



Rayat Shikshan Sanstha's
Prof. Dr. N. D. Patil Mahavidyalaya, Malkapur – Perid
Tal.- Shahuwadi Dist.-Kolhapur

Affiliated to Shivaji University, Kolhapur

NAAC Reaccredited B + Grade (CGPA 2.82)

Website: www.ndpmmalkapur.com

E-mail: ndpmmalkapur@yahoo.com

Tel: (02329) 202244,226858 **Fax:** (02329) 224530

2.6.2: Attainment of programme outcomes and course outcomes are evaluated by the institution.

**POLICY GUIDELINES FOR PROGRAMME LEARNING
OUTCOMES ASSESSMENT**

POLICY GUIDELINES FOR PROGRAMME LEARNING OUTCOMES ASSESSMENT

1. Introduction

The institution has stated its POs, PSOs and COs of all faculties. It makes sure that these outcomes are attained by the end of the academic year through a well-designed process of evaluation. In the beginning of the academic year, the IQAC prepares an academic calendar which is strictly followed by the institution to conduct curricular, co-curricular, extra-curricular activities and continuous internal evaluation of the students. Apart from this, different committees are also formed under the guidance of the head of the institution for smooth performance of the institution. Each committee plans and implements its academic activities during the entire academic year. Also the review of the concerned committees is taken by the Principal in the meeting. In respect to teaching-learning process, teachers use various innovative teaching methodologies such as experiential learning, participative learning, problem solving, survey method etc. After the completion of the teaching-learning process, attainment of all POs, PSOs and COs is evaluated. As a result, all POs, PSOs and COs are attained and evaluated by the institution.

2. Objectives

- i. To measure attainment of POs and Cos of all programs
- ii. To improve teaching-learning process through measurement of outcomes
- iii. To create quality culture in the institute

3. Assessment Method

The learning outcomes attainment is calculated by using the direct and indirect method.

A. Direct method:

- Preparation of the learning outcomes across all the Programs and Courses.
- The set program outcomes, course outcomes, and program specific outcomes are collected for different courses
- The target levels are set Calculations are done for the attainment of the course outcomes to program outcomes.
- Each CO is mapped to PO to make a (CO-PO) matrix.

The Attainment of course outcome is calculated by using the following formula;

Attainment of Course at UG and PG level:

Attainment of Course = 80% (Attainment level in university examination) + 20% (Attainment level in internal examination)

Using students internal evaluation marks and University examinations, marks the attainment of CO's are evaluated.

Assessment-CO's matrix is prepared for each course.

The attainment level for course outcome is defined as follows:

Level 1: 40% of students scored more than fifty percent.

Level 2: 50% of students scored more than fifty percent.

Level 3: 60% students scored more than fifty percent.

For the calculation of PO's the average attainment values of all courses are considered.

The attainment of program outcome is calculated by using the following formula;

Attainment of program outcome at UG and PG level= 80% (Average attainment in the university examination) + 20% (Average attainment in internal examination)

The attainment level for program outcome (POs) is defined as follows:

Target Achievement	Program outcome Level	Target Attainment
Failed to Achieve Course Outcome	Level 0	> 0.5
Barely Achieved Course Outcome	Level 1	0.5 < Attainment < 1.0
Partially Achieved Course Outcome	Level 2	1.0 < Attainment < 1.5
Fairly Achieved Course Outcome	Level 3	1.5 < Attainment < 2.0
Substantially Achieved Course Outcome	Level 4	2.0 < Attainment < 2.5
Completely Achieved Course Outcome	Level 5	2.5 < Attainment < 3.0

B. Indirect method:

Collection of the feedback from students.

COs and POs mapping:

- Set appropriate Cos, POs and PSOs for each course, program and faculty of UG and PG degree program respectively
- A correlation is established between COs and POs in the scale of 1 to 3, 1 being the slight (low), 2 being moderate (medium) and 3 being substantial (high)
- A mapping matrix (CO-PO) is prepared in this regard for every course in the program

The following tables show the COs and the CO-PO mapping matrix for a sample course:

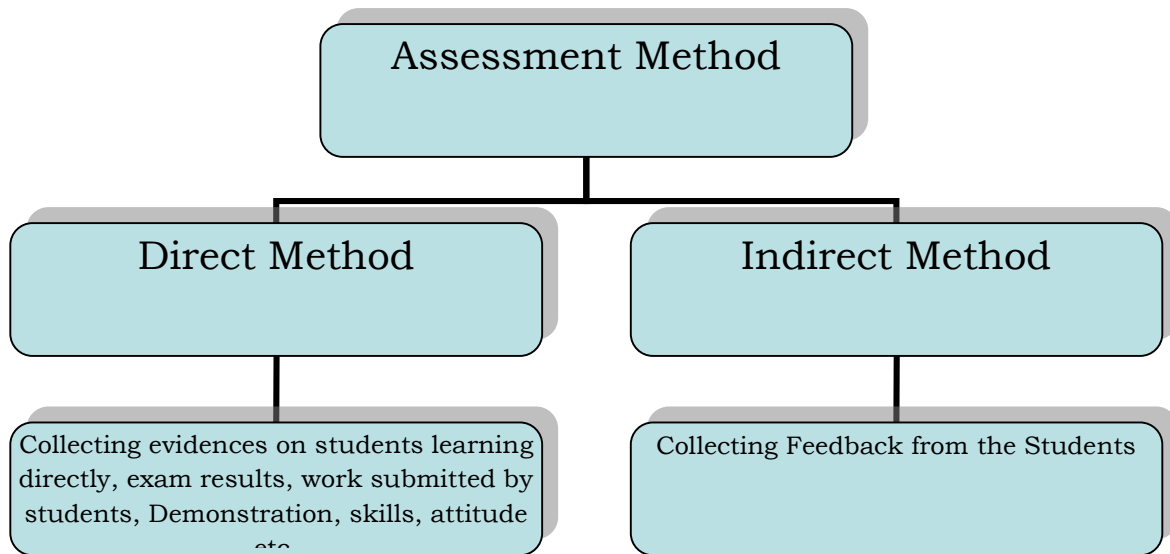
<i>Course Name</i>	<i>After completion of these courses students will be able to;</i>
Physical Chemistry (P-IX)	<ol style="list-style-type: none">1. Describe the concepts and applications of quantum mechanics.2. Explain theoretical and practical concepts of spectroscopy.3. Explains photochemistry, photochemical reactions and their applicability in day today life.4. Analyse definition and scope solutions.5. Describe electromotive force and construction of various types of electrochemical cells.

Mapping of Course Outcomes with Program Outcomes:

	PO1	PO2	PO3	PO4	PO5	PO6
CO1	3	-	2	-	-	-
CO2	2	-	1	-	-	-
CO3	1	-	3	-	-	-
CO4	3	-	2	-	-	-
CO5	2	-	2	-	-	-
Average	2.2	-	2	-	-	-

On a similar line, the mapping matrix of COs and POs for all the courses as above, a 'Program level Course-PO matrix' of all the courses is also prepared.

Assessment Methods



Assessment of learning outcomes review mechanism

