

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER

Session-2022-2023

Discipline: Mechanical Engg

Semester: 6th..... Subject: T.M.....

Name of the Teaching Faculty:..... Prabahandhu Sahu.....



PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF
ENGINEERING & TECHNOLOGY, BARGARH
PROGRESS REGISTER

Discipline: MECHANICAL Engg. Semester: 4th

Name of the Teaching Faculty : GOPABANDHU SAHU

Subject: THEORY OF MACHINES No. Of Days/per week class allotted 4

Semester From Date : 14/02/23 To Date : 23/05/23 No. Of Weeks : 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
14/2	Introduction to Machines & Simple Mechanism	Simple Mechanisms.	Simple Mechanisms.	G
15/2	Kinematic link & kinematic Pair	kinematic link & Pair	kinematic link & Pair.	G
17/2	kinematic Chain	Joint in a Chain	Joint in a Chain.	G
21/2	Kutzbach Criterion	Kutzbach Criterion.	Kutzbach Criterion.	G
24/2	Inversion of Four bar link Mechanism	Inversion of Four bar link Mechanism	Inversion of Four bar link Mechanism	G
25/2	Mechanism of higher and lower Pair	Mechanism of lower & higher Pair	Mechanism of higher & lower Pair.	G
28/2	Cam and Follower types	Cam and Follower	Roller & knife edge followers.	G
1/3	MCO & Previous Year Questions	MCO & Questions Discussed	MCO & Questions discussed.	G
3/3	Friction & Law of Friction.	Friction & Types of friction.	Law of friction	G
4/3	Angle of Friction & coefficient of friction.	Angle of friction & Angle of Repose	Relation between α and ϕ	G



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Discipline: _____ Engg. Semester: _____

Name of the Teaching Faculty : _____

Subject: _____ No. Of Days/per week class allotted _____

Semester From Date : _____ To Date : _____ No. Of Weeks : _____

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
10/3	Screw friction Helix, Pitch, lead	Screw friction.	Screw Jack Square Thread.	
11/3	Friction in Screw Jack.	Friction between Nut & Screw	Screw Friction	
14/3	Torque needed to lift lower load.	Torque calculation in Screw Jack.	Effort vs load lifted.	
15/3	Efficiency of Screw Jack.	Screw Jack Efficiency	Screw Jack efficiency.	
17/3	Friction in Journal Bearing.	Journal Bearing Friction.	Friction circle.	
18/3	Describe roller, needle roller & ball bearing.	Roller & ball bearing.	Roller ball Bearing.	
21/3	Torque transmission in flat Pivot bearing.	Pivot Pivot & Conical Pivot Bearing.	Flat & Conical Pivot Bearing.	
22/3	Style Flat collar Bearing.	Multiple Flat collar Bearing.	Flat collar Bearing.	
24/3	Clutches & Frictional brakes.	Working of Clutches & Frictional brake.	Cone clutch & plate clutch.	
25/3	Working of Absorption type dynamometer.	Absorption type dynamometer.	Fly brake dynamometer.	



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Discipline: _____ Engg. Semester: _____

Name of the Teaching Faculty: _____

Subject: _____ No. Of Days/per week class allotted _____

Semester From Date: _____ To Date: _____ No. Of Weeks: _____

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
28/3	Power transmission by belt drives, gears.	Belt drives & Gear drives & Chain drives.	Power transmitted by shaft.	G
29/3	Velocity ratio of Belt drives.	Ratio of speed in belt drives.	Slip & creep of belt to avoid	G
31/3	Length of belt	Length of open & cross belt drives.	Ratio of driving Tension.	G
4/4	Maxm Tension in Belt.	Centrifugal Tension in belt.	Centrifugal Tension in belts	G
6/4	Condition for Maxm Power in belt transmission.	Maxm Power transmitted by belt	Maxm Power transmitted by belt.	G
7/4	Belt thickness & width of open belt.	Belt thickness & width of open belt.	Belt thickness & width of belt	G
8/4	Solving problems & MCA discussion.	Solving MCQ & Questional distns.	Solve MCQ	G
12/4	V-Belt & v Belt drives.	V-Belt drives	Material and adv of V-belt drives.	G
15/4	V-Belt drives vs Flat Belt drives.	V-belt vs drives. Flat belt	Flat vs V-belt drives.	G
18/4	Ratio of driving tension for V-belt.	Ratio of driving tensions for V-belt.	Ratio of driving tensions for V-Belt.	G



