



## LESSON PLAN-(SUMMER-2024)

### SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

<b>Discipline- MECHANICAL</b>	<b>Semester-4TH</b>	<b>Name of teaching faculty- Er. Kunal Pradhan</b>
<b>Subject- TOM</b>	<b>No class allotted/ per week -4</b>	<b>SEM From date- 16.01.2024 TO 26.04.2024 No of weeks- 15</b>
<b>Week</b>	<b>Class day</b>	<b>Theory Topics</b>
<b>Week-1</b>	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
<b>Week-2</b>	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
<b>Week-3</b>	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
<b>Week-4</b>	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
<b>Week-5</b>	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.
<b>Week-6</b>	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
<b>Week-7</b>	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
<b>Week-8</b>	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

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Week-9	14.03.2024	HARTNEL GOVERNOR
	15.03.2024	SENSITIVITY & STABILITY, ISOCHRONISM
	18.03.2024	FLY WHEEL, COMPARISON BETWEEN FLYWHEEL & GOVERNOR
	20.03.2024	FLUCTUATION OF ENERGY
Week-10	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 RACIPROCATING PARTS
Week-12	03.04.2024	INTERNAL ACCESSIONMENT
	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
	26.04.2024	CLASS TEST

  
HOD SIGN.

  
DEAN (Academic) SIGN.

  
PRINCIPAL SIGN.

H.O.D  
Mechanical Engineering  
S V S.E.T., Madanpur

DEAN ACADEMICS  
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