POORNIMA
## COLLEGE OF ENGINEERING

Promoted by Shanti Education Society, Affiliated to Rajasthan Technical University & Approved by AICTE

Department of Advance Computing
Session 2021-22
CO, PO and PSO Target and Attainment, Observations and Action Taken Report (CAI)

1.1 CO-Target and Attainment

S. No.	Course Code	Course Name	Batch	Year	Average Target	Cumulative Attainment
1	1FY2-01	Engineering Mathematics-I			2.10	1.76
2	1FY2-02	Engineering Physics			2.00	1.55
3	1FY1-05	Human Values			2.20	2.13
4	1FY3-06	Programming for Problem Solving			1.75	1.53
5	1FY3-09	Basic Civil Engineering			2.00	1.75
6	1FY2-20	Engineering Physics Lab			1.58	1.53
7	1FY1-23	Human Values Activities and Sports			1.80	1.73
8	1FY3-24	Computer Programming Lab			1.88	1.79
9	1FY3-27	Basic Civil Engineering Lab			1.87	1.71
10	1FY3-28	Computer Aided Engineering Graphics	2021-25	I Year	1.88	1.85
11	2FY2-01	Engineering Mathematics-II			2.00	1.43
12	2FY2-03	Engineering Chemistry			2.00	1.71
13	2FY1-04	Communication Skills			2.00	1.83
14	1FY3-07	Basic Mechanical Engineering			2.00	1.60
15	2FY3-08	Basic Electrical Engineering			2.00	1.80
16	2FY2-21	Engineering Chemistry Lab			1.88	1.77
17	2FY1-22	Language Lab			2.00	1.77
19	2FY3-26	Basic Electrical Engineering Lab			2.00	1.93
20	1FY3-25	Manufacturing Practices Workshop			2.08	2.03
21	2FY3-29	Computer Aided Machine Drawing			1.88	1.82

1.2 PO and PSO-Target and Attainment

S. No.	PO and PSO	Batch	Year	Average Target	Average Attainment
1	PO1: Engineering knowledge			1.88	0.87
2	PO2: Problem analysis			1.69	0.75
3	PO3: Design/development of solutions			1.00	0.37
4	PO4: Conduct investigations of complex problems.	2021-25	I Year	-	-
5	PO5: Modern tool usage			2.50	1.75
6	PO6: The engineer and society			2.00	1.03
7	PO7: Environment and sustainability			2.00	0.97

8	PO8: Ethics			1.94	1.03
9	PO9: Individual and team work.			2.72	1.83
10	PO10: Communication			2.00	1.07
11	PO11: Project management and finance			-	-
12	PO12: Life-long learning			2.00	1.11
13	PSO1: Fundamental knowledge for the society benefit.			1.44	0.59
14	PSO2: Professionally communicate using modern tools.			1.67	0.74
15	PSO3: Specific knowledge of renewable and green energy, EV and smart grids.			1.00	0.37

