

FYP Evaluation

Under Outcome Based Education (OBE) System

ELECTRONIC ENGINEERING DEPARTMENT
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Outcome Based Education (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.

Basic Terminologies

- **Course Learning Outcomes (CLOs)**

- The learning that will take place across the curriculum through concise statements, made in specific and measurable terms, of what students will know and/or be able to do as the result of having successfully completed a course.

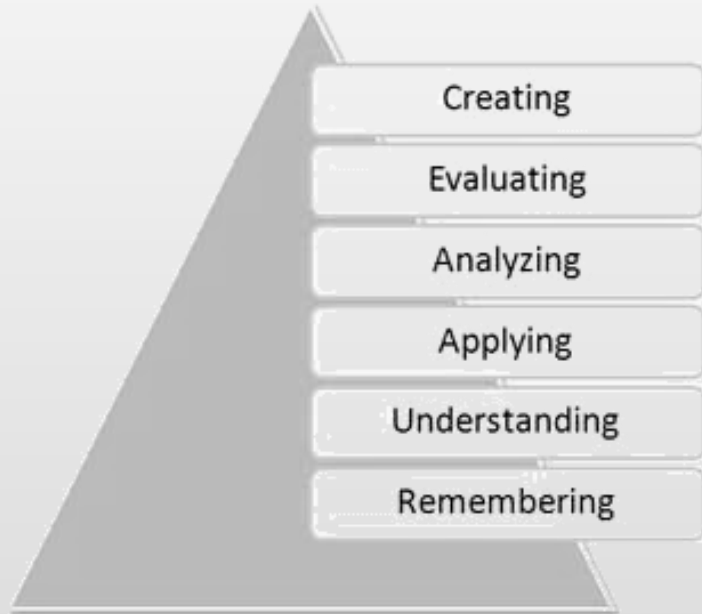
- **Program Learning Outcomes (PLOs)**

- Statements that describe what students are expected to know and be able to do by the time of graduation.

- **Program Educational Objectives (PEOs)**

- Program educational objectives are broad statements that describe what graduates are expected to attain within few years of graduation.

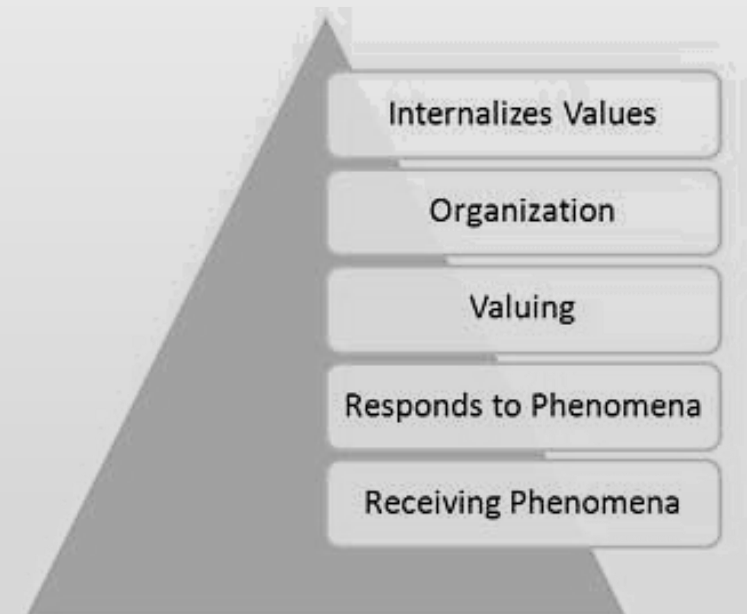
Learning Domains and Levels



Cognitive Domain (6 Cs)



Psychomotor Domain (7 Ps)



Affective Domain (5 As)

PEOs of BE-ES Program

- **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 (CLOs)

- 1** Define and identify problem statement, explain project idea, discuss aim and objectives of the project.. **(C2)**
- 2** Underline & analyse the research gap through research and literature review. **(C4)**
- 3** Design and develop the methodology of proposed solution based on hardware and/or software tools and platforms. **(C5)**
- 4** Implement, test and investigate the developed methodology to deliver a working system prototype. **(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. **(A4)**
- 6** Perform final integration of subsystems of the project and demonstrate the project outcome/results through presentations, exhibitions, written project report and posters. **(P4)**
- 7** Demonstrate understanding of impacts of the project in societal and application contexts and inculcate teamwork management. **(A3)**

CLO to PLO Mapping

	PLO-1	PLO-2	PLO-3	PLO-4	PLO-5	PLO-6	PLO-7	PLO-8	PLO-9	PLO-10	PLO-11	PLO-12	
CLO-1	✓												C2
CLO-2		✓		✓									C4
CLO-3			✓		✓								C5
CLO-4				✓									P5
CLO-5								✓	✓				A4
CLO-6										✓	✓		P4
CLO-7						✓	✓					✓	A3

Marks Distribution

Semester	Thesis C.H	Thesis Credit Marks	Sessional (Supervisor)		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 Breakup

