

Attainment Analysis of POs & PSOs (2017-2021 Batch)

Department of
Mechanical Engineering

Program Specific Outcomes

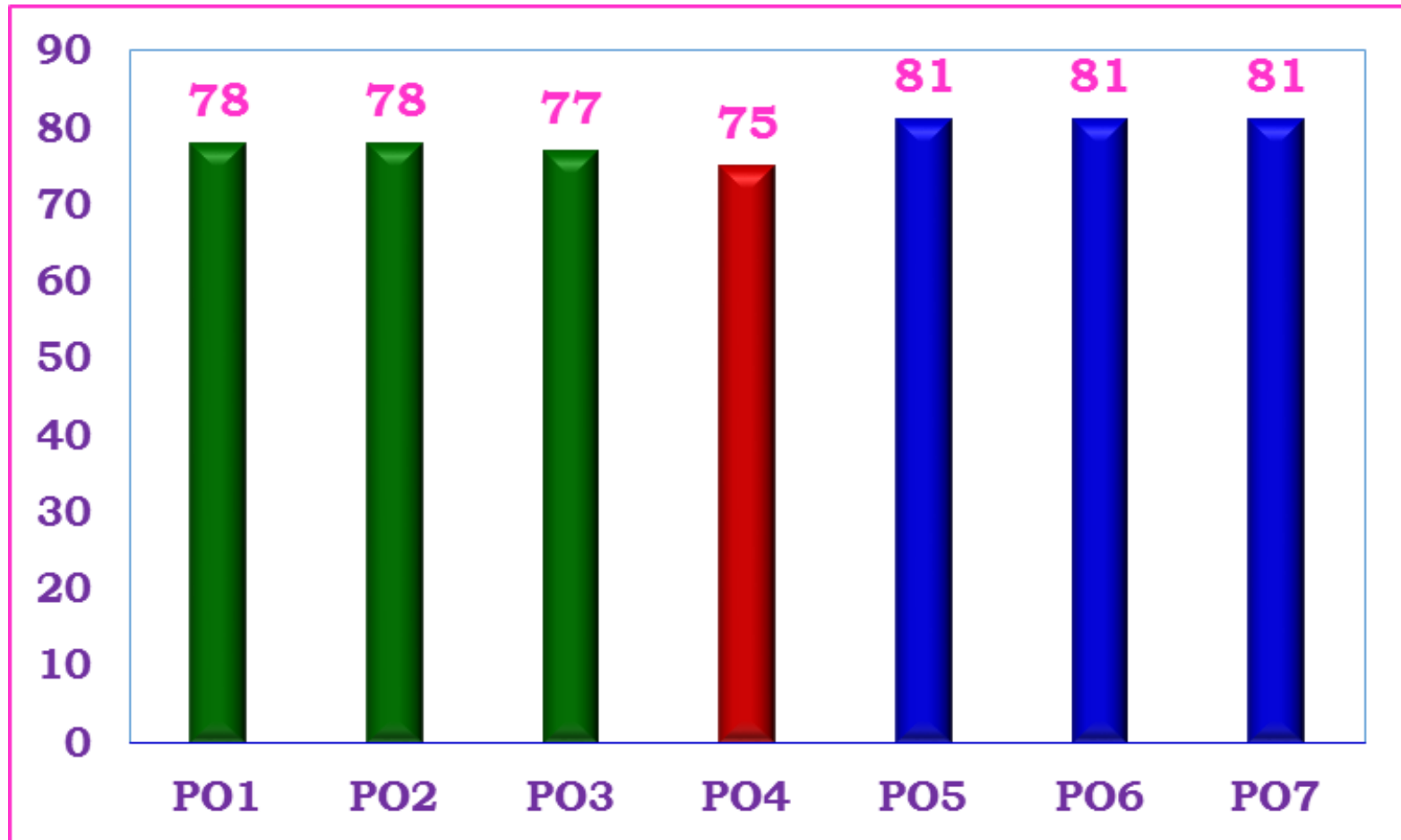
The Mechanical Engineering Graduates will be able to:

PSO 1 : Apply the concepts of design and manufacturing to solve industrial problems.

PSO 2: Apply the knowledge of Mechanical engineering to design solutions, systems and components to needs of the Automobile industry.

