Government College of Engineering, Salem- 11

(An Autonomous Institution affiliated to Anna University, Chennai)

SELF-STUDY REPORT

CRITERION 2

2.6.1 The institution has stated learning outcomes (programme and course outcome)/graduate attributes which are integrated into the assessment process and widely publicized through the website and other documents and the attainment of the same are evaluated by the institution.

(Submitted to National Assessment and Accreditation Council)

Self Declaration

This is to certify that the supporting documents for this metric exceed the 5MB upload limit. Therefore, links to sample documents and some samples are provided in the following pages. Any/all Supporting documents will be provided, if required. All links, documents and images are verified and authenticated.

5/2/24

IQAC – Chairperson

Internal Quality Assurance Cell
Govt. College of Engineering
Salem - 636 011.

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Description	Link
OBE Manual	2.6.1 / Link 1
CO – PO & PSO Attainment	2.6.1 / Link 2

PRINCIPAL
GOVT. COLLEGE OF ENGG.,
SALEM-636 011

Sample/Reference for Outcome Based Education

Chapter - 5
Course Outcomes (COs)

Bloom's Taxonomy:

The original Taxonomy of Educational Objectives, commonly referred to as Bloom's Taxonomy, was created by Benjamin Bloom in 1956, and later revised in 2001. Bloom categorized and classified the cognitive domain of learning into varying levels according to complexity and richness.

In Bloom's Taxonomy from 1956, he outlined six main categories: knowledge, comprehension, application, analysis, synthesis, and evaluation. In 2001, a group of cognitive psychologists, curriculum theorists, instructional researchers, and testing specialists revised the category names of Bloom's Taxonomy from nouns to verbs is shown in Figure 5.1.

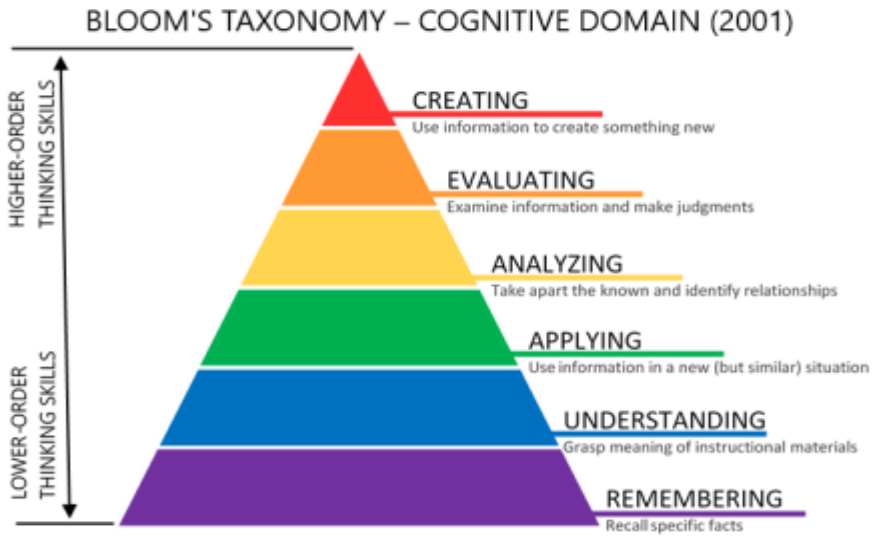


Figure 5.1 Bloom's Taxonomy

Remembering: the basic recall of information presented through various methods. When we "remember" something, we are able to name it, locate it, define it, etc. We are able to take the content and paint a visual for the learner.

Understanding: the demonstration of what we remember. When we "understand" something, we are able to apply that knowledge in a myriad of ways. We may compute, illustrate, or show others how we interpret that particular concept.