CLO	Marks (Total)	7 th Term	8 th Term
CLO-1	15	15 (100%)	-
CLO-2	10	6 (60%)	4 (40%)
CLO-3	27	17 (63%)	10 (37%)
CLO-4	45	15 (33%)	30 (67%)
CLO-5	38	19 (50%)	19 (50%)
CLO-6	37	18 (49%)	19 (51%)
CLO-7	08	-	08 (100%)
Total	180	90	90

Total = 180 + 20 (attendance) = 200

Seventh Semester Marks Breakup

CLO	Marks	Supervisor	Chairman	External
CLO-1	15	5	5	5
CLO-2	6	6	-	-
CLO-3	17	7	5	5
CLO-4	15	7	4	4
CLO-5	19	9	5	5
CLO-6	18	6	6	6
CLO-7	-	-	-	-
Total	90	40	25	25

Eighth Semester Marks Breakup

CLO	Marks	Supervisor	Chairman	External
1	-	-	-	-
2	4	4	-	-
3	10	6	2	2
4	30	10	10	10
5	19	9	5	5
6	19	9	5	5
7	8	2	3	3
Total	90	40	25	25

How is FYP Assessed?

CLO	Marking Criteria	Evaluation Method	Learning Levels	PLOs	Semester
1	Understanding and Originality	Initial Seminar, By conducting student interviews for analysis of students' skills	C2	1	7 th
2	Literature Review	Initial Seminar Presentation, Progress Meetings.	C4	2,4	7 th , 8 th
3	Methodology	Initial, Progressive Presentations	C5	3,5	7 th , 8 th
4	Design and Implementation	Progressive and Final Presentation	P5	4	7 th , 8 th
5	Progress	Monthly progress reports, Progressive seminars	A4	8,9	7 th , 8 th
6	Presentation	Final Examination & Project Exhibition	P4	10,11	7 th , 8 th
7	Societal Impact	Final Presentation	A3	6,7,12	8 th

How is FYP Assessed?

S #	Roll #	Attendance	Criteria 1 Understanding & Originality		Criteria 2 Literature Review		Criteria 3 Methodology		Criteria 4 Design & Implementation		Criteria 5 Progress		Criteria 6 Presentation		Criteria 7 Social Impact		Total Marks Obtained	
			Sessional	Viva	Sessional	Viva	Sessional	Viva	Sessional	Viva	Sessional	Viva	Sessional	Viva	Sessional	Viva		
																		10
																		(Out of 50)

S #	Roll #	Attendance	Criteria 1 Understanding & Originality		Criteria 2 Literature Review		Criteria 3 Methodology		Criteria 4 Design & Implementation		Criteria 5 Progress		Criteria 6 Presentation		Criteria 7 Social Impact		Total Marks Obtained	
			Sessional	Viva	Sessional	Viva	Sessional	Viva	Sessional	Viva	Sessional	Viva	Sessional	Viva	Sessional	Viva		
																		10
																		(Out of 50)

Timeline of FYP Related Activities

FYP Activity	Duration/Date
Call for Proposals and Group Formation	Nov 9, 2020
Project Proposal Submission deadline	Nov 16, 2020
Display of List of Approved Project Proposals	Nov 30, 2020
Conduct of Initial Seminars	2 nd week of 7 th Semester
Display of Initial Seminars Results	3 rd week of 7 th Semester
Repeat Initial Seminar	Start of 5 th week of 7 th Semester
Final comments/result Display	End of 5 th week of 7 th Semester
First Viva Exams	Examination Dept. will announce dates
Poster, Presentation, Project Display & Final Viva Exams	Examination Dept. will announce dates

FYP Activity	Duration/Date
Training/Workshop Sessions for FYP	
<input checked="" type="checkbox"/> OBE based FYP	Start of 7 th Semester
<input checked="" type="checkbox"/> Prospect Funding opportunities for FYP	7 th Semester after Mid
<input checked="" type="checkbox"/> Academic Writing Techniques/Strategies and Plagiarism policy awareness (Turnitin)	7 th Semester after Mid
<input checked="" type="checkbox"/> Drafting of thesis and Presentation	Before 7 th Semester Final Examination
<input checked="" type="checkbox"/> Research paper writing <input checked="" type="checkbox"/> Review paper writing	Start of 8 th Semester
<input checked="" type="checkbox"/> Mendeley (Referencing Tool)	8 th Semester before Mid
<input checked="" type="checkbox"/> Latex (Thesis Writing Tool)	8 th Semester after Mid

What to Include in Initial Seminar Presentation?

- **Project Idea** → Project introduction and lay man concept of project.
- **Background & Motivation** → Need of project, motivation, background information.
- **Aims & Objectives** → Break the project idea into realizable aim and objectives.
- **Literature review summary** → Review of research papers related to your project
- **Proposed Methodology** → Proposed tools, techniques, methods, algorithms, hardware, software to be used in project
- **Expected Budget (if applicable)** → Estimated cost on project
- **Timeline** → Month wise distribution of tasks. Starting from 1st week of 7th semester to last week on 8th semester
- **References** → Details of research papers used in presentation/project, online recourses and other related material.