



# University of Mysore



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## Regulations for B.E Degree Programme

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Under Choice Based Credit System  
*Effective from the Academic Year 2021-22*



**Mysore University School of Engineering**  
Manasagangotri Campus, Mysuru.

## **PREAMBLE**

University Grants Commission (UGC) has stressed on speedy and substantive academic and administrative reforms in higher education for promotion of quality and excellence. The Action Plan proposed by AICTE outlines the need to consider and adopt Semester System, Choice Based Credit System (CBCS), and Flexibility in Curriculum Development and Examination Reforms in terms of adopting Continuous Evaluation Pattern by reducing the weightage on the semester end examination so that students enjoy a learning environment with a lower stress. Further, UGC expects that institutions of higher learning draw a roadmap in a time bound manner to accomplish the above in accordance with NEP 2020.

## **TITLE**

These regulations shall be called Regulations for Choice Based Credit System (CBCS) and Continuous Assessment and Grading Pattern (CAGP) for Undergraduate (UG) B.E Programme of the University of Mysore, Mysuru as per NEP 2020. These Regulations shall come into force from the academic year 2021-2022.

### **1. PRELIMINARY DEFINITIONS AND NOMENCLATURES**

- 1.1 “AICTE” means All India Council for Technical Education
- 1.2 “Commission” means University Grants Commission.
- 1.3 “University” means University of Mysore.
- 1.4 “UoM” means University of Mysore.
- 1.5 “MUSE” means Mysore University School of Engineering
- 1.6 “Programme” means Bachelor of Engineering (B.E) degree programme
- 1.7 “Branch” means specialization in a programme like B.E degree programme in Biomedical and Robotic Engineering, B.E. degree programme in Artificial Intelligence and Data Science.
- 1.8 “Course” means a theory or practical subject, identified by its course – code and course-title, which is normally studied in a semester. For example, 21MAT11: Engineering Mathematics - I, 21PHY12: Engineering Physics, etc.

### **2. PROGRAMMES OFFERED**

Mysore University School of Engineering offers B.E in the following programmes:

- Artificial Intelligence and Data Science
- Artificial Intelligence and Machine Learning
- Biomedical and Robotics Engineering
- Civil Environmental Engineering
- Computer Science and Design

### **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 Mysore 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 Mysore 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. 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 first time into the degree programme.

#### **3.3 SEMESTER STRUCTURE**

- 3.3.1 Each academic year is divided into three semesters, two being main semesters and one being a supplementary semester. Main semesters are for regular class work. Supplementary Semester is primarily for failed students. i.e. registration for a course for the first time is generally not permitted in the Supplementary Semester. However, the following cases are exempted:
  - (i) For students admitted under Lateral Entry Scheme in the subjects 'Constitution of India', 'Environmental Studies' and 'Kannada'
  - (ii) For students admitted on transfer from other universities in the subjects in which they are required to earn credits so as to be on par with regular students as prescribed by concerned 'Board of Studies'.
- 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 supplementary semester shall be a fast – track semester consisting of eight weeks and this period includes time for Registration of Courses, Course Work, Examination preparation, Conduct of Examinations, Assessment and Declaration of final results.
- 3.3.5 All subjects may not be offered in the supplementary semester. The student has to

pay a special fee prescribed by the University to register for a course in the supplementary semester. The supplementary semester is provided to help the student in not losing an academic year. It is optional for a student to make use of supplementary semester. **Supplementary Semester is a special semester and the student cannot demand it as a matter of right.**

3.3.6 The university School of Engineering may use Supplementary Semester to arrange Add-On Courses for regular students and / or for deputing them for practical training/field work and/or internship.

3.3.7 The Academic Calendar is declared at the start of the semester.

#### **4. ADMISSIONS**

4.1 Candidates, for admission to any programme offered by the University school of Engineering are required to satisfy the conditions of admission there to prescribed by UoM, Government of Karnataka, and appropriate statutory body AICTE. 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 qualification is allowed. The admission process will be according to the directions and guidelines issued by appropriate authorities from time to time.

4.3 The University may admit students from other Universities in the commencement of the academic year (odd 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 University.