Sample/Reference for CO, PO & PSO Attainment rating

Department of Mechanical Engineering

Calculation of Weighted average and Fixing Target level for POs & PSOs

Target value of PO & PSO: 70% of Weighted Average

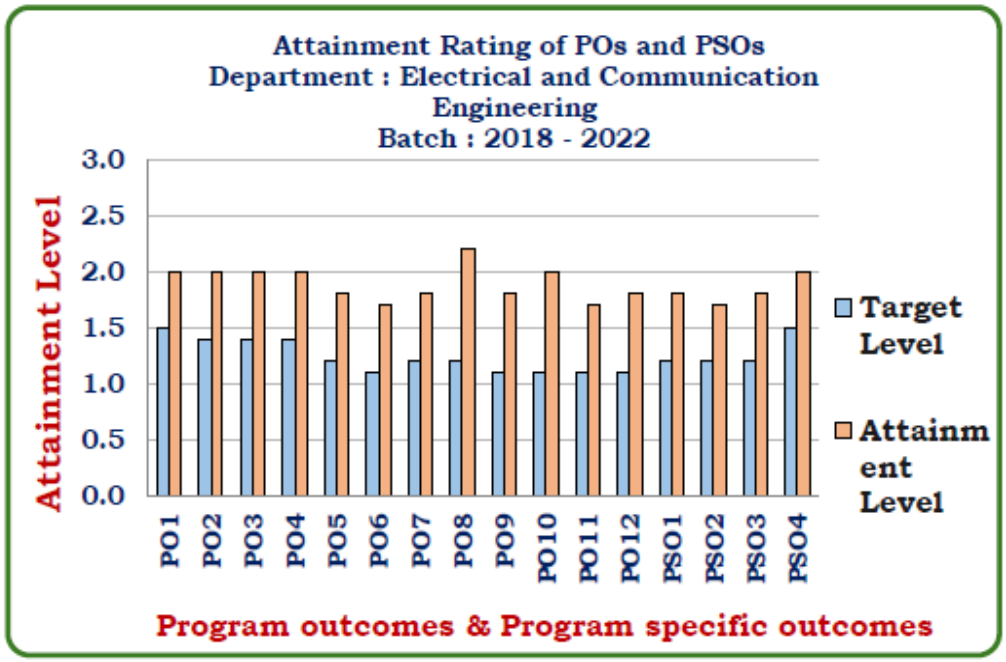
	Batch: 2018 -2022																
Sem	Course Code	Program Outcomes (PO)												Program Specific Outcomes (PSO)			
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
	Program Articulation Matrix																
1	18MA101	3.0	3.0	-	2.0	1.0	-	-	-	-	1.0	-	-	-	-	-	-
1	18PH102	2.0	1.0	-	1.0	-	-	2.0	-	2.0	-	-	1.0	-	-	-	-
1	18ME101	0.4	1.0	0.6	0.6	0.4	-	-	-	-	0.6	-	0.4	1.4	1.4	1.6	-
1	18EE103	3.0	2.2	-	1.2	1.0	0.2	0.2	-	-	-	-	-	-	-	-	-
1	18PH103	3.0	2.0	-	2.5	2.0	-	-	-	2.5	0.5	-	1.5	1.0	1.0	1.0	-
1	18CY102	1.3	1.7	-	3.0	-	-	-	-	-	-	-	-	2.0	-	-	-
1	18EE104	2.8	1.6	-	1.4	1.0	-	0.4	0.4	-	-	-	-	-	-	-	-
1	18EN103	-	-	-	-	-	-	-	-	1.5	3.0	-	1.8	-	-	1.3	-
2	18EN101	-	-	-	-	-	-	-	-	1.6	3.0	-	1.6	-	-	1.2	-
2	18MA201	3.0	2.0	-	2.0	-	-	-	-	-	-	-	-	2.0	-	-	-
2	18CY101	1.3	1.7	-	3.0	-	2.0	-	-	-	-	-	-	-	-	-	-
2	18CS101	2.2	1.6	-	2.0	2.0	-	0.4	-	-	1.0	1.6	1.0	1.4	1.6	-	-
2	18EN102	-	-	-	-	-	-	-	-	1.5	3.0	-	1.8	-	-	1.3	-
2	18CS102	2.0	2.0	1.0	2.0	1.0	-	-	-	-	-	-	2.0	-	2.0	1.0	-
2	18ME102	1.0	1.0	2.0	2.0	1.0	1.0	-	1.0	1.0	-	-	1.0	1.0	1.0	2.0	-
3	18PH202	2.8	2.8	-	2.2	2.8	1.0	1.3	-	1.0	-	-	2.8	1.8	-	1.8	-
3	18MA204	2.3	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	-
3	18ME301	-	1.2	-	1.0	-	-	1.0	-	1.3	-	1.0	-	2.0	1.0	1.4	-
3	18ME302	1.2	1.5	-	-	-	-	-	-	-	-	-	-	1.0	1.0	-	-
3	18ME303	1.4	1.8	1.6	1.8	2.0	1.2	1.0	-	-	-	-	-	1.4	1.8	1.6	-
3	18EC308	3.0	1.5	1.0	2.0	-	-	-	-	1.0	-	-	-	2.0	-	2.0	-
3	18ME304	1.5	2.0	1.5	2.0	1.5	-	-	1.0	-	-	-	1.0	1.5	1.5	1.5	
3	18EC309	2.5	2.0	2.4	2.0	-	-	-	2.0	-	-	-	2.0	2.5	1.6	1.5	
4	18ME401	2.6	2.0	1.8	1.4	1.0	-	-	-	-	-	-	-	2.6	2.2	-	-
4	18ME402	3.0	2.0	2.3	2.0	-	1.5	-	-	-	-	-	-	3.0	2.0	1.0	-
4	18ME403	2.5	2.0	3.0	1.7	-	-	-	1.0	-	-	-	1.0	2.3	2.3	1.0	-
4	18ME404	2.4	1.8	1.4	1.5	-	-	-	-	-	-	-	-	1.8	2.0	1.0	-
4	18ME405	1.0	1.3	1.8	1.3	1.0	1.3	1.0	-	-	-	-	-	2.3	2.8	1.0	-

