

**3.1. Evaluation of Continuous Assessment: Assignments, Unit Tests, Mid-Term, etc. (10 Marks)**

(Describe the process of evaluation followed during continuous assessment to maintain quality of assessment; constructive alignment of questions with COs and hence POs/PSOs. Details to be kept in course files for evaluation.)

- **Process:** Evaluation is conducted through:
  - **CIA Tests (2 per semester)** – Aligned with COs, 24% weightage.
  - **Assignments (2 per course)** – Problem-solving, case studies, CO-mapped, 16 % weightage.

**3.2. Evaluation of the Semester End Exam (SEE) Question Paper (10 Marks)**

(Describe the process of setting of SEE papers & their evaluation to maintain quality of assessment, constructive alignment of questions with COs and POs/PSOs. Details to be kept in course files for evaluation.)

- **Process:**
  - Question paper set by external examiner (from Anna University panel).
  - Internal examiner reviews alignment with COs and Blooms Taxonomy.
  - Model answer key prepared before evaluation.
  - Double valuation for borderline cases.

**3.3. Evaluation of Laboratory Work and Workshop (Continuous and SEE) (10 Marks)**

(Provide details of rubrics used to assess learnings in laboratories and workshops linking with COs and POs/PSOs targeted. Evidence of student assessments through rubrics to be kept in course files for evaluation.)

Lab assessment based on for Laboratory courses:

- **Lab experiments conduction through Rubrics – weightage (45%)**
  - Preparation & Understanding (2)
  - Execution & Results (4)
  - Viva-Voce (2)
  - Lab Record (2)
  - Total marks (10)
- **Model Lab (100) - weightage (15%)**

Lab assessment based on for Theory cum Laboratory courses:

- **Lab experiments conduction through Rubrics – weightage (19%)**
  - Preparation & Understanding (2)

- Execution & Results (4)
- Viva-Voce (2)
- Lab Record (2)
- Total marks (10)
- **Model Lab (100) - weightage (6%)**

### **3.4. Evaluation of Industrial Training / Internship (Continuous and SEE) (10 Marks)**

*(Provide details of rubrics used to assess learnings in internships/industrial trainings linking POs/PSOs targeted for attainment. Evidence of student assessments through rubrics to be kept in course files for evaluation.)*

- **Assessment Tools:**

- **Training Report (40%)** – Technical content, organization.
- **Presentation & Viva (30%)** – Communication, depth of learning.
- **Employer Feedback (30%)** – Performance evaluation from industry.

### **3.5. Evaluation of Projects (20 Marks)**

*(Provide details of rubrics used to assess learnings in projects linking POs/PSOs targeted for attainment. Evidence of student assessments through rubrics to be kept in course files for evaluation.)*

#### **Reviews & Rubrics:**

- **Review 1 (20)**
  - **Proposal Review (10%)** – Relevance, innovation. – R1
  - **Design & Implementation (40%)** – Technical depth, methodology. -R2
- **Review 2 (20)**
  - **Testing & Results (20%)** – Validation, analysis. -R3
- **Review 2 (20)**
  - **Final Report & Presentation (30%)** – Documentation, communication – R4

### **3.6. Evidence of Addressing Sustainable Development Goals (SDG) (10 Marks)**

*(Provide details of student work carried out to meet sustainable development goals such as research work, project work, student activities etc. Evidence in the form of a portfolio to be made available during the visit.)*

- **SDG Projects Undertaken:**

- SDG 4 (Quality Education): \_\_\_\_\_.
- SDG 9 (Industry & Innovation): \_\_\_\_\_
- SDG 11 (Sustainable Cities): \_\_\_\_\_.
- **Portfolio maintained in Department SDG Repository.**

### **3.7. Attainment of Course Outcomes (25 Marks)**

#### **3.7.1. Describe the Assessment Tools and Processes Used to Gather the Data for the Evaluation of Course Outcome (5 Marks)**

*(Describe different assessment tools (semester end examinations, mid-semester tests, laboratory examinations, student portfolios etc..) to measure the student learning and hence attainment of course outcomes.)*

At the initial stage of OBE (Outcome Based Education) implementation, the Course Outcomes (COs) for each course are defined based on the course and mapped with the Programme Outcome (POs) and Programme Specific Outcome (PSOs). At the end of each course, the COs needs to be assessed and evaluated, to check whether it has been attained or not. Assessment is one or more processes, carried out by the department, that identify, collect, and prepare data to evaluate the achievement of Programme Educational Objectives (PEOs) and POs. Attainment is the action of achieving result by Internal tests and University Examination towards accomplishment of desired goals. Attainment of the COs can be measured directly and indirectly. Direct attainment basically displays the students' knowledge and skills from their performance. It can be determined from the performance of the students in all the relevant assessments like continuous internal assessments, assignments, session assessments and final university examination. Indirect methods such as end surveys are done.

Assessment Tools Assessment of COs is conducted using both direct and indirect assessment tools to ensure a comprehensive evaluation. The assessment tools used are as follows: Table 3.7.1.a describes the evaluation methods with the process for CO attainment. Table 3.7.1.b.a shows the Assessment components.

**Table No: 3.7.1.a Assessment tools and Evaluation methods with the process for CO attainment**

<b>Assessment Components</b>	<b>Process used to gather data for Evaluation</b>	<b>Frequency</b>
<b>Direct Assessment</b>		
<b>Theory</b>		
Continuous Assessment Tests	<ul style="list-style-type: none"> <li>• Continuous internal assessments are conducted.</li> <li>• All the tests are conducted for 100 marks for the duration of 3 Hrs.</li> <li>• 24% weightage is considered for the internal assessment.</li> </ul>	Twice in a semester
Assignment	<ul style="list-style-type: none"> <li>• Assignments-Written/Case study/ Presentation /minor projects are given based on the subject nature.</li> <li>• Assignment questions are prepared by the faculty members with relevance to COs and K levels and evaluated based on rubrics</li> <li>• Assignment carries 40 marks</li> <li>• 16% weightage is considered for the internal assessment</li> </ul>	Twice in a semester
End Semester Examination	<ul style="list-style-type: none"> <li>• End Semester exam is conducted by the Anna University</li> <li>• 60% weightage is considered for the internal assessment</li> </ul>	Once in a semester
<b>Theory cum Laboratory</b>		
Continuous Assessment Tests	<ul style="list-style-type: none"> <li>• Continuous internal assessments are conducted.</li> <li>• All the tests are conducted for 100 marks for the duration of 3 Hrs.</li> <li>• 25% weightage is considered for the internal assessment.</li> </ul>	Twice in a semester
Experiments	<ul style="list-style-type: none"> <li>• Each experiment is evaluated based on rubrics for 10 marks</li> <li>• 19% weightage is considered for the internal assessment</li> </ul>	End of lab hours
Model Exam	<ul style="list-style-type: none"> <li>• Lab model exam is conducted before the commencement of Anna University practical examination for 100 marks for a duration of 3 Hrs.</li> <li>• 6% weightage is considered for the internal assessment</li> </ul>	Once in a semester
<b>Laboratory</b>		
Experiments	<ul style="list-style-type: none"> <li>• Each experiment is evaluated based on rubrics for 10 marks</li> <li>• 45% weightage is considered for the internal assessment</li> </ul>	End of lab hours

