

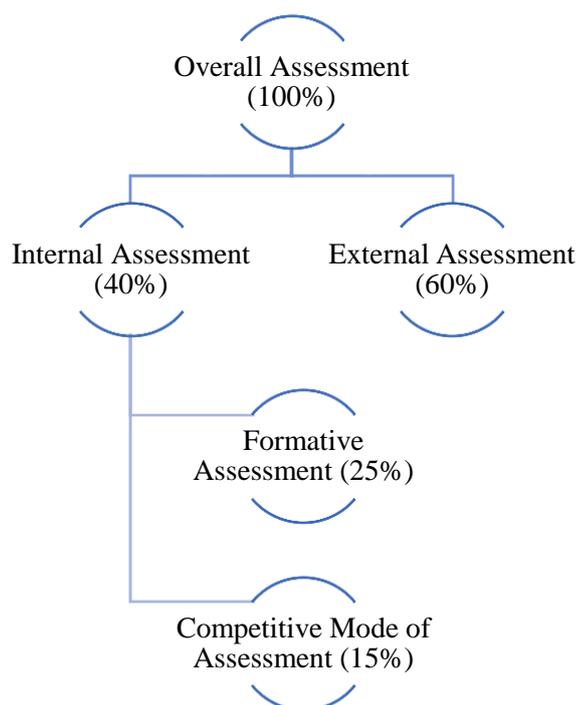
### 7.2.1. Best Practice I

#### Title of the Practice: Internal Assessment Marking System

**Objective of the Practice:** The objective is to encourage students to achieve academic excellence, acquire technical skills, and participate in co-curricular and extra-curricular activities by ensuring an unbiased and comprehensive evaluation framework.

**Assessment Methodology:** The assessment methodology makes sure that technical proficiency, academic understanding, and extracurricular involvement are all fairly evaluated. The distribution of the overall weighting for internal assessments is as follows:

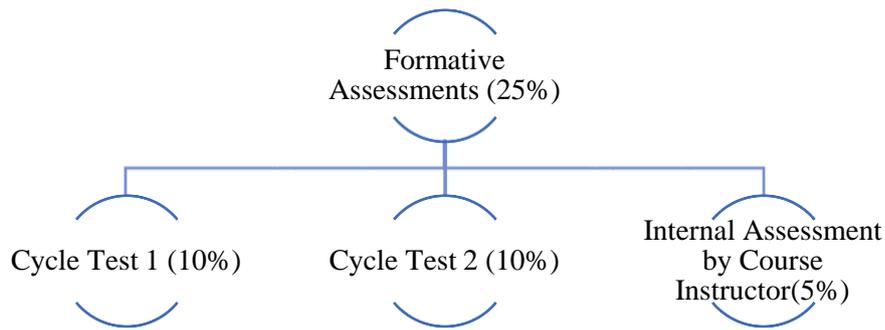
The assessment for each course is carried out by both internal and external assessments.



Internal Assessment carries 40% of overall assessment. In that, Formative Assessment which is conducted in the form of cycle tests and assignments carries 25%.

#### 1. Formative Assessments

Cycle tests and assignments are designed to evaluate the understanding of the students in subject content covered during specific portions of the semester. The details are as follows:



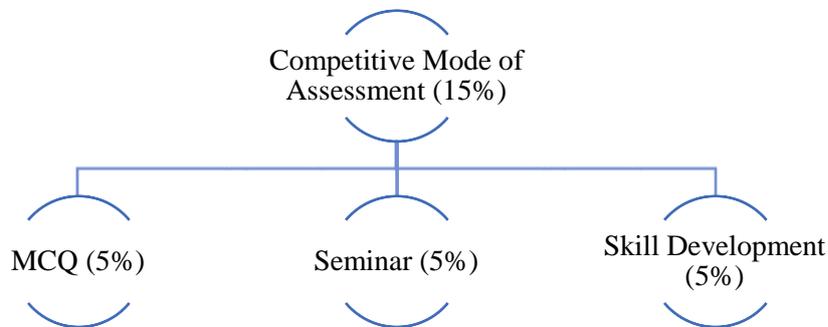
- **Cycle Test 1** focuses on Course Outcomes (CO1, CO2) and the weightage given is 10%. Typically the cycle test 1 is conducted after completing the first two units of the syllabus.
- **Cycle Test 2** focuses on Course Outcomes (CO3, CO4) and the weightage given is 10%. Cycle test 2 is conducted with the portions of units III and IV in the syllabus.
- **Internal Assessment by Course Instructor** - This component evaluates students on CO5 and considers their performance in various classroom and coursework activities. The course instructor has the space to conduct 5% of internal assessment as an assignment from unit V (CO5). The assignment may be given in the form of quiz, role play, chart preparation, case studies, finding solution for the problems etc.,

