CO PO PEO PSO

Introduction to PEO, PSO, CO and PO and its impact on mapping outcomes

Prof .Pavnesh Kumar School of Management Studies IGNOU New Delhi

Learning Objectives of the Session

Comprehend the Hierarchical Relationships: Analyze how these outcomes are interconnected and

contribute to the overall educational framework.

Understand the Definitions and Roles Learn the fundamental definitions and purposes of PEOs, POs, PSOs, and COs in the context of OBE.

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 Recognize Effective Mapping Strategies:
 Explore strategies for aligning and mapping these outcomes to achieve institutional goals.

Impact on Learning and Goals: Assess the significance of these outcomes in improving student learning, program quality, and meeting accreditation standards.

What is Objective-Based Education



Student-Centered Model: OBE places students at the center of the learning process, focusing on achieving clearly defined outcomes.

Alignment of Teaching and Assessment:

Ensures that teaching methods, learning activities, and assessments are aligned with specific objectives. Continuous Improvement: Encourages regular review and refinement of objectives to meet evolving educational and industry demands.

Key Elements of OBE Framework

Program Educational Objectives (PEOs): Broad, long-term goals that graduates are expected to achieve in their careers and professional lives.

Program Outcomes (POs): Specific abilities and knowledge students should have by the time they graduate.

Program Specific Outcomes (PSOs): Specialized outcomes relevant to a specific program or discipline.

Course Outcomes (COs): Precise skills or knowledge students should acquire by the end of a course.

Program Educational Objectives (PEOs)

Definition	Broad statements describing the expected career contributions of graduates after completing the presence of th	
 PEOs reflect the institution's graduates. 	vision and long-term aspirations for its	Purpose
Example	Graduates will exhibit leadership in managing sust years of graduation.	ainable projects within five
 Career-focused and futuristic Aligned with the institution's Developed through stakehold Periodically reviewed for rele 	vision and mission.	Characteristics

Program Outcomes (POs)

Definition	 Narrow, measurable statements outlining the knowledge, skills, and abilities students should acquire by graduation.
 POs are aligned with globa graduates meet profession 	al and national accreditation standards, ensuring nal benchmarks. Purpose
Example	 Graduates will be able to apply knowledge of mathematics, science, and engineering to solve complex problems.

- Common across all programs within an institution.
- Directly measurable through assessments and evaluations.
- Designed to align with accreditation criteria such as NBA or ABET.

Characteristics

Program Specific Outcomes (PSOs)

	Definition	 Statements describing the unique capabilities and particular program or specialization should acquire 	
	Statements describing the u particular program or specia	nique capabilities and skills students of a alization should acquire.	Purpose
	Example	 For Computer Engineering: Design and implement real-world industry challenges. 	software solutions for
•	Focused on specialized know Developed in consultation w Integral to achieving the ove	vith industry experts to reflect current trends.	Characteristics

Course Outcomes (COs)

-	• Definition	Specific, actionable statements describing the lease are expected to achieve by the end of a course.	rning outcomes students	
	 COs are the building blocks for 	or achieving broader program-level outcomes.	Purpose	ŀ
Example • Demonstrate proficiency in solving linear equations using numerical methods.				
	 Tied to individual courses wit Concrete, measurable, and di Provide immediate feedback 	irectly assessable.	Characteristics	┝

Hierarchical Relationship among PEOs, POs, PSOs, and COs

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Course Outcomes (COs) contribute to achieving Program Outcomes (POs) and Program Specific Outcomes (PSOs).



POs and PSOs collectively align with and support Program Educational Objectives (PEOs).



Flow of Alignment: $COs \rightarrow PSOs/POs \rightarrow PEOs.$



Ensures that all educational activities contribute to long-term institutional and student goals.

