

"PVC NSSK" GOVERNMENT POLYTECHNIC BILASPUR, AT KALOL

Lesson Plan

Session : March to June

Name of Teacher : Sameer Sharma

Subject : Theory of Machines

Class : Mechanical Engineering(4thSemester)

Sr. No.	Month	Week	Date	Name of Chapter	Content to be taught	Remarks		
1	March	3rd	16,17,19	Simple Mechanisms	Introduction to Theory of Machines, Syllabus overview and Evaluation Scheme, Introduction to link, kinematic pair, lower and higher pair, Kinematic chain, mechanism, Inversions.			
		4th	23,24,25,26		Different types of mechanisms, Mechanical advantage of a linkage, Cams and followers: Terminology and classification			
		5th	30,31	Friction	Frictional torque in screws, both for square and V threads, Introduction to frictional clutches,			
2	April	1st	1,2		Friction in journal bearing, Different types of bearings and their applications			
		2nd	6,7,8		Power transmission through screw and efficiency			
2	April	3rd	13,16,	Power Transmission	Flat belt and V belt drives :- (Ratio of tensions; Power transmitted, centrifugal tension, Condition for maximum power)			
		4th	20,21,22,23		Chain drive, different types of chains and their applications, Gear and its nomenclature, types of gears and their applications; simple and compound gear trains; power transmitted by simple and compound gear trains.			
		5th	27,28,29,30	Flywheel	Principle and applications of flywheel, Turning moment diagram of flywheel for different engines			
3	May	1st	4,5,6,7	Governor	Fluctuation of speed and fluctuation of energy			
		2nd	11,12,13		Principle of governor, Construction and working of Watt, Porter and Hartnel Governor.			
		3	May	3rd	18,19,20,21	Balancing	Concept of balancing, Introduction to balancing of rotating masses (with simple numerical)	
				4th	25,26,27		Concept of gyroscope.	
4	June	1st	1,3,4	Vibrations	Vibrations, its type and damping,			
		2nd	8,9,10		Causes of vibrations in machines, their harmful effects and remedies			
		3rd	15,16,17,18		Revision of previous question paper			
		4th	22,23,24,25		Revision of previous question paper			

Sameer Sharma
Signature of teacher

SAMEER SHARMA
(WLS SUPDT.)

HOD (ME)