<p>III ECE - Assignment II EC2303 Wireless Communication 2023-2024</p> <p>60 Responses      39.0 Average Score      Active Status</p> <p>1. Which of the following is not true for offset QPSK? (1 point) 65% of respondents (39 of 60) answered this question correctly.</p> <ul style="list-style-type: none"> <li>Other name for OQPSK is staggered... 2</li> <li>Side lobes are reduced when co... 11</li> <li>Even and odd bit streams are... 8</li> <li>Maximum phase change is limit... 39 ✓</li> </ul> <p>2. Maximum phase transition of <math>\pi/4</math> QPSK is (1 point) 72% of respondents (43 of 60) answered this question correctly.</p> <ul style="list-style-type: none"> <li><math>180^\circ</math> 2</li> <li><math>135^\circ</math> 48 ✓</li> <li><math>45^\circ</math> 13</li> <li><math>225^\circ</math> 2</li> </ul>	<p>Chittoor, Tamil Nadu, India MXF7+9XG, Chittoor, Tamil Nadu 625701, India Lat 9.673558° Long 77.96451° 11/10/23 10:21 AM GMT +05:30</p>
Quiz	Seminar Presentation



## 2. Competitive Mode of Assessment

This component improves the students' knowledge on various domain and enhances their approach and perspective on complex Engineering problems. This assessment is done with three different components – MCQ, Seminar and Skill Development.



- 1. MCQ-Based Assessment** - The MCQ assessment tests subject knowledge and aptitude through a structured pattern of exam. This includes 50 multiple-choice questions, each carrying 2 marks out of which 10 Questions are department-specific technical questions tailored to prepare students for technical interviews and 40 Questions from general aptitude questions derived from the question banks of reputed companies. The duration for this assessment is 90 minutes and this is conducted five days after the conclusion of Cycle Test 2. It carries the weightage of 5 marks in the internal assessment.

MCQ is conducted through ZIPGRADE app. OMR is prepared in Zipgrade. 4 set of questions are prepared and the answer key is uploaded in Zipgrade. According to the type of question received by the student, it is evaluated in online. The sample zipgrade evaluated assessment is given below.

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Fit to page

MA 2024-2025

QUIZ: I CMA 2024-2025

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## AKSHAYAHARANI S

ZipGrade ID: 13005  
 External Ref:  
 Earned Points: 78  
 Possible Points: 100  
 Percent Correct: 78.0 %  
 Key Version: B  
 Scanned: 2024/12/31 07:39 AM CST  
 Quiz Tags: KCET (5216)

Delete Paper

Change Student

Change Key

Export as PDF

#	Primary Answer	Student	Score	Mark	Tags
1	B	B	2 / 2 pts	C	
2	A	A	2 / 2 pts	C	
3	B	B	2 / 2 pts	C	
4	C	C	2 / 2 pts	C	
5	A	A	2 / 2 pts	C	
6	C	C	2 / 2 pts	C	
7	A	A	2 / 2 pts	C	
8	B	B	2 / 2 pts	C	
9	A	C	0 / 2 pts	X	
10	A	A	2 / 2 pts	C	
11	A	C	0 / 2 pts	X	
12	C	D	0 / 2 pts	X	
13	C	B	0 / 2 pts	X	
14	B	B	2 / 2 pts	C	
15	B	B	2 / 2 pts	C	
16	B	C	0 / 2 pts	X	
17	B	B	2 / 2 pts	C	
18	A	C	0 / 2 pts	X	
19	B	B	2 / 2 pts	C	
20	B	B	2 / 2 pts	C	

#	Primary Answer	Student	Score	Mark	Tags
21	A	A	2 / 2 pts	C	
22	C	C	2 / 2 pts	C	
23	B	A	0 / 2 pts	X	
24	A	A	2 / 2 pts	C	
25	B	B	2 / 2 pts	C	
26	A	A	2 / 2 pts	C	
27	A	A	2 / 2 pts	C	
28	B	B	2 / 2 pts	C	
29	B	A	0 / 2 pts	X	
30	B	B	2 / 2 pts	C	
31	C	C	2 / 2 pts	C	
32	D	D	2 / 2 pts	C	
33	A	A	2 / 2 pts	C	
34	A	A	2 / 2 pts	C	
35	D	D	2 / 2 pts	C	
36	B	C	0 / 2 pts	X	
37	A	D	0 / 2 pts	X	
38	A	A	2 / 2 pts	C	
39	B	B	2 / 2 pts	C	
40	A	D	0 / 2 pts	X	
41	B	B	2 / 2 pts	C	
42	A	A	2 / 2 pts	C	
43	D	D	2 / 2 pts	C	
44	A	A	2 / 2 pts	C	
45	A	A	2 / 2 pts	C	
46	A	A	2 / 2 pts	C	
47	C	C	2 / 2 pts	C	
48	C	C	2 / 2 pts	C	
49	B	B	2 / 2 pts	C	
50	A	A	2 / 2 pts	C	