#### **5. CREDIT SYSTEM**

5.1 All the academic programmes under CBCS are based on Credit System.

5.2 The definition of one credit for any course is as follows:

- Lecture (L): 1 hour/week/semester
- Tutorial (T): 2 hours/week/semester
- Practical (P): 2 hours/week/semester

(The above figures would be multiplied by 2 in the case of supplementary semester).

5.3 The credits for other academic activities like Project work, Seminars, etc., may be intimated from time to time by the University.

5.4 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.

5.5 A student can register for a course for earning credits in order to meet the academic requirements of the programme, as stipulated below in 5.7. Such courses together with the grades obtained and the credits earned will be included

in the Grade Card issued by the University at the end of each semester and they form the basis for determining the academic performance of the student in that semester.

- 5.6 In addition, a student can register for a course for audit only, with the objective of supplementing knowledge / skills. In such cases, the courses will be recorded in the Grade Card as audit courses and will be awarded 'U' grade. The performance in such audit courses will not be taken into account in determining the academic performance of the student in that semester.
- 5.7 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

## 6. REGISTRATION / DROPPING / WITHDRAWAL

- 6.1 Each student has to compulsorily register for course work at the beginning of each semester as per the schedule mentioned in the Academic Calendar. It is absolutely compulsory for the student to register for courses in time. The B.E. students have to normally register for a minimum of 16 credits and may register up to a maximum of 28 credits based on the proctor advice. On an average, a student is expected to register for 22 credits.
- 6.2 **Dropping of Courses:** Within one week after the last date of first internal assessment test or by the date notified in the academic calendar, the student may in consultation with his / her proctor, drop one or more courses without prejudice to the minimum number of credits as specified in 6.1. The dropped courses are not recorded in the Grade Card. Student must complete the dropped subject by registering in the supplementary semester / forthcoming semester in order to earn the required credits.
- 6.3 **Withdrawal from Courses:** A student is permitted to withdraw from a course by the date notified in the academic calendar. However, this fact is recorded in the Grade Card of the student. Such withdrawals will be permitted without prejudice to the minimum number of credits as specified in 6.1. A student cannot withdraw a course more than once & withdrawal of reregistered subjects is not permitted
- 6.4 After Dropping and / or Withdrawal of courses, minimum credits registered shall be 16 for B.E.
- 6.5 A student can register for a maximum number of 14 credits during supplementary semester.

## 7. ASSESSMENT AND GRADING

- 7.1 The assessment will comprise of Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). 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.
- 7.2 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. However, if it is not announced it deemed to be absolute grading system.
- 7.2.2 In absolute grading system, the grade would be assigned based directly on the total raw marks (CIE + SEE) scored by the student according to the following table:
- 7.3 Letter grades and the corresponding grade prints are as follows:

Level	Outstanding	Excellent	Very Good	Good	Above Average	Poor	Fail
Grade	S	A	B	C	D	E	F
Grade Points	10	09	08	07	06	05	00
Score (Marks) Range %	$\geq 90$	$< 90 - \geq 80$	$< 80 - \geq 70$	$< 70 - \geq 60$	$< 60 - \geq 50$	$< 50 - \geq 40$	$< 40$

- 7.4 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.
- 7.5 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.
- 7.6 Grade Points: Depending on the grade assigned, a student earns grade points as indicated in 7.3.
- 7.7 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.
- 7.8 In addition to the letter grades mentioned above, a student may be awarded letter grades of I, W, X or U which are explained below:
- 7.8.1 **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

University. For example, an accident because of which the student could not write the SEE would constitute a valid reason acceptable to the University. The application must include the necessary support documents. If the application is accepted by the University, 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.

