

SM

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER Session-2021-2022

Discipline: CIVIL Engg. Semester: 3rd
Name of the Teaching Faculty: AMIT KUMAR KAR

Subject: SM No. of Days/per week class allotted 05

Semester From Date: 25/10/2021 To Date: 14/02/2022 No. of Weeks: 14

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
25/10/21	Basic concepts force, Moment etc.	Basic Concepts force, moment Support, etc.	As per the Syllabus	@Arnu
26/10/21	C.G & M.I, FBD	CG & M.I FBD	- do -	- do -
26/10/21	C.G of diff. Sections	C.G of diff Sections	- do -	- do -
27/10/21	M.I of diff. Sections	M.I of diff. Sections	- do -	- do -
27/10/21	Mech. properties of Materials	Mech. - Properties	- do -	- do -
01/11/21	Simple stress and strains	Simple stress & strains	- do -	- do -
01/11/21	Types of stresses	Types of Stresses	- do -	- do -
02/11/21	Types of strains	Types of strains	- do -	- do -
03/11/21	- do -	- do -	- do -	- do -
06/11/21	Poisson's ratio, volumetric strain	Poisson's ratio vol. strain	- do -	- do -
06/11/21	Hooker's law Elastic const.	Hooker's law Elastic const.	- do -	@Arnu

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06/11/21	Stress & Strain diagrams	stress & strain diagrams	As per the Syllabus	<i>Dr. M. S.</i>
08/11/21	Percentage elongation (ductile)	Percentage elongation (ductile)	- do -	- do -
08/11/21	Percentage reduction of area	Percentage reduction in area	- do -	- do -
09/11/21	Deformation of Prismatic bar	Deformation of prismatic bar	- do -	- do -
09/11/21	Principal stress, strain, Normal & tangential stress	Principal stress strain etc.	- do -	<i>Dr. M. S.</i>
10/11/21	Mohr's Circle problem discussion	Mohr's Circle problem - discussion	- do -	- do -
10/11/21	Application of Mohr's Circle	Problem - discussion	- do -	- do -
11/11/21	Theory of simple bending	Stresses in beam due to bending	- do -	- do -
11/11/21	Moment of resistance	Moment of resistance	- do -	- do -
11/11/21	Equation of flexural rigidity	flexural rigidity	- do -	- do -
13/11/21	Shear stress distribution rectangular c/s	shear stress (rectangular c/s)	- do -	<i>Dr. M. S.</i>

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
13/11/21	Concept of torsion	Concept of torsion	As per the Syllabus	<i>[Signature]</i>
15/11/21	Torsion of solid, hollow sections	Torsion of Solid (Circular) (S)	- do -	- do -
16/11/21	Polar M.I. Angle of twist	Polar M.I. Eqn of torsion	- do -	- do -
16/11/21	Column and Struts	Column and Struts	- do -	- do -
16/11/21	Short columns Long Columns	Short & long columns	- do -	- do -
16/11/21	Euler's theory Critical loads	Euler's theory	- do -	- do -
17/11/21	SF & BM, UDL Types of loads	SF & BM, UDL Types of loads	- do -	- do -
17/11/21	Types of supports	Types of supports	- do -	- do -
17/11/21	Types of reactions	Types of reactions	- do -	- do -
18/11/21	UDL, Cantilever beams	UDL, Cantilever beams	- do -	<i>[Signature]</i>
18/11/21	Simply supported beams	Simply supported beams	- do -	<i>[Signature]</i>

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22/11/21	Overhanging beams	Overhanging beams	As per the Syllabus	<i>dm</i>
22/11/21	Position of max ^m B.M	Position of max ^m B.M.	- do -	- do -
23/11/21	Point of contra-flexure	Point of Contra-flexure	- do -	- do -
23/11/21	Relation between SF & BM, intensity of load	Relationship between SF, BM, loads	- do -	- do -
24/11/21	Slope and deflection	Slope and deflection	- do -	- do -
24/11/21	Relation between slope, defl ⁿ & curve	Relation bet ⁿ slope, defl ⁿ & curve	- do -	- do -
25/11/21	Slope & defl ⁿ of cantilever	Slope / defl ⁿ of cantilever	- do -	<i>dm</i>
25/11/21	Simply supported beam on point load	Simply supported beam on point load	- do -	- do -
25/11/21	Problem - discussion	Problem - discussion	- do -	- do -
26/11/21	Simply supported beam under UDL	Beam under UDL	- do -	- do -
26/11/21	Indeterminacy in beams	Indeterminacy in beams	- do -	<i>dm</i>

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24/11/21	Principle of consistent - deformation	Principle of consistent - deformation	As per the Syllabus	@jmv
29/11/21	Analysis of propped canti - lever	Analysis of propped canti - lever	- do -	- do -
30/11/21	SF & BM - diagrams	SF & B.M diagrams	- do -	- do -
03/01/22	Sample Problem discussion	Sample question discussion	- do -	- do -
03/01/22	- do -	- do -	- do -	- do -
04/01/22	Introduction to trusses	Introduction to trusses	- do -	- do -
05/01/22	Types of trusses	Types of trusses	- do -	@jmv
05/01/22	Statically determinate trusses	Statically determinate trusses	- do -	- do -
06/01/22	Indeterminate trusses	Indeterminate trusses	- do -	- do -
08/01/22	Degree of indeterminacy	Degree of indeterminacy	- do -	- do -
10/01/22	Stable - trusses	Stable - trusses	- do -	@jmv

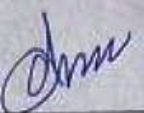
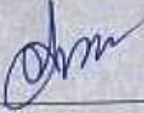

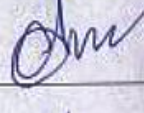
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11/01/22	Unstable trusses	Unstable trusses	As per the syllabus	
19/01/22	Advantages of trusses	Advantages of trusses	- do -	
22/01/22	Sample problem discussion	Sample - problem discussion	- do -	
24/01/22	Analytical Method	Analytical Method	- do -	
25/01/22	Methods of joints / section	Methods of Joints / Section	- do -	