



ZEAL EDUCATION SOCIETY'S  
ZEAL COLLEGE OF ENGINEERING AND RESEARCH  
NARHE | PUNE -41 | INDIA



Record No.: ZCOER-ACAD/R/39

Revision: 00

Date: 01/04/2021

Notice

Department: Mechanical Engineering

Semester: II

Academic Year: 2023-2024

Date: 09/04/2023

The faculties teaching to the final year mechanical engineering courses are hereby informed to submit feedback/suggestions on the SE/TE/BE Mechanical Syllabus 2019 curriculum in format provided below for quality improvement in the program.

Feedback/suggestions on curriculum by Faculty

Class: SE/TE/BE

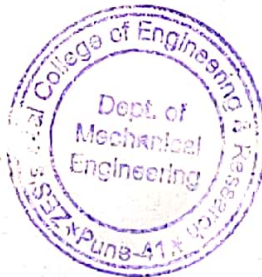
Syllabus Pattern: 2019 Pattern

Course:

Domain:

Sr. No.	Observed Points/Feedback
1	
2	
3	
4	
5	

Name & Signature of Subject Teacher



Head of the Department



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DEPARTMENT OF MECHANICAL ENGINEERING

Feedback/suggestions on curriculum by Faculty

Class: S.E. Semester: I Syllabus Pattern: 2019 Pattern Academic Year: 2023-24

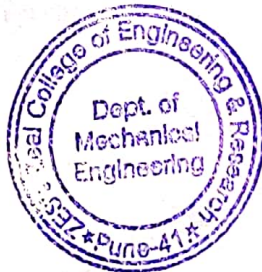
Domain: CAD/CAM/CAE

Course: Solid Modeling and Drafting (202042)

Sr. No.	Observed Points/Feedback	Curriculum Gap	
		PO	PSO
1	Encourage students to consider environmental impact and resource efficiency when selecting materials in CAD modeling.	PO7	
2	Highlight the importance of professional ethics, public safety, and sustainability when making design decisions.	PO8	

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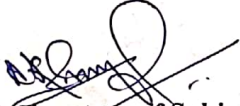
**Feedback/suggestions on curriculum by Faculty**

**Class: S.E. Semester: I Syllabus Pattern: 2019 Pattern Academic Year: 2023-24**

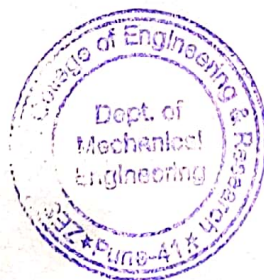
**Domain: Thermal Engineering**

**Course: Engineering Thermodynamics (202043)**

Sr. No.	Observed Points/Feedback	Curriculum Gap	
		PO	PSO
1	The curriculum lacks integration of advanced simulation tools for thermodynamic cycle analysis. Introducing software like MATLAB or thermodynamic simulation tools would enhance analytical insights.	PO5	PSO2, PSO3
2	Insufficient emphasis on the importance of communication in explaining complex thermodynamic concepts and Include assignments or presentations to improve both written and verbal communication skills.	PO10	

  
Name & Signature of Subject Teacher

  
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Feedback/suggestions on curriculum by Faculty

Class: S.E. Semester: I Syllabus Pattern: 2019 Pattern Academic Year: 2023-24  
Domain: CAD/CAM/CAE  
Course: Geometric Dimensioning and Tolerancing Lab (202045)

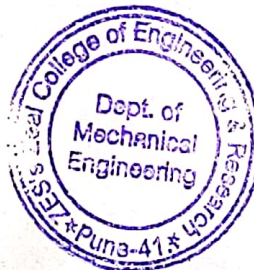
Sr. No.	Observed Points/Feedback	Curriculum Gap	
		PO	PSO
1	Encourage practical applications that focus on real-world industrial practices such as GD&T, machine drawings, and surface finish standards.	PO9	

Name & Signature of Subject Teacher

  
L. B. Mali

Head of the Department







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**Feedback/suggestions on curriculum by Faculty**

Class: S.E. Semester: I Syllabus Pattern: 2019 Pattern Academic Year: 2023-24

Domain: Design Engineering

Course: Kinematics of Machinery (202047)