- 7.8.2 **Grade “W”:** A student is awarded grade “W” in a course if he/she withdraws from the course with explicit permission from the University authorities, within the time specified in 6.4. The grade “W” once awarded will remain permanently in the Grade Report Card of the student. A student cannot withdraw a course more than once. Student must complete the withdrawn subject by registering in the supplementary semester / forthcoming semester in order to earn the required credits.
- 7.8.3 **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.
- 7.8.4 **Grade “U”:** A student is awarded grade “U” in a course if the student has registered for that course for audit only and provided that the student satisfies the attendance requirements as stipulated in Section 9. This grade would carry no grade points and is not used in the computation of SGPA or CGPA as explained below in 7.10.
- 7.9 **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 University.
- 7.10 **Grade Point Averages:**
- 7.10.1 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,

$$\text{SGPA} = \frac{\Sigma [(Course\ credits) \times (Grade\ points)] \text{ for all Courses in that semester}}{\Sigma [(Course\ credits) \text{ for all courses in that semester}]}$$

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

7.10.2 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.

7.11 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 UoM, AICTE from time to time.

7.12 **Awarding Honors:** After meeting all the academic requirements as per the clause 5.7 and with the approval of the Academic Council and Syndicate, a student is awarded honors as shown below:

CGPA	Honors
$5 \leq \text{CGPA} < 5.75$	Pass (PS)
$5.75 \leq \text{CGPA} < 6.75$	Second Class (SC)
$6.75 \leq \text{CGPA} < 7.75$	First Class (FC)
$\text{CGPA} \geq 7.75$	First Class with Distinction (FCD)

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

7.14 Percentage Equivalence of Grade Points (for a 10-point scale) is given in the following table.

Grade point	Percentage of Marks / Class
5.75	50
6.25	55
6.75	60
7.25	65
7.75	70
8.25	75

**Note:**

- The following formula for conversion of CGPA to percentage of marks to be used only after a student has successfully completed the programme.

$$\text{Percentage of Marks} = (\text{CGPA} - 0.75) \times 10$$



2. Class designation
  - $\geq 70\%$  (First Class with distinction)
  - $\geq 60\%$  and  $< 70\%$  (First Class)
  - $< 60\%$  (Second Class)

## 8 EXAMINATIONS

8.1 A candidate must secure a minimum of 40% in CIE in a given B.E. degree course (see 8.3 below) in order to be considered eligible to write the SEE in that course. Thus, a student securing less than this prescribed minimum of 40% in CIE in a given course will be declared NOT ELIGIBLE(NE) in that course. In addition, a student must secure a minimum of 40 % in Semester End Examination (SEE) in order to be considered as having passed the given course.

8.2 Passing Standards for B.E. degree Programme:

Evaluation Method	Passing Standard
Continuous Internal Evaluation (CIE)	Score $\geq 40\%$
Semester End Examination (SEE)	Score $\geq 40\%$

8.3 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”, “W”, or “X” in that course.

8.4 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”.

8.5 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 as per the clause 5.7 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 (Section 3).

8.6 There will be no re-examination for any course. A failed student must re- register for the course (the same course, if it is hard core, or an alternative course, if it is a soft core or an elective) when it is offered again and fulfill the passing standards.

8.7 A student indulged in malpractice during any examination (CIE / SEE) must face an enquiry by the Malpractice Review Committee of the University 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.

8.8 **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 & practical.

## **9 ATTENDANCE REQUIREMENT**

- 9.1 Each semester is considered as a unit and the candidate has to put in a minimum attendance of 75% in each subject.
- 9.2 The basis for the calculation of the attendance shall be the period prescribed by the university by its calendar of events. For late admission, attendance is reckoned from the date of admission to the programme.
- 9.3 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 be "NE" in that subject.

## **10 REJECTION OF RESULTS**

- 10.1 This option is available to the student only once during the entire period of study.
- 10.2 The student shall take readmission in the same semester for which he/she has decided to reject the results in the next academic year.
- 10.3 It is obvious that the student shall forfeit one complete academic year if he/she uses this opportunity.
- 10.4 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.

## **11 TEMPORARY BREAK OF STUDY FROM THE PROGRAMME**

- 11.1 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/Director 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.
- 11.2 The university 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.
- 11.3 The candidate has to rejoin the programme after the break from the

commencement of the respective semester as and when it is offered.

- 11.4 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.
- 11.5 If any candidate is detained for any reason, the period of detention shall not be considered as 'Break of Study'.