SCANNED IMAGE



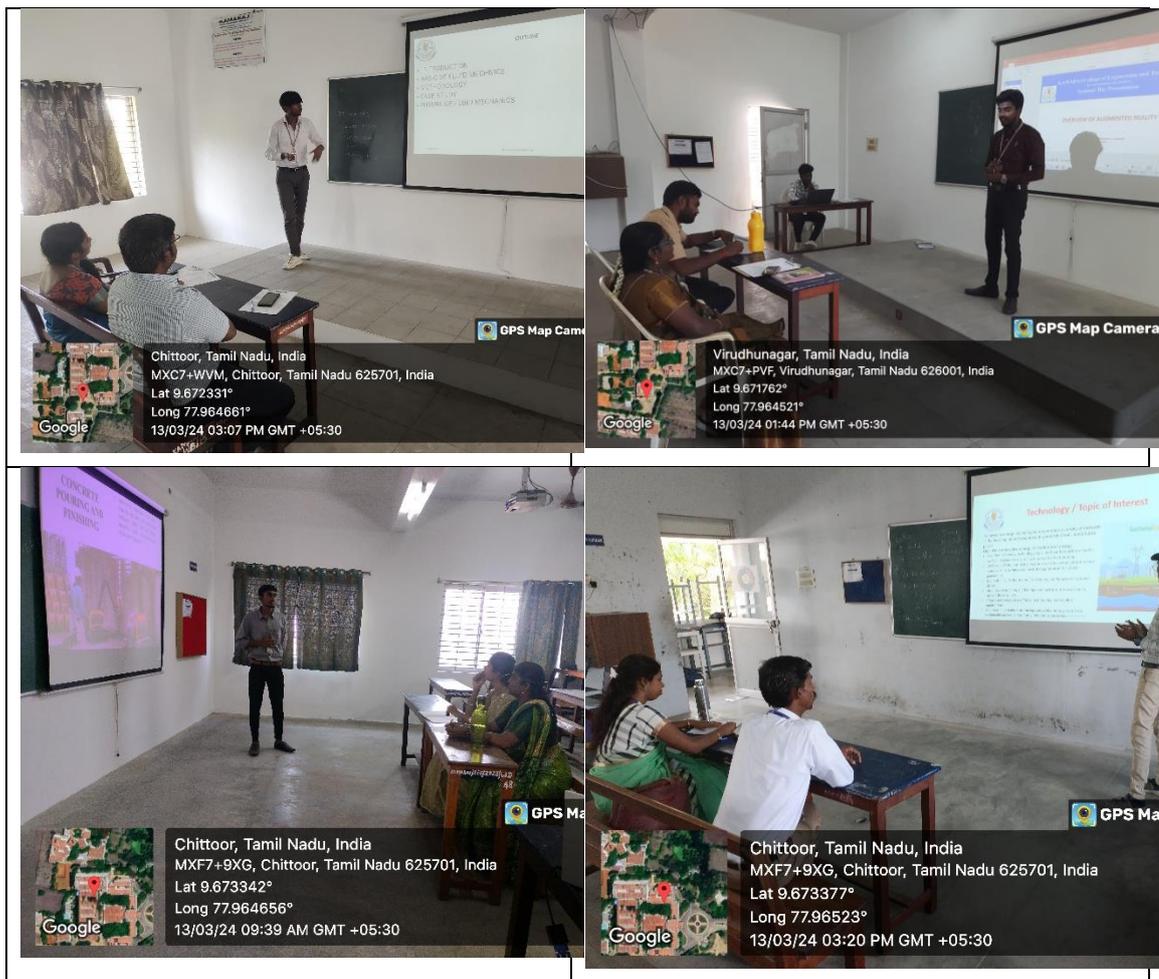
## 2. Seminar Assessment

Students deliver presentations on emerging thrust areas, encouraging research and communication skills during the seminar day conducted in a centralized way. Students can make their own batch with the following constraints.

### Batch Composition:

- **Second Year:** 2 students per batch.
- **Third Year:** 1 or 2 students per batch (preferably one).
- **Final Year:** Individual presentations.

Around 10 batches of students from different departments will be given a single venue. Two senior faculty members are allotted for evaluating and one faculty member is allotted for organizing in each venue. The evaluation is based on the content depth and quality, presentation skills and clarity and relevance to the assigned topic. The weightage given for this seminar is 5 marks in the internal assessment. Sample for the conduction of seminar day is as below.



