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DISCIPLINE SEM		ESTER		NAME OF THE TEACHING FACULTY				
MECHANICAL ENGG. 6								
MICCHAINCAL ENGG. 6		th	h SRI. SAGAR KUMAR BEHERA,LECT.,MECH.					
SUBJECT:INDUSTRIAL ENGG		NO. OF DAYS PER WEEK CLASS ALLOTED:		SEMESTER FROM 15/04/2021				
AND MANA	GEMENT.		CLASS AL	LOTED;	NO. OF WEEKS : 16 NOS.			
WEEKS	CLASS DAYS		THEORY TOPICS					
	1ST		Selection of Site of Industry					
	21	ND	Define plant layout.					
157 14/554	3RD		Describe the objective and principles of plant layout					
1ST WEEK	4TH		Explain Process Layout, Product Layout					
-	1ST		Explain Combination Layout					
}	2ND		Techniques to improve layout.					
2NDWEEK	3RD			Principles of m	aterial handling equipment,Plant Maintenance			
ZIADAAEEK		TH .			mportance of plant maintenance			
}	21	ST		Break do	wn maintenance, Preventive maintenance			
ł					Scheduled maintenance			
3RDWEEK	3RD 4TH				to Operations Research and its applications			
J. TO TVEEK				De	fine Linear Programming Problem			
ŀ	1ST 2ND		DO					
ł	2ND 3RD			Solution of L.P.P. by graphical method.				
4THWEEK	3KU 4TH		DO Evaluation of Project and Indian to the Carlot of Park and A PERT					
·············	15T		Evaluation of Project completion time by Critical Path Method and PERT					
1	2ND		DO Simple Brohlems on About					
1		3RD		Simple Problems on Above				
STHWEEK	41		Explain distinct features of PERT with respect to CPM.  DO					
		1ST		Classification of inventory				
ŀ	21		•					
ŀ	3R		Objective of inventory control  Describe the functions of inventories.					
6THWEEK		4TH		Benefits of inventory control				
***************************************	1ST		Costs associated with inventory.					
1	2ND		Terminology in inventory control					
ŀ	3RD		Explain and Derive economic order quantity for Basic model					
7THWEEK	4TH		DO					
ZITIVEEK	15		Numericals on above					
	2N				Define and Explain ABC analysis.			
	3R				fine Inspection and Quality control			
STH WEEK	4T				Describe planning of inspection			
DITT WEEK	15				Describe types of inspection.			
	2N			Advanta	ges and disadvantages of quality control.			
1	3R			Study of fact	tors influencing the quality of manufacture.			
THWEEK	4T		Explain	the Concept of statis	stical quality control, Control charts (X, R,P and C - charts).			
	15		Methods of attributes					
	2N		Concept of ISO 9001-2008.					
-	3R		Quality management system, Registration /certification procedure.					
OTHWEEK	4T		Benefits of ISO to the organization.					
-	1ST		JIT, Six sigma,					
	2ND		7S, Lean manufacturing					
	3R		Solve related problems					
L1THWEEK	4TH		DO DO					
	15			DO				
	2ND		INTRODUCTION ON PRODUCTION PLANNING AND CONTROL					
	3R				ctions of production planning and control			
2THWEEK	4TI			•	Methods of forecasting			

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	1ST		
	2ND	Routing	
	3RD	Scheduling	
3THWEEK	4TH	Dispatching	
	1ST	Controlling	
	2ND	Types of production	
	3RD	Mass production	
4THWEEK	4TH	Batch production	
	1ST	Job order production	
	2ND	Principles of product and process planning.	
	3RD	DO	
STHWEEK	4TH	DO	
	1ST	DO	
	2ND		
	3RD		
6THWEEK	4TH		

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DISCIPLINE SEMES		STER NAME OF THE TEACHING FACULTY					
MECHANICAL ENGG. 61		6th	1		SRI. MANOJ KUMAR DAS,PTGF,MECH.		
		NO. OF	DAYS PER WEEK	SEMESTER FROM 15/04/2021			
UBJECT:AUTOMOBILE_ENGG.				NO. OF WEEKS : 16 NOS.			
VEEKS CLASS DAYS					THEORY TOPICS		
L	1ST		Automobiles: Definition, need and classification				
L	2	ND		Layout of automobile chassiswith major components (Line diagram)			
L	3	RD	Clutch System: Need, Types (Single & Multiple)				
ST WEEK	4TH		Working principle Of Clutch with sketch				
-	1ST		3 Gear Box: Purpose of gear box				
-	2ND		Construction and working of a 4 speed gear box				
	3RD		Concept of automatic gear changing mechanisms				
NDWEEK		TH		Propell	er shaft: Constructional features		
}		ST			DO Need of Differential		
ł	2ND 3RD				Need of Differential Types of Differential		
BRDWEEK		TH		Wo	rking Principle of Differential		
SKOVELK		ST			tems in automobiles: Need and types		
ł		ND	<del> </del>	Draking syst	Mechanical Brake		
1		RD		Δ	ir assisted Hydraulic Brake		
4THWEEK		TH			Vacuum Brake		
		IST			Hydraulic Brake		
	2	ND		D	escribe the Battery ignition		
	3	RD			Magnet ignition system		
<b>STHWEEK</b>	-	ITH		9	specifications of Spark plug		
		1ST	common ignition troubles of spark plug				
	2ND		Remedies of spark plug				
	3RD		Description of the conventional suspension system for Rear and Front axle				
<b>6THWEEK</b>		4TH	Descripti	on of independent sus	pension system used in cars (coil spring and tensionbars		
		1ST	Constