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	
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	Hooke's law Elastic const.	Hooke's law Elastic const.	-do-	

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06/11/21	Stress & Strain diagrams	Stress & Strain diagrams	As per the Syllabus	
08/11/21	Percentage - elongation (ductile)	Percentage elongation (ductile)	-do-	-do-
08/11/21	Percentage - reduction c/s area	Percentage reduction in c/s 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-	
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-	

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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	done
15/11/21	Torsion of solid, hollow sections	Torsion of Solid (Circular cs)	-do-	-do-
15/11/21	Polar M.I, Angle of twist	Polar M.I Eq^n 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-	done
18/11/21	Simply supported beams	Simply supported beams	-do-	done

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Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
22/11/21	Overhanging beams	Overhanging beams	As per the Syllabus	dm
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 betⁿ slope, defl^n. & curve	-do-	-do-
25/11/21	Slope & defl^n. of cantilever	Slope / defl^n of cantilever	-do-	dm
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-	dm

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25/11/21	Principle of consistent - deformation	Principle of consistent - deformation	As per the Syllabus	
29/11/21	Analysis of propped canti-lever	Analysis of propped canti-lever	- do -	- do -
30/11/21	SF & BM diagrams	SF & BM 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 -	
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 -	

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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-	