




LESSON PLAN-(SUMMER-2024)
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline- MECHANICAL	Semester-4TH	Name of teaching faculty- Er. Kunal Pradhan
Subject- TOM	No class allotted/ per week -4	SEM From date- 16.01.2024 TO 26.04.2024 No of weeks- 15
Week	Class day	Theory Topics
Week-1	16.01.2024	INTRODUCTION, LINK AND KINEMATICS PAIR, KINEMATIC CHAIN, MECHANISM & MACHINE
	17.01.2024	LOWER PAIR AND HIGHER PAIR ,
	18.01.2024	FOURBAR MECHANISM , INVERSION,
	22.01.2024	PROBLEMS SOLVED
Week-2	23.01.2024	CAM AND FOLLOWER
	25.01.2024	ASSIGNMENT
	29.01.2024	CH-2 FRICTION BETWEEN NUT AND SCREW FOR SQUARE THREAD , SCREW JACK
	30.01.2024	BEARING & ITS CLASSIFICATION, SINGLE AND MULTIPLE COLLAR BEARING
Week-3	31.01.2024	BEARING , ROLLER BEARING, MIDDLE ROLLER BEARING, BALL BEARING
	01.02.2024	TRANSMISSION IN FLAT PIVOT BEARING.
	02.02.2024	TRANSMISSION IN CONICAL PIVOT BEARING
	05.02.2024	FLAT COLLAR BEARING
Week-4	06.02.2024	TORQUE TRANSMISSION SINGLE AND MULTIPLE CLUTCH
	08.02.2024	PROBLEMS SOLVED
	09.02.2024	SIMPLE FRICTIONAL BREAK & ABSORPTION TYPE DYNAMOMETER.
	12.02.2024	CLASS TEST
Week-5	13.02.2024	CH-3 CONCEPT OF POWER TRANSMISSION, TYPES OF DRIVES
	16.02.2024	TYPES OF DRIVES- BELT, GEAR & CHAIN DRIVE
	19.02.2024	CROSS BELT DRIVE,
	21.02.2024	OPEN BELT DRIVE.
Week-6	22.02.2024	RATIO OF TENSION, CENTRIFUGAL TENSION, INITIAL TENSION.
	24.02.2024	POWER TRANSMISSION BY BELT
	26.02.2024	V-BELTS AND V-BELT PULLEY
	27.02.2024	FAST AND LOOSE PULLEY
Week-7	28.02.2024	CROWNING OF PULLEY
	29.02.2024	GEAR DRIVE AND TERMINOLOGY
	01.03.2024	SIMPLE GEAR TRAIN & COMPOUND GEAR TRAIN
	04.03.2024	EPICYCLIC GEAR TRAIN, REVERTED GEAR TRAIN
Week-8	05.03.2024	CH-4 GOVERNOR AND IT'S CLASSIFICATION
	07.03.2024	WATT GOVERNOR
	11.03.2024	PORTER GOVERNOR
	13.03.2024	PROELL GOVERNOR

Week-9	14.03.2024	HARTNEL GOVERNOR
	15.03.2024	SENSITIVITY & STABILITY, ISOCHRONISM
	18.03.2024	FLY WHEEL, COMPARISON BETWEEN FLYWHEEL & GOVERNOR
Week-10	20.03.2024	FLUCTUATION OF ENERGY
	21.03.2024	CO EFFICIENT OF FLUCTUATION OF SPEED
	22.03.2024	PROBLEM SOLVED
	27.03.2024	PROBLEM SOLVED
Week-11	28.03.2024	REVISION OF TOPIC PREVIOUSLY TAUGHT
	29.03.2024	CONCEPT OF STATIC & DYNAMIC BALANCING
	30.03.2024	STATIC BALANCING OF ROTATING PARTS
	01.04.2024	PRINCIPLE OF BALANCING OF RECIPROCATING PARTS
Week-12	03.04.2024	INTERNAL ACCESSMENT
	04.04.2024	DIFFERENCE OF STATIC BALANCING & DYNAMIC BALANCING
	08.04.2024	RELATED PROBLEM SOLVED
	09.04.2024	CH-5 INTRODUCTION TO VIBRATION AND RELATED TERMS
Week-13	10.04.2024	CLASSIFICATION OF VIBRATION
	11.04.2024	NATURAL ,FORCED, DAMPED VIBRATION
	12.04.2024	TORSIONAL, LONGITUDINAL VIBRATION
	15.04.2024	CAUSE & REMEDIES OF VIBRATION
Week-14	16.04.2024	SOLVED PROBLEMS
	19.04.2024	CH-1 REVISION & IMP QUESTION DISCUSSION
	20.04.2024	CH-2 REVISION & IMP QUESTION DISCUSSION
	22.04.2024	CH-3 REVISION & IMP QUESTION DISCUSSION
Week-15	23.04.2024	CLASS TEST
	24.04.2024	CH-4 REVISION & IMP QUESTION DISCUSSION
	25.04.2024	CH-5 REVISION & IMP QUESTION DISCUSSION




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