Sample/Reference for CO, PO & PSO Attainment rating

Overall Attainment Rating of POs and PSOs

Department of Electrical and Communication Engineering

Batch	Program Outcomes (PO)												Program Specific Outcomes (PSO)			
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
Batch: 2018 - 2022																
Target Level	1.5	1.4	1.4	1.4	1.2	1.1	1.2	1.2	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.5
Overall Attainment Level	2.0	2.0	2.0	2.0	1.8	1.7	1.8	2.2	1.8	2.0	1.7	1.8	1.8	1.7	1.8	2.0
Batch: 2019 - 2023																
Target Level	1.6	1.5	1.4	1.4	1.2	1.1	1.1	1.0	1.2	1.4	1.2	1.3	1.4	1.1	1.2	1.6
Overall Attainment Level	2.1	2.0	1.9	1.9	1.7	1.7	1.6	1.6	1.6	1.9	1.7	1.9	1.9	1.7	1.7	2.1



Sample/Reference for CO, PO & PSO Attainment rating

Government College of Engineering, Salem - 11				
Department of Mechanical Engineering				
Regulation 2018				
Academic Year 2020 - 2021 (Even Semester)				
Batch 2018 - 2022				
Subject Code	18MEPE61		Class & Section	VI Sem
Subject Name	Cryogenic Engineering		No. of Students	45
Name of the Faculty	Dr.S.SIVALAKSHMI			

Course Outcomes

	Upon completion of the course, the students will be able to
CO1	Understand the properties cryogenic fluids.
CO2	Understand the concepts of low temperature production methods.
CO3	analyze the performance parameters of various gas liquefaction and refrigeration systems.
CO4	Explain the various types of insulation in cryogenics.
CO5	Understand instrumentation in cryogenics.

Cos Analytic Report

Academic Year	Cos	Threshold	Target (%)		Attainment (%)	CAY - Explanation for fixing new threshold and target	Proposed action plan
2020-2021	CO1	70	Level 3	70% and above of students scored more than set target(>=70%)	3	Based on three years internal assesment and end semester examination performance, 70% marks are set as threshold marks	1) All COs are attainment, hence the threshold percentage to increase to next
	CO2	70			3		
	CO3	70	Level 2	60-70% of students scored more than set target	3		
	CO4	70			3		
	CO5	70	Level 1	50-60 % of students scored more than set targe	3		