Engineering Management 5 year assessment plan

PROGRAM LEARNING OUTCOMES (PLOS)

	graduating with a M.Snofineering Management degree from Alignment e East Bay will be able to:		
а	Develop advanced analyticallskin optimization, planning and	1, 6	
	control, and other quantitativmanagement techniques.		
b	Effectively manage teams of multi-disciplinary and multi-cultural	3, 4	
	professionals.		
С	Understand the impact of enginiagrand management decisions in	a 5	
	global, economic, environmentand societal context.		
d	Have the ability to effectively and persuasively communicate		2
е	Recognize the need for; and haveability to engage in, life-long	2, 6	
	learning.		

,	Year 1: 2023-2024	•
1.	Which PLO(s) to asses	PLO a - Develop advanced analytical skills in soptimization, planning andontrol and othequantitative management techniques (ILO 1, 6)
2.	Is it aligned to an ILO?	Yes (ILO 1, 6)
3.	Course name and numbe	INDE 620 System Modeling with Simulation
4.	SLO from course	Use queuing theory to mears system performance and to design systems -Conduct simulation studies for system design and performance measurements -Interpret simulation results and recommends the minimum improvements
5.	Assessment activit	Queuing midterm exam question
	Assessment Instrumen	t Department rubric

' Year 2: 2024-2025	,
1. Which PLO(s) to assess	PLO b - Effectively manage teams of multi-disciplinary and multi-cultural professionals. (ILO 3,4)
2. Is it aligned with ILO?	Yes, (ILO 3,4)
3. Course name and number	ENGR 670 Design and Managent of Human Work Systems
4. SLO from the course	Ability to apply learned concepts and tools to improve organizational performance in novel situations. Understand the function and management of professionally and culturally diverse teams. Ability to

Assessment instrumen	t Department rubric
7. Responsible person(s)	
8. Strategies on reporting (how, to who)	The results (quantitative amphalitative) will be reported by faculty to the department chair via completion of the course Faculty Self-Assessment form.
Strategies on closing the loop	Interaction between chair, faculty and industrial advisor board
10. Time (which semester(s))	Spring 2026

Year 4: 2026-2027

1.

Year 5: 2027-2028	,
1. Which PLO(s) to asses	PLO e - Recognize the need for, and have an ability to engage in, life-long learning (ILO 2,6)
2. Is it aligned to an ILO?	Yes, ILO 2, 6
Assessment activit	Capstone pricect
4. Assessment instrument	Department rubric
Sample (courses/# of students)	ENGR 693A Applied Resarch in Engineering Management
6. SLO from the course	Ability to design a system, component, or process to meet desired needs withinealistic constraints such as economic, environmental, social, political thical, health and safety, manufacturability, and sustainability. Ability to communicate engineering managent concepts and results orally and in writing.
7. Time (which semester(s))	Spring 2028
8. Responsible person(s)	Prof. Motavalli
9. Strategies on reporting (how, to who)	The results (quantitative and ditative) will be reported by faculty to the departmentair through course self assessment form
10. Strategies on closing the loop	Interaction between chaira fulty and industrial advisory board