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DATE: 11 NOV 2025

**CIRCULAR**

**Subject:** Semester End Examination (SEE) Details for B.E./B.Tech. Programmes – 2025 Scheme regarding...  
**Reference:** Dean Faculty of Engineering approval dated 11.11.2025

Sir/Madam,

The Semester End Examination (SEE) details for B.E./B.Tech. programmes of 2025 scheme have been prepared and made available for reference on university web portal @ <https://vtu.ac.in/en/b-e-scheme-syllabus/> and also attached with this circular.

All affiliated colleges principals are hereby informed to bring the above information to the notice of all concerned faculty members and students and ensure adherence to these guidelines while conducting examinations under the 2025 Scheme.

**Encl:** As mentioned above

*Rampure/11/11/25*  
**REGISTRAR**  
 

To,

01. The principals of Non-Autonomous, Constituent Engineering Colleges under the ambit of the University.
02. The Chairpersons/Programme Coordinators of University Departments at Kalburgi, Belagavi, Bengaluru, and Mysuru

Copy to,

1. The Hon'ble Vice-Chancellor, through the Secretary to the VC, for information
2. The Dean Faculty of Engineering for information
3. The Registrar (Evaluation) for information and needful
4. The Director ITI SMU, VTU Belagavi for information and make arrangements for uploading of the Notification on the VTU web portal
5. The Special Officer, QPDS section VTU Belagavi, for information and needful
6. Office file

**Course-wise Assessment and Evaluation of Students using Assigned Rubrics  
And  
Addressing Noncompliance Issues**

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**Introduction**

In academic programmes, the students are assessed and evaluated during the learning period. The effectiveness of teaching-learning is measured continuously over a semester. Such measurement is termed, formative assessment or Continuous Evaluation (CIE). After the completion of the learning process (i.e., at the end of the course or semester), a Semester End Examination (SEE), also called the summative evaluation, is conducted to judge the achievement or to certify the competence of the students.

Although the terms assessment, evaluation and examination are often used interchangeably, their aims and purposes differ.

**Assessment**

Assessment is primarily formative in nature, providing ongoing feedback, to improve, mainly, the teaching -learning process, for both students and teachers.

Assessment is the systematic process of collecting information about students' knowledge, skills, attitudes, or performance through various methods. Examples of assessment methods can be through class tests, assignments, quizzes, lab observations and performance, project reviews, presentations, reviews, viva voce, group discussions, etc.

In a classroom environment, the assessment is conducted on specific learning objectives or competencies, by teachers or instructors or both, focusing on individuals to improve learning and performance.

The assessment process, helps both teachers and students understand how to teach and learn and how performance can be measured.

**Evaluation**

Evaluation or examination is primarily summative in nature. It is conducted at the end of the semester, to judge the achievement of the student after the completion of the learning process. The purpose of evaluation is to award a grade using the University's grading scale (for example, *O*, *A*<sup>+</sup>, *A*, *B*<sup>+</sup>, *B*, *C*, *P*, *F*), and take decisions about promotion, ranking, and /or certification. The grades are decided by the total marks obtained both in CIE and SEE. However, in some courses (subjects or papers), grading is based solely on the performance in CIE.

Examples of evaluation methods include semester-end examinations, final projects, internships and viva voce examinations.

In higher education, examinations are generally conducted by the University or institution, and students are evaluated by external examiners or a panel of subject experts to ensure fairness and objectivity.

Examinations are intended to determine the overall effectiveness of the educational system with respect to the expected learning outcomes of the programme. The results of such evaluations are utilised to improve curricula, teaching and learning methodologies and academic policies.

**Academic Rubrics**

An academic rubric is a set of instructions or rules or a structured tool, used to assess and evaluate a student's performance in a course or component of an academic programme. It helps to quantify qualitative performance, thereby ensuring consistency and objectivity in evaluation. Rubrics play an important role in achieving the goals of Outcome-Based Education (OBE).

A set of rubrics serves as a scoring guide aligned with Bloom's Taxonomy of cognitive learning levels, ranging from lower-order thinking skills to higher order (e.g., remembering, understanding, applying) to higher-order skills (analysing, evaluating, creating).

