

2.6.1. Programme outcomes, Programme specific outcomes and course outcomes for all Programme offered by the institution are stated and displayed on website and communicated to teachers and students.

All departments in the institute have defined their POs, PSOs, & COs along with vision, mission following a due mechanism. This list is displayed in few laboratories of the respective departmental notice boards. The list is available in the department profile on the college website.

PROGRAM OUTCOMES (Common to all programs)

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

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

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.

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.

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.

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.

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.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.



Principal

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Communication: 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.

Project management and finance: Demonstrate knowledge and understanding of the 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.

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.

Each faculty member prepares the academic plan for their respective courses at the very beginning of the semester. POs, PSOs and COs are the part of this academic plan. These plans are uploaded on e-governance (SRCOE) portal. All the students have given access to this portal. Apart from this, all POs and PSOs are displayed at various locations at Department and Institute. The same are also made available on college website.

POs,PSOs & COs (Sample Copy)

MECHANICAL ENGG. *On klab site of College*

Course Outcomes, Program Outcomes and Program Specific Outcomes

Course Outcomes:-

First Year Engineering

Course code and Name: 102003 - Systems in Mechanical Engineering

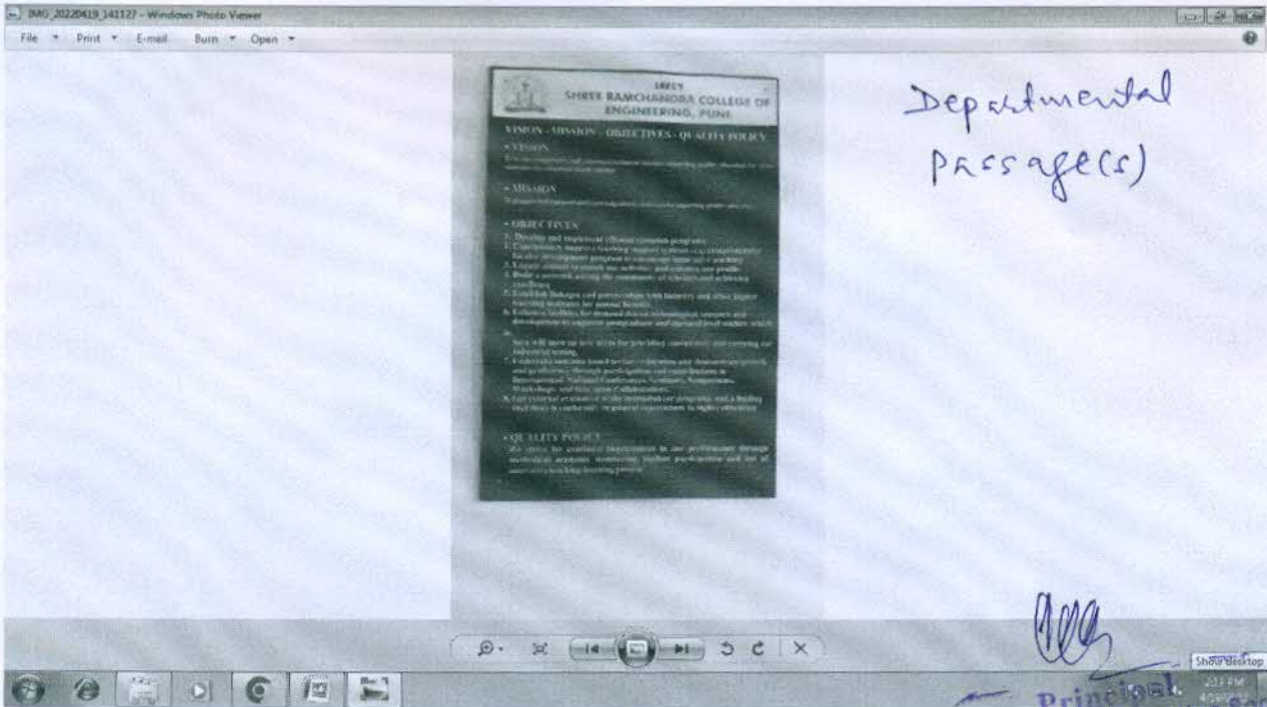
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|----------|---|
| 102003.1 | Describe and compare the conversion of energy from renewable and non-renewable energy sources |
| 102003.2 | Explain basic laws of thermodynamics, heat transfer and their applications |
| 102003.3 | List down the types of road vehicles and their specifications |
| 102003.4 | Illustrate various basic parts and transmission system of a road vehicle |
| 102003.5 | Discuss several manufacturing processes and identify the suitable process |
| 102003.6 | Explain various types of mechanism and its application |

Course code and Name: 111006 - Workshop

Questions?