Model Exam	<ul style="list-style-type: none"> <li>Lab model exam is conducted before the commencement of Anna University practical examination for 100 marks for a duration of 3 Hrs.</li> <li>15% weightage is considered for the internal assessment</li> </ul>	Once in a semester
Semester End Examination	<ul style="list-style-type: none"> <li>End Semester exam is conducted by the Anna University</li> </ul>	Once in a semester
<b>Project Work</b>		
Project Reviews	<ul style="list-style-type: none"> <li>Four reviews are conducted periodically to monitor and evaluate the progress of the project by the project review committee.</li> <li>The project review committee evaluates the students project based on the project rubrics and award the mark in the review form.</li> <li>Project progress is reviewed in 3 stages and marks are awarded as follows <ul style="list-style-type: none"> <li>*1<sup>st</sup> review - 20 marks</li> <li>*2<sup>nd</sup> review - 20 marks</li> <li>*Final Review - 20 marks</li> </ul> </li> </ul>	Three times in the final year
End Semester Examination	<ul style="list-style-type: none"> <li>Project work viva -voce is conducted by the Anna University</li> </ul>	Once in a semester
<b>Indirect Assessment</b>		
<b>Survey</b>		
Course End survey	<ul style="list-style-type: none"> <li>All Course survey responses were recorded.</li> </ul>	Once in a semester

**Table 3.7.1.b.a Assessment components.**

## THEORY

Assessment Components	Duration	Syllabus to be covered	Max. Marks	Weightage for Internal Marks	Continuous Internal Assessment Marks	End Semester Examination Marks
CIAT I	3 hours	2.5 units	100	12	24	60
CIAT II	3 hours	2.5 units	100	12		
Objective Test/Online Quiz, Assignment / Case study/ Seminar/Tutorial, Role Play, Poster Presentation, Group Discussions, Oral Presentation, Mini Project etc., (8 marks during CIAT I and 8 marks during CIAT II)					16	
					Total	
					40	60

## THEORY CUM PRACTICALS

<b>Assessment Components</b>	<b>Duration</b>	<b>Syllabus to be covered</b>	<b>Max. Marks</b>	<b>Weightage for Internal Marks</b>	<b>Continuous Internal Assessment Marks</b>	<b>End Semester Examination Marks</b>
<b>THEORY COMPONENT</b>						
CIAT I	3 hours	2.5 units	100	12.5	25	35
CIAT II	3 hours	2.5 units	100	12.5		
<b>PRACTICAL COMPONENT</b>						
Observation & Analysis of Experimental results, Viva Voce, Quiz based on rubrics.			75	19	25	15
Model Exam	3 hours		25	6		
<b>Total</b>					<b>50</b>	<b>50</b>

### **PRACTICALS**

<b>S. No.</b>	<b>Assessment Method</b>	<b>Max. Marks</b>	<b>Weightage for Internal Marks</b>	<b>Continuous Internal Assessment Marks</b>	<b>End Semester Examination Marks</b>
1	Observation, Analysis of Experimental results & Record, Viva-voce based on rubrics.	100	75	45	40
2	Model Examination	100	25	15	
<b>Total</b>				<b>60</b>	<b>40</b>

### **PROJECT**

<b>Continuous Assessment (60 Marks)</b>			<b>End Semester Examinations (40 Marks)</b>			
<b>Review I</b>	<b>Review II</b>	<b>Review III</b>	<b>Project Report</b>	<b>Viva-Voce Examination</b>		
			External	Internal	External	Supervisor
20	20	20	10	10	10	10

**3.7.2 Record the attainment of Course Outcomes of all courses with respect to set attainment levels (20)**

**Measuring Course Outcomes attained through University Examination**

**Attainment Level 1:** Greater than or equal to 50% and less than 60% of students scoring 60% in the University examination is set as attainment level 1.

**Attainment Level 2:** Greater than or equal to 60% and less than 70% of students scoring 60% in the University examination is set as attainment level 2.

**Attainment Level 3:** Greater than or equal to 70% of students scoring 60% in the University examination is set as attainment level 3. Attainment is measured in terms of actual percentage of students getting a set percentage of marks.

### **Measuring CO attainment through Internal Assessments**

Depending upon the questions the marks are associated with each CO in the Continuous Internal Assessment (CIA) tests. The weightage of COs depends on the individual subject. 50% is set as the minimum attainment level.

**Attainment Level 1:** Greater than or equal to 50% and less than 60% of students scoring 50% marks out of the maximum marks.

**Attainment Level 2:** Greater than or equal to 60% and less than 70% of students scoring 50% marks out of the maximum marks.

**Attainment Level 3:** Greater than or equal to 70% of students scoring 50% marks out of the maximum marks.

Attainment is measured in terms of actual percentage of students getting set percentage of marks.

Table 3.7.2.b shows the CO attainment of all courses

**Table 3.7.2.b.i CO attainment for the batch 2019-2023**

C No.	Final CO attainment in each CO's						Direct Attainment level	Indirect Attainment level	Final Attainment level	Target Attainment level	Attainment Status
	CO1	CO2	CO3	CO4	CO5	CO6					
C101	3	3	2.5	2.8	2.7	3	2.8	2.92	2.82	2.1	Attained
C102	0.6	0.9	0.6	0.8	0.6	0.5	0.2	2.48	0.66	2	Not attained
C103	2	2.2	2.3	2.4	1.9	2.3	2	2.92	2.18	2.1	Attained
C104	2.5	2.5	2.5	2.5	2.5	3	2.5	2.92	2.58	2.1	Attained
C105	3	3	3	3	3	3	3	2.88	2.98	2.1	Attained