Rubrics help students understand the connection between their work and corresponding cognitive levels, guiding them in progressing from basic recall to more complex analysis and creative problem-solving. They promote fair and transparent and criteria-based evaluation.

Each level of performance within a rubric is assigned a numerical or percentage value of total marks, which contributes to the calculation of the total score for a task or course component.



<b>Preservation of Academic Records</b>	
<b>a</b>	All documents related to students' academic activities — including theory, practicals, projects, internships, etc. — shall be preserved by the Principal or Head of the Department for a minimum period of <b>three years</b> after the announcement of University results. These records shall be made available for verification as and when directed by the <b>Registrar (Evaluation)</b> . <b>Blue Books</b> shall be used for writing tests, assignments/unit tests, and written quizzes.
<b>b</b>	All SEE answer booklets, after the completion of the practical examinations, shall be compulsorily handed over by the colleges to the University.
<b>Assessment of Courses and Addressing of Noncompliance Issues</b>	
<b>01</b>	<p><b>Core Courses: Basic Science Courses (BSC), Professional Core Courses (PCC), Professional Elective Courses (PEO) and Open Elective Courses (OEC), assigned with 3 or 4 credits:</b></p> <p>These courses are evaluated with the following assigned marks CIE marks: 50, SEE Marks: 50, SEE Evaluation Maximum marks:100</p>
<b>a</b>	<p><b>Continuous Internal Evaluation (CIE):</b></p> <p>The CIE marks are decided by conducting tests and other outcome-based activities(CCA). The continuous internal evaluation shall be carried out by the teacher who is teaching the course. Out of 50 marks earmarked for CIE, <b>25 marks</b> shall be assigned for internal tests and the other <b>25 marks</b> shall be for Continuous Course Assessment (CCA). CCA will be conducted as per the rubrics listed in the <i>Assessment</i> section of the respective course syllabus.</p> <ol style="list-style-type: none"> <li>The <b>first test</b> shall be conducted after completing two modules of the syllabus and the <b>second</b> one after completing the remaining three modules.</li> <li>CCA will be conducted for a total of 25 marks as per the rubrics listed in the <i>Assessment</i> section of the respective course syllabus.</li> <li>Student shall obtain a minimum of 40 % marks or 20 out of 50 marks allotted to CIE to become eligible to appear for the SEE.</li> <li>Students who fail to earn the required minimum CIE marks may be given chances before the closure of the semester to earn the required CIE marks. No redoing of CIE is permissible after the semester term ends.</li> </ol> <p><b>Noncompliance of CIE Marks:</b> In case students fail to secure the minimum CIE marks, they have to register for the same course during the summer semester or subsequent semester when that course is offered.</p>
<b>b</b>	<p><b>Semester End Examination (SEE):</b></p> <p>Examination duration: 3 hours</p> <p>The examination shall be conducted for 100 marks.</p> <p>Question paper pattern:</p> <ol style="list-style-type: none"> <li>The question paper will have ten questions, with two questions from each module or unit. Each question is set for 20 marks.</li> </ol>

