



LESSON PLAN-(SUMMER-2023)
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline- MECHANICAL	Semester-4TH	Name of teaching faculty- Er. SOUMYA RANJAN MOHANTY
Subject- TOM	No class allotted/ per week -4	SEM From date- 13/02/2023 TO 23.5.2023 No of weeks- 15
Week	Class day	Theory Topics
Week-1	13.02.2023	CH-1 INTRODUCTION, LINK AND KINEMATICS PAIR, KINEMATIC CHAIN, MECHANISM & MACHINE
	14.02.2023	LOWER PAIR AND HIGHER PAIR ,
	15.02.2023	FOURBAR MECHANISM , INVERSION,
	17.02.2023	PROBLEMS SOLVED
Week-2	20.02.2023	CAM AND FOLLOWER
	21.02.2023	REVISION OF TOPIC PREVIOUSLY TAUGHT
	22.02.2023	CH-2 FRICTION BETWEEN NUT AND SCREW FOR SQUARE THREAD , SCREW JACK
	24.02.2023	BEARING & ITS CLASSIFICATION, SINGLE AND MULTIPLE COLLAR BEARING
Week-3	27.02.2023	BEARING , ROLLER BEARING, MIDDLE ROLLER BEARING, BALL BEARING
	28.02.2023	TRANSMISSION IN FLAT PIVOT BEARING.
	2.03.2023	TRANSMISSION IN CONICAL PIVOT BEARING
Week-4	3.03.2023	FLAT COLLAR BEARING
	6.03.2023	TORQUE TRANSMISSION SINGLE AND MULTIPLE CLUTCH.
	9.03.2023	PROBLEMS SOLVED
	10.03.2023	SIMPLE FRICTIONAL BREAK & ABSORPTION TYPE DYNAMOMETER.
Week-5	20.03.2023	CLASS TEST
	21.03.2023	CH-3 CONCEPT OF POWER TRANSMISSION, TYPES OF DRIVES
	23.03.2023	TYPES OF DRIVES- BELT, GEAR & CHAIN DRIVE
	27.03.2023	CROSS BELT DRIVE,
Week-6	28.03.2023	OPEN BELT DRIVE.
	29.03.2023	RATIO OF TENSION, CENTRIFUGAL TENSION, INITIAL TENSION.
	31.03.2023	POWER TRANSMISSION BY BELT
	3.04.2023	V-BELTS AND V-BELT PULLEY
Week-7	5.04.2023	FAST AND LOOSE PULLEY
	6.04.2023	CROWNING OF PULLEY
	11.04.2023	GEAR DRIVE AND TERMINOLOGY
	12.04.2023	SIMPLE GEAR TRAIN & COMPOUND GEAR TRAIN
Week-8	13.04.2023	EPICYCLIC GEAR TRAIN, REVERTED GEAR TRAIN
	17.04.2023	CH-4 GOVERNOR AND IT'S CLASSIFICATION
	19.04.2023	WATT GOVERNOR
	20.04.2023	PORTER GOVERNOR
Week-9	24.04.2023	PROELL GOVERNOR
	25.04.2023	HARTNELL GOVERNOR
	26.04.2023	SENSITIVITY & STABILITY, ISOCHRONISM
	27.04.2023	FLY WHEEL, COMPARISON BETWEEN FLYWHEEL & GOVERNOR
Week-10	28.04.2023	FLUCTUATION OF ENERGY
	1.05.2023	CO EFFICIENT OF FLUCTUATION OF SPEED
	2.05.2023	PROBLEM SOLVED
	3.05.2023	PROBLEM SOLVED
Week-11	4.05.2023	REVISION OF TOPIC PREVIOUSLY TAUGHT
	8.05.2023	CONCEPT OF STATIC & DYNAMIC BALANCING
	10.05.2023	STATIC BALANCING OF ROTATING PARTS
	11.05.2023	PRINCIPLE OF BALANCING OF RECIPROCATING PARTS
Week-12	12.05.2023	CAUSE AND EFFECT OF UNBALANCE
	15.05.2023	DIFFERENCE OF STATIC BALANCING & DYNAMIC BALANCING

	16.05.2023	RELATED PROBLEM SOLVED
	17.05.2023	CH-5 INTRODUCTION TO VIBRATION AND RELATED TERMS
	18.05.2023	CLASSIFICATION OF VIBRATION
Week-13	19.05.2023	NATURAL ,FORCED, DAMPED VIBRATION
	22.05.2023	TORSIONAL, LONGITUDINAL VIBRATION
	23.05.2023	CAUSE & REMEDIES OF VIBRATION
HOD SIGN.	DEAN (Academic) SIGN.	PRINCIPAL SIGN.