C106	1.1	1.1	1.1	1.1	1.1	1.1	0.6	2.98	1.08	2.2	Not attained
C107	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C108	3	3	3	3	3	3	3	2.92	2.98	2.8	Attained
C109	1.6	1.7	1.7	1.7	1.7	1.7	1.37	2.92	1.68	2.1	Not attained
C110	1.1	1.1	1	1.1	1	0.8	0.6	2.58	1.00	2	Not attained
C111	3	2.7	2.7	3	2.5	2.5	2.67	2.92	2.72	2.1	Attained
C112	0.8	.0.8	0.6	0.8	0.6	0.5	0.17	2.55	0.65	2.1	Not attained
C113	1.7	1.7	1.7	1.7	1.6	1.5	1.4	2.65	1.65	2.1	Not attained
C114	2.5	3	2.5	3	2.5	3	2.77	2.92	2.80	2.1	Attained
C115	3	3	3	2.9	3	3	3	2.87	2.97	2.8	Attained
C116	3	3	3	3	2.8	3	2.97	2.88	2.95	2.8	Attained
C201	1.1	1.1	0.9	1.1	0.9	0.8	0.6	2.48	0.98	2	Not attained
C202	1.1	1	1.1	1.1	1.1	1.1	0.6	2.93	1.07	2.1	Not attained
C203	1.9	2	2	2	2	2	1.77	2.9	2.00	2	Attained
C204	1.7	1.7	1.7	1.7	1.7	1.7	1.4	2.93	1.71	2.1	Not attained
C205	1.1	1.1	1.1	1.1	1.1	1.1	0.6	2.97	1.07	2.1	Not attained
C206	1.7	1.7	1.7	1.7	1.7	1.7	1.4	2.88	1.70	2.1	Not attained
C207	3	3	3	3	3	3	3	2.83	2.97	2.8	Attained
C208	3	3	3	3	3	3	2.96	2.98	2.96	2.8	Attained
C209	3	2.9	3	2.9	3	3	3	2.83	2.97	2.1	Attained
C210	1.1	1.1	0.9	1.1	0.9	0.8	0.6	2.47	0.97	2.1	Not attained
C211	0.6	0.7	0.7	0.8	0.7	0.7	0.17	2.92	0.72	2.1	Not attained
C212	1.1	0.7	1.1	1.1	1.1	1	0.53	2.9	1.00	2.1	Not attained
C213	0.6	0.7	1	0.8	0.7	0.7	0.23	2.9	0.76	2.1	Not attained
C214	1.1	1	1	1	1	1.1	0.6	2.9	1.06	2.1	Not attained
C215	2	1.8	2	2.3	1.9	2	1.8	2.88	2.02	2.1	Not attained
C216	3	3	3	3	2.8	3	2.97	2.93	2.96	2.8	Attained
C217	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C301	2.4	2.4	2.4	2.4	2.2	2.3	2.17	2.98	2.33	2.1	Attained
C302	0.6	0.7	0.9	0.8	0.7	0.7	0.2	2.9	0.74	2.1	Not attained
C303	1.9	2	2.2	2	2	2	1.8	2.9	2.02	2.1	Not attained
C304	1.9	2	2	2	2	2	1.77	2.92	2.00	2.1	Not attained
C305	1.9	2	2	2	2	2	1.77	2.92	2.00	2.1	Not attained
C306	1.9	2	2	2	2	2	1.8	2.9	2.02	2.1	Not attained
C307	3	3	3	3	2.8	3	2.97	2.93	2.96	2.8	Attained

C308	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C309	3	3	3	3	3	3	3	2.95	2.99	2.8	Attained
C310	3	2.8	2.7	3	2.9	3	2.93	2.77	2.90	2.1	Attained
C311	3	3	2.7	3	2.9	3	2.97	2.77	2.93	2.1	Attained
C312	2.5	2.6	3	2.7	2.7	2.6	2.63	2.9	2.68	2.1	Attained
C313	3	3	2.7	2.7	2.7	2.7	2.73	2.97	2.78	2.1	Attained
C314	3	3	2.7	3	2.9	3	2.97	2.77	2.93	2.1	Attained
C315	2.5	2.7	3	2.7	2.7	2.6	2.63	2.92	2.69	2.1	Attained
C316	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C317	3	3	3	2.9	3	3	3	2.87	2.97	2.8	Attained
C318	3	2.9	3	2.9	3	3	3	2.83	2.97	2.8	Attained
C319	2.65	2.75	2.65	2.65	2.89	2.89	2.89	2.98	2.91	2.8	Attained
C401	3	3	3	3	3	2.9	3	2.9	2.98	2.1	Attained
C402	2.5	3	3	2.7	2.7	2.7	2.7	2.93	2.75	2.1	Attained
C403	3	3	3	3	3	2.9	3	2.9	2.98	2.1	Attained
C404	3	3	2.8	3	2.7	3	2.9	2.93	2.91	2.1	Attained
C406	3	3	2.9	3	2.9	3	3	2.77	2.95	2.1	Attained
C407	3	2.5	2.5	2.5	2.5	2.5	2.5	2.97	2.59	2.8	Not attained
C408	3	3	3	2.9	3	3	3	2.87	2.97	2.8	Attained
C409	2.5	2.7	2.7	2.7	2.7	2.6	2.57	2.92	2.64	2.1	Attained
C410	3	3	2.7	3	2.9	3	2.97	2.77	2.93	2.1	Attained
C411	2.5	3	3	3	3	3	2.9	2.92	2.90	2.8	Attained

**Table 3.7.2.b.ii CO attainment for the batch 2020-2024**

C No.	Final CO attainment in each CO's						Direct Attainment level	Indirect Attainment level	Final Attainment level	Target Attainment level	Attainment Status
	CO1	CO2	CO3	CO4	CO5	CO6					
C101	2.3	2.5	2.4	2.5	2.4	2.5	2.5	2.2	2.44	2.2	Attained
C102	2.4	2.4	2.4	2.4	2.4	2.4	2.2	3	1.08	2	Attained
C103	2.7	2.4	2.4	2.4	2.4	2.7	2.53	2.2	2.46	2.2	Attained
C104	3	3	3	2.8	3	3	2.97	2.92	2.57	2.2	Attained
C105	3	2	2.9	2.8	2.9	3	2.97	2.8	2.67	2.2	Attained

C106	2.5	2.7	2.7	2.7	3	3	2.7	3	2.76	2.2	Attained
C107	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C108	3	2.8	3	3	2.7	3	2.9	2.93	2.99	2.8	Attained
C109	2.4	2.4	2.4	2.7	2.4	2.4	2.47	2.27	2.43	2.2	Attained
C110	2.3	2.5	2.5	2.6	2.5	2.5	2.6	1.97	2.47	2.2	Attained
C111	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.27	2.37	2.2	Attained
C112	3	3	2.7	2.7	2.7	2.7	2.73	2.93	2.77	2.2	Attained
C113	3	3	3	3	2.8	3	2.97	2.93	2.96	2.2	Attained
C114	2.5	3	2.5	3	2.5	3	2.77	2.92	2.8	2.2	Attained
C115	3	3	3	3	3	3	3	2.93	2.99	2.8	Attained
C116	3	3	3	3	3	3	3	2.93	2.99	2.8	Attained
C201	1.1	1.1	1.1	1.1	1.1	1.1	0.6	2.95	1.07	2.2	Not attained
C202	3	3	2.7	2.7	2.7	2.7	2.73	2.93	2.77	2.2	Attained
C203	2.5	2.7	3	2.7	2.7	2.7	2.63	2.93	2.69	2.2	Attained
C204	2.5	2.7	3	2.7	2.7	2.7	2.63	2.93	2.69	2.2	Attained
C205	2.5	2.7	2.7	2.7	3	2.7	2.63	2.93	2.69	2.2	Attained
C206	3	3	3	3	3	3	3	2.93	2.99	2.2	Attained
C207	3	3	3	3	2.8	3	2.97	2.93	2.96	2.8	Attained
C208	3	3	3	3	2.8	3	2.97	2.93	2.96	2.8	Attained
C209	3	2.9	3	2.9	3	3	3	2.83	2.97	2.2	Attained
C210	2.3	2.7	2.5	2.6	2.5	2.5	2.6	2.02	2.54	2.2	Attained
C211	2.5	2.7	3	2.7	2.7	2.7	2.63	2.93	2.69	2.2	Attained
C212	3	3	3	3	3	3	3	2.93	2.99	2.2	Attained
C213	2.5	2.7	3	2.7	2.7	2.7	2.63	2.93	2.69	2.2	Attained
C214	3	2.7	3	3	3	2.7	2.87	2.93	2.88	2.2	Attained
C215	2.8	3	3	3	3	2.8	2.93	2.9	2.5	2.2	Attained
C216	3	3	3	3	2.8	3	2.97	2.93	2.96	2.8	Attained
C217	3	3	3	3	3	3	3	2.93	2.99	2.8	Attained
C301	3	3	3	3	3	3	3	2.98	3	2.2	Attained
C302	3	2.8	3	3	3	3	2.97	2.93	2.96	2.2	Attained
C303	3	2.97	3	3	3	2.6	2.87	2.93	2.88	2.2	Attained
C304	2.5	2.8	3	2.7	2.7	2.7	2.67	2.9	2.96	2.2	Attained
C305	2.5	2.7	2.7	2.7	2.8	2.6	2.6	2.92	2.67	2.2	Attained
C306	3	3	3	3	3	3	3	2.98	2.87	2.2	Attained
C307	3	3	3	3	2.8	3	2.97	2.93	2.96	2.8	Attained