	<p>2) Students have to answer 5 full questions, selecting one full question from each module.</p> <p>3) (a) Each of the two questions under a module will have a mix of topics under that module. The number of sub-questions, if any, will not exceed 3.</p> <p>(b) Students have to select only one full question from the two questions per module for answering.</p> <p>(c) If at all a student attends both the questions in full or in part, only one of them, which has more marks, shall be considered.</p> <p>For a pass in the Semester End Examination (SEE), a student shall secure a minimum of 35 marks out of 100.</p> <p>For the declaration of a grade, the sum of the Continuous Internal Evaluation (CIE) marks and the SEE marks (both scaled down to 50) shall be greater than or equal to 40 marks.</p> <p>If the total (CIE + SEE) is less than 40 marks, the student shall be awarded the grade 'F' (Fail).</p> <p><b>Noncompliance of SEE Marks:</b> Students securing an F grade in any course shall reappear for that course during the summer semester or the subsequent SEE when the course is offered. The CIE marks secured by students at the first attempt in the concerned course shall be carried forward. Revised CIE marks are considered only for courses where the students have grade DX due to a shortage of attendance or non compliance of CIE minimum marks.</p>
<b>02</b>	<p><b>Integrated Course (IC) and Integrated Professional Core Courses (IPCCs)</b></p> <p>Integrated Course (IC): Courses other than Engineering Stream courses that include both theoretical and practical components merged into a single course are referred to as Integrated Courses (ICs).</p> <p>Integrated Professional Core Course (IPCC): Courses belonging to the Engineering Stream, in which the practical component is merged with the theoretical component, are referred to as Integrated Professional Core Courses (IPCCs).</p> <p>These courses are evaluated with the following assigned marks:</p> <p>Total CIE marks: 50 marks</p> <p>Theory CIE marks: 25, Laboratory CIE Marks: 25,</p> <p>Theory SEE Maximum evaluation marks:100. (While announcing the SEE marks, the secured marks for 100 marks shall be scaled down to 50 marks).</p>
<b>a</b>	<p><b>Continuous Internal Evaluation (CIE)</b></p> <p><b>Theory Part:</b></p> <p>The CIE marks of 25 shall be earmarked for two tests.</p> <p>The <b>first test</b> shall be conducted after completing two modules of the syllabus and the <b>second</b> one after completing the rest three modules.</p> <p>Each test shall be conducted for 25 marks. The sum average of the two tests shall be the test marks for a maximum of 25 marks.</p>



**Laboratory Part**

Out of 25 marks, 15 marks shall be for assessment as per the rubrics mentioned in the course syllabus, and the rest 10 marks shall be based on the practical test conducted by two examiners (Internal) appointed by the HoD. The allotment of marks shall be as per the rubrics defined for regular class work and practical test, as indicated in the table shown below.

<b>Table - Distribution of marks</b>		
<b>Component</b>	<b>Description</b>	<b>Marks</b>
<b>Allotment of marks for regular class work</b>		
Ability in Conducting Experiments	Initiative, skill, safety practices, teamwork, and independent handling of equipment during regular lab sessions.	5 marks
Laboratory Record / Journal	Regular and neat maintenance of lab record, accuracy of results, and timely submission.	10 marks
<b>Subtotal</b>		<b>15</b>
<b>Allotment of marks for CIE practical test</b>		
Laboratory Test / Experiment Performance	Ability to set up apparatus, follow procedure, take observations, and obtain correct results in the test experiment.	5 marks
Viva-Voce	Understanding of theory, concepts, and experimental procedure; ability to explain results and answer related questions.	5 marks
<b>Subtotal</b>		<b>10</b>
<b>Total</b>		<b>25</b>

- I. To qualify and become eligible to appear for SEE in the CIE theory component, a student must score at least 40 % 25 marks, i.e., 10 marks.
- II. To qualify and become eligible to appear for SEE in the CIE Practical component, a student must secure a minimum of 40 % 25 marks, i.e., 10 marks.
- III. Students who fail to earn the required minimum CIE marks may be given chances before the closure of the semester to earn the required CIE marks. No redoing of CIE is permissible after the semester term ends.

**Noncompliance of CIE Marks:** In case students fail to secure the minimum CIE marks, they have to register for the same course during the summer semester or the subsequent semester.

**b Semester End Examination (SEE):**

Examination duration: 3 hours

The examination shall be conducted for 100 marks.

Question paper pattern:

1. The question paper will have ten questions, with two questions from each module or unit. Each question is set for 20 marks.
2. Students have to answer 5 full questions, selecting one full question from each module.

