year BE Program for the award of degree.
- 13.4.2 The mandatory non-credit courses Computer Aided Engineering Drawing, Basics of Civil Engineering and Mechanics of I year BE program to lateral entry BSc. Students admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete the CIE and attendance requirements and to appear for the SEE. In case, any student fails to satisfy the course requirements, he/she shall be deemed to have secured 'F' grade (Fail). In such case, the students have to fulfill the requirements during subsequent semesters to appear for SEE.
- 13.5 Minimum Expected Standard for CGPA = 5.0 at the end of each academic year.
- 13.6 However, failure to secure a minimum CGPA = 5.0 at the end of any academic year for the first time, shall attract a warning before approval of the student to continue in the following semester.
- 13.7 If a student is not eligible to progress to the next higher academic year (second or fourth as per 14.2), he / she has to write the exam in failed courses, if he/she has satisfied minimum sessional requirements (20 CIE marks and 85% attendance) or he/she can register for these courses in subsequent odd or even semester. In such cases, there is no limit on minimum number of credits but the maximum number of credits that a student can register shall be as per 7.1.
- 13.8 A student is not eligible to be promoted to higher semester unless he / she has undergone course work of the immediate preceding lower semester.

14. RULES FOR LATERAL ENTRY STUDENTS IN B.E. PROGRAMMES

- 14.1. A student who is admitted directly in third semester under lateral entry scheme shall complete all the courses within a period of six academic years from the date of first admission in to the B.E Programme failing which he / she has to discontinue the course.
- 14.2. The student shall pass the mandatory courses compulsorily before the award of the Degree.
- 14.3. The student has to earn a total of 120 credits.
- 14.4. The student shall have to compulsorily pass the two bridge courses in Mathematics before completing the B.E degree programme.
- 14.5. From third semester onwards, the student shall have to undergo course work along with the regular batch.

15. AWARD OF A RANK UNDER AUTONOMOUS SCHEME

- 15.1. Merit Rank will be declared only for those students who have been directly admitted in MSRIT under Autonomous Regulations and complete the entire course in MSRIT only within the minimum possible prescribed time limit, i.e.,

5 years for B.Arch, 4 years for B.E, 3 years for B.E under lateral entry scheme.

- 15.2. A student shall be eligible for a merit rank at the time of award of degree in each branch of Bachelor of Engineering, Bachelor of Architecture, provided the student has passed all subjects prescribed for the particular degree programme in first attempt only (without 'F' or 'X' or 'I' grade awarded in any subject) and has not rejected the result in any subject of any semester.
- 15.3. Academic performance will be the sole criteria for awarding the Merit Rank and will be based only on CGPA to be calculated as mentioned earlier.
- 15.4. For B. Arch Degree Programme: The Merit Rank will be based only on CGPA to be calculated at the end of last semester of the programme and CGPA will be calculated based on the academic performance of the student from First to Last semester of the programme.
- 15.5. For B.E. Degree Programmes: The Merit Rank will be based only on CGPA to be calculated at the end of last semester of the programme and CGPA will be calculated based on the academic performance of the student from Third to Eighth semester of the programme.
- 15.6. The number of Merit Ranks to be announced for any programme / branch / specialization will be as follows:
 - 15.6.1. 3 (Three) Merit Ranks for B. Arch programme if CoA sanctioned intake is up to 40; Merit Ranks will be 04 (Four), if CoA sanctioned intake is greater than 40.
 - 15.6.2. 3 (Three) Merit Ranks for each B.E. Programme if the AICTE sanctioned intake is less than or up to 60; 4 (Four) Merit Ranks if the AICTE sanctioned intake is greater than 60.

16. AWARD OF HONOURS AND MINOR DEGREE (No student shall be permitted to register for both honors as well as minor)

- 16.1. **Honours Degree :** A student is required to earn 18 or more additional credits through Massive Open Online Courses such as SWAYAM/ NPTEL approved by the institute/ Board of Studies. The credits are assigned based on the course duration as One credit per Four Weeks.
 - 16.1.1. Registration to "Honours" qualification shall start from fifth semester onwards.
 - 16.1.2. The Registrations shall have obtained a CGPA ≥ 7.50 at the end of the fourth semester.
 - 16.1.3. The lateral entry Diploma students shall have completed Additional Mathematics I and II during the 3rd and 4th semesters in first attempt only.
 - 16.1.4. The lateral entry B.Sc students shall have completed Engineering Graphics, Civil Engineering and Mechanics of First year by the end of IV semester in first attempt only.
 - 16.1.5. The student has to complete each coursework successfully irrespective of number of attempts, with a minimum final score of 60%.
- 16.2. **Minor Degree :** Registration for a Minor degree shall start from the **Fourth semester** of the B.E. Program