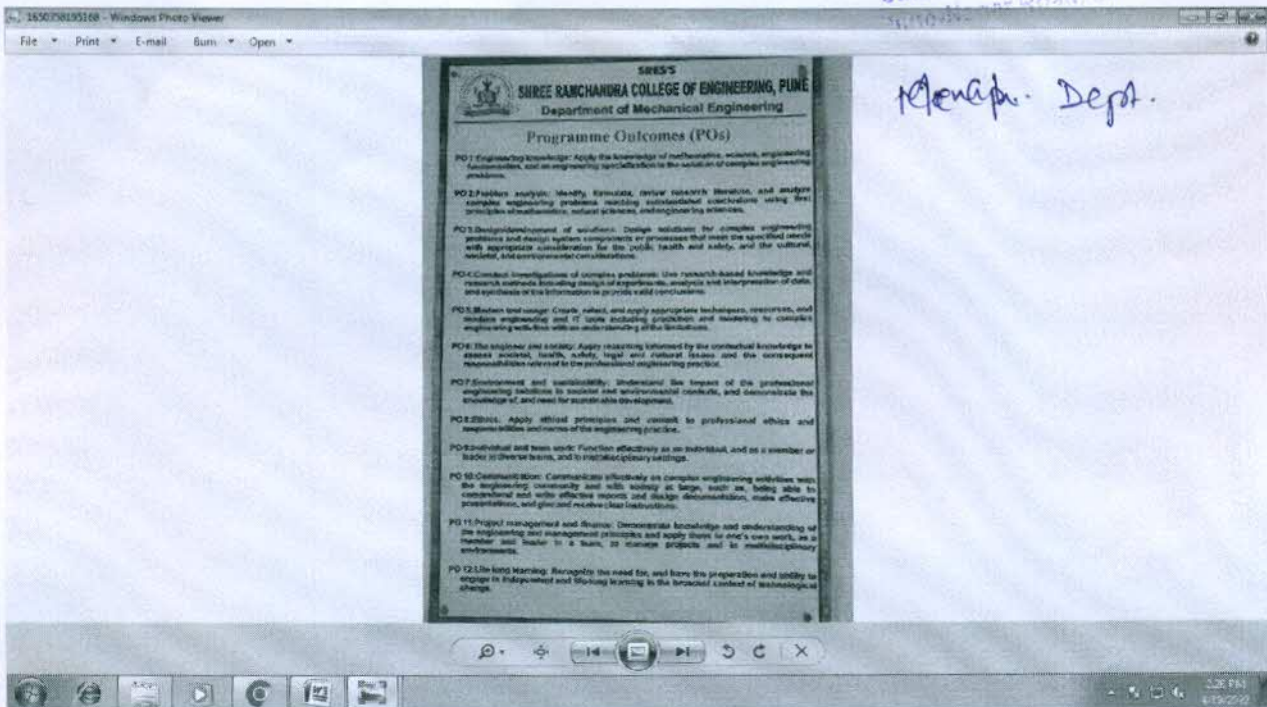
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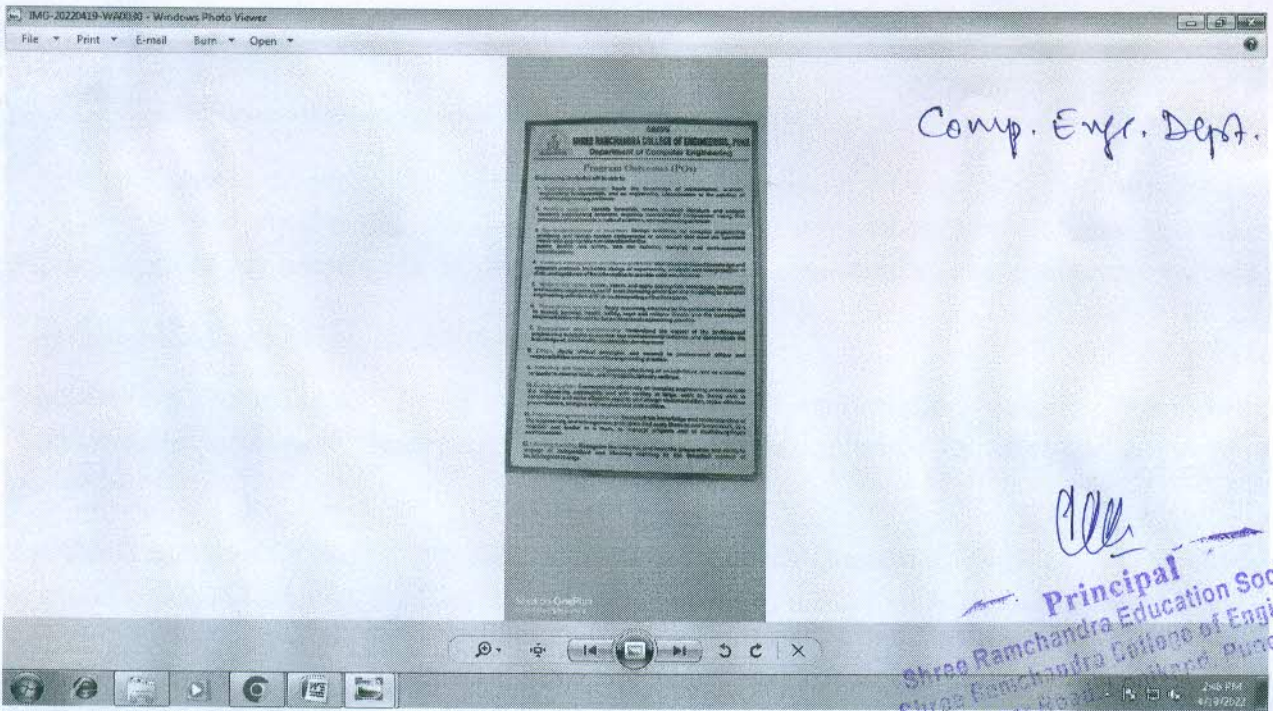
Departmental Passagers)