	<p>a) Each of the two questions under a module will have a mix of topics under that module. The number of sub-questions, if any, will not exceed 3</p> <p>b) Questions pertaining to laboratory experiments shall be included in two or 3 modules. The sum total of the laboratory experiments all together shall not exceed 20 marks.</p> <p>c) Students have to select only one full question of one unit out of the two for answering.</p> <p>d) If at all a student attends both the questions in full or in part, only one of them, which has more marks, shall be considered.</p> <p>e) To pass the SEE, a student must secure a minimum of 35% of 50 marks, i.e., 18 marks.</p> <p>f) A student is deemed to have completed the course if the combined total of CIE and SEE is at least 40 out of 100 marks.</p> <p><b>Noncompliance of SEE Marks:</b> Students securing an F grade in any course shall reappear for that course during the summer semester or the subsequent SEE whenever offered. The CIE marks secured by students at the first attempt in the concerned course shall be carried forward. Revised CIE marks are considered only for courses where the students have grade DX due to a shortage of attendance or non-compliance of CIE minimum marks.</p>
03	<p><b>Theory Courses with 2 Credits:</b></p> <p><b>Programme Specific Biology:</b> refers to biology content customized for a particular engineering or academic programme. It focuses on biological concepts relevant to that specific branch of study (such as Civil, Mechanical, Electrical, or Computer Engineering) and helps students understand the application of biology within their discipline.</p> <p><b>Research Methodology and IPR (02 credits):</b> The course Research Methodology and Intellectual Property Rights (IPR) shall be taught by the faculty of the respective colleges. Provision has also been made to offer the course in online mode by Centre for Online Education (COE), VTU. Students may opt for any one of the above two modes. Once one type of mode is selected, students shall not be permitted to switch to other mode. The attendance requirement shall be decided as per the selected mode of teaching-learning.</p> <p>The course shall be evaluated through CIE and SEE. Subjective type CIE shall be conducted at the respective colleges by the course teacher and subjective type SEE shall be conducted by the University as per the examination timetable.</p>
	<p><b>a Continuous Internal Evaluation (CIE):</b></p> <p>The CIE marks are decided by conducting tests(IA Test) and other outcome-based activities(CCA) as per the rubrics listed in the syllabus section of the course. The continuous internal evaluation shall be carried out by the teacher who is teaching the course. Out of 50 marks earmarked for CIE, <b>25 marks</b> shall be assigned for internal tests and other <b>25 marks</b> shall be for Continuous Course Assessment (CCA). It is</p>



	<p>recommended to include a learning activities as per the rubrics listed in the <i>Assessment</i> section of the respective course syllabus</p> <ol style="list-style-type: none"> <li>Student shall obtain a minimum of 40 % marks or 20 out of 50 marks allotted for CIE to become eligible to appear for the SEE.</li> <li>Students who fail to earn the required minimum CIE marks may be given chances before the closure of the semester to earn the required CIE marks. No redoing of CIE is permissible after the semester term ends.</li> </ol> <p><b>Noncompliance of CIE Marks:</b> In case students fail to secure the minimum CIE marks, they have to register for the same course during the summer semester or subsequent semester whenever the course is offered.</p>
	<p><b>b Semester End Examination (SEE):</b></p> <p>Examination duration: 3 hours</p> <p>The examination shall be conducted for 100 marks.</p> <p>Question paper pattern:</p> <ol style="list-style-type: none"> <li>The question paper will have ten questions, with two questions from each module or unit. Each question is set for 20 marks.</li> <li>Students have to answer 5 full questions, selecting one full question from each module.</li> <li>(a) Each of the two questions, with no sub-questions, under a module will have a mix of topics under that module. (b) Students have to select only one full question of one unit out of the two per module for answering. (c) If at all a student attends both the questions in full or in part, only one of them, which has more marks, shall be considered.</li> </ol> <p>For a pass in the Semester End Examination (SEE), a student shall secure a minimum of 35 marks out of 100.</p> <p>For the declaration of a grade, the sum of the Continuous Internal Evaluation (CIE) marks and the SEE marks (both scaled down to 50) shall be greater than or equal to 40 marks.</p> <p>If the total (CIE + SEE) is less than 40 marks, the student shall be awarded the grade 'F' (Fail).</p> <p><b>Noncompliance of SEE Marks:</b> Students securing an F grade in any course shall reappear for that course during the summer semester or the subsequent SEE. The CIE marks secured by students at the first attempt in the concerned course shall be carried forward. Revised CIE marks are considered only for courses where the students have grade DX due to a shortage of attendance or non-compliance of the minimum CIE marks.</p>
<b>04</b>	<b>Laboratory Courses</b>
<b>1</b>	<p><b>Computer-Aided Engineering Drawing (CAED)</b></p> <p>The course shall be evaluated with the following assigned marks:</p>

