



Dr. D. Y. Patil Educational Federation's

Dr. D. Y. PATIL COLLEGE OF ENGINEERING & INNOVATION

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Program Exit Survey- Batch 2019-23 and Action Take Report

Rate the Following with marks from '0' to '5' with your frank opinion
'0' means 'Not Agree' and '5' means 'Strongly Agree'

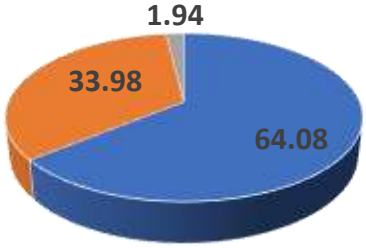
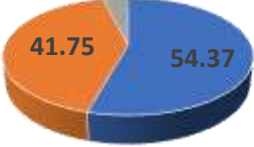
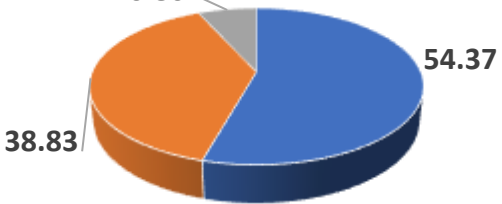
Sr. No.	Question Asked During Program Exit Survey to the Outgoing Batch of AY 2019-2023	Rating
1	I will be able to apply Engineering Knowledge and concepts learnt in the Program to solve problems	
2	I will be able to Analyze Engineering Problems.	
3	I will be able to Design And Develop Engineering Systems based on the inputs obtained from the Program.	
4	I will be able to conduct Investigations of Complex Engineering, Analyze, Interpret The Data.	
5	I am confident of using the Modern Tools for solving engineering problems.	
6	The program has instilled a sense of global/societal responsibility and knowledge on the societal , legal and cultural issues related to engineering.	
7	The Program provides an understanding of the impact of engineering on Environment and design the systems that provide sustainable development.	
8	The Program has provided an understanding of professional and Ethical responsibility.	
9	I am confident of working effectively as an individual, as a team and a leader working with diverse teams.	
10	I can Communicate effectively on engineering problems, write effective reports, draft documents & make presentations.	
11	I am confident of using knowledge and understanding of engineering principles in project management, finance and work in multidisciplinary environments.	
12	I am confident of being engaged in independent & life-long learning throughout my professional life.	
13	I have enhanced my ability of design and develop algorithms while studying core courses consisting of concepts of Computer Network, Databases, System Programs, Software Testing and quality assurance.	
14	I have rigorous hand-on training to enhance the skills in emerging trends and technologies such as WSN, IoT, Machine Learning and Information Security.	
15	I have Inculcate professionalism with ethics and compassion towards humanity while working in a team.	

Roll NumberName.....Sign

(Please use back side of this page to put your Special Comments)

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The PIE CHARTS of after Analysis of rating given by the students for all POs and PSOs are as follows:

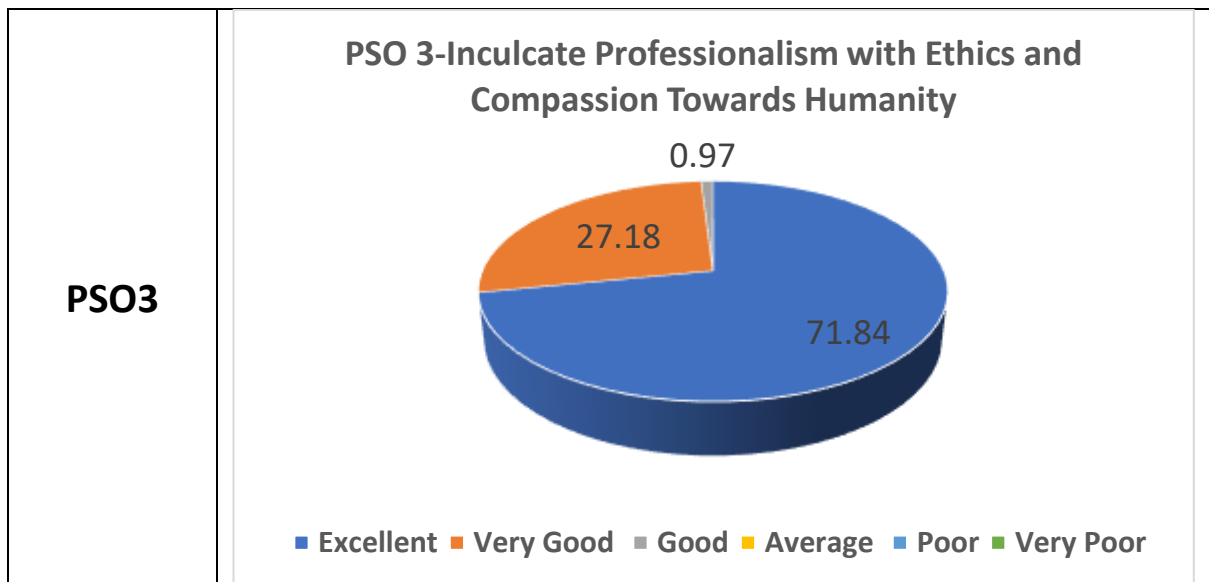
<p>PO1</p>	<p style="text-align: center;">Engineering Knowledge</p>  <p style="text-align: center;">1.94 33.98 64.08</p> <p style="text-align: center;"> ■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor </p>	
<p>PO2</p>	<p style="text-align: center;">Analyze Engineering Problems</p>  <p style="text-align: center;">3.88 41.75 54.37</p> <p style="text-align: center;"> ■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor </p>	
<p>PO3</p>	<p style="text-align: center;">Able to Design and Develop</p>  <p style="text-align: center;">6.80 38.83 54.37</p> <p style="text-align: center;"> ■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor </p>	