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Mechan. Dept.

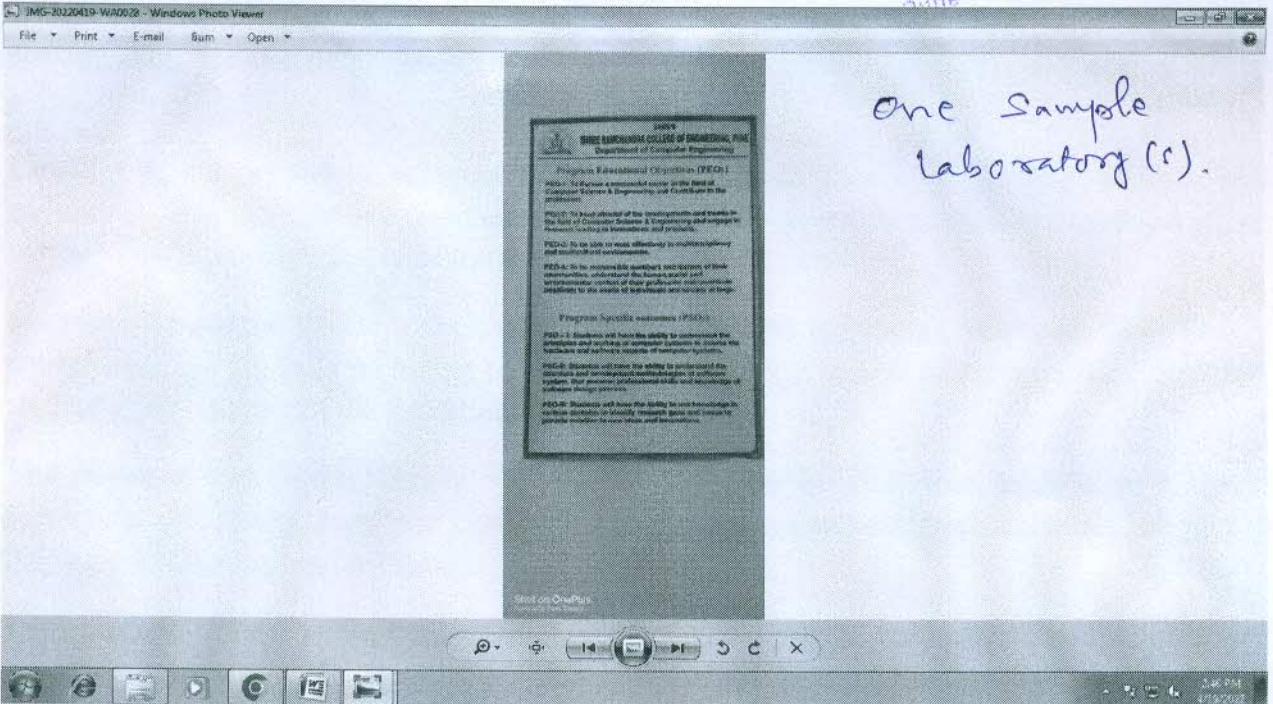
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Comp. Engr. Dept.

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one sample
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