C308	3	3	3	3	3	3	3	2.93	2.99	2.8	Attained
C309	3	3	2.9	3	3	3	3	2.85	2.97	2.8	Attained
C310	2.8	2.7	2.8	3	3	3	2.87	2.93	2.88	2.2	Attained
C311	2.5	2.6	2.6	2.7	3	2.6	2.63	2.87	2.68	2.2	Attained
C312	2.5	2.7	3	2.7	2.7	2.7	2.63	2.93	2.69	2.2	Attained
C313	3	3	2.7	2.7	2.7	2.7	2.73	2.97	2.64	2.2	Attained
C314	3	3	3	3	2.7	3	2.93	2.93	2.93	2.2	Attained
C315	2.5	2.7	3	2.7	2.7	2.7	2.63	2.93	2.69	2.2	Attained
C316	3	2.9	3	2.9	3	3	3	2.83	2.97	2.8	Attained
C317	3	2.9	3	2.9	3	3	3	2.83	2.97	2.8	Attained
C318	2.98	2.98	2.98	2.98	2.89	2.89	2.89	2.98	2.97	2.8	Attained
C319	3	2.9	3	2.9	3	3	3	2.83	2.99	2.8	Attained
C401	2.5	2.7	2.7	2.7	3	2.8	2.67	2.93	2.64	2.2	Attained
C402	3	2.7	3	3	3	2.7	2.87	2.93	2.88	2.2	Attained
C403	3	3	2.8	3	2.7	2.8	2.87	2.93	2.88	2.2	Attained
C404	3	3	2.7	3	3	3	2.93	2.93	2.93	2.2	Attained
C405	2.91	2.91	2.91	2.91	2.91	2.84	2.93	2.92	2.69	2.2	Attained
C406	2.5	2.7	3	2.7	2.7	2.7	2.63	2.93	2.96	2.2	Attained
C407	3	2.5	2.5	2.5	2.5	2.5	2.5	2.97	2.97	2.8	Not attained
C408	3	2.9	3	2.9	3	3	3	2.83	2.66	2.8	Attained
C409	2.5	2.7	2.7	2.7	2.7	2.8	2.60	2.92	2.75	2.2	Attained
C410	2.5	2.7	3	2.7	2.7	3	2.7	2.95	2.99	2.2	Attained
C411	2.5	2.7	3	2.7	2.7	2.7	2.63	2.93	2.44	2.8	Not attained

**Table 3.7.2.b.iii CO attainment for the batch 2021 -2025**

C No.	Final CO attainment in each CO's						Direct Attainment level	Indirect Attainment level	Final Attainment level	Target Attainment level	Attainment Status
	CO1	CO2	CO3	CO4	CO5	CO6					
C101	3	3	2.5	2.7	2.5	3	2.73	2.92	2.77	2.3	Attained
C102	1.9	2.2	1.9	2.2	1.9	1.8	1.83	2.5	2.36	2	Attained
C103	2	2	2.2	2.4	1.9	2.3	1.93	2.92	2.13	2.3	Not attained
C104	2.8	2.8	3	2.8	3	3	2.9	2.92	2.58	2.3	Attained
C105	2.4	2.4	2.4	2.4	2.2	2.3	2.17	2.98	2.33	2.3	Attained

C106	2.5	2.7	2.7	2.7	3	3	2.7	3	2.76	2.3	Attained
C107	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C108	3	3	3	3	3	3	3	3	2.98	2.8	Attained
C109	3	3	3	2.8	3	3	2.97	2.92	2.96	2.3	Attained
C110	2.3	2.5	2.5	2.6	2.5	2.5	2.6	1.97	2.51	2.3	Attained
C111	3	2.7	2.7	3	2.7	2.5	2.7	2.92	2.74	2.3	Attained
C112	3	3	3	3	3	3	3	2.85	2.71	2.3	Attained
C113	3	3	2.9	3	2.9	2.8	3	2.67	2.93	2.3	Attained
C114	2.5	3	2.5	3	2.5	3	2.77	2.92	2.8	2.3	Attained
C115	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C116	3	3	2.9	3	3	2.9	3	2.85	2.97	2.8	Attained
C201	3	3	2.9	3	2.9	2.8	3	2.57	2.51	2.3	Attained
C202	2.5	2.7	2.7	2.7	2.9	2.9	2.73	2.68	2.72	2.3	Attained
C203	3	3	3	3	3	3	3	2.97	2.64	2.3	Attained
C204	2.5	2.7	2.9	2.7	2.6	2.6	2.63	2.68	2.64	2.3	Attained
C205	3	3	3	3	3	3	3	2.97	2.99	2.3	Attained
C206	3	3	2.9	3	2.9	2.9	3	2.7	2.94	2.3	Attained
C207	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C208	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C209	3	2.5	3	2.9	3	3	2.9	2.85	2.89	2.3	Attained
C210	2.3	2.5	2.5	2.6	2.5	2.5	3	2.63	2.5	2.3	Attained
C211	3	3	2.9	3	2.9	2.8	3	2.65	2.93	2.3	Attained
C212	3	3	3	3	3	3	3	2.97	2.99	2.3	Attained
C213	2.5	2.7	3	2.7	2.7	2.6	2.63	2.88	2.68	2.3	Attained
C214	3	3	3	3	3	2.7	2.93	2.93	2.93	2.3	Attained
C215	2.8	2.8	3	2.8	3	3	2.9	2.92	2.58	2.3	Attained
C216	3	3	3	3	2.8	3	2.97	2.92	2.96	2.8	Attained
C217	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C301	3	3	3	3	2.8	3	2.97	2.98	2.97	2.3	Attained
C302	3	3	3	3	3	3	3	2.97	2.99	2.3	Attained
C303	2.5	2.7	2.7	2.7	2.8	2.6	2.93	2.93	2.93	2.3	Attained
C304	2.4	2.6	2.9	2.6	2.6	2.6	2.63	2.52	2.61	2.3	Attained
C305	2.5	3	2.7	2.7	2.7	3	2.7	2.92	2.74	2.3	Attained
C306	3	3	3	2.9	2.8	3	2.97	2.87	2.95	2.3	Attained
C307	3	3	3	3	2.8	3	2.97	2.93	2.96	2.8	Attained