Batch 2021-25
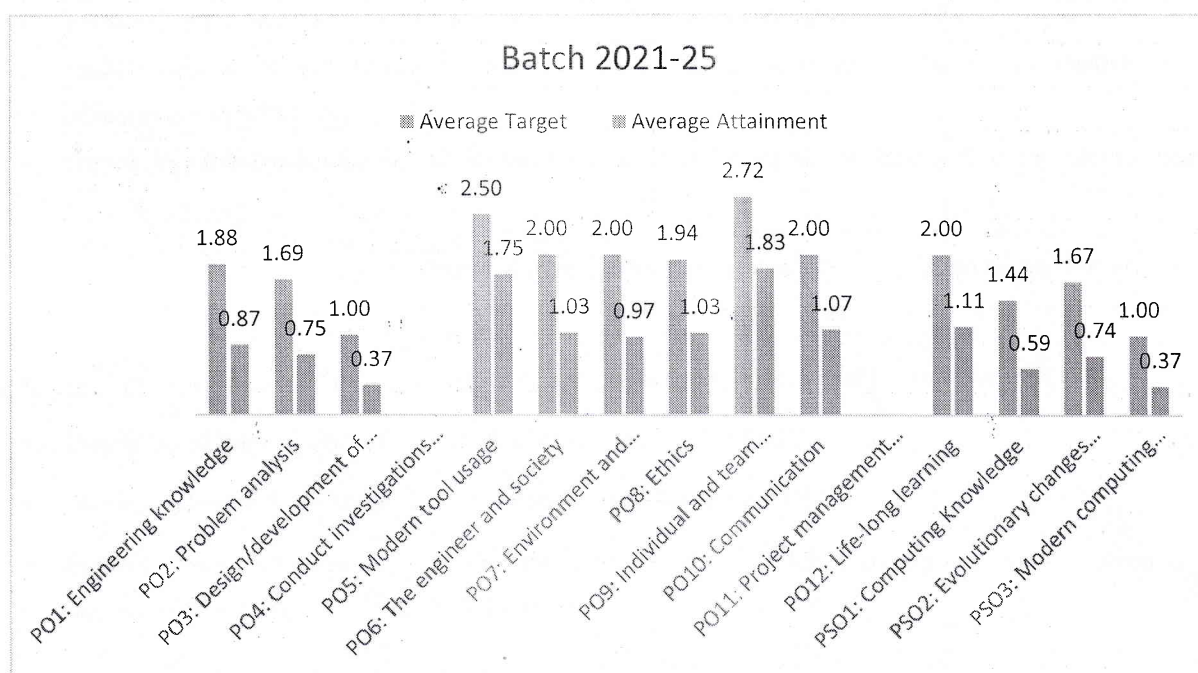
1.3 Analysis of PO and PSO Attainment

Table 1.1: PO Attainment, Target and Gaps (2021-25)

POs / PSOs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO 2	PSO3
Attainment	1.88	1.69	1.00	-	2.50	2.00	2.00	1.94	2.72	2.00	-	2.00	1.44	1.67	1.00
Target	0.87	0.75	0.37	-	1.75	1.03	0.97	1.03	1.83	1.07	-	1.11	0.59	0.74	0.37
Gap	1.01	0.94	0.63	-	0.75	0.97	1.03	0.91	0.89	0.93	-	0.89	0.85	0.93	0.63
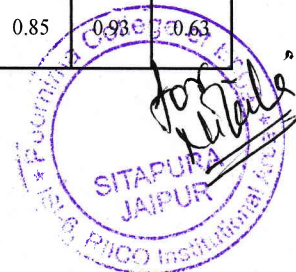
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1.4 Observations

Table 1.2: Achieved Level of PO / PSO (Batch 2021-25)

PO / PSO	Achieved Level
PO1, PO2, PO3, PO7, POS1, POS2 and PSO3	Below Average (<50%)
PO6, PO8, PO9, PO10 and PO12	Average (>=50% but <70%)
PO5	Above Average (>=70%)

Batch (2021-25): After analysis of the table 1.2 of PO / PSO attainment for batch 2021-25, it has been observed that the attainment level of PO1, PO2, PO3, PO7, POS1, POS2 and PSO3 are falling below average. PO6, PO8, PO9, PO10 and PO12 are attainment on average level. The attainment level of PO5 are above average.

1.5 Actions Taken

- Remedial and revision classes were arranged for weak students for improving the PO1.

- Multiple sets of numerical questions were distributed among the group of students for practice for the enhancement in the PO2.

- Faculty members guided the students in order to make better projects that address the environmental issues for achieving the PO3.

- Students were participated in professional society activities such as ISHRAE, ASHRAE etc. for improving the PO7.

- Students are encouraged to attend various courses related to C and C++ for the enhancement in the PSO1.

- Project based learning are arranged for the enhancement in the PSO2.

- Internal and external expert lectures are arranged for achieving the PSO3.

- Student driven activities such as teaching learning process, club activities etc. were promoted for enhancement in PO5, PO6, PO8, PO9, PO10 and PO12.

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