	<p>CIE marks: 50, SEE Marks: 50, SEE Maximum evaluation marks:100.</p> <p>The evaluation of the course is common to all streams. The SEE of CAED shall be conducted in batches, similar to the conduct of practical examinations, and evaluated for a maximum of 100 marks.</p> <p>Since a provision has been made by the ITI-SMU of VTU to automatically scale down SEE marks of 100 to 50 marks during result processing, all the <b>examiners shall mark</b> the marks secured by the students for <b>100 marks</b> on the practical Answer Booklet and enter the same to the <b>VTU Online Portal</b> without scaling down to 50 Marks</p>
<b>a</b>	<p><b>Continuous Internal Evaluation (CIE)</b></p> <p>The course teachers shall follow the rubrics mentioned in the syllabus for the award of CIE marks.</p> <ol style="list-style-type: none"> <li>I. Students shall obtain a minimum of 40 % marks or 20 out of 50 marks allotted for CIE to become eligible to appear for the SEE.</li> <li>II. Students who fail to earn the required minimum CIE marks may be given chances before the closure of the semester to earn the required CIE marks. No redoing of CIE is permissible after the semester term ends.</li> </ol> <p><b>Noncompliance of CIE Marks:</b> In case students fail to secure the minimum CIE marks, they shall register for the same course during the summer semester or subsequent semester whenever the course is offered.</p>
<b>B</b>	<p><b>Semester End Examination (SEE):</b></p> <p>Examination duration: 3 hours</p> <ol style="list-style-type: none"> <li>I. The SEE shall be conducted in batches, similar to the conduct of practical examinations, and evaluated for a maximum of 100 marks.</li> <li>II. Two full questions shall be set from each of Modules 1, 2, 3, and 4 [Refer to the table showing the Question Paper Pattern and Marks allotment].</li> <li>III. Students shall answer 4 questions, selecting only one full question out of two from each module. If at all a student attends both the questions in full or in part, only one of them, which has more marks, shall be considered.</li> </ol>

Table - Question Paper Pattern and Marks allotment						
Module	Q. No.	Topic	Particulars	Marks allotment for		Total
				Sketching (A)	Computer display and print out (B)	
Module - 1	1. a	Points	Drawing XY line and indicating the position of HP and VP	-	01	8
			Projection of points and naming (including specific answer asked, if any)	02	05	
	1. b	Lines	Drawing XY line and indicating the position of HP and VP	-	-	12
			Projection of lines and naming	02	06	
			Answer (If no specific answer is asked the marks are to be added to projections)	01	03	
	OR		Total	05	15	20
	2. a	Planes	Initial Position	02	05	20
			2 <sup>nd</sup> Position	01	04	
			3 <sup>rd</sup> Position (with answer if any) (If the 3 <sup>rd</sup> position is not required merge the marks to 1 <sup>st</sup> and 2 <sup>nd</sup> position)	02	06	
			Total		05	15
Module - 2	3. a	Solids	Initial Position	02	08	30
	OR		2 <sup>nd</sup> Position	01	07	
	4. a		3 <sup>rd</sup> Position (with answer if any)	02	10	
			Total	05	25	30
Module - 3	5. a	Development	Initial Position	02	08	25
	OR		Development (with answer if any)	03	12	
	6. a	Total		05	20	25
Module - 4	7. a	Isometric view	Initial Position in orthographic view, if required or else merge with isometric view	01	04	25
			Isometric view (For combination of Two solids – divide the marks equally between two solids)	04	16	
	OR		Total	05	20	25
	8. a	Conversion of isometric drawings into orthographic	Front View	2	8	25
			Top View	2	6	
			Side View	1	6	
Total			05	20	25	
GRAND TOTAL (A + B)				20	80	100