This kind of assessment develops public speaking and presentation skills. This encourages independent research and in-depth understanding of topics. This also promotes teamwork and collaborative learning for group seminars.

### 3. Skill Development Assessment

This component emphasizes practical skills and extracurricular achievements. Students can participate in a range of activities like paper presentation, Quiz competitions, proposal submission, Journal and conference publications, certification courses and other extra-curricular activities. Students are continuously motivated by their mentors and chairpersons from the beginning of the semester and make them participate and win in various activities conducted by other Institutions. This mode of assessment carries weightage of 5 marks in internal assessment. To be unbiased in marks, rubrics for the assessment is made and is approved by the Dean (Academic courses), Controller of Examinations and the Principal. Sample skill development activity outside the college is displayed below.

	
<p>III ECE Students Kiruthiya Vaishnavi S, Prema E, and Abhiksha G participated and won the special prize (<b>Rs. 10,000</b>) in the <b>Women's Hackthon'24 (Project Competition)</b> organized by Kalaingar Karunanidhi Institute of Technology, Coimbatore in association with TANCAM &amp; Dassault systems on 08.03.2024. Title : Hygienic Hero Tech, Guide : Dr. T. Prathiba, ASP/ECE</p>	<p>III ECE Students M. Meenakshi, K. Sureka and R.U. Swetha won the third Prize (<b>Rs. 30,000</b>) in the <b>Women's Hackthon'24 (Project Competition)</b> organized by Sona College of Technology, Salem in association with TANCAM &amp; Dassault systems on 14.03.2024. Title: A Solar Based Power Source for Effective Crop Monitoring System in Smart Agriculture. Mentor: Dr. T. Pandiselvi &amp; Mrs. C. Nagavani</p>

This kind of skill development assessment encourages the students with hands-on learning and practical application of theoretical concepts. This motivates students to participate in co-curricular and extracurricular activities. It enhances innovation, creativity, and problem-solving skills. This also builds a diverse skill set valuable for future career opportunities.

Internal Mark Calculation Procedure for II , III and IV year Theory Courses				
	Assessment	CO	Marks	Weightage
<b>Formative Assessment</b>	Cycle test 1	CO1,CO2	100	10
	Cycle test 2	CO3,CO4	100	10
	Internal Assessment by Course Instructor	CO5	100	5
<b>Competitive Mode of Assessment</b>	MCQ	Subject - & Aptitude, Technical English	100	5
	Seminar	Topic: Emerging Thrust area	100	5
	Skill Development	Activity – presented	100	5
<b>Total</b>				<b>40</b>

**Note:**

The assessment of theory part in TCP courses is similar to the theory courses and the weightages are converted as per the regulation R2021.

The assessment of Laboratory part in TCP courses is similar to the Laboratory courses as per the regulation R2021.

**MCQ Pattern**

- ❖ 50 question each carries 2 marks. Total marks = 100; Time: 90 minutes
- ❖ 10 Questions : Department specific interview based technical question.
- ❖ 40 Questions : Aptitude questions from reputed companies
- ❖ Mode of exam : online/ offline
- ❖ Date of exam : preferably Five days after the end of cycle test 2

**Seminar (Rubrics and Guidelines will be circulated at the time of seminar)**

- Second year : 2 students per batch
- Third year : 1 or 2 students per batch (Preferably one)
- Final year : Individual presentation

### Rubrics for Skill Development

Paper Presentation in symposium	2 Marks
Tech competitions participation (Quiz, Technical competitive events)	1 Mark
Paper Presentation in NIT, IIT, PSG Tech, NITTR, VIT & outside State paper presentation event	5 Marks
Technical competition winning	1 Mark
<b>Proposal Submission:</b> FAER, Hackathon, MSME, IE/Professional Chapter and project proposal submission	3 Marks
Professional Chapter registration (CAY) excluding ISTE	1 Mark
Paper Presentation & Conference	3 Marks
Tech Mag article publishing newsletter	1 Mark
Participating National Design contest	3 Marks
Niral Thiruvizha / Local Industry project participation & solution generation through KCET Incubation Cell	5 Marks
Entrepreneurship and Startups / Patent Filing / SCI / Scopus Journal	5 Marks
Approved Certification Courses from Dean (Academic Courses) example : Infosys, IBM, CCNA etc.,	3 Marks
National / District / Zonal level Sports participation	3 Marks
National / District / Zonal level Sports Winning / University team representation	5 Marks
Yoga / NCC / NSS / UBA / Programmers Club / Standards Club / Tech Beats / Tech Band / Fine Arts - Active participation	2 Marks

*R.S - Dan*  
*12/24/2017*

**Dean (Academic Courses)**

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Hence the Internal assessment marking system is a holistic approach and it aims to prepare students for academic success and professional readiness.