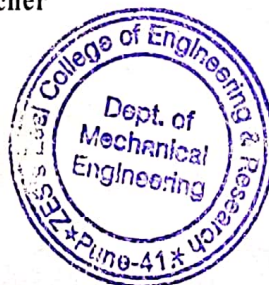
Sr. No.	Observed Points/Feedback	Curriculum Gap	
		PO	PSO
1	Incorporate hands-on learning experiences or software tools for kinematic and gear analysis.	PO6	
2	Include real-world applications for the synthesis of mechanisms, emphasizing practical problem-solving.	PO7	
3	Introduce more case studies and industrial applications of automation systems and cam-follower mechanisms in real-world scenarios.	PO11	

*Abhishek*

Name & Signature of Subject Teacher

*Amish*

Head of the Department





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DEPARTMENT OF MECHANICAL ENGINEERING

Feedback/suggestions on curriculum by Faculty

Class: S.E. Semester: II Syllabus Pattern: 2019 Pattern Academic Year: 2023-24

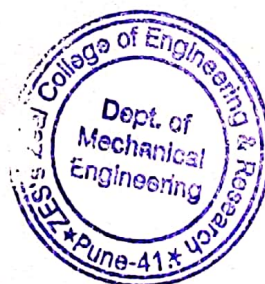
Domain: Thermal Engineering

Course: Applied Thermodynamics (202048)

Sr. No.	Observed Points/Feedback	Curriculum Gap	
		PO	PSO
1	Introduce more practical examples of refrigeration cycles and engine testing for better understanding of theoretical concepts.	PO8	
2	Include hands-on experience with emission control systems and alternative fuels, as well as modern testing equipment and technologies.	PO11	

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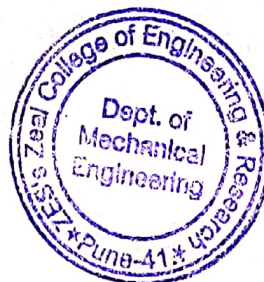
Feedback/suggestions on curriculum by Faculty

Class: S.E. Semester: II Syllabus Pattern: 2019 Pattern Academic Year: 2023-24  
Domain: Thermal Engineering  
Course: Fluid Mechanics (202049)

Sr. No.	Observed Points/Feedback	Curriculum Gap	
		PO	PSO
1	Include more practical experiments on fluid dynamics and kinematics for hands-on learning.	PO6	PSO3
2	Focus on real-world applications of fluid statics and dynamics for better industry relevance.	PO8	
3	Incorporate detailed case studies on internal and external flow analysis to improve problem-solving skills.	PO9	
4	Incorporate detailed case studies on internal and external flow analysis to improve problem-solving skills.	PO10	

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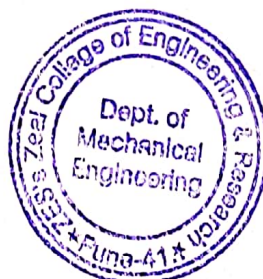
**Feedback/suggestions on curriculum by Faculty**

Class: T.E. Semester: I Syllabus Pattern: 2019 Pattern Academic Year: 2023-24  
 Domain: CAD/CAM/CAE  
 Course: Numerical & Statistical Methods (302041)

Sr. No.	Observed Points/Feedback	Curriculum Gap	
		PO	PSO
1	Lack of case studies or applications linking numerical/statistical methods to sustainability challenges.	PO7	PSO3
2	Minimal emphasis on ethical considerations in data handling, interpretation, and reporting.	PO8	

*AM Karande*  
 Name & Signature of Subject Teacher

*[Signature]*  
 Head of the Department







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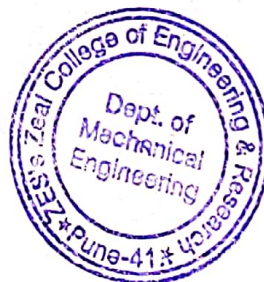
Feedback/suggestions on curriculum by Faculty

Class: T.E. Semester: I Syllabus Pattern: 2019 Pattern Academic Year: 2023-24  
Domain: Thermal Engineering  
Course: Heat & Mass Transfer (302042)

Sr. No.	Observed Points/Feedback	Curriculum Gap	
		PO	PSO
1	Limited coverage of safety considerations in thermal insulation.	PO5, PO8, PO11	PSO2
2	Insufficient emphasis on the economic aspects of insulation materials and		PSO3

Prof. Kamble D.P.  
Name & Signature of Subject Teacher

Head of the Department





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Feedback/suggestions on curriculum by Faculty