<p>PO4</p>		<p>Able to Investigations of Complex Engineerin</p> <table border="1"> <thead> <tr> <th>Category</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Excellent</td> <td>58.25</td> </tr> <tr> <td>Very Good</td> <td>34.95</td> </tr> <tr> <td>Good</td> <td>5.83</td> </tr> <tr> <td>Average</td> <td>0.97</td> </tr> <tr> <td>Poor</td> <td>0</td> </tr> <tr> <td>Very Poor</td> <td>0</td> </tr> </tbody> </table> <p> ■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor </p>	Category	Percentage	Excellent	58.25	Very Good	34.95	Good	5.83	Average	0.97	Poor	0	Very Poor	0	
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<p>PO7</p>	<p>Impact of Engineering on Environment and Sustainable Development.</p> <p>4.85</p> <p>35.92</p> <p>59.22</p> <p>■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor</p>
<p>PO8</p>	<p>Understanding of Professional and Ethical responsibility</p> <p>1.94</p> <p>33.01</p> <p>65.05</p> <p>■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor</p>
<p>PO9</p>	<p>Working Effectively as an individual, as a Team</p> <p>1.94</p> <p>33.01</p> <p>65.05</p> <p>■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor</p>

<p>P10</p>	<p style="text-align: center;">Communicate Effectively on Engineering Problems</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Category</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Excellent</td> <td>58.25</td> </tr> <tr> <td>Very Good</td> <td>34.95</td> </tr> <tr> <td>Good</td> <td>4.85</td> </tr> <tr> <td>Average</td> <td>1.94</td> </tr> <tr> <td>Poor</td> <td>0</td> </tr> <tr> <td>Very Poor</td> <td>0</td> </tr> </tbody> </table> <p style="text-align: center;"> ■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor </p>	Category	Percentage	Excellent	58.25	Very Good	34.95	Good	4.85	Average	1.94	Poor	0	Very Poor	0
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<p>PSO1</p>	<p>PSO1- Ability of Design and Develop Algorithms while Studying Core Courses</p> <p>0.97 29.13 69.90</p> <p>■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor</p>
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<p>PSO2</p>	<p>PSO2- Rigorous Hand-on Training to Enhance the Skills in Emerging Trends and Technologies</p> <p>37.86 62.14</p> <p>■ Excellent ■ Very Good ■ Good ■ Average ■ Poor ■ Very Poor</p>



The POs and PSOs are as follows:

PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, Engineering fundamentals, and an Engineering specialization to the solution of complex Engineering problems.

PO2: Problem Analysis: Identify, formulate, review research literature and analyze complex Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and Engineering sciences.

PO3: Design / Development of Solutions: Design solutions for complex Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and Environmental considerations.

PO4: Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: MODern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern Engineering and IT tools including prediction and modeling to complex Engineering activities with an understanding of the limitations.

PO6: The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and Sustainability: Understand the impact of the professional Engineering solutions in societal and Environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of Engineering practice.

PO9: Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in Multidisciplinary settings.

PO10: Communication Skills: Communicate effectively on complex Engineering activities with the Engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project Management and Finance: Demonstrate knowledge and understanding of Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary Environments.