C308	2.96	2.96	2.88	3	3	3	2.96	2.9	2.99	2.8	Attained
C309	3	2.9	3	2.9	3	2.9	3	2.65	2.93	2.8	Attained
C310	2.5	2.7	2.7	2.7	2.7	2.6	2.57	2.92	2.64	2.3	Attained
C311	2.5	2.6	2.6	2.7	2.6	2.6	2.57	2.87	2.63	2.3	Attained
C312	2.5	2.7	3	2.7	2.7	2.6	2.63	2.9	2.68	2.3	Attained
C313	3	3	2.7	2.7	2.7	2.6	2.73	2.92	2.93	2.3	Attained
C314	3	3	2.9	3	2.9	2.8	3	2.67	2.93	2.3	Attained
C315	2.5	2.7	3	2.7	2.7	2.6	2.63	2.92	2.69	2.3	Attained
C316	3	3	3	3	3	3	3	2.97	2.99	2.8	Attained
C317	3	3	3	2.9	3	3	3	2.87	2.97	2.8	Attained
C318	2.98	2.98	2.98	2.98	2.89	2.89	2.89	2.98	3	2.8	Attained
C319	3	2.5	3	2.9	3	3	2.9	2.85	3	2.8	Attained
C401	3	3	2.7	2.7	2.7	2.7	2.73	2.93	2.77	2.3	Attained
C402	3	3	3	3	3	2.7	2.93	2.93	2.93	2.3	Attained
C403	3	3	2.9	3	2.9	2.8	3	2.6	2.93	2.3	Attained
C404	2.7	3	2.7	2.7	2.7	2.7	2.6	2.93	2.75	2.3	Attained
C406	2.8	3	2.6	2.6	2.7	2.6	2.7	2.8	2.7	2.3	Attained
C407	3	3	3	3	3	3	3	3	3	2.8	Attained
C408	3	3	3	3	3	3	3	3	3	2.8	Attained
C409	3	3	3	3	3	3	3	2.91	2.98	2.3	Attained
C410	3.00	3.00	2.70	2.80	2.70	2.70	2.70	2.90	2.8	2.3	Attained
C411	3	3	3	3	3	3	3	2.9	2.98	2.8	Attained

### 3.8 Attainment of Program Outcomes and Program Specific Outcomes (25)

**Table No.3.8.1: PO and PSO attainment value using direct assessment tools**

**2019-2023**

C No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C101	-	2.66	-	-	2.82	-	-	-	2.82	2.82	-	2.82	2.82	1.88
C102	0.66	0.66	0.66	0.66	-	-	-	-	0.66	-	-	0.66	0.66	-
C103	1.45	1.45	1.45	-	-	-	-	1.45	1.45	1.45	1.45	2.18	1.45	-
C104	2.58	-	1.72	-	-	1.72	-	1.72	1.72	1.72	-	1.72	2.58	1.72
C105	2.68	2.19	1.99	2.19	2.28	1.99	1.99	1.99	1.99	1.99	2.48	2.19	2.98	2.68
C106	0.99	-	0.72	-	-	-	-	-	-	0.72	-	-	0.54	-
C107	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	1.99	2.99	1.99

C108	2.98	2.98	-	1.99	-	-	-	1.99	2.98	1.99	-	2.98	1.99	1.99
C109	-	1.68	-	-	1.68	-	-	-	1.68	1.68	-	1.68	1.68	1.12
C110	1	1	1	-	-	-	-	-	1	-	-	1	1	-
C111	1.81	1.81	1.81	-	-	-	-	1.81	1.81	1.81	1.81	2.72	1.81	-
C112	0.65	0.65	0.43	-	-	-	-	-	0.65	0.65	-	0.43	0.65	0.43
C113	1.65	1.65	1.65	1.65	1.65	-	-	-	1.65	-	-	1.65	1.65	1.65
C114	2.8	2.8	-	-	-	2.8	-	-	2.8	2.8	-	2.8	2.8	1.87
C115	2.97	2.67	2.38	2.18	2.18	1.98	1.98	2.67	2.77	2.48	1.98	1.98	2.97	1.98
C116	2.95	1.97	-	-	-	-	-	-	1.97	1.97	-	1.97	1.97	-
C201	0.98	0.98	0.98	-	-	-	-	-	0.98	-	-	0.98	0.98	-
C202	1.07	1	1	0.93	0.82	0.71	0.71	0.71	0.86	0.71	-	1.07	0.96	0.89
C203	2	2	2	2	2	1.33	-	-	2	2	2	2	2	2
C204	1.71	1.71	1.71	1.71	1.71	1.14	-	-	1.71	1.71	-	1.71	1.71	1.71
C205	1.07	1.07	1.07	1.07	1.07	0.71	-	-	1.07	1.07	0.71	1.07	1.07	1.07
C206	1.7	1.7	1.7	1.7	1.13	-	-	-	1.7	-	-	1.7	1.7	1.13
C207	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	1.99	2.99	1.99
C208	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	1.97	2.96	1.97
C209	-	1.98	-	-	2.97	-	-	-	2.97	2.97	-	2.97	2.97	1.98
C210	0.97	0.97	0.97	0.97	-	-	-	-	0.97	-	-	0.97	0.97	-
C211	0.72	0.72	0.72	0.72	0.72	0.72	-	-	0.72	0.72	0.72	0.72	0.72	0.72
C212	1	1	1	1	1	-	-	-	1	1	-	0.67	1	1
C213	0.76	0.76	0.76	0.76	0.76	0.76	-	-	0.76	0.51	0.76	0.76	0.76	0.76
C214	1.06	1.06	1.06	1.06	1.06	1.06	-	-	1.06	0.71	1.06	1.06	1.06	1.06
C215	1.35	1.35	1.35	-	-	1.35	1.35	2.02	1.35	-	-	1.35	2.02	1.35
C216	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	1.97	2.96	1.97
C217	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	1.99	2.99	1.99
C301	2.33	2.33	2.33	2.33	2.33	-	-	-	2.33	1.55	2.33	2.33	2.33	2.33
C302	0.74	0.74	0.74	0.74	0.74	-	-	-	0.74	0.74	0.74	0.74	0.74	0.74
C303	1.48	1.35	1.35	1.35	1.55	-	-	-	1.48	2.02	-	2.02	1.55	2.02
C304	1.78	1.83	1.67	1.89	1.87	1.78	1.78	2	1.87	1.6	1.67	2	1.67	1.67
C305	2	2	2	2	2	2	2	-	2	2	2	2	2	2
C306	2.02	1.35	-	-	-	2.02	2.02	1.35	2.02	2.02	-	2.02	2.02	2.02
C307	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	1.97	2.96	1.97
C308	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	1.99	2.99	1.99
C309	2.99	1.99	1.99	-	1.99	-	-	-	1.99	-	-	2.99	2.32	
C310	2.9	2.9	2.9	2.9	2.9	2.9	-	-	1.93	1.93	2.9	2.9	2.9	2.9
C311	2.93	2.93	2.93	2.93	2.93	-	-	-	1.95	1.95	2.93	2.93	2.93	2.93
C312	2.68	2.68	2.68	2.68	2.68	-	-	-	1.79	1.79	2.68	2.68	2.68	2.68
C313	-	-	-	-	-	-	-	1.85	1.85	1.85	1.85	1.85	1.85	-
C314	2.93	2.93	2.93	2.93	2.93	-	-	-	1.95	1.95	1.95	2.93	2.93	2.93
C315	2.69	2.69	-	2.69	2.69	-	-	-	1.79	2.69	-	2.69	2.69	2.69