Attainment Analysis of POs/PSOs

B.E MECHANICAL ENGINEERING: 2017 – 2021 Batch



Not Met (<76)



Level I (76-79)



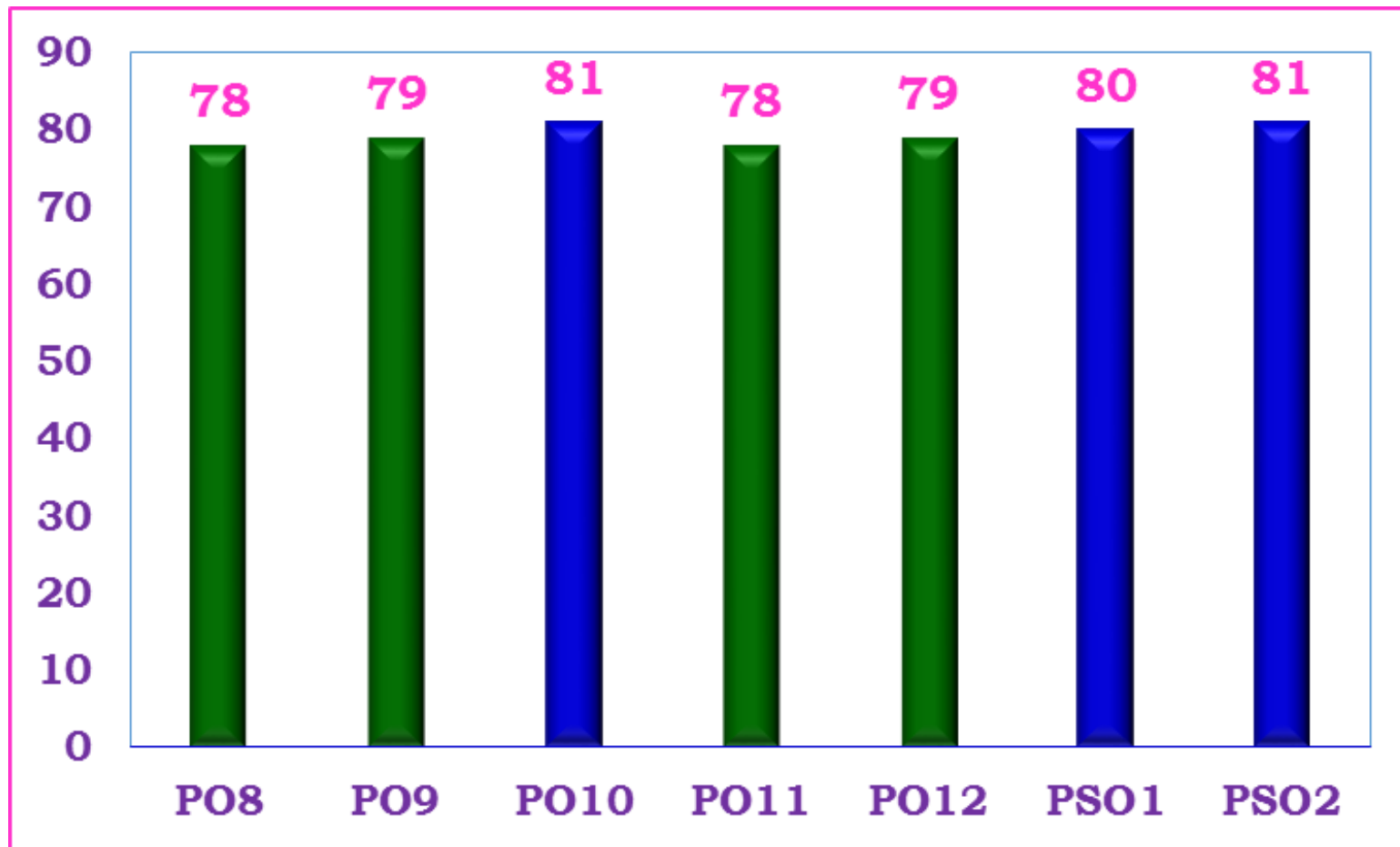
Level II (80-83)



Level III (84 & above)

Attainment Analysis of POs/PSOs

B.E MECHANICAL ENGINEERING: 2017 – 2021 Batch



Not Met (<76) Level I (76-79) Level II (80-83) Level III (84 & above)

Observations on the Attainment of POs and PSOs

PO 2 : More practice required to enhance the ability to design and analyze different gears for the course 'Design of Transmission systems'

PO 3 : More practice is required to improve the ability to design the free vibration and damping system for mechanical systems.

PO 4: The students require more knowledge in investigations of complex mechanical problems in design and analysis for the given application.

PO 8: Awareness about the Principles, code of ethics and role of professional ethics in engineering field needs to be improved.

PO 11: Management skills to do projects in multidisciplinary environments is need to be improved.