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Discipline: _____ Engrg Semester _____

Name of the Teaching Faculty: _____

Subject: _____ No. Of Days/per week class allotted _____

Semester From Date _____ To Date _____ No. Of Weeks _____

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
19/7	Gen. Arch & Terminology	Gen. terminology	Pitch, addendum, Circular Pitch	G
21/7	Gen. trans. & Taper.	Simple Compound Epicyclic	Use of Gen. trans.	G
25/7	Centralized Government.	Working & use of Governm.	Use of central govt. Govt. to state and	G
26/7	Classification of Government.	Types of Government.	Terms used in Government.	G
28/7	Working of unitary Governm.	Unitary Governm.	Define 'h'	G
29/7	Working of Pederal Governm.	Pederal Governm.	Define 'N'	G
2/8	Working of 'Prad' Governm.	Prad Governm.	Define 'h'	G
3/8	Special the res & Stability	Resonance & Stability	Isochronism.	G
6/8	Isochronous Governm.	Isochronous Governm.	Hunting of Governm.	G
9/8	Solving of M&A Numerical	Numerical & M&A discuss	Numerical M&A discuss	G



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PROGRESS REGISTER

Discipline: _____

Engg Semester _____

Name of the Teaching Faculty _____

Subject _____

No. Of Days/per week class allotted _____

Semester From Date _____

To Date _____

No. Of Weeks _____

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
10/11	Function of Flywheel	Function of Flywheel	Cost of stored energy	C
12/11	Function of clutch	Function of Clutch	Sufficient & excessive needs	C
20/11	Solving numericals	Solving Numerical	Solving Numerical	C
22/11	Static & Dynamic Balancing	Static & Dynamic Balancing	Balancing & unbalancing mass	C
24/11	Static balancing of Rotating mass	Static Balancing of Rotating mass	Rotating & Rotating mass	C
29/11	Balancing of several masses in same plane	Several mass subject in same plane	Balancing mass in same plane	C
26/11	Balancing of several masses in different planes	Several mass in different planes	Balancing several mass in different planes	C
27/11	Balancing of Reciprocating masses	Balancing of Reciprocating masses	Balancing of Reciprocating masses	C
28/11	Unbalance & its effect on unbalancing mass	Unbalanced forces in unbalancing mass	Force is unbalanced mass	C
29/11	Cause & effect of unbalancing	Effect of unbalancing	Effect of unbalancing	C



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Name of the Teaching Faculty : _____

Subject: _____ No. Of Days/per week class allotted _____

Semester From Date : _____ To Date : _____ No. Of Weeks : _____

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
24/5	Static vs Dynamic Balancing.	Static vs Dynamic Balancing.	Static vs Dynamic Balancing.	G
24/5	Vibrating Machine Parts.	Vibration of Machine Parts.	Vibrations of types.	G
25/5	Amplitude, Time Period, Frequency	Torsional Vibration.	Torsional Vibration.	G
27/5	Classification of vibration.	Classification of vibrations.	Classification of vibrations.	G
27/5	Natural vs Forced vs Damped vibration.	Natural, Forced Damped vibrations.	Natural, forced & Damped vibration.	G
27/5	Longitudinal & Transverse Vibration.	Longitudinal & Transverse vibration.	Longitudinal & Transverse vibration.	G
28/5	Logarithmic Decrement	Damping factor.	whirling of shaft.	G
28/5	Causes & Remedies of vibration.	Causes & Remedies of vibration.	Causes & Remedies of vibration.	G
28/5	Resonance of Damped vibration.	Resonance of damped vibration.	Resonance of damped vibration.	G
29/5	Previous Year questions.	MCE of previous Year Selection.	MCE of previous Year questions.	G