ATTAINMENT PROCEDURE (PROGRAM)

Attainment of Course Outcomes

Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based

Assessment process:

The tools such as tests, assignments, examinations etc. are taken on the questions that relate to specific course outcomes in each course. Presentations and seminars are aimed towards wider scope of the subject including its impact on society and environment as a whole. The questions at the presentations/seminars make the scope even wider and relate with the course outcomes and give the student a feel that things are almost never complete, thus the need for continuous independent lifelong learning is emphasized.

Tools used in measuring CO:

Assessment	Assessment Tool	Tool Description		
Tool Type	Title			
	Assignment	The assignment is a qualitative performance assessment tool		
		designed to assess student's knowledge of engineering		
		practices, framework, and problem solving. It also helps to		
		guide written presentation skills and improve the thinking		
		capability of the students.		
		This is mainly to assess student's practical knowledge with		
	Internal practical	their designing capabilities.		
	Assessment	The students are tested for their confidence in terms of desig		
		of experimentation and viva voce.		
Assessment		Midterm examination is conducted twice per semester.		
Tools	Midterm exams	Midterm examination is metric for assessing whether the entire		
		COs is attained or not. Examination is more focused on		
		attainment of course outcomes and program outcomes using a		
		descriptive exam.		
	F: 111	External examination is conducted at the end of the seme by the Rajasthan University of Health Sciences. This		
	Final University			
	Exam	examines at all cognitive levels the ability & understanding of		
	(theory +practical)	the students with respect to the concepts taught and their		
		applicability in solving complex pharmaceutical problems.		
	Industrial Internship /	The industrial internship offered at the end of the second, fourth		
		& sixth semester and the students presents his work in the form		
	Seminar	of Seminar to the department which is used to measure the CO.		
andam	Duoingt Evaluation	The projects are mandatory for Final Year students. The		
2505	Project Evaluation	students make their projects under the supervision of respective		
EGE OF ALL		Guide of department which helps to measure the CO.		

Record the attainment of Course Outcome of all courses with respect to set attainment levels

The weighted distribution of components used to record the attainment of course outcomeis given as per following table:

Select Type	Assessment Type	Assessment Components	Weightage (%)
	Internal Assessment	Assignments	5%
Theory	internal Assessment	Mid Semester Examination	15%
	External Assessment	Final University Examination	80%
Practical (Lab./Project/	Internal Assessment	Internal Laboratory Examination	60%
seminar)	External Assessment	External Laboratory Exam	40%

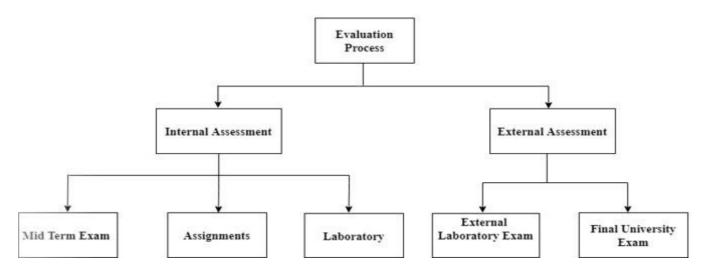


Fig: Process used to obtain attainment level of course outcome Attainment level



Course Outcome Attainment:

Attainment Level 1: 60% of students score more than 60% marks out of the maximum relevant marks.(Low)

Attainment Level 2: 70% of students score more than 60% marks out of the maximum relevant marks. (Moderate).

Attainment Level 3: 80% of students score more than 60% marks out of the maximum relevant marks. (Substantial)

For example:

Attainment through University Examination: Moderate i.e., 2,

Attainment through Internal Assessment: Substantial i.e., 3

We have given 80% weightage to University examination and 20% weightage to internal assessment,

ATTAINMENT PROCEDURE

(For First Year)

The Assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done

The Direct assessment tools such as tests, assignments, examinations etc. are taken on the questions that relate to specific course outcomes in each course. Presentations and seminars are aimed towards wider scope of the subject including its impact on society and environment as a whole. The questions at the presentations/seminars make the scope even wider and relate with the course outcomes and give the students a feel that things are almost never complete, thus the need for continuous independent life-long learning is emphasized. They all contribute equally towards indirect attainment of course outcomes.

Tools used in measuring CO:

Assessment	Assessment	Tool Description		
Tool Type	Tool Title			
V.	Assignment	The assignment is a qualitative performance assessment too designed to assess student's knowledge of engineering practices, framework, and problem solving. It also helps to guide written presentation skills and improve the thinking capability of the students.		
Assessment Tools	Internal practical Assessment Midterm exams	This is mainly to assess student's practical knowledge witheir designing capabilities. The students are tested for their confidence in terms of design of experimentation and viva voce. Midterm examination is conducted twice per semest Midterm examination is metric for assessing whether the ent COs is attained or not. Examination is more focused attainment of course outcomes and program outcomes using descriptive exam. External examination is conducted at the end of the semest by the Rajasthan University of Health Sciences. This tool examines at all cognitive levels the ability & understanding the students with respect to the concepts taught and their applicability in solving complex pharmaceutical problems.		
	Final University Exam (Theory + Practical)			
		Cond GE OF A		

The individual COs of the courses are mapped with correlation level and are being evaluated by prescribed assessment tools. The attainment of individual CO is calculated by assigning separate weightage to the continuous assessmenttests, end term examinations, assignments, or quizzes. The attainment of COs is compared with the target level. The CO is said to be attained if its attainment value is greater than or equal to target attainment level.

The weighted distributions of components to Record the attainment of Course Outcomes are given in the following table:

Select Type	Assessment Type	Assessment Components	Weightage (%)
Theory	Internal Assessment	Assignments	5%
		Mid Semester Examination	15%
	External Assessment	Final University Examination	80%
Practical	Internal Assessment	Internal Laboratory Examination	60%
	External Assessment	External Laboratory Exam	40%

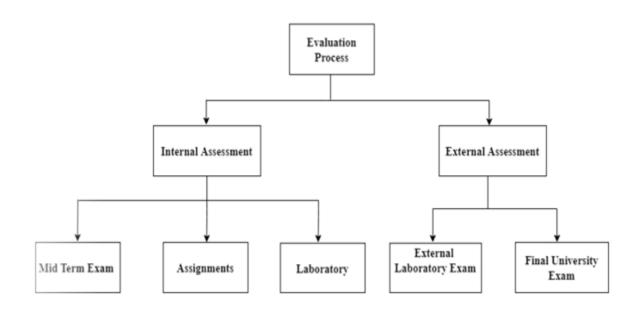


Fig: Processes are used to obtain attainment level of course outcome

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Attainment Level 1:

60% of students score more than 60% marks out of the maximum relevant marks. (Low)

Attainment Level 2:

70% of students score more than 60% marks out of the maximum relevant marks. (Moderate)

Attainment Level 3:

80% of students score more than 60% marks out of the maximum relevant marks. (Substantial)

Course Outcome Attainment Formula:

For example:

Attainment through University Examination: Moderate i.e., 2, Attainment through Internal Assessment: Substantial i.e., 3

We have given 80% weightage to University examination and 20% weightage to Internal assessment, the attainment calculations are

(80% of University level) + (20% of Internal level) = 80% of 2 + 20% of 3 = 1.6 + 0.6 = 2.2