	<p>IV. Question papers shall be provided by the University for each batch as per the published schedule notified by the Registrar (Evaluation).</p> <p>V. The Semester End Examination (SEE) shall be conducted by one Internal Examiner and one External Examiner appointed by the University.</p> <p>VI. The evaluation of the answer scripts shall be jointly carried out by both examiners.</p> <p>VII. Sketching in practical answer booklet is compulsory. If a student completes the solution directly on the computer without sketching, only the marks assigned for the computer display and printout shall be awarded during evaluation.</p> <p>VIII. After completing the drafting work, the candidate shall take printouts on the sheets supplied by the University and enclose them along with the CAED Answer Booklet containing the sketches.</p> <p>IX. Up to 10% of the maximum marks may be allotted for annotations and dimensioning.</p> <p>X. No Viva-Voce examination shall be conducted for this course. For a pass in the Semester End Examination (SEE), a student shall secure a minimum of 35 marks out of 100.</p> <p>For the declaration of a grade, the sum of the Continuous Internal Evaluation (CIE) marks and the SEE marks (both scaled down to 50) shall be greater than or equal to 40 marks. If the total (CIE + SEE) is less than 40 marks, the student shall be awarded the grade 'F' (Fail).</p> <p><b>Noncompliance of SEE Marks:</b> Students securing an F grade in any course shall reappear for that course during the summer semester or the subsequent SEE whenever the course is offered. The CIE marks secured by students at the first attempt in the concerned course shall be carried forward. Revised CIE marks are considered only for courses where the students have grade DX due to a shortage of attendance or non-compliance of minimum CIE marks.</p>
2	<p><b>Laboratories with Conventional and Open-Ended Problems/Experiments</b></p> <p>These courses are evaluated with the following assigned marks: CIE marks: 50, SEE Marks: 50, SEE Maximum evaluation marks:100. Duration of the Examination: 3 hours. Students shall judiciously utilise the duration to attend both PART-A and PART-B. The laboratory syllabi of such courses consist of PART-A and PART-B. While PART-A has conventional experiments, PART-B has typical open-ended experiments to illustrate the type of open-ended problems or experiments. Both PART-A and PART-B are considered for CIE and SEE.</p>
a	<p><b>Continuous Internal Evaluation (CIE)</b></p> <p>Out of 50 marks, 35marks shall be to assess the regular classwork and test of Part-A and the rest 15 marks shall be for the Part-B.</p> <p><b>Continuous Internal Evaluation of Part A and Part-B</b></p>

Out of 35 marks prescribed for Part-A, 20 marks shall be considered for the assessment of the regular classwork as per the rubrics mentioned in the syllabus. The rest 15 marks shall be for the test conducted by the concerned course instructor handling the laboratory classes. The allotment of marks for regular class assessment and test shall be as per the rubrics indicated in the Table.

<b>Table - Distribution of CIE marks for Part-A and Part-B</b>		
<b>Component</b>	<b>Description</b>	<b>Marks</b>
<b>Allotment of marks for regular classwork of Part-A</b>		
Attendance, punctuality, Ability in Conducting Experiments	Initiative, skill, safety practices, teamwork, and independent handling of equipment during regular lab sessions.	10 marks
Laboratory Record / Journal	Regular and neat maintenance of lab record, accuracy of results, and timely submission, units, graphical work, etc.	10 marks
<b>Allotment of marks for the Test under Part-A</b>		
Laboratory Test / Experiment performance	Ability to set up apparatus, follow procedure, take observations, and obtain correct results in the test experiment.	10 marks
Viva-Voce	Understanding of theory, concepts, and experimental procedure; ability to explain results and answer related questions.	05 marks
<b>Total of Part-A</b>		<b>35</b>
<b>Allotment of marks for regular classwork of Part-B</b>		
Problem formulation / identification/Approach / Design & planning	Understanding the given open-ended task or defining the objective, Logical approach, innovative ideas, circuit/model design	05 marks
Implementation / experimentation/ Result analysis and validation/ Report / Documentation / Presentation	Actual execution, correctness, practical skills/ Interpretation, comparison with expected outcomes/ Organization, clarity, creativity, technical writing.	05 marks
<b>Allotment of marks for the Test under Part-B</b>		
Problem understanding & planning, Implementation / design execution.	Clarity of concept, logical plan, innovative method, communication, etc.	05 marks
Viva / Justification of approach	Explanation of reasoning and methods used	
<b>Total of Part-B</b>		<b>15</b>
<p><b>Note:</b> Classwork of Part-B assessment shall be based on at least 4 open ended problems. These problems may or may not have a solution and may not be solved in the allotted time. Therefore, process-based evaluation involving logical approach shall be considered for the award of CIE marks. Sufficient time beyond class hours may be granted to students to engross themselves into open-ended problems. These problems may be attempted either individually or in a group with not more than 4 students per group. When the open-ended problems are assigned to a group, the CIE marks awarded shall be the same for all the students.</p>		
<b>Totl CIE marks</b>		<b>50</b>