- 16.2.1 A student can opt for only one minor program along with the major program.
- 16.2.2 A student may choose to pursue a B.E. degree with a Minor Degree if, at the time of registration, he/she **has permissible backlogs** upto the third semester and has a cumulative grade point average (CGPA) **after the third semester > 5.0**. Before receiving a major degree, students who enroll in a minor degree program must successfully complete (pass) all prerequisite courses. Even if she/he fails in the courses chosen for minor degree programs, they must be finished (passed) before a major degree is granted. The students have to complete the major degree program within a minimum duration of 04 years. (for lateral entry students 03 years).
- 16.2.3 The minimum CGPA required to maintain up to the 3rd semester at the time of registration and **at the time of completion** of the major (core) degree program is > 5.0.
- 16.2.4 Students are governed by the regulations governing the B.E. degree program, however, she/he shall complete all the required minor degree program courses and earn credits > 18 before the completion of the major degree program.
- 16.2.5 The credits to be earned for award of minor degree shall be 18 during fourth to eighth semesters of B.E. program. This is apart from the 160 /120 credits prescribed for the 4 year/ 3 year (lateral entry) B.E. program. CGPA earned on 18 credits shall be equal to greater than 5.00.
- 16.2.6 A student cannot earn the Minor after he/she has already earned a bachelor's degree by earning 160 credits.

17. ACTIVITY POINTS

All students are required to earn following prescribed Activity points mandatorily along the duration of the programme

| Sl.No. | Students' Category | Activity Points prescribed by AICTE |
|--------|--|-------------------------------------|
| 1 | Regular students admitted to the four years Degree program | 100 |
| 2 | Students entering four years Degree program through lateral entry | 75 |
| 3 | Students transferred from other Universities to the fifth semester | 50 |

The Activity points shall be entered on the student's grade card in 8th semester. AICTE Activity points are non-credit and not reflected in the SGPA/CGPA calculations.

18. TERMINATION FROM THE PROGRAMME

The admission of a student to the programme may be terminated and the student be asked to leave the Institute in the following circumstances:

- 18.1 The student fails to satisfy the requirements of the programme within the maximum period stipulated for that programme.
- 18.2 The student fails to satisfy the norms of discipline specified by the institute from time to time.
- 18.3 Absence from classes for more than six weeks at a time in a semester without leave of absence being granted by the competent authority.

19. CONDUCT AND DISCIPLINE

- 19.1 Each student shall conduct himself / herself in a manner befitting his / her association with the institute.
- 19.2 Expected not to indulge in any activity, which is likely to bring disrepute to the Institute.
- 19.3 Should show due respect and courtesy to the teachers, administrators, officers and employees of the Institute and maintain cordial relationships with fellow students.
- 19.4 Lack of courtesy and decorum, unbecoming of a student (both inside and outside the institute), willful damage or removal of Institute's property or belongings of fellow students, disturbing others in their studies, adoption of unfair means during examinations, breach of rules and regulations of the Institute, noisy and unruly behavior and similar other undesirable activities shall constitute violation of code of conduct for the student.
- 19.5 Ragging in any form is strictly prohibited and is considered as a serious offence. It will lead to the expulsion of the offender from the Institute.
- 19.6 Violation of code of conduct shall invite disciplinary action which may include punishment such as reprimand, disciplinary probation, debarring from the examination, withdrawal of placement services, withholding of grades / degrees, cancellation of registration, etc., and even expulsion from the Institute.
- 19.7 Principal, based on the reports of the Warden of Institute hostel, can reprimand, impose fine or take any other suitable measures against an inmate who violates either the code of conduct or rules and regulations pertaining to Institute hostel.
- 19.8 A student may be denied the award of degree / certificate even though he/she has satisfactorily completed all the academic requirements if the student is found guilty of offences warranting such an action.
- 19.9 Attendance is not given to the student during the suspension period.

20. AMENDMENTS

- 20.1 These regulations, on approval by the Academic Council and the Governing Body shall supersede all the earlier regulations and amendments.
- 20.2 These regulations may get revised / amended from time to time and on approval by the Academic Council and the Governing Body shall come into force and shall be binding on the students, faculty, staff, all authorities of the Institute and others concerned.