C316	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	1.99	2.99	1.99
C317	2.97	2.67	2.38	2.18	2.18	1.98	1.98	2.67	2.77	2.48	1.98	1.98	2.97	1.98
C318	-	1.98	-	-	2.97	-	2.97	-	2.97	2.97	-	2.97	2.97	1.98
C319	2.99	2.99	2.99	2.99	2.99	1.99	-	2.99	2.99	2.99	2.99	2.99	2.99	1.99
C401	2.98	2.98	2.98	2.98	2.98	-	-	-	2.98	2.98	2.98	2.98	2.98	2.98
C402	2.75	2.75	2.75	2.75	1.83	2.75	1.83	-	2.75	2.75	1.83	2.75	2.75	2.75
C403	2.98	2.98	2.98	2.98	2.98	2.98	-	-	2.98	2.98	1.99	2.98	2.98	2.98
C404	2.91	2.91	2.91	2.91	2.91	-	-	-	2.91	2.91	1.94	2.91	2.91	2.91
C406	2.95	2.95	2.95	1.97	-	2.95	2.95	1.97	2.95	2.95	1.97	2.95	2.95	2.95
C407	2.59	2.33	2.07	1.9	1.9	1.73	1.73	2.33	2.42	2.16	1.73	1.73	2.59	1.73
C408	2.97	2.67	2.38	2.18	2.18	1.98	1.98	2.67	2.77	2.48	1.98	1.98	2.97	1.98
C409	2.64			-	-	2.64	-	2.64	-	2.64	2.64	2.64	2.64	2.64
C410	2.93	2.93	1.95	2.93	-	1.95	1.95	-	2.93	2.93	1.95	2.93	2.93	2.93
C411	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Direct Attainment	2.2	2.08	1.92	2.03	2.09	1.9	2	2.28	2.06	2.06	1.97	2.02	2.2	1.98

**2020-2024**

C No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C101	-	2.3	-	-	2.44	-	-	-	2.44	2.44	-	2.44	2.44	1.63
C102	1.08	1.08	1.08	1.08	-	-	-	-	1.08	-	-	1.08	1.08	-
C103	1.64	1.64	1.64	-	-	-	-	1.64	1.64	1.64	1.64	2.46	1.64	-
C104	2.57	-	1.71	-	-	1.71	-	1.71	1.71	1.71	-	1.71	2.57	1.71
C105	2.4	1.96	1.78	1.96	2.05	1.78	1.78	1.78	1.78	1.78	2.23	1.96	2.67	2.4
C106	2.53	-	1.84	-	-	-	-	-	-	1.84	-	-	1.38	-
C107	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	1.99	2.99	1.99
C108	2.99	2.99	-	1.99	-	-	-	1.99	2.99	1.99	-	2.99	1.99	1.99
C109	-	2.43	-	-	2.43	-	-	-	2.43	2.43	-	2.43	2.43	1.62
C110	2.47	2.47	2.47	-	-	-	-	-	2.47	-	-	2.47	2.47	-
C111	1.58	1.58	1.58	-	-	-	-	1.58	1.58	1.58	1.58	2.37	1.58	-
C112	2.77	2.77	1.85	-	-	-	-	-	2.77	2.77	-	1.85	2.77	1.85
C113	2.96	2.96	2.96	2.96	2.96	-	-	-	2.96	-	-	2.96	2.96	2.96
C114	2.8	2.8	-	-	-	2.8	-	-	2.8	2.8	-	2.8	2.8	1.87
C115	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	1.99	2.99	1.99
C116	2.99	1.99	-	-	-	-	-	-	1.99	1.99	-	1.99	1.99	-
C201	1.07	1.07	1.07	-	-	-	-	-	1.07	-	-	1.07	1.07	-
C202	2.77	2.59	2.59	2.4	2.12	1.85	1.85	1.85	2.22	1.85	-	2.77	2.49	2.31
C203	2.69	2.69	2.69	2.69	2.69	1.79	-	-	2.69	2.69	2.69	2.69	2.69	2.69
C204	2.69	2.69	2.69	2.69	2.69	1.79	-	-	2.69	2.69	-	2.69	2.69	2.69

