

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER Session-2022-2023












Discipline: Electrical Engg.

Semester: 2nd Section-A Subject: Engg. Mechanics

Name of the Teaching Faculty: Mr. Dillip Kumar Meher

Subject: EMS No. of Days/per week class allotted 4

Semester From Date : 20/3/23 To Date : 27/6/23 No. of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
20/3	Def ⁿ of mechanics Statics Dynamics	Def ⁿ of mechanics Statics Dynamics	Def ⁿ of mechanics dynamics statics	
21	Force, Force system effects of force	Force, Force system effects of force	Force, Force system effects of force	
23	Superposit ⁿ Transmissibility Principle	Superposit ⁿ Transmissibility	Superposition & Transmissibility	
24	Action, React ⁿ & FBD	Action, React ⁿ & FBD	Action, React ⁿ & FBD	
27	Method of resolution	Method of resolution	Method of resolution	
28	Force components, Perpendicular & non perpendicular	Force components Perpendicular & non perpendicular	Force Components Perpendicular & non perpendicular	
31	Resultant force	Resultant force	Resultant force	
3/4	Law of parallelogram of force	Law of parallelogram of force	Law of parallelogram of force	
4	Space diagram vector diagram	Space diagram vector diagram	Space diagram vector diagram	
6	Concurrent force	Concurrent force	Concurrent force	
10	Non Concurrent force	Non Concurrent force	Non Concurrent force	

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11/4	Varignon's theorem	Varignon's theorem	Varignon's theorem	Dr
13	Couple	Couple	Couple	Dr
17	Def ⁿ of equilibrium	Def ⁿ of equilibrium	Def ⁿ of equilibrium	Dr
18	Cond ^s for concurrent forces	Cond ^s for concurrent forces	Cond ^s for concurrent forces	Dr
20	Cond ^s for nonconcurrent force	Cond ^s for nonconcurrent force	Cond ^s for nonconcurrent force	Dr
21	FBD	FBD	FBD	Dr
24	Lami's theorem	Lami's theorem	Lami's theorem	Dr
25	Problems	Problems	Problems	Dr
27	Problems	Problems	Problems	Dr
28	Friction Frictional force	Friction Frictional force	Frict ⁿ , Frictional force	Dr
1/5	C.O.F., Laws of frict ⁿ	C.O.F. Laws of frict ⁿ	C.O.F. Cases of friction	Dr

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2/5	Friction Adv. & dis adv.	Frict ⁿ adv. & dis adv.	Frict ⁿ adv. & dis adv.	Oh
4	Equilibrium of bodies	Equilibrium of bodies	Equilibrium of bodies	Oh
8	Force applied on horizontal plane	Force applied on horizontal plane	Force applied on horizontal plane force	Oh
9	Force applied on inclined plane	Force applied on inclined plane	Force applied on inclined plane.	Oh
11	Problems	Problems	Problems	Oh
12	Ladder frict ⁿ	Ladder friction	Ladder friction	Oh
15	Wedge frict ⁿ	Wedge Frict ⁿ	Wedge Frict ⁿ	Oh
16	Problems	Problems	Problems	Oh
18	Centroid of M.I.	Centroid of M.I.	Centroid of M.I.	Oh
22	Centroid of rectangle, triangle	Centroid of rectangle & triangle	Centroid of rectangle & triangle	Oh
23	Centroid of square	Centroid of square	Centroid of square	Oh

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25	Centroid of Circle	Centroid of Circle	Centroid of Circle	
26	Centroid of Semi-circle qtr. circle	Centroid of Semi-circle qtr. circle	Centroid of Semi-circle qtr. circle	
29	Centroid of comp. sect ⁿ	Centroid of Comp. sect ⁿ	Centroid of Comp. sect ⁿ	
30	Problems	Problems	Problems	
1/6	M.I.	M.I.	M.I.	
2	Parallel axis theorem	Parallel axis theorem	Parallel axis theorem	
5	1 st axis theorem	1 st axis theorem	1 st axis theorem	
6	M.I. of Circle, Square etc.	M.I. of Circle, Square etc.	M.I. of Circle, Square etc.	
8	M.I. of T, I, sect ⁿ	M.I. of T, I, sect ⁿ	M.I. of T, I, sect ⁿ etc.	
9	M.I. of C, Z, sect ⁿ	M.I. of C, Z, sect ⁿ	M.I. of C, Z, sect ⁿ	
12	Problems	Problems	Problems	

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13	Def ⁿ of machines	Def ⁿ of Machines	Def ⁿ of Machines	<i>Oh</i>
16	Compound gear train	Compound gear train	Compound gear train	<i>Oh</i>
19	Simple & compound lift ^r m/c	Simple & compound lift ^r m/c	Simple & Comp. lift ^r m/c	<i>Oh</i>
22	Rel ⁿ bet ⁿ MA, VR & η	Rel ⁿ bet ⁿ MA, VR & η	Rel ⁿ bet ⁿ MA, VR & η	<i>Oh</i>
26	Law of m/c	Law of m/c	Law of m/c	<i>Oh</i>
27	Study of wheel & axle crab winch	Study of wheel & axle crab winch	Study of wheel & axle crab winch	<i>Oh</i>
29	Screw Jack	Screw Jack	Screw Jack	<i>Oh</i>
1/7	Problems	Problems	Problems	<i>Oh</i>
3	Kinetics Newton's law	kinetics newton's law	kinetics Newton's law	<i>Oh</i>
4	De-Alembert Principle	De-Alembert Principle	De-Alembert Principle	<i>Oh</i>
5	Work, Power energy	Work, Power energy	Work, Power energy	<i>Oh</i>

