

- xv. Minor must be completed simultaneously with a major degree program. A student cannot earn the Minor after he/she has already earned bachelor's degree.

## 9. EXAMINATION AND EVALUATION

To evaluate a student's performance, the Institution conducts a well-structured continuous assessment and end-semester examination for thirty (30) and seventy (70) marks, respectively, for theory. Fifteen (15) and thirty-five (35) marks for practical courses.

### 9.1 Continuous Assessment and Internal mark

#### 9.1.1 Theory course

The continuous assessment of a theory course is to be performed through two cycles in a semester.

- Each course consists of five units.
- Each cycle covers two and a half units
- There shall be four unit-tests and two mid-semester examinations.
- Each cycle considers two unit-tests and one mid-semester examination.
- Each unit test will be conducted for ten (10) marks of 45 minutes duration by the course lecturer concern and is conducted every third week in a scheduled manner.
- The chief controller of the Examination conducts the mid-semester examinations.
- Mid-semester examination-I covers units-I, II, and half of III, whereas Mid-semester examination-2 covers the remaining half of unit-III and Units-IV and V.
- Each Mid-semester Examination (only descriptive) is conducted for forty (40) marks with 90 minutes and scale into twenty (20) marks.
- Each cycle weightage is thirty (30) mark, i.e., the average of both unit-tests mark of ten (10) plus scaled mid-semester mark of twenty (20).
- Any number after the decimal point shall be rounded off.
- The internal mark is the **weighted average** of two cycles, i.e., weightage of 80% of the best cycle performance and 20% of the second.
- A case study is illustrated in Table 4

Table 4 Internal Mark Assessment (Example)

Continuous Assessment and Internal mark								
Cycle-1			Cycle-2			80% of (F) the best cycle (G)	20% of (C) the lowermost (H)	Internal mark 30 (I= G+H)
Average of both Unit Tests 10(A)	Mid-Sem-1 20 (B)	Total Mark 30 (C=A+B)	Average of both Unit Tests 10 (D)	Mid-Sem-1 20 (E)	Total Mark 30 (F=D+E)			
8	17	25	10	20	30	24	5	29

### 9.1.2 Practical course

The student will be assessed by the course lecturer's concern, like the end practical examination of thirty-five (35) and scaled into five (05) marks. The weightage for other assessments is briefed in Table 5.

**Table 5** Mark Distribution for Practical Course

S. No.	Activity	Mark
1	Day-to-day Evaluation	05
2	Record	05
3	Internal Assessment	05
<b>Internal mark</b>		<b>15</b>

## 9.2 End Semester Examination

### 9.2.1 Theory course

- The end-semester examination will be conducted with the entire syllabus of a course for seventy (70) marks.
- The question paper contains five questions with internal choice from each unit and is valued at 70 marks.
- A student must secure not less than 35% of marks in the end semester examination and a minimum of 40% of marks in the total of internal and end semester examination marks to earn the credits allotted to each course.

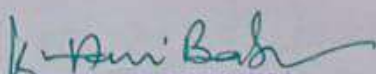
### 9.2.2 Practical course


- The end practical examination shall be conducted for thirty-five (35) marks with a three-hour duration.
- The internal examiner shall conduct the examination jointly with an external examiner duly appointed by the Chief Controller of Examination.
- The evaluation scheme shall be prepared by both the examiners in consultation with the course coordinator/Programme coordinator.
- The examiners shall evaluate the answer scripts; however, the mark award for viva-voce is the external examiner's sole decision.

## 9.3 Evaluation of Design or Engineering Graphics

For the subject having design or Engineering Graphics, the distribution shall be thirty (30) marks for internal evaluation and seventy (70) marks for end examination. The assessment procedure is as follows,

- i. There shall be two mid-semester examinations in a semester. Each mid-semester examination (only descriptive) is conducted for thirty (30) marks for 90 minutes and scaled into fifteen (15) marks.

  
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- the end practical weightage for other
- ii. There shall be day-to-day work, and the concerned course lecturer about awarding the fifteen (15) marks.
  - iii. The internal mark is the weighted average of two mid-semester Examinations, i.e., weightage of 80% of the best cycle performance and 20% of the second plus day-to-day evaluation.

The end examination contains five questions with internal choice from each unit and carries an equal mark.

#### 9.4 Evaluation of Engineering Workshop

##### 9.4.1 Internal Evaluation

- The student will be assessed by the course lecturer's concern, like the end practical examination of seventy (70) and scaled into fifteen (15) marks. The weightage for other assessments is briefed in Table 6.

Table 6 Mark Distribution for Practical Course

S. No.	Activity	Mark
1	Day-to-day Evaluation	05
2	Record	10
3	Internal Assessment	15
<b>Internal mark</b>		<b>30</b>

##### 9.4.2 External Evaluation

- The end practical examination shall be conducted for seventy (70) marks with a three-hour duration.
- The internal examiner shall conduct the examination jointly with an external examiner duly appointed by the Chief Controller of Examination.
- The evaluation scheme shall be prepared by both the examiners in consultation with the course coordinator/Programme coordinator.
- The examiners shall evaluate the answer scripts; however, the mark award for viva-voce is the external examiner's sole decision.

#### 9.5 Evaluation of Electrical Installation and Electronics Engineering Practice

##### 9.5.1 Internal Evaluation

Table 7 Mark Distribution for Internal Evaluation

Attributes	Mark		
	Electrical	Electronics	Total
1 Day-to-day	5.0	5.0	10
2 Record	2.5	2.5	05
3 Internal Assessment <sup>#</sup>			15
<b>Internal Mark</b>			<b>30</b>

<sup>#</sup> Internal examination will be conducted as an external examination for 70 Marks, and the same is scaled into 15 Marks.

