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Dr. Vithalrao Vikhe Patil College of Engineering,

Prof. ANIL VASUDEV SURYAVANSHI
D.V.V.PATIL COLLEGE OF ENGINEERING
Mechanical Engineering Department
VILAD GHAT ,Ahmednagar
MOBILE NO : 9960601896

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☞ Kinematics of Machinery

Course Outcomes:

On completion of the course, learner will be able to
CO1. APPLY kinematic analysis to simple mechanisms
CO2. ANALYZE velocity and acceleration in mechanisms by vector and graphical method
CO3. SYNTHESIZE a four bar mechanism with analytical and graphical methods
CO4. APPLY fundamentals of gear theory as a prerequisite for gear design
CO5. CONSTRUCT cam profile for given follower motion

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Theory of machines-II

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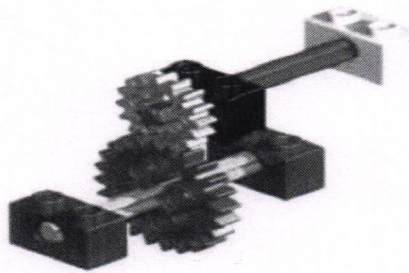
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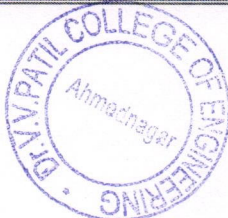
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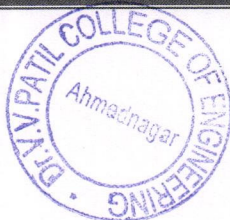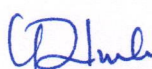## Unit – I: Spur Gear

At the end of this unit students will be able to,

1. Understand fundamentals of gear theory

2. Explain gear terminology and law of gearing.

3. Explain the characteristics of involutes action, path of contact, arc of contact and contact ratio and principle of interference in involute gears.

4. Explain the methods of avoiding interference, backlash.

5. Compare involutes and cycloidal teeth profile

6. To find minimum Number of teeth on spur gear to avoid interference.

7. To perform force analysis of Spur

📄 Syllabus (8hrs)

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design

CO5. CONSTRUCT cam profile for given follower motion

↻ Solid Mechanics

Course Outcomes

On completion of the course, learner will be able to

CO1. DEFINE various types of stresses and strain developed on determinate and indeterminate members.

CO2. DRAW Shear force and bending moment diagram for various types of transverse loading and support.

CO3. COMPUTE the slope & deflection, bending stresses and shear stresses on a beam.

CO4. CALCULATE torsional shear stress in shaft and buckling on the column.

CO5. APPLY the concept of principal stresses and theories of failure to determine stresses on a 2-D element.

CO6. UTILIZE the concepts of SFD & BMD, torsion and principal stresses to solve combined loading application based problems.
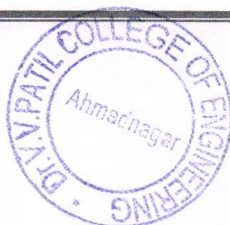
↻ Theory of machines-II

Teacher: ANIL SURYAVANSHI

Course Outcomes

Student will be able to

1. Understand fundamentals of gear theory which will be the prerequisite for gear design.

2. Perform force analysis of Spur, Helical, Bevel, Worm and Worm gear.

3. Analyze speed and torque in epi-cyclic gear trains which will be the prerequisite for gear box design.

4. Design cam profile for given follower motions and understand cam Jump phenomenon, advance cam curves

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☑ MCQ Test on Unit-I ☑
Hidden from students

☑ MCQ test on Unit -1 Fundamentals of Mechanism ☑
Restricted Not available unless: The activity Feedback to Unit I is marked complete

MCQ test on Unit -1 Fundamentals of Mechanism

Unit II: -Kinematic Analysis of Mechanisms: Analytical Method
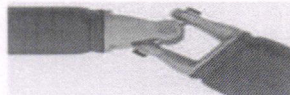
At the end of this unit students will be able to.

ANALYZE velocity and acceleration in mechanisms by Analytical method

☐ Unit II- Syllabus ☑

☐ 2.1 Video Recording of lecture conducted on 18/05/21 ☑

Analytical methods for displacement, velocity and acceleration analysis of slider crank Mechanism

☐ Recording of Video lecture conducted on 19/05/21 ☑

Problems on velocity and Acceleration by Analytical Method

☐ 2.1 Analytical methods for displacement, velocity and acceleration analysis of slider crank Mechanism Notes ☑

Analytical methods for displacement, velocity and acceleration analysis of slider crank Mechanism

☐ 2.2 Video recording of lecture conducted on 20.05.21 ☑

2.2 Complex Algebra Methods

☐ 2.2 Complex algebra method notes ☑

Velocity and acceleration analysis of Four-Bar and Slider crank mechanisms using Vector and Complex Algebra Methods

☐ 2.3 Video recording of lecture conducted on 21.05.21 ☑

Hook Joint

☐ 2.4 Video recording of lecture conducted on 22.05.21 ☑

Analysis of Single and Double Hook's joint

☐ 2.3 Analysis of Single and Double Hook's joint notes ☑

☐ Crossword ☑

☐ Feedback of Unit II ☑

☐ Assignment on Unit -II ☑
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☐ Glossary Unit -II ☑
Hidden from students

☐ MCQ Test on Unit-II ☑
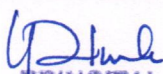**Hidden from students**

☐ Millionaire ☑

Unit III: Kinematic Analysis of Mechanisms: Graphical Method

At the end of this unit students will be able to.

ANALYZE velocity and acceleration in mechanisms by Graphical method

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