

# गोंय विद्यापीठ

ताळगांव पठार,

गोंय - ४०३ २०६

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(Accredited by NAAC)

## Goa University

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GU/Acad -PG/BoS -NEP Engg. /2024/638

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### CIRCULAR

The University has notified Ordinance OA-42 Governing the Undergraduate (UG) Programmes of Bachelor of Engineering and other such Programmes of study conducted by the on-campus Schools of Goa University and its Affiliated Colleges based on the Guidelines of curriculum and credit framework for undergraduate programmes, All India Council for Technical Education (AICTE) and National Credit Framework (NCrF) from the Academic Year 2024-2025 onwards.

The approved Guidelines for Intra-Semester Assessment (ISA) & Semester End Assessment (SEA) for First year UG- Engineering Programmes RC 24-25 Scheme is attached.

The Dean, Faculty of Engineering and Principals of affiliated Colleges offering the UG-Engineering Programmes are requested to take note of the above and bring the contents of the Circular to the notice of all concerned.

(Ashwin V. Lawande)

Deputy Registrar – Academic

To,

1. The Dean, Faculty of Engineering, Goa University.
2. The Principals of affiliated Engineering Colleges.

Copy to,

1. The Director, Directorate of Technical Education, Govt. of Goa
2. The Controller of Examinations, Goa University.
3. The Assistant Registrar Examinations (Prof.), Goa University.

**GUIDELINES FOR INTRA-SEMESTER ASSESSMENT (ISA)  
FIRST YEAR UG-ENGINEERING PROGRAMMES**

**RC24-25 SCHEME**

**(A) For THREE credits THEORY courses TOTAL = 75 marks (ISA=30 marks & SEA= 45 marks)**

**ISA = 30 Marks**

- As per Ordinance : Four Assessments are to be done; 2 of which shall be evidence based;
- Conduct THREE tests, attendance in any TWO test is compulsory
- Duration of the Test shall be = 1 hour and the Maximum Marks shall be for 20 marks
- Take best of two test marks and compute the AVERAGE score out of 20 marks
- Assignments shall be given to the students (total = 10 marks). Assignment shall be unique for each student, every student will be given a different topic or problem statement. For Communication & Technical Writing (2L+1T), oral presentation by students during the tutorial classes shall be considered for assignment marks (10 marks). For Engineering Mathematics (2L+1T), numericals solved in the tutorial classes shall carry 10 marks;

**(B) For TWO credits THEORY courses TOTAL = 50 marks (ISA=20 marks & SEA= 30 marks)**

**ISA = 20 Marks**

- Three Assessments are to be done; 2 of which shall be evidence based;
- Conduct THREE tests, attendance in any TWO test is compulsory
- Duration of the Test shall be = 1 hour and the Marks will be for 15 marks
- Take best of two test marks and compute the AVERAGE score out of 15 marks
- In addition, assignment shall be given, ONE assignment which shall be for 5 marks. Assignment shall be unique for each student, every student will be given a different topic or problem statement.

**(C) For ONE credit THEORY courses TOTAL = 25 marks : Presently NO SUCH COURSE is being offered**

**(D) For THREE credits PRACTICAL courses TOTAL = 75 marks (ISA=45 marks & SEA= 30 marks)**

**ISA = 45 Marks**

- For courses such as **Engineering Drawing and Design Project** : As mentioned in the syllabus 6 sheets have to be submitted for Unit-1, 2 & 4: each will carry 5 marks = Total = 30 marks. Unit 3 is mini-project – paper model has to be prepared and submitted = 10 marks. Max. 5 marks towards – team work, attitude, cleanliness, punctuality, and other such attributes. TOTAL = 45 marks.
- For courses such as **Engineering Graphics and Design with UI/UX** : As mentioned in the syllabus 6 sheets have to be submitted for Unit-1, 2: each will carry 4 marks = Total = 24 marks. Unit 3 & 4 is mini-project (soft copy only) = 16 marks. Max. 5 marks towards – team work, attitude, cleanliness, punctuality, and other such attributes. TOTAL = 45 marks.
- For courses such as **Civil and Mechanical Workshop**: For each job / model and record keeping for that job = 10 marks, Total = 40 marks. For every experiment student has to write the - procedure, drawing with dimensions or such other as per lab requirements. Max. 5 marks towards – team work, attitude, cleanliness, punctuality, attending demo classes for certain jobs and other such attributes while performing the practical. TOTAL = 45 marks.

- For courses such as **Electronics and Mechanical Workshop**: For each job / model and record keeping from Part A =15 marks, Part B=15 marks and Part C=15 marks. Total = 45 marks. For every experiment student has to write the - procedure, drawing/circuit with dimensions/ list of devices and its specification or such other as per workshop/lab requirements.