C205	2.69	2.69	2.69	2.69	2.69	1.79	-	-	2.69	2.69	1.79	2.69	2.69	2.69	2.69
C206	2.99	2.99	2.99	2.99	1.99	-	-	-	2.99	-	-	2.99	2.99	1.99	1.99
C207	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	1.97	2.96	1.97	1.97
C208	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	1.97	2.96	1.97	1.97
C209	-	1.98	-	-	2.97	-	-	-	2.97	2.97	-	2.97	2.97	1.98	1.98
C210	2.54	2.54	2.54	2.54	-	-	-	-	2.54	-	-	2.54	2.54	-	-
C211	2.69	2.69	2.69	2.69	2.69	2.69	-	-	2.69	2.69	2.69	2.69	2.69	2.69	2.69
C212	2.99	2.99	2.99	2.99	2.99	-	-	-	2.99	2.99	-	1.99	2.99	2.99	2.99
C213	2.69	2.69	2.69	2.69	2.69	2.69	-	-	2.69	1.79	2.69	2.69	2.69	2.69	2.69
C214	2.88	2.88	2.88	2.88	2.88	2.88	-	-	2.88	1.92	2.88	2.88	2.88	2.88	2.88
C215	1.67	1.67	1.67	-	-	1.67	1.67	2.5	1.67	-	-	1.67	2.5	1.67	1.67
C216	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	1.97	2.96	1.97	1.97
C217	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	1.99	2.99	1.99	1.99
C301	3	3	3	3	3	-	-	-	3	2	3	3	3	3	3
C302	2.96	2.96	2.96	2.96	2.96	-	-	-	2.96	2.96	2.96	2.96	2.96	2.96	2.96
C303	2.11	1.92	1.92	1.92	2.21	-	-	-	2.11	2.88	-	2.88	2.21	2.88	2.88
C304	2.63	2.71	2.47	2.79	2.76	2.63	2.63	2.96	2.76	2.37	2.47	2.96	2.47	2.47	2.47
C305	2.67	2.67	2.67	2.67	2.67	2.67	2.67	-	2.67	2.67	2.67	2.67	2.67	2.67	2.67
C306	2.87	1.91	-	-	-	2.87	2.87	1.91	2.87	2.87	-	2.87	2.87	2.87	2.87
C307	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	1.97	2.96	1.97	1.97
C308	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	1.99	2.99	1.99	1.99
C309	2.97	1.98	1.98	-	1.98	-	-	-	-	1.98	-	-	2.97	2.31	2.31
C310	2.88	2.88	2.88	2.88	2.88	2.88	-	-	1.92	1.92	2.88	2.88	2.88	2.88	2.88
C311	2.68	2.68	2.68	2.68	2.68	-	-	-	1.79	1.79	2.68	2.68	2.68	2.68	2.68
C312	2.69	2.69	2.69	2.69	2.69	-	-	-	1.79	1.79	2.69	2.69	2.69	2.69	2.69
C313	-	-	-	-	-	-	-	-	1.76	1.76	1.76	1.76	1.76	1.76	-
C314	2.93	2.93	2.93	2.93	2.93	-	-	-	1.95	1.95	1.95	1.95	2.93	2.93	2.93
C315	2.69	2.69	-	2.69	2.69	-	-	-	1.79	2.69	-	2.69	2.69	2.69	2.69
C316	2.97	2.67	2.38	2.18	2.18	1.98	1.98	2.67	2.77	2.48	1.98	1.98	2.97	1.98	1.98
C317	2.97	2.67	2.38	2.18	2.18	1.98	1.98	2.67	2.77	2.48	1.98	1.98	2.97	1.98	1.98
C318	-	1.98	-	-	2.97	-	2.97	-	2.97	2.97	-	2.97	2.97	1.98	1.98
C319	2.99	2.99	2.99	2.99	2.99	1.99	-	2.99	2.99	2.99	2.99	2.99	2.99	2.99	1.99
C401	2.64	2.64	2.64	2.64	2.64	-	-	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64
C402	2.88	2.88	2.88	2.88	1.92	2.88	1.92	-	2.88	2.88	1.92	2.88	2.88	2.88	2.88
C403	2.88	2.88	2.88	2.88	2.88	2.88	-	-	2.88	2.88	1.92	2.88	2.88	2.88	2.88
C404	2.93	2.93	2.93	2.93	2.93	-	-	-	2.93	2.93	1.95	2.93	2.93	2.93	2.93
C406	2.69	2.69	2.69	1.79	-	2.69	2.69	1.79	2.69	2.69	1.79	2.69	2.69	2.69	2.69
C407	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	1.97	2.96	1.97	1.97
C408	2.97	2.67	2.38	2.18	2.18	1.98	1.98	2.67	2.77	2.48	1.98	1.98	2.97	1.98	1.98
C409	2.66			-	-	2.66	-	2.66	-	2.66	2.66	2.66	2.66	2.66	2.66
C410	2.75	2.75	1.83	2.75	-	1.83	1.83	-	2.75	2.75	1.83	2.75	2.75	2.75	2.75

C411	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99
Direct Attainment	2.69	2.53	2.42	2.51	2.53	2.24	2.16	2.39	2.5	2.42	2.26	2.45	2.64	2.39	

**2021-2025**

C No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
C101	-	2.62	-	-	2.77	-	-	-	2.77	2.77	-	2.8	2.77	1.85
C102	2.36	2.36	2.36	2.36	-	-	-	-	2.36	-	-	2.4	2.36	-
C103	1.42	1.42	1.42	-	-	-	-	1.42	1.42	1.42	1.42	2.1	1.42	-
C104	2.58	-	1.72	-	-	1.72	-	1.72	1.72	1.72	-	1.7	2.58	1.72
C105	2.1	1.71	1.55	1.71	1.79	1.55	1.55	1.55	1.55	1.55	1.94	1.7	2.33	2.1
C106	2.53	-	1.84	-	-	-	-	-	-	1.84	-	-	1.38	-
C107	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	2	2.99	1.99
C108	2.98	2.98	-	1.99	-	-	-	1.99	2.98	1.99	-	3	1.99	1.99
C109	-	2.96	-	-	2.96	-	-	-	2.96	2.96	-	3	2.96	1.97
C110	2.51	2.51	2.51	-	-	-	-	-	2.51	-	-	2.5	2.51	-
C111	1.83	1.83	1.83	-	-	-	-	1.83	1.83	1.83	1.83	2.7	1.83	-
C112	2.71	2.71	1.81	-	-	-	-	-	2.71	2.71	-	1.8	2.71	1.81
C113	2.93	2.93	2.93	2.93	2.93	-	-	-	2.93	-	-	2.9	2.93	2.93
C114	2.8	2.8	-	-	-	2.8	-	-	2.8	2.8	-	2.8	2.8	1.87
C115	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	2	2.99	1.99
C116	2.97	1.98	-	-	-	-	-	-	1.98	1.98	-	2	1.98	-
C201	2.51	2.51	2.51	-	-	-	-	-	2.51	-	-	2.5	2.51	-
C202	2.72	2.54	2.54	2.36	2.09	1.81	1.81	1.81	2.18	1.81	-	2.7	2.45	2.27
C203	2.64	2.64	2.64	2.64	2.64	1.76	-	-	2.64	2.64	2.64	2.6	2.64	2.64
C204	2.64	2.64	2.64	2.64	2.64	1.76	-	-	2.64	2.64	-	2.6	2.64	2.64
C205	2.99	2.99	2.99	2.99	2.99	1.99	-	-	2.99	2.99	1.99	3	2.99	2.99
C206	2.94	2.94	2.94	2.94	1.96	-	-	-	2.94	-	-	2.9	2.94	1.96
C207	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	2	2.99	1.99
C208	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	2	2.99	1.99
C209	-	1.93	-	-	2.89	-	-	-	2.89	2.89	-	2.9	2.89	1.93
C210	2.5	2.5	2.5	2.5	-	-	-	-	2.5	-	-	2.5	2.5	-
C211	2.93	2.93	2.93	2.93	2.93	2.93	-	-	2.93	2.93	2.93	2.9	2.93	2.93
C212	2.99	2.99	2.99	2.99	2.99	-	-	-	2.99	2.99	-	2	2.99	2.99
C213	2.68	2.68	2.68	2.68	2.68	2.68	-	-	2.68	1.79	2.68	2.7	2.68	2.68
C214	2.93	2.93	2.93	2.93	2.93	2.93	-	-	2.93	1.95	2.93	2.9	2.93	2.93
C215	1.72	1.72	1.72	-	-	1.72	1.72	2.58	1.72	-	-	1.7	2.58	1.72
C216	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	2	2.96	1.97
C217	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	2	2.99	1.99