## **12 VERTICAL PROGRESSION**

- 12.1.1 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.
- 12.1.2 The student shall be declared failed if the candidate has not:
- a) Satisfied the CIE requirements of any course/s
  - b) Registered for the SEE even after satisfying the attendance and CIE requirements.

### **12.2 VERTICAL PROGRESSION IN CASE OF STUDENT ADMITTED TO FIRST YEAR:**

- 12.2.1 Students having not more than 04(FOUR) 'F' grade or 'NE' in two semesters of first year of the programme shall be eligible to second year.
- 12.2.2 Students having not more than 04(FOUR) 'F' grade or 'NE' in the four semesters of I and II year shall be eligible to progress to III year.
- 12.2.3 Student who has earned all the prescribed credits of first year (cleared all the subjects of I and II semester), and having not more than 04(FOUR) 'F' grade or 'NE' of second and third year shall be eligible to progress to IV year.
- 12.2.4 'F' grade or 'NE' obtained in mandatory non-credit courses (such as Environmental Studies and Constitution of India) and withdrawn courses are not included in this count of 04 (FOUR).

### **12.3 VERTICAL PROGRESSION IN CASE OF STUDENT ADMITTED TO SECOND YEAR (LATERAL ENTRY)**

- 12.3.1 Student having not more than 04(FOUR) 'F' grade or 'NE' (excluding the pass/fail status of Additional Mathematics – I and Additional Mathematics–II) in the two semesters of II year of the program shall be eligible to progress to III year.
- 12.3.2 Students having not more than 04 (FOUR) 'F' grade or 'NE' (excluding the pass/fail status of Additional Mathematics – I and Additional Mathematics – II if any) in the four semesters of II and III year shall be eligible to progress to IV year.
- 12.3.3 The mandatory non-credit courses Additional Mathematics – I and II at III and IV semesters respectively, to lateral entry diploma holders admitted to III semester

of B.E. 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.

- 12.3.4 Completion of Additional Mathematics – I and II, shall be mandatory for the award of degree.

### **13 TERMINATION FROM THE PROGRAMME**

The admission of a student may be terminated from the programme under following circumstance :

- 13.1 If a student fails to satisfy the requirements of the programme within the maximum period stipulated for that programme.
- 13.2 If a student fails to satisfy the norms of discipline specified by the University from time to time.

### **CONDUCT AND DISCIPLINE**

- 13.3 Each student shall conduct himself / herself in a manner befitting his / her association with Mysore University School of Engineering (MUSE).
- 13.4 He / she is expected not to indulge in any activity, which is likely to bring disrepute to the University.
- 13.5 He / she should show due respect and courtesy to the teachers, administrators, officers and employees of the University and maintain cordial relationships with fellow students.
- 13.6 Lack of courtesy and decorum unbecoming of a student (both inside and outside the University), willful damage or removal of University'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 UoM, noisy and unruly behavior and similar other undesirable activities shall constitute violation of code of conduct for the student.
- 13.7 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 University.
- 13.8 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 University.
- 13.9 Principal, based on the reports of the Warden of University 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 University hostel.
- 13.10 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.

13.11 Attendance is not given to the student during the suspension period.

#### **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 mandatory/bridge courses if any compulsorily for the award of the Degree.
- 14.3 From third semester onwards, the student shall have to undergo course work along with the regular batch.

#### **15 AWARD OF RANK**

- 15.1 Rank will be declared only for those students who have been directly admitted and complete the entire course only within the prescribed time limit, i.e., 4 years for B.E., 3 years for B.E. under lateral entry scheme.
- 15.2 A student shall be eligible for a rank at the time of award of degree in each branch of Bachelor of Engineering programmes 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 Rank and will be based only on CGPA secured from Third to Eight semesters.
- 15.4 Three Ranks for each B.E. Programme of a sanctioned in take of 60 shall be considered.

#### **16 AMENDMENTS**

- 16.1 These regulations, on approval by the Syndicate, Academic Council, shall supersede all the earlier regulations and amendments.
- 16.2 These regulations may get revised / amended from time to time and on approval by the Syndicate, Academic Council shall come into force.