- I. Students shall obtain a minimum of 40 % of CIE marks or 20 out of 50 marks to become eligible to appear for the SEE.
- II. Students who fail to earn the required minimum CIE marks may be given chances before the closure of the semester to earn the required CIE marks. No redoing of CIE is permissible after the semester term ends.

**Noncompliance of CIE Marks:** In case students fail to secure the minimum CIE marks, they have to register for the same course during the summer semester or the subsequent semester.

**b Semester End Examination (SEE):**

Examination duration: 3 hours for open-ended problems/experiments composed of Part-A and part-B. Students shall take their own decision to attempt the SEE of both Part-A and part-B in the prescribed 3-hour examination period.

The examination shall be conducted by the two examiners of the University/ College appointed by the University for 100 marks.

The SEE marks prescribed for Part-A is 70 and 30 for Part-B.

Since a provision has been made by the ITI-SMU of VTU to automatically scale down SEE marks of 100 to 50 marks during result processing, all the examiners shall mark the marks secured by the students for **100 marks** on the practical Answer Booklet and enter the same to the **VTU Online Portal** without scaling down to 50.

**Examination conducting procedure for Part-A**

- 1) All laboratory experiments prescribed in the syllabus under Part-A are to be included for practical examination.
- 2) Students shall pick one practical booklet each corresponding to Part-A and Part-B, having a question (experiment) prepared by the examiners jointly, and not exposed to the students, from a pool of booklets.
- 3) In case the student expresses his/her inability to conduct the experiment he/she got, a change of experiment shall be allowed only once and 20 % of the marks allotted to the procedure/write-up part shall be made zero. The total marks scored by such students shall be marked against 70 marks.
- 4) Evaluation of write-up/ conduction procedure and result/viva-voce will be conducted jointly by the examiners.
- 5) The split-up marks of 70 for SEE of Part-A are:
  - a) procedure/ writeup: 15 marks
  - b) Conduction and result: 40 marks
  - c) Viva-voce: 15 marks

**Examination conducting procedure for Part-B**

The allotment marks for SEE of Part-B is as per the rubrics indicated in the table below:

Table - 2 Distribution of SEE marks for Part-B		
Component	Description	Marks
Problem understanding & planning, Implementation / design execution.	Clarity of concept, logical plan, innovative method, communication, etc.	15 marks
Viva / Justification of approach	Explanation of reasoning and methods used	15 marks
<b>Total</b>		<b>30</b>



