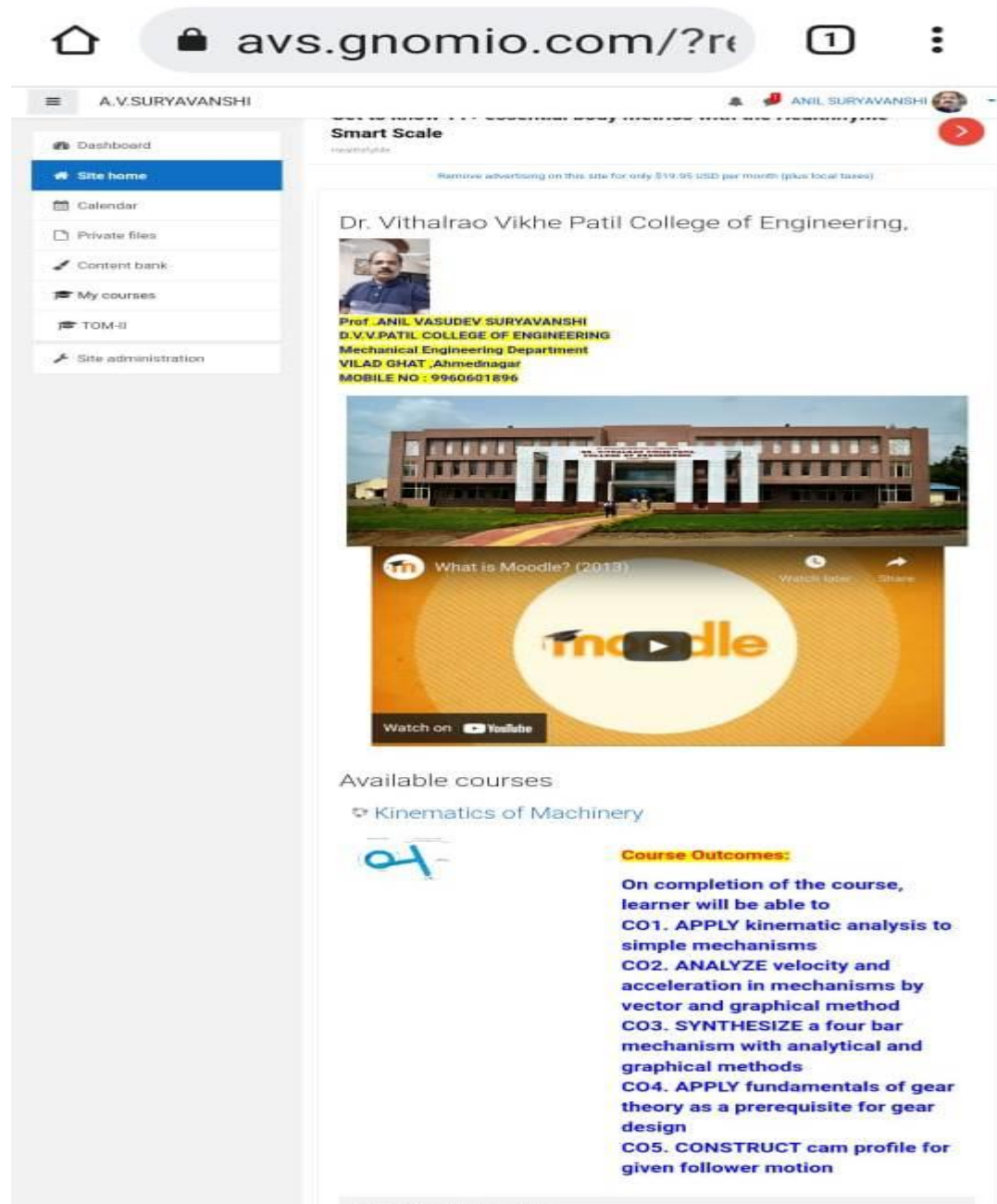


### 2.3.2: Teachers use ICT enabled tools for effective teaching-learning process

ICT based MOODLE learning management system by faculty

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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

What is Moodle? (2013)

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Available courses






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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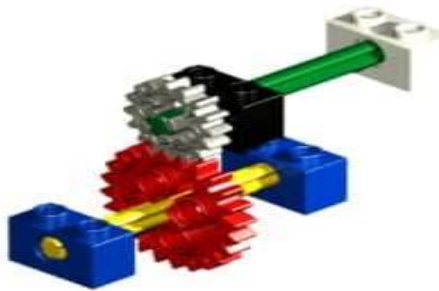
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## Unit – I: Spur Gear







**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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A.V.SURYAVANSHI




ANIL SURYAVANSHI


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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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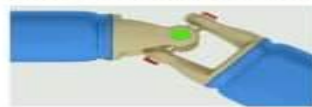
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MCQ Test on Unit-I  
**Hidden from students**

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  
**Hidden from students**

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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Prof. (Dr) R. R. Navthar



  
PRINCIPAL  
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