Class: T.E. Semester: I Syllabus Pattern: 2019 Pattern Academic Year: 2023-24

Domain: Design Engineering

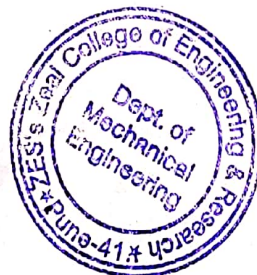
Course: Design of Machine Elements (302043)

Sr. No.	Observed Points/Feedback	Curriculum Gap	
		PO	PSO
1	Minimal discussion on regulations or standards for environmentally compliant machine design.	PO7	PSO3

Prof. Magade P.B

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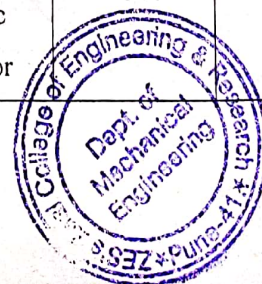
**DEPARTMENT OF MECHANICAL ENGINEERING**

**Feedback Analysis On Curriculum By Faculty And Action Taken Report**

Date: 15/04/2024

The feedbacks on curriculum from faculties in various are obtained. The suggestions were analyzed and necessary corrective measures are taken. The details of action taken on feedback are provided below.

S.N.	Domain	Observed Points	PO PSO GAP	Action Taken
1	CAD/CAM/CAE	Focus on eco-friendly materials and design techniques to minimize environmental impact in CAD-based product designs.	PO6	Suggestions received from stakeholders on SE curriculum are communicated to department Program Assessment and Quality Improvement Committee (PAQIC)
		Encourage students to consider environmental impact and resource efficiency when selecting materials in CAD modeling.	PO7	
		Highlight the importance of professional ethics, public safety, and sustainability when making design decisions.	PO8	
		Focus on managing timelines, resources, and costs in CAD-based engineering projects, incorporating team coordination.	PO11	
2	Thermal Engineering	The curriculum lacks integration of advanced simulation tools for thermodynamic cycle analysis. Introducing software like MATLAB or thermodynamic simulation tools would enhance analytical insights.	PO5	PSO2, PSO3
		Insufficient emphasis on the importance of communication in explaining complex thermodynamic concepts and Include assignments or	PO10	



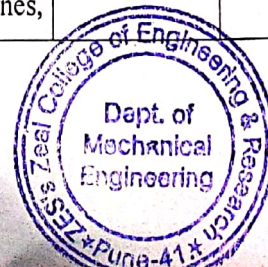




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S.N.	Domain	Observed Points	PO PSO GAP	Action Taken
		presentations to improve both written and verbal communication skills.		
		Introduce more practical examples of refrigeration cycles and engine testing for better understanding of theoretical concepts.	PO8	
		Include hands-on experience with emission control systems and alternative fuels, as well as modern testing equipment and technologies.	PO11	
		Include more practical experiments on fluid dynamics and kinematics for hands-on learning.	PO6	
		Focus on real-world applications of fluid statics and dynamics for better industry relevance.	PO8	
		Incorporate detailed case studies on internal and external flow analysis to improve problem-solving skills.	PO9	
		Incorporate detailed case studies on internal and external flow analysis to improve problem-solving skills.	PO10	
		3	Design Engineering	
Discuss the ethical aspects of material selection, design, and safety in structural engineering in term work.	PO8			
Introduce project management concepts, focusing on timelines,	PO11			

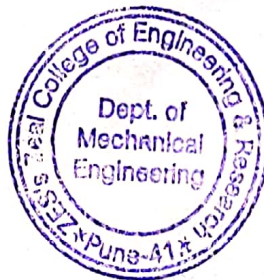




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S.N.	Domain	Observed Points	PO PSO GAP	Action Taken
		resources, and team coordination in structural design projects.		
		Incorporate hands-on learning experiences or software tools for kinematic and gear analysis.	PO6	
		Include real-world applications for the synthesis of mechanisms, emphasizing practical problem-solving.	PO7	
		Introduce more case studies and industrial applications of automation systems and cam-follower mechanisms in real-world scenarios.	PO11	
4	Manufacturing Engineering	Integrate advanced material simulation tools and expand on material selection and sustainability.	PO4	PSO3
		Add case studies on material failures and focus on material testing in design.	PO6	
		Include sustainable material choices and emphasize communication in material analysis.	PO7	
		Enhance critical thinking with failure mode exercises and discuss ethics in material usage.	PO9	



  
Head of the Department