

***Attainment of
Programme Outcome
and
Course Outcome***



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DECLARATION

The Information, report, true copies of the supporting documents, numerical data,
 etc. furnished in this file is verified by IQAC and found correct

Hence this certificate

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Attainment of Course Outcomes

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In the Outcome Based Education (OBE), assessment is done through one or more than one processes, carried out by the department, that identify, collect, and prepare data to evaluate the achievement of course outcomes (CO's).

The process for finding the attainment of Course outcomes uses various tools/methods. These methods are classified into two types-

1. Direct methods

2. Indirect methods.

- Direct methods display the student's knowledge and skills from their performance in the class/assignment test, internal assessment tests, assignments, semester examinations, seminars, laboratory assignments/practical, mini projects etc. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.
- Indirect methods such as course exit survey and examiner feedback to reflect on student's learning. They are used to assess opinions or thoughts about the graduate's knowledge or skills.

Following tables show the various methods used in assessment process that periodically documents and demonstrates the degree to which the Course Outcomes are attained. They include information on:

- a) Listing and description of the assessment processes used to gather the data, and
- b) The frequency with which these assessment processes are carried out.

Table 1: Direct Assessment Tool used for CO Attainment

Sr. No.	Direct Assessment Method	Assessment frequency	Description
1.	Internal Assessment Test	Once in a Semester	The Internal Assessment marks in a theory paper shall be based on two tests generally conducted at the end of each semester. It is a metric used to continuously assess the attainment of course outcomes w.r.t course objectives. Average marks of two tests shall be the Internal Assessment Marks for the relevant course.
2.	Lab Assignments /experiments	Once in a week	Lab Assignment/Experiment is a qualitative performance assessment tool designed to assess students' practical knowledge and problem solving skills. Minimum ten experiments need to be conducted for every lab course (Home Economics & Psychology)
3	End Semester Examination	Once in a Semester	End Semester examination (theory or practical) are the metric to assess whether all the course outcomes are attained or not framed by the course in charge.
4	Practical Semester Examination		End Semester Examination is more focused on attainment of all course outcomes and uses a descriptive question.
5	Home Assignments	Once in a Semester	Assignment is a metric used to assess student's analytical and problem solving abilities. Every student is assigned with course related tasks & assessment will be done based on their performance.

6	Class / Assignment Test	Twice in a Semester	It is a metric used to continuously assess the student understands capabilities.
7	Preliminary Examination	Once in a semester	Preliminary examination is the metric to assess whether all the course outcomes are attained or not by asking descriptive questions.
8	Presentations	As per the requirement	Presentation is the metric used to assess student's communication and presentation skills along with depth of the subject knowledge. Seminars topics are given to the students that cover topics of current interest or provide in-depth coverage of selected topics from the core courses.

Table 2: Indirect Assessment tool used for CO attainment

Sr. No.	Indirect Assessment Method	Assessment frequency	Method Description
1	Course Exit Survey	End of Semester	Collect variety of information about course outcomes from the students after learning entire course.

The weightages given for various assessment tools used for the attainment of Course Outcomes are shown in the following table

Table 3: List of Course Assessment tools

Assessment Tools	Direct	Internal Tools	Tools	Frequency	Weightage		
			Assignment tests	Twice in a semester	80 %	60%	80%
Internal assessment	Twice in a semester						
Home Assignments	Selected Topic						
Practical	Weekly	60%	80%				
MOCK Practicals	Once in a semester						
MCQ							
Seminar/ Presentations							
Assessment Tools	Direct	Internal Tools	Tools	Frequency	Weightage		
Assignment tests	Twice in a semester	80 %	60%	80%			
Internal assessment	Twice in a semester						
Home Assignments	Selected Topic						
Practical	Weekly	60%	80%				
MOCK Practicals	Once in a semester						
MCQ							
Seminar/ Presentations							



Attainment of Programme Outcomes

Attainment of Programme Outcomes:

Assessment tools are categorized into Direct and Indirect methods to assess the program outcomes. 80% weightage is given to direct methods and 20% to indirect methods.

- **Direct methods** display the students' knowledge and skills from their performance in the various academic activities like Internal Assessment Exams, End–Semester Examinations, Assignment/Class Tests, Presentations, and Home Assignments, Quizzes, Practicals etc. These methods provide a sampling of what students know and/or can do and provide strong evidence of student learning.
- **Indirect methods** such as surveys and interviews of the stakeholders to reflect on student's learning. They assess opinions or thoughts about the graduates' knowledge or skills valued by different stakeholders. The various indirect tools are:
 - **Program feedback**
 - **Feedback conducted on Co-curricular and Extra-curricular activities.**

The Programme outcomes are difficult to measure such as assessing critical thinking, creativity, analytical skills, and problem solving etc. The methods/tools used for the assessment process that periodically documents and demonstrates the degree to which the Programme Outcomes are attained are shown below including the information on:


- a) Listing and description of the assessment processes used to gather the data, and

Table 1: Direct Assessment tool used for PO attainment

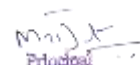
Sr. No.	Direct Assessment Method	Assessment frequency	Description
1.	CO attainment of all courses	Once in a Semester	Minimum two internal tools (internal assessment test, class/assignment test, seminar, quiz, practical, mini project etc.) are used to find the attainment of each course outcome along with the performance of the students in preliminary exams and end semester exams. The weightage provided for that is 80%. Course feedback is also considered for the attainment, that is conducted at the end of the semester and 20% weightage is given for that.

Table 2: Indirect Assessment tool used for PO attainment

Sr. No.	Indirect Assessment Method	Assessment frequency	Method Description
1	Alumni Survey	Once in two years	Collect variety of information about program outcomes from the Alumni students.
2	Program Exit Survey	Once in a year	Collect variety of information about program outcomes from the outgoing students
3	Employer Survey	Once in two years	Collect variety of information about the graduates' skills, capabilities and opportunities
4	Survey on Co and Extra-curricular activities	Once in a year on all activities	Collect variety of information on students capabilities and opportunities.


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