



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

<b>Discipline- MECHANICAL</b>	<b>Semester-4TH</b>	<b>Name of teaching faculty- Er. Babuli Kumar Jena</b>
<b>Subject- TOM</b>	<b>No class allotted/ per week -4</b>	<b>SEM From date- 13/02/2023 TO 23.5.2023 No of weeks- 15</b>
<b>Week</b>	<b>Class day</b>	<b>Theory Topics</b>
<b>Week-1</b>	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
<b>Week-2</b>	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
<b>Week-3</b>	27.02.2023	BEARING , ROLLER BEARING, MIDDLE ROLLER BEARING, BALL BEARING
	28.02.2023	TRANSMISSION IN FLAT PIVOT BEARING.
<b>Week-4</b>	2.03.2023	TRANSMISSION IN CONICAL PIVOT BEARING
	3.03.2023	FLAT COLLAR BEARING
	6.03.2023	TORQUE TRANSMISSION SINGLE AND MULTIPLE CLUTCH.
	9.03.2023	PROBLEMS SOLVED
<b>Week-5</b>	10.03.2023	SIMPLE FRICTIONAL BREAK & ABSORPTION TYPE DYNAMOMETER.
	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
<b>Week-6</b>	27.03.2023	CROSS BELT DRIVE,
	28.03.2023	OPEN BELT DRIVE.
	29.03.2023	RATIO OF TENSION, CENTRIFUGAL TENSION, INITIAL TENSION.
	31.03.2023	POWER TRANSMISSION BY BELT
<b>Week-7</b>	3.04.2023	V-BELTS AND V-BELT PULLEY
	5.04.2023	FAST AND LOOSE PULLEY
	6.04.2023	CROWNING OF PULLEY
	11.04.2023	GEAR DRIVE AND TERMINOLOGY
<b>Week-8</b>	12.04.2023	SIMPLE GEAR TRAIN & COMPOUND GEAR TRAIN
	13.04.2023	EPICYCLIC GEAR TRAIN, REVERTED GEAR TRAIN
	17.04.2023	CH-4 GOVERNOR AND IT'S CLASSIFICATION
	19.04.2023	WATT GOVERNOR
<b>Week-9</b>	20.04.2023	PORTER GOVERNOR
	24.04.2023	PROELL GOVERNOR
	25.04.2023	HARTNELL GOVERNOR
	26.04.2023	SENSITIVITY & STABILITY, ISOCHRONISM
<b>Week-10</b>	27.04.2023	FLY WHEEL, COMPARISON BETWEEN FLYWHEEL & GOVERNOR
	28.04.2023	FLUCTUATION OF ENERGY
	01.05.2023	CO EFFICIENT OF FLUCTUATION OF SPEED
	02.05.2023	PROBLEM SOLVED
<b>Week-11</b>	03.05.2023	PROBLEM SOLVED
	04.05.2023	REVISION OF TOPIC PREVIOUSLY TAUGHT
	08.05.2023	CONCEPT OF STATIC & DYNAMIC BALANCING
	10.05.2023	STATIC BALANCING OF ROTATING PARTS
<b>Week-12</b>	11.05.2023	PRINCIPLE OF BALANCING OF RECIPROCATING PARTS
	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
<b>Week-13</b>	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.