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### 9.5.2 External Evaluation

Table 8 Mark Distribution for External Evaluation

Particulars	Marks	Time
<b>Part-A (Theory) Answer all Questions</b>	30	
1 Electrical Engineering	15 Marks	60 Minutes
2 Electronics Engineering	15 Marks	
<b>Part-B (Practical)</b>	40	
(Student allowed to choose either Electrical or Electronics experiment by a lot)		120 Minutes
<b>Total Mark</b>	<b>70</b>	<b>180 Minutes</b>

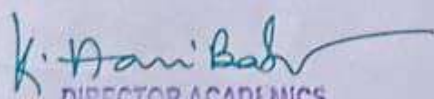
### 9.6 Evaluation of Mandatory Courses

- There shall be two mid-semester examinations in a semester. Each mid-semester examination (only descriptive) is conducted for fifty (50) marks for 110 minutes.
- Mid-semester examination-1 covers units I, II, and half of III, whereas mid-semester examination-2 covers the remaining half of unit-III and Units-IV and V.
- The final mark is the sum of two mid-semester examinations.
- A student must secure 40% of the marks allotted in the internal evaluation for passing the course.
- No marks or letter grades shall be allotted for all mandatory non-credit courses.
- No supplementary examination

### 9.7 Evaluation of Internship

#### 9.7.1 Summer Internship's

- After completing the summer internship, the students shall register in the immediate respective odd semester. It will be evaluated at the end of the semester, along with an external laboratory examination.
- At the time of registration, the student has to produce the summer internship satisfactory report and certificate taken from the organization to be considered for evaluation.
- A student will be required to submit a summer internship report to the concerned Department and appear for an oral presentation before the departmental committee.
- The departmental committee consists of an external examiner appointed by the Chief Controller of Examination, Head of the Department; mentor/supervisor of the internship; and a senior faculty member of the Department.

  
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- The report and the oral presentation shall carry 40% and 60% weightage, respectively, and it shall be evaluated for fifty (50) marks. There shall be no internal marks for Summer Internship.
- A student shall secure a minimum of 40% of marks for successful completion. If a student fails, he/she shall reappear as and when the Institution conducts semester supplementary examinations.
- Completion of internships is mandatory. If any student fails to complete an internship, he/she will not be eligible for the award of degree. In such cases, the student shall repeat and complete the internship.

#### 9.7.2 Final semester Internship

- In the final semester, the student may undergo an internship, and parallelly he/she should work on a project with well-defined objectives.
- At the end of the semester, the candidate shall submit an internship completion certificate and a project report.
- A student shall also submit a project report on the work carried out during the internship. The project report shall be evaluated with an external examiner.

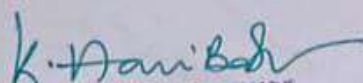
**Note:** The College shall monitor the student internship programs. Completion of internships is mandatory; if any student fails to complete the internship, he/she will not be eligible for the award of the degree. In such cases, the student shall repeat and complete the internship.

#### 9.8 Evaluation Skill Oriented/Advance Courses

##### 9.8.1 Course offered by the Department

- Students must register for the course as per the Institution's policy in the event of a skill-oriented/advanced course offered by the department/institution.
- The department/institution conducts it along with regular courses upon resource person availability.
- Other hand, the Institution / Department can collaborate with Industries / Professional bodies or any other accredited bodies to develop the course content and the same course to be conducted not less than thirty (30) contact hours.
- There shall be a continuous assessment for fifteen (15) marks. The student must submit weekly/module-wise assignments and submit them as a final report.
- There shall be an end evaluation for thirty-five (35) marks by the internal evaluator appointed by the chief controller examination.
- The student has to re-register for the course when offered subsequent if he/she fails to fulfill the attendance and End Examination marks requirement.

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### 9.8.2 Course offered by an external agency

- The Department shall mark the student's attendance for the remaining courses in the semester, excluding the skill course in all the calculations of mandatory attendance requirements upon producing a valid certificate as approved by the concerned Board of Studies.
- The student is deemed to have fulfilled the course's attendance requirement and acquire the credits assigned to the course.
- The credits shall be awarded to the student upon producing the Course Completion Certificate from the agency/professional bodies as approved by the Board of studies.
- A committee shall be formed at the College level to evaluate the grades/marks given for a course by external agencies and convert them to equivalent marks/grades.
- The recommended conversions and appropriate grades/marks are to be approved by the University/Academic Council.

### 9.9 Evaluation of Project Work

The project work will be evaluated internally for sixty (60) marks whereas, the end evaluation carries one hundred forty (140) marks.

#### 9.9.1 Internal Assessment

Project Review Committee (PRC) will monitor the internal assessment. PRC consists of the Head of the Department, Project-coordinator, Supervisor, and Senior faculty member. The assessment is based on the day-to-day assessment by the supervisor and two reviews conducted by the PRC.

**Table 9** Mark Distribution for Project Internal Evaluation

S. No.	Activity	Mark
1	Review-1	20
2	Review-2	20
3	Review-3	20
<b>Internal mark</b>		<b>60</b>

#### 9.9.2 End evaluation

The final project evaluation committee comprises the Head of the Department, Supervisor concern, and external examiner duly appointed by the Chief Controller of examination from a panel examiner list.

The committee will prepare an evaluation scheme for one hundred forty (140) marks, including a project report, and may ask the student to demonstrate using PowerPoint presentation followed by viva-voice for critical evaluation.

  
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