**(E) For TWO credit PRACTICAL courses TOTAL = 50 marks; Presently NO SUCH COURSE is being offered**

**(F) For ONE credit PRACTICAL courses TOTAL = 25 marks (ISA=15 marks & SEA= 10 marks)**

**ISA = 15 Marks**

- For Courses such as Applied Physics, Environmental Science and Sustainability, Engineering Chemistry, Basics of Civil Engineering Lab, Fundamentals of Mechanical Engineering Lab, and such other similar courses
  - a) Students have to perform Min. 8 to 10 experiments as stated in the Syllabus. Every experiment will carry equal marks. Example: 8 experiments, each experiment is 5 marks = total 40 marks; In case of 10 experiments, each experiment = 4 marks = total 40 marks.
  - b) Lab book = Student has to write the - procedure, record data, calculation, drawing, graphs or such other as per experimental requirements.
  - c) Max. 5 marks towards – team work, attitude, cleanliness, punctuality, participation in demo classes for certain experiments and other such attributes while performing the experiments /practical.
  - d) TOTAL = 45 marks – which will be divided by 3 = **TOTAL = 15 marks.**
- For courses such as Indian Knowledge System and Creative Thinking and Innovation
  - a) As per syllabus, students to choose topics and work in teams
  - b) TWO assessments are to be done, each of 15 marks and best of the two scores shall be considered as per OA-42.
  - c) Every assessment shall have TWO components: presentation and report. Soft copy of the presentation and hardcopy of the report is to be retained by the faculty-in-charge.

**GUIDELINES FOR SEMESTER END ASSESSMENT (SEA)  
FIRST YEAR UG-ENGINEERING PROGRAMMES**

**RC24-25 SCHEME**

Note: Goa University will NOT be doing any scaling of the SEA marks; hence question paper will also be without any scaling factors. MARKS AWARDED SHALL ONLY BE WHOLE NUMBER AND NO NEGATIVE MARKING. FRACTION OR DECIMAL marks shall not be awarded in ISA and SEA.

**(A) For THREE credits THEORY courses TOTAL = 75 marks: SEA = 45 Marks**

- As per OA-42 Ordinance : SEA with >25 marks and <50 marks = 2 hours
- Duration of Exam = 2 hours
- Part A: (Unit 1 & 2) = 3 questions each 9 marks = 27 marks :
- Answer ANY TWO questions = 18 marks
- Part B: (Unit 3 & 4) = 3 questions each 9 marks = 27 marks :
- Answer ANY TWO questions = 18 marks
- Part C: (Full Syllabus) = 2 question each 9 marks = 18 marks;
- Answer ANY ONE question = 9 marks
- Student has to score minimum 18 marks to pass in SEA and overall (ISA+SEA) = 30 marks

**(B) For TWO credits THEORY courses TOTAL = 50 marks: SEA= 30 marks**

- As per OA-42 ordinance : SEA with >25 marks and <50 marks = 2 hours
- Duration of Exam = 2 hours
- Part A: (Unit 1 & 2) = 3 questions each 6 marks = 18 marks :
- Answer ANY TWO questions = 12 marks
- Part B: (Unit 3 & 4) = 3 questions each 6 marks = 18 marks :
- Answer ANY TWO questions = 12 marks
- Part C: (Full Syllabus) = 2 question each 6 marks = 12 marks;
- Answer ANY ONE question = 6 marks
- Student has to score minimum 12 marks to pass to pass in SEA and overall (ISA+SEA) = 20 marks

**(C) For THREE credits THEORY course – Interdisciplinary Course - TOTAL = 75 marks: SEA= 45 marks**

Example: MCV-111 – Basics of Mechanical and Civil Engineering

- As per OA-42 ordinance : SEA with >25 marks and <50 marks = 2 hours
- Duration of Exam = 2 hours
- Part A (Mechanical Engineering): (Unit 1 & 2) = 4 questions each 8 marks = 32 marks
- Answer ANY THREE questions = 24 marks
- Part B (Civil Engineering): (Unit 3 & 4) = 4 questions each 7 marks = 28 marks
- Answer ANY THREE questions = 21 marks
- Student MUST use TWO separate ANSWER BOOKLETS for PART A (Mechanical Engineering) and PART B (Civil Engineering)
- Question paper will be set jointly by BOS(Mechanical Engineering) and BOS (Civil Engineering)
- Student has to score minimum 18 marks taken together to pass in SEA and overall (ISA+SEA) = 30 marks