RAMAIAH ANTHEM

ಜ್ಞಾನಂ ವಿಜ್ಞಾನಂ ಚ ಭಕ್ತಿ ಸಹಿತಂ

ಶ್ರೀ ಗಣನಾಥುನಿ ಶಾರದ
ಸತ್ಯವುಲನು ಸಹಜಯೋಗಿ ಮುನುಲನು ಸುರುಲನ್ |
ದೇವಬ್ರಾಹ್ಮಣ ಧನ್ಯನಿ
ಸಕಲಾಂತರ್ಯಾಮಿ ಹರಿನಿ ಚಾಲ ಭಂಜಿತುನ್ ||

ಜ್ಞಾನ ವಿಜ್ಞಾನ ವಿದ್ಯಾ ವಿನಯ ಭೂಷಣ
ಈ ರಾಮಯ್ಯ ಸಮೂಹ ಸಂಸ್ಥಾನ |
ತಾರೆ ನೀಹಾರಿಕೆಯಾಗಲಿ ಈ ಮಾಲಿಕೆ
ಜಯವೆನ್ನುವ ಜಯವೆನ್ನುವ ಈ ಸಂಸ್ಥಾನಕೆ || ಪ ||

ದ್ರಷ್ಟಾರರು ಕಟ್ಟಿದ ಕನಸಿನ ಸಾಮ್ರಾಜ್ಯವಿದು
ದೀಪದೊಳು ಪ್ರದೀಪಗಳ ಬೆಳಗುವ ಶ್ರದ್ಧಾಸ್ಥಾನವಿದು |
ಅರಿವಿನ ದಿಗಂತದಾಚೆಗೆ ಜಿಗಿಯುವ ಸಂಪನ್ಮೂಲವಿದು
ಗ್ರಹ ಗ್ರಹದಲಿ ಗೃಹ ನಿರ್ಮಾಣಕೆ ತಂತ್ರಜ್ಞಾನದ ಸೋಪಾನವಿದು || 1 ||

ಮಿತಿ ಇಲ್ಲದ ಅಮಿತ ಜ್ಞಾನಕೆ ಸಾಧನ ಕ್ಷೇತ್ರವಿದು
ಪ್ರತಿ ಪ್ರತಿ ಪ್ರತಿಭೆಯು ಸಾಧನೆ ಮಾಡಲು ಸ್ಪೂರ್ತಿಯ ಕೇಂದ್ರವಿದು |
ಅಜ್ಞಾನದ ಕತ್ತಲ ನೀಗುವ ಸುಜ್ಞಾನದ ಸೂರ್ಯನ ರಶ್ಮಿಯದು
ಜಗದೋದ್ಧಾರದ ಹೊಂಗನಸನು ಹೊತ್ತಿಹ ಅರಿವಿನ ತಾಣವಿದು |
ಅರಿವಿನ ಹಣತೆಯು ಬೆಳಕನು ಚೆಲ್ಲಿದೆ
ಅಸಂಖ್ಯಾತ ಕಿರಣಗಳು ಎಲ್ಲೆಡೆ ಹೊರಹೊಮ್ಮಿವೆ || 2 ||

The full text of Regulations is available on www.msrit.edu

These Regulations may be altered / changed from time to time by the Academic Council under approval from the Governing Body of the Institute.

FAILURE TO READ AND UNDERSTAND THE REGULATIONS IS NOT AN EXCUSE



VISION OF THE INSTITUTE

To be an Institution of International Eminence, renowned for imparting quality technical education, cutting edge research and innovation to meet global socio-economic needs.

MISSION OF THE INSTITUTE

RIT shall meet the global socio-economic needs through

1. Imparting quality technical education by nurturing a conducive learning environment through continuous improvement and customization.
2. Establishing research clusters in emerging areas in collaboration with globally reputed organizations.
3. Establishing innovative skills development, techno-entrepreneurial activities and consultancy for socio-economic needs.

QUALITY POLICY

We at Ramaiah Institute of Technology, strive to deliver comprehensive, continually enhanced, global quality technical and management education through an established Quality Management System complemented by the synergistic interaction of the stakeholders concerned.

M.S. Ramaiah Nagar, MSRIT Post, Bangalore 560 054.

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ADDITIONAL REGULATIONS/GUIDELINES, 2024 FOR AUTONOMOUS INSTITUTIONS

(AS PER VTU DIRECTIONS TO AUTONOMOUS COLLEGE PRINCIPAL'S ON 25.02.2025)
(Notification No. VTU/PS/2024-24/223 dated: 20.02.2025)

- Applicable from the Academic Year 2024-25 for UG & PG programmes.
- Supersedes all the previous Guidelines / Norms issued by the University.