Suggestions for improving PO and PSO Attainment

PO 2 : A **model presentation** is given for the students to design the Spur gear and parallel axis Helical gears by considering strength and life for various fields of mechanical engineering.

PO 3 : **NPTEL videos** are given to the students to learn about torsional vibrations in the course Dynamics of Machinery.

PO 4: An **industrial visit** to BHEL, Thirumayam is arranged so that students can obtain a deeper understanding of the "Manufacturing Technology" theory course.

PO 8: The **NPTEL videos** on the topic "Risk Benefit" are explained to the students for the course of professional ethics.

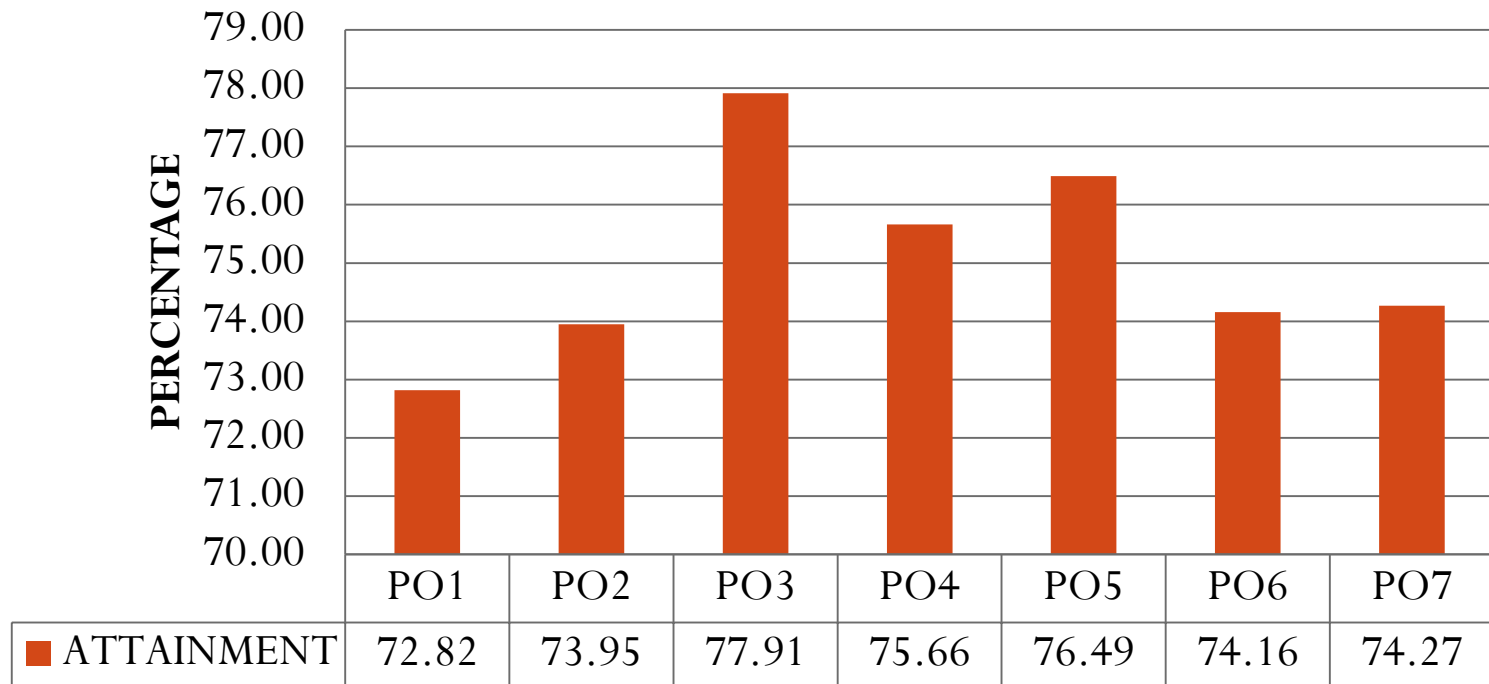
PO 11: Group of students are motivated regularly to participate in the **multidisciplinary projects** and promotes as a member and leader in a team, to manage projects

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**Department of
CIVIL ENGINEERING**