C301	2.97	2.97	2.97	2.97	2.97	-	-	-	2.97	1.98	2.97	3	2.97	2.97
C302	2.99	2.99	2.99	2.99	2.99	-	-	-	2.99	2.99	2.99	3	2.99	2.99
C303	2.15	1.95	1.95	1.95	2.25	-	-	-	2.15	2.93	-	2.9	2.25	2.93
C304	2.32	2.39	2.18	2.46	2.44	2.32	2.32	2.61	2.44	2.09	2.18	2.6	2.18	2.18
C305	2.74	2.74	2.74	2.74	2.74	2.74	2.74	-	2.74	2.74	2.74	2.7	2.74	2.74
C306	2.95	1.97	-	-	-	2.95	2.95	1.97	2.95	2.95	-	3	2.95	2.95
C307	2.96	2.66	2.37	2.17	2.17	1.97	1.97	2.66	2.76	2.47	1.97	2	2.96	1.97
C308	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	2	2.99	1.99
C309	2.93	1.95	1.95	-	1.95	-	-	-	-	1.95	-	-	2.93	2.28
C310	2.64	2.64	2.64	2.64	2.64	2.64	-	-	1.76	1.76	2.64	2.6	2.64	2.64
C311	2.63	2.63	2.63	2.63	2.63	-	-	-	1.75	1.75	2.63	2.6	2.63	2.63
C312	2.68	2.68	2.68	2.68	2.68	-	-	-	1.79	1.79	2.68	2.7	2.68	2.68
C313	-	-	-	-	-	-	-	1.95	1.95	1.95	1.95	2	1.95	-
C314	2.93	2.93	2.93	2.93	2.93	-	-	-	1.95	1.95	1.95	2.9	2.93	2.93
C315	2.69	2.69	-	2.69	2.69	-	-	-	1.79	2.69	-	2.7	2.69	2.69
C316	2.99	2.69	2.39	2.19	2.19	1.99	1.99	2.69	2.79	2.49	1.99	2	2.99	1.99
C317	2.97	2.67	2.38	2.18	2.18	1.98	1.98	2.67	2.77	2.48	1.98	2	2.97	1.98
C318	-	2	-	-	3	-	3	-	3	3	-	3	3	2
C319	3	3	3	3	3	2	3	3	3	3	3	3	3	2
C401	2.77	2.77	2.77	2.77	2.77	-	-	-	2.77	2.77	2.77	2.8	2.77	2.77
C402	2.93	2.93	2.93	2.93	1.95	2.93	1.95	-	2.93	2.93	1.95	2.9	2.93	2.93
C403	2.93	2.93	2.93	2.93	2.93	2.93	-	-	2.93	2.93	1.95	2.9	2.93	2.93
C404	2.75	2.75	2.75	2.75	2.75	-	-	-	2.75	2.75	1.83	2.8	2.75	2.75
C406	2.7	2.7	2.7	1.8	-	2.7	2.7	1.8	2.7	2.7	1.8	2.7	2.7	2.7
C407	3	2.7	2.4	2.2	2.2	2	2	2.7	2.8	2.5	2	2	3	2
C408	3	2.7	2.4	2.2	2.2	2	2	2.7	2.8	2.5	2	2	3	2
C409	2.98			-	-	2.98	-	-	-	2.98	1.99	3	2.98	2.98
C410	2.8	2.8	1.87	2.8	-	1.87	1.87	-	2.8	2.8	1.87	2.8	2.8	2.8
C411	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	2.98	3	2.98	2.98
Direct Attainment	2.74	2.59	2.47	2.53	2.54	2.25	2.19	2.38	2.57	2.44	2.24	2.5	2.7	2.4

**Table No. 3.8.2: PO and PSO attainment value using indirect assessment tools**

**2019-2023**

Survey	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
Program Exit survey	2.2	2.08	1.92	2.03	2.09	1.9	2	2.28	2.06	2.06	1.97	2.02	2.2	1.98
Alumni feedback	2.38	2.44	2.51	2.5	2.37	2.51	2.48	2.48	2.65	2.53	2.6	2.54	2.43	2.36

Employer feedback	2	1.89	1.65	1.72	1.71	1.57	1.42	1.74	1.88	1.83	1.65	1.83	1.98	1.76
Indirect Attainment	2.38	2.44	2.51	2.5	2.37	2.51	2.48	2.48	2.65	2.53	2.6	2.54	2.43	2.36

### 2020-2024

Survey	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
Program Exit survey	2.2	2.08	1.92	2.03	2.09	1.9	2	2.28	2.06	2.06	1.97	2.02	2.2	1.98
Alumni feedback	2.38	2.44	2.51	2.5	2.37	2.51	2.48	2.48	2.65	2.53	2.6	2.54	2.43	2.36
Employer feedback	2	1.89	1.65	1.72	1.71	1.57	1.42	1.74	1.88	1.83	1.65	1.83	1.98	1.76
Indirect Attainment	2.46	2.62	2.4	2.38	2.45	2.52	2.6	2.54	2.8	2.64	2.56	2.52	2.26	2.26

### 2021-2025

Survey	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
Program Exit survey	2.2	2.08	1.92	2.03	2.09	1.9	2	2.28	2.06	2.06	1.97	2.02	2.2	1.98
Alumni feedback	2.38	2.44	2.51	2.5	2.37	2.51	2.48	2.48	2.65	2.53	2.6	2.54	2.43	2.36
Employer feedback	2	1.89	1.65	1.72	1.71	1.57	1.42	1.74	1.88	1.83	1.65	1.83	1.98	1.76
Indirect Attainment	2.51	2.55	2.57	2.59	2.52	2.65	2.59	2.64	2.63	2.62	2.7	2.6	2.53	2.51

**Table No.3.8.3: Overall PO and PSO attainment value**

### 2019-2023

Assessment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3
Direct Attainment	2.2	2.08	1.92	2.03	2.09	1.9	2	2.28	2.06	2.06	1.97	2.02	2.2	1.98
Indirect Attainment	2.38	2.44	2.51	2.5	2.37	2.51	2.48	2.48	2.65	2.53	2.6	2.54	2.43	2.36
Overall PO/PSO Attainment	2	1.89	1.65	1.72	1.71	1.57	1.42	1.74	1.88	1.83	1.65	1.83	1.98	1.76

### 2020-2024

Assessment	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
Direct Attainment	2.69	2.53	2.42	2.51	2.53	2.24	2.16	2.39	2.5	2.42	2.26	2.45	2.64	2.39
Indirect Attainment	2.46	2.62	2.4	2.38	2.45	2.52	2.6	2.54	2.8	2.64	2.56	2.52	2.26	2.26
Overall PO/PSO Attainment	2.54	2.47	2.33	2.28	2.43	2.09	2.02	2.22	2.42	2.29	2.28	2.33	2.45	2.25

**2021-2025**

Assessment	<b>PO1</b>	<b>PO2</b>	<b>PO3</b>	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	<b>PO11</b>	<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
Direct Attainment	2.74	2.59	2.47	2.53	2.54	2.25	2.19	2.38	2.57	2.44	2.24	2.5	2.7	2.4
Indirect Attainment	2.51	2.55	2.57	2.59	2.52	2.65	2.59	2.64	2.63	2.62	2.7	2.6	2.53	2.51
Overall PO/PSO Attainment	2.69	2.58	2.49	2.54	2.54	2.33	2.27	2.43	2.58	2.48	2.33	2.5	2.67	2.42