Outcome based education (OBE) FYP Committee

Department of Electronics,

MUET Jamshoro

FYP Committee Members

S.No	Names	Designation
1	Dr. Tayab Memon	Chairman
2	Dr. Attiya Baqai	Convener
3	Prof. Dr. Arbab Nighat	Member
4	Dr. Farzana Rauf Abro	Member
5	Dr. Farida Memon	Member
6	Engr. Khuhed Memon	Member
7	Engr. Mansoor Teevno	Secretary

BASIC TERMS

- OBE: Outcome Based Education
- PEOs: Program Educational Objectives
- PLOs: Program Learning Outcomes
- CLOs: Course Learning Outcomes

OBE

- OBE is an education system that emphasis on outcome measurement rather than inputs of curriculum covered.
- Outcomes may include a range of **Knowledge, Skills and Attitude.**
- In order to obtain the desired outcomes, teaching components and activities should be well organized, planned and continuously improved.

Program Educational Objectives (PEOs)

- **PEO-1**: Apply in-depth electronic engineering knowledge and analytical skills to initiate innovative solutions for the society

- **PEO-2**: Quest for learning, establishing collaborations and engaging in continuous professional development nationally and internationally.

- **PEO-3**: Adaptive in multidiscipline and multicultural environment and work effectively as a team lead or team member possessing strong soft skills and high moral ethics.

Program Learning Outcomes (PLOs)

S.NO	PLOs	S.NO	PLOs
1	Engineering Knowledge	7	Environment and Sustainability
2	Problem Analysis	8	Ethics
3	Design/Development of Solutions	9	Individual and Team Work
4	Investigation	10	Communication
5	Modern Tool Usage	11	Project Management
6	The Engineer and Society	12	Lifelong Learning

COURSE LEARNING OUTCOMES

CLO		Levels
1	Define and identify problem statement, explain project idea, discuss aim and objectives of the project.	C1, C2
2	Underline & analyze the research gap through research and literature review.	C1,C4
3	Apply the findings to design & propose problem solution by building methodology steps using hardware and software tools to develop a prototype/ real time system.	C3,C5, P3,P4,P5
4	To design, implement, test & analyze. Proceed with the technical skills gained to deliver a working prototype.	C4,C5, P3,P4,P5
5	Organize, discuss, record and compile project progress throughout the duration of the project and be able to manage and defend the project outcome as a team via oral examinations	A2,A4
6	Display communication skills through presentations, hardware/software demonstration in exhibition, written project report free from plagiarism and posters.	A3, C2
7	Demonstrate understanding of impacts of the project in societal and application contexts and inculcate team work management.	A3

CLO PLO Mapping

		PLOs											Learning Levels
FYP CLOs		1	2	3	4	5	6	7	8	9	10	11	12	
	1	✓												C1,C2
	2		✓		✓									C1,C4
	3			✓		✓								C3,C5,P3,P4,P5
	4				✓									P3,P4,P5,C4, C5
	5								✓			✓		A2,A4
	6										✓			A3,C2
	7								✓	✓				A3

Assessment Method

CLO	Marking Criteria	Evaluated	Learning Levels	PLOs	Semester
1	Understanding and Originality	By conducting student interviews for analysis of students' skills	C1,C2	1	7th
2	Literature review	Initial Seminar Presentation	C1,C4	2,4	7th ,8th
3	Methodology	Initial, Progressive Presentations	C3,C5,P3,P4, P5	3,5	7th ,8th
4	Design and Implementation	Final Presentation	C4,C5,P3,P4, P5	4	7th,8th
5	Progress	Monthly progress reports, Progressive seminars	A2,A4	8,11	7th,8th
6	Presentation	Final examination & project exhibition	P3,C2	10	7th,8th
7	Societal Impact	Final Presentation	P5	8,9	8th

Marks Distribution By Examination Dpt

Semester	Thesis C.H	Thesis Credit Marks	Sessional (Sup)		Viva Voice/ Exam		
			Attendance	Thesis Evaluation	Supervisor	Chairman	External
7th	3	100	10	15	25	25	25
8th	3	100	10	15	25	25	25

Semester wise Marks Distribution

CLO	Marks (Total)	7th term	8th Term
1	40	40	-
2	14	10 (70%)	4(30%)
3	20	10 (50%)	10 (50%)
4	38	8 (20%)	30 (80%)
5	20	10 (50%)	10 (50%)
6	40	12 (30%)	28 (70%)
7	08	-	08
Total	180	90	90

Total = 180 + 20 (attendance) = 200

7 th Semester

CLO	Marks	Supervisor	Chairman	External
1	40	30	5	5
2	10	10	-	-
3	10	-	5	5
4	8	-	4	4
5	10	-	5	5
6	12	-	6	6
7	-	-	-	-
Total	90	40	25	25

8 th Semester

CLO	Marks	Supervisor	Chairman	External
1	-	-	-	-
2	4	4	-	-
3	10	6	2	2
4	30	10	10	10
5	10	-	5	5
6	28	18	5	5
7	8	2	3	3
Total	90	40	25	25

Thank You