- **SEMESTER STRUCTURE :**

| | ODD Semester | Even Semester | Summer Semester |
|------------------|--------------|---------------|---|
| Semesters / Year | 20 Weeks | 20 Weeks | 10 Weeks "Not applicable to PG Programs" |

- **Letter Grades :**

'DX' : Shortage of Attendance or Shortage of CIE Marks or both in a credit course

'NP' : Not passed in Non-credit course

'PP' : Passed in Non-credit course

'AB' : Absent for a course in SEE

'AU' : Satisfactory performance in an audit course

'F' : Fail in a course in SEE

'I' 'X' : Transitional Grades

'W' : Transitional Grade : Withdrawal from course

- **SEMESTER END EXAMINATIONS (SEE)**

| ODD Semester SEE | Even Semester SEE | Summer Semester SEE |
|--|--|--|
| Courses of ODD Semester Backlog Courses ('F' / 'AB' grade) of previous odd semester only Make-up Exams (Autonomous Colleges only) 'I' & 'X' grade students | Courses of EVEN Semester Backlog Courses ('F' / 'AB' grade) of previous EVEN semester only Make-up Exams (Autonomous Colleges only) 'I' & 'X' grade students Special Case – I Sem. Backlog courses if offered in II Semester | Courses offered in Summer Semester Backlog courses ('F' / 'AB' grade) of previous Semesters No make-up exams |

- **SUMMER SEMESTER (UG only)**

- 'DX' / 'NP' grade courses, dropped / withdrawn courses, higher semester courses (extraordinary students, CGPA > 9.0), Odd/Even semester courses of same year (slow learners).
- After Even Semester – 8 weeks of classes followed by 2 weeks of examinations.
- Limited number of courses offered depending on – student's requirement & faculty availability.
- Registration not more than 14 credits for UG programmes and 18 credits for Architecture programme.
- Not permitted to register for project work and internship.
- Teaching houses in multiplied by 2.
- Students with 'DX' / 'NP' grade courses can register.
- Students with 'F' / 'AB' grade – To improve CIE marks or for better learning of a course can register (Previously earned CIE marks will not be carried forward). However, they can directly appear for summer SEE by carrying forward the CIE marks.
- Extraordinary students (CGPA \geq 9.0) who wish to complete the programme in 3.5 years can register for higher semester courses.
- Slow learners can choose to drop / not register a few courses in regular semester and register those courses in summer semester.

- **REGISTRATION OF COURSES :**

- Minimum : **16 credits** and Maximum : **28 credits**
- After withdrawal from a course ensure that total number of credits shall not fall below 16 credits.

- **CIE AND / OR ATTENDANCE SHORTAGE**

- Credit course : **'DX' grade**
- Mandatory Non-credit Course : **'NP' grade**

- **VERTICAL PROGRESSION :**

UG PROGRAMME:

| | |
|-----------------|--|
| II Year | 'F' grades totaling to not more than 16 credits in I & II Semesters. |
| III Year | No Restrictions (any number of backlogs). |
| IV Year | No 'F' / 'DX' / 'AB' grades for any of the courses in the I & II Semesters |

- **PG PROGRAMME:**

| | |
|----------------|--|
| II Year | 'F' grades totaling to not more than 16 credits in I & II Semesters. |
| | No Restrictions to move from Odd Semester to Even Semester. |

- **PG PROGRAMME**

- No Summer Semester
- 'DX' / 'NP' grade courses – Re-register in subsequent Odd / Even Semesters.
- Timetable for re-registered courses not to overlap with regular Odd/Even Semester Timetable.
- 'F' / 'AB' grade courses – Appear for SEE directly as backlog courses.
- Odd/Even SEE – for all courses of 'F' / 'AB' grade.

- **AWARD OF DEGREE – Requirements:**

- Obtaining the required credits
- Obtaining CGPA ≥ 4.00 for UG programmes & CGPA ≥ 5.00 for PG programmes
- Not having transitional grades in any course
- Passing all MNC course / Audit Course
- Obtaining prescribed AICTE activity points

- **AWARD OF RANKS**

- Ranks shall be declared at the Institute level
- Passing of all the prescribed courses & credits in the first attempt in Odd, Even & Summer Semesters.
- Each appearance to SEE or absent from SEE shall be treated as an attempt.

- **SUCCESSIVE FAILURES**

- If a student fails to pass a course even after 4 attempts and opts for an alternative course.
- Equivalent alternative course may be offered recommended by the BOS.
- This provision is only for 2 courses.