	<p>The student shall record the clarity of concepts, logical approach, innovative methods, and other relevant details in the practical answer booklet provided for Part-B, for the purpose of preserving examination records. The marks awarded shall be entered on the facing sheet of the booklet by the examiners, along with their names and signatures.</p> <p>For a pass in the <b>Semester End Examination (SEE)</b>, a student shall secure a minimum of 35 marks out of 100.</p> <p>For the declaration of a grade, the sum of the Continuous Internal Evaluation (CIE) marks and the SEE marks (both scaled down to 50) shall be greater than or equal to 40 marks. If the total (CIE + SEE) is less than 40 marks, the student shall be awarded the grade 'F' (Fail).</p> <p><b>Noncompliance of SEE Marks:</b> Students securing an F grade in any course, shall reappear for that course during the summer semester or the subsequent SEE whenever the course is offered. The CIE marks secured by students at the first attempt in the concerned course shall be carried forward. Revised CIE marks are considered only for courses where the students have grade DX due to a shortage of attendance or non-compliance of minimum CIE marks.</p>
5	<p><b>Non-Credit Mandatory Courses (NCMCs):</b></p> <p>These courses are prescribed by AICTE/University for holistic development. They do not carry any grade and also credit. However, obtaining a pass (PP) is compulsory for the award of the degree.</p> <p>In the case of non-credit mandatory courses, students shall attend the classes during the respective semesters to satisfy the attendance requirements as well as continuous internal evaluation (CIE) requirements. These courses are evaluated only through continuous internal evaluation.</p> <p>If a student fails to register for an NCMC, or fails to satisfy the attendance requirement, or fails to secure the minimum 40 % of the prescribed maximum CIE marks, such a student shall be deemed to have not completed the course. In such cases, student shall fulfil the requirements by registering for the corresponding course during summer semester or a subsequent semester whenever the course is offered to satisfy attendance and CIE requirements.</p> <p>These courses shall not be considered for CGPA calculation or vertical progression, but successful completion of the courses is mandatory for the award of the degree.</p>
a	<p><b>Indian Constitution and Engineering Ethics:</b> This course shall be taught by the faculty of the respective colleges. Provision has also been made to offer the course in online mode by the Centre for Online Education (COE), VTU. Students may opt for either of the above two modes. Once a mode of delivery is selected, students shall not be permitted to switch to the other mode.</p> <p>The CIE shall be conducted in online mode as per the timetable during odd, even, and summer semesters. The test shall be conducted at the end of 8th or 10<sup>th</sup> week of teaching-learning.</p> <p>The test duration: 1 hour.</p>

		<p>The number of multiple-choice questions: 50.</p> <p>Maximum marks: 100.</p> <p>Number of attempts permitted: 3. To appear for the second and third attempt tests, students shall pay the University-prescribed fee.</p>
	<b>b</b>	<p><b>Bridge Course on Mathematics for Lateral Entry Students:</b></p> <p>This course shall be taught by the faculty of the respective colleges. Provision has also been made to offer the course in online mode by Centre for Online Education (COE), VTU. Students can opt for either of the above two modes. Once, a mode of delivery is selected, students shall not be permitted to switch to the other mode. The attendance requirement shall be decided as per the selected mode of teaching-learning.</p> <p>The CIE shall be conducted in the offline mode at the student's respective colleges. The first subjective type test shall be conducted after completing 2 modules of the syllabus for 40 marks. The second subjective type test shall be conducted after completing the rest 3 modules for 60 marks. The duration of the first test shall be 1.5 hours and the second test 2 hours.</p> <p>Maximum marks: 100.</p> <p>Those who fail to satisfy the CIE requirements, may appear for the CIE test when the course is offered during the subsequent semesters.</p> <p>The two test marks shall be a minimum 40 out of 100 marks for a pass. Those who fail to earn the required CIE at the semester end shall register for the course during the summer semester or subsequent semester.</p>
	<b>c</b>	<p><b>Universal Human Value</b></p> <p>This course shall be taught by the faculty of the respective colleges. Provision has also been made to offer the course in online mode by Centre for Online Education (COE), VTU. Students may opt for any one of the above two modes. Once, one type of mode is selected, students shall not be permitted to switch to other mode. The CIE shall be conducted online mode as per the timetable during odd, even and summer semesters. The test shall be conducted at the end 8<sup>th</sup> week of teaching-learning.</p> <p>The test duration: 1 hour.</p> <p>The number of multiple-choice questions: 50.</p> <p>Maximum marks: 100.</p> <p>Those who fail to satisfy the minimum of CIE requirements, may appear for the CIE test when conducted by paying the prescribed University examination fee.</p>
	<b>D</b>	<p><b>Indian Knowledge System</b></p> <p>This course shall be taught by the faculty of the respective colleges. Provision has also been made to offer the course in online mode by Centre for Online Education (COE), VTU. Students can opt for any one of the above two modes. Once, one type of mode is selected, they cannot to switch to the other mode. The CIE shall be conducted online mode as per</p>

	<p>the timetable during odd, even and summer semesters. The test shall be conducted at the end 8 weeks of teaching-learning.</p>
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	<p>The test duration: 1 hour.</p>
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	<p>The number of multiple-choice questions: 50.</p>
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	<p>Maximum marks: 100.</p>
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	<p>Those who fail to satisfy the CIE requirements, may appear for the CIE test when conducted by paying the prescribed University examination fee.</p>
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