**(D) For ONE credit THEORY courses TOTAL = 25 marks : Presently NO SUCH COURSE is being offered**

**(E) For THREE credits PRACTICAL courses TOTAL = 75 marks (ISA=45 marks & SEA= 30 marks)**

**SEA = 30 Marks**

- For courses such as **Engineering Drawing and Design Project**;
  - a) Duration = 2.5 hours = 150 minutes (as per OA-42)
  - b) Practical Examiners (**one internal & one external**) will write the questions on the board – Three questions each 15 marks – one from each unit 1, 2, and 4. Unit 3 no questions in the final exam. Student will have to answer ANY TWO. Student will have to submit the drawing sheets with his/her signature and signatures of the examiners.
  - c) Student has to score minimum 12 marks to pass in SEA and overall (ISA+SEA) = 30 marks
- For courses such as **Engineering Graphics and Design with UI/UX** ;
  - a) Duration = 2.5 hours = 150 minutes (as per OA-42)
  - b) Practical Examiners (**one internal & one external**) will write the questions on the board – Three questions each 15 marks from **Unit 3 & 4 only**. No questions from Unit 1 & 2 in SEA. Student will have to answer ANY TWO.
  - c) Print out of the Design shall be taken and signed by the student and the examiners.
  - d) Student has to score minimum 12 marks to pass in SEA and overall (ISA+SEA) = 30 marks
- For courses such as **Mechanical and Civil Workshop**:
  - a) Duration = 2.5 hours = 150 minutes (as per OA-42)
  - b) Practical Examiner (one internal & one external) will prepare the slips with different problems from Unit1, 2, 3, 4. Student will have to pick up ONE slip at random and prepare the model as specified in the slip. Evaluation will be 5 marks for Writing the Procedure, tools to be used, etc; 20 marks for the model; 5 marks for viva / orals = Total 30 marks. If student is unable to perform the model, he/she can pick up one more ALTERNATE slip – but will lose 3 marks as penalty. Hard copy of the procedure written by the student along with the signature of the student and the examiners.
  - c) Student has to score minimum 12 marks to pass in SEA and overall (ISA+SEA) = 30 marks
- For courses such as **Electronics and Mechanical Workshop**:
  - a) Duration = 2.5 hours = 150 minutes (as per OA-42)
  - b) Practical Examiner (one internal & one external) will prepare the slips with different problems from Part C ONLY. Student will have to pick up ONE slip at random and perform the task as specified in the slip. Evaluation will be 5 marks for Writing the Procedure, 20 marks for the performing the task using the software on the computer; 5 marks for viva / orals = Total 30 marks. If student is unable to perform the model, he/she can pick up one more ALTERNATE slip – but will lose 3 marks as penalty. Hard copy of the task performed will be taken, signed by the students and the examiners.
  - c) Student has to score minimum 12 marks to pass in SEA and overall (ISA+SEA) = 30 marks

**(F) For TWO credit PRACTICAL course TOTAL = 50 marks; Presently NO SUCH COURSE is offered**

**(G) For ONE credit PRACTICAL courses TOTAL = 25 marks (ISA=15 marks & SEA= 10 marks)**

**SEA = 10 Marks**

- **For Courses such as Applied Physics, Environmental Science and Sustainability, Engineering Chemistry, Basics of Civil Engineering Lab, Fundamentals of Mechanical Engineering Lab, and such other similar courses**
  - a) Duration of the exam: 1.5 hour = 90 minutes (as per OA-42)
  - b) Student shall have to pick up a slip at random and perform ONE experiment. If student is unable to perform the experiment, he/she can pick up one more ALTERNATE slip – but will lose 3 marks as penalty.
  - c) 2 marks for writing the procedure; 6 marks for conducting the experiment, calculations, graphs, etc., 2 marks for viva / orals = Total 10 marks.
  - d) Student has to score minimum 4 marks for passing at SEA and overall (ISA+SEA) = 10 marks
- **For Courses such as Creative Thinking and Innovation Lab, Indian Knowledge System and other similar courses**
  - a) Duration of the exam: 1.5 hour = 90 minutes (as per OA-42)
  - b) Presentation shall be done jointly by 2 or 3 or 4 member student group, who have jointly worked on the project/design/simulation/app/ study topic/model. Assessment Max. Marks = 4 marks per student.
  - c) Examiners (one internal & one external) shall conduct oral/viva-voce for each of the students separately. Assessment Max. Marks = 3 marks
  - d) In the answer booklet provided student shall write 300 words or more about the project /design /simulation/ app/ study/ model developed in his/her own words, sign the answer sheet and submit the same. Assessment Max. Marks = 3 marks.
  - e) Student has to score minimum 4 marks for passing at SEA and overall (ISA+SEA) = 10 marks.

**NOTE**

- Squad teams shall visit colleges during theory and practical examination. The squad team shall submit report on the same day. If there are any discrepancies the same shall be recorded and submitted to COE, if there are no discrepancies a NIL report shall be submitted by the team.
- Since there is option for Multi-point Entry and Exit as per the OA-42, GU is planning to conduct Sem I to Sem IV examination – theory and practical similar to the present day Sem V to Sem VIII sem. Hence, practical examination shall have one internal and one external examiner from Sem I to IV.