PO12: LIFE-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

The PSOs are as follows:

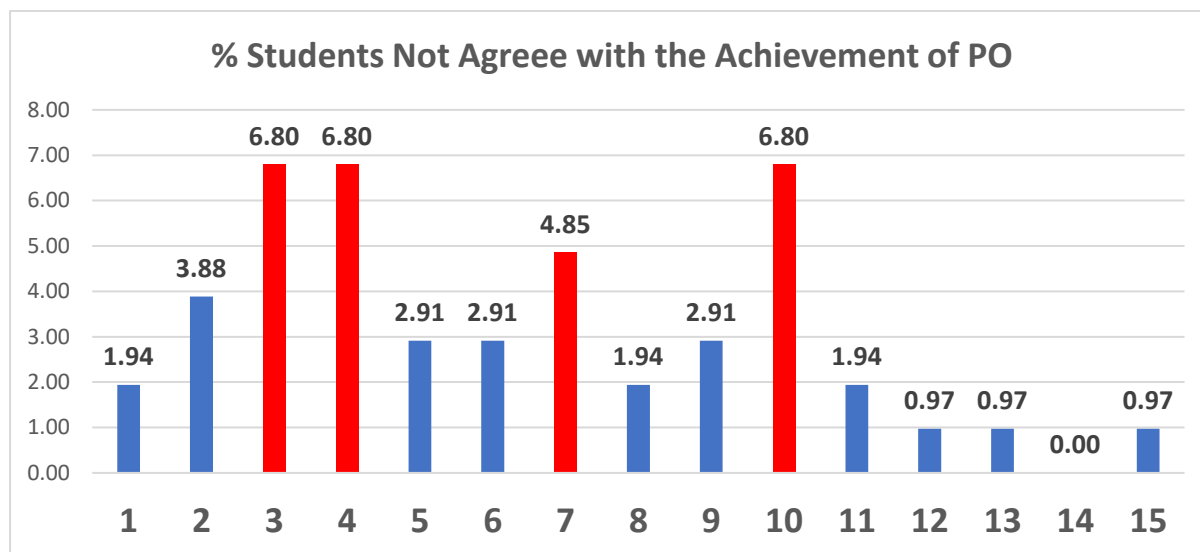
PSO1: Enhance the ability of design and develop algorithms while studying core courses consisting of concepts of Computer Network, Databases, System Programs, Software Testing and quality assurance.

PSO2: Rigorous hand-on training to enhance the skills in emerging trends and technologies such as WSN, IoT, Machine Learning and Information Security.

PSO3: Inculcate professionalism with ethics and compassion towards humanity while working in a team.

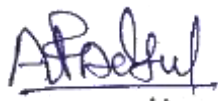
Observations of Program Exit Survey

The following graph shows that the 6.80 %, 6.80 %, 4.85% and 6.80 % students are not 'Strongly Agreeing' with attainment of PO3, PO4, PO7 and PO10 respectively



PO Number	Question	Action Taken
3	6.8 %, students are not 'Strongly Agreeing' Design / Development of Solutions: Design solutions for complex Engineering problems and design system components or processes that meet the specified needs.	Addition of PBL from First year to Final year students, with emphasis on mini projects. Hands -on-Training through students training programs.
4	6.8 %, students are not 'Strongly Agreeing' Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.	Projects given to the students are based on Research Papers available in the library as e-journals. Industry sponsored Projects to get exposure to the real life problems. Live internship will be offered to the students at Third year of engineering

<p style="text-align: center; color: red; font-size: 24px;">7</p>	<p>6.8 %, students are not 'Strongly Agreeing' Environment and Sustainability: Understand the impact of the professional Engineering solutions in societal and Environmental contexts, and demonstrate the knowledge of, and need for sustainable development.</p>	<p>Although Environmental related subject is only at First year level, various cocurricular activities are scheduled as a part of academic calendar.</p> <p>Various students activities will be organized to understand and demonstrate the knowledge of, and need for sustainable development.</p>
<p style="text-align: center; color: red; font-size: 24px;">10</p>	<p>4.85 %, students are not 'Strongly Agreeing' COMMUNICATION Skills: Communicate effectively on complex Engineering activities with the Engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation.</p>	<p>As more number of students enrolled are from rural background, the extra sessions of effective communication will be organized.</p> <p>Also, use of language laboratory to all the students will be encouraged for effective communication.</p> <p>More number of students will be given an opportunity to talk in English during the interactions, seminars and training.</p>



**HoD
Department of
Computer Engineering**




**Principal
DYP COEI**