Mapping PEOs, POs, PSOs, and COs

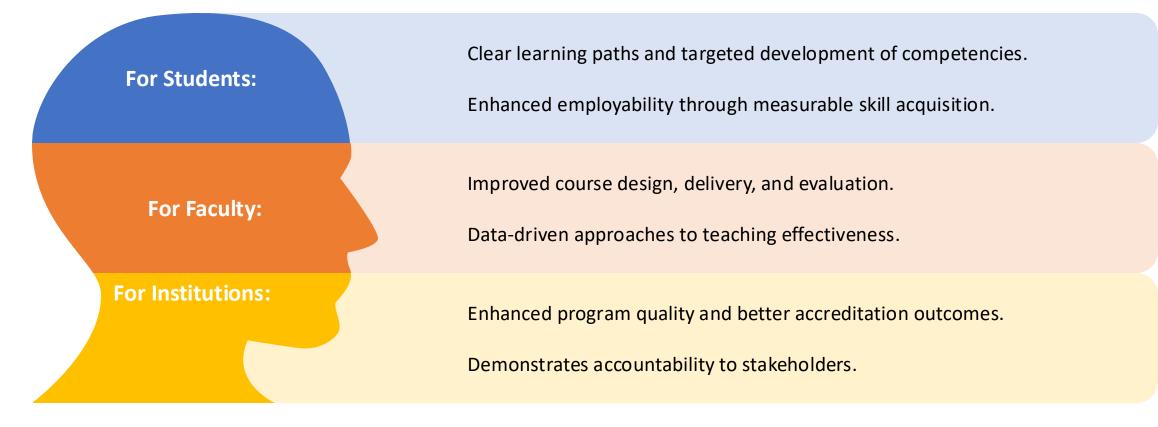
Why Mapping is Important:

- Ensures alignment between institutional goals and educational objectives.
- Identifies gaps and areas for improvement.
- Facilitates accreditation and quality assurance processes.

How Mapping Works:

- Establish matrices linking COs to POs and PSOs.
- Track alignment through assessment tools and rubrics.

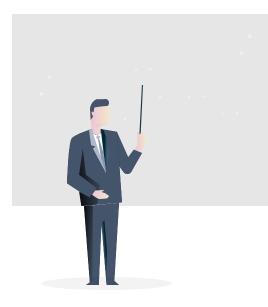
Impact of Mapping Outcomes



For Industry:

Produces graduates with relevant skills and knowledge. Strengthens partnerships between academia and industry.

Tools for Mapping





Rubrics: Frameworks for evaluating how well COs align with POs and PSOs.

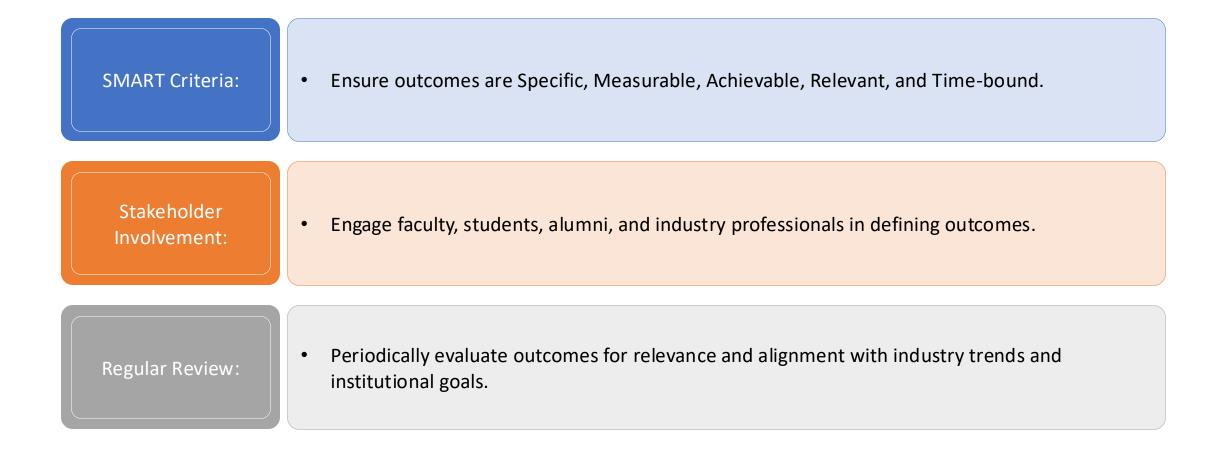


Curriculum Matrices: Visual tools mapping each CO to relevant POs and PSOs.



Automation: ERP systems to streamline tracking and reporting of outcomes.

Best Practices for Defining Outcomes



Challenges in Implementation