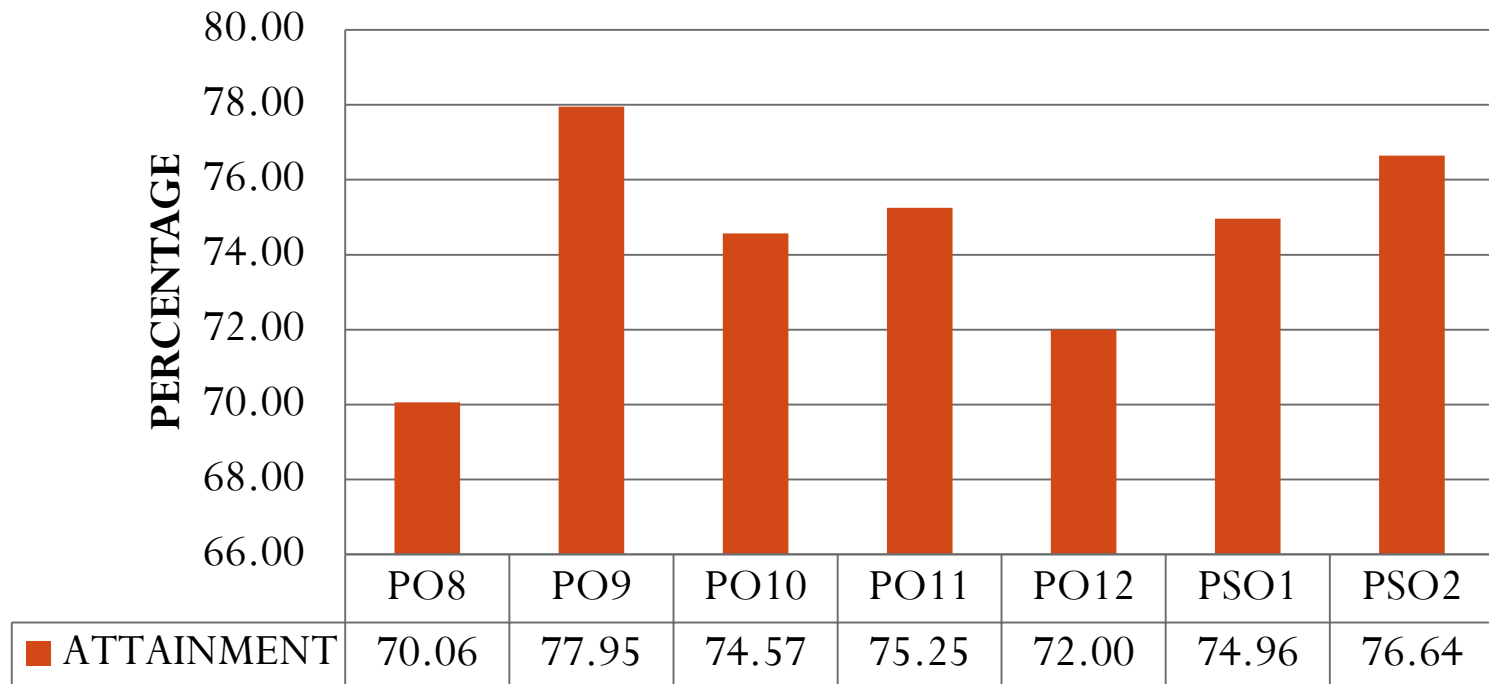
Attainment Analysis of POs/PSOs

B.E CIVIL ENGINEERING: 2017– 2021 Batch



Attainment Analysis of POs/PSOs

B.E CIVIL ENGINEERING: 2017– 2021 Batch



Observations on the Attainment of POs and PSOs

- 1) Ability to apply the concepts of tachometric surveying with practical constraints need to be improved. [**Engineering knowledge**]
- 2) Students' ability to design retaining walls and flat slabs with proper concern for public safety needs to be improved.
[**Design / development of solutions**]
- 3) It is necessary to enhance the students' capacity to investigate the labour and material expenses associated with tender processing. [**Conduct investigations of complex problems**]
- 4) At the industry level, students' proficiency with modern equipment needs to be improved.[**Modern tool usage**]
- 5) It is necessary to enhance students' capacity to work well independently, in teams, as team leaders, and in multidisciplinary situations.
[**Individual and team work**]

Suggestions for improving PO and PSO Attainment

- 1) Group/Individual assignments incorporating field constraints and codal provision were given.
- 2) Students were involved in bar bending work practices on site for flat slab reinforcements as per site bar bending schedule.
- 3) To investigate the material and labour costs for building “Project based learning” is adopted in Estimation, Costing and valuation as alternate assessment.
- 4) To enhance the capacity to use modern equipment, a value-added course on "Surveying Using Total Station" was held.
- 5) Students participated in innovative teaching techniques (group discussions, think-pair-share, and relay role plays) in order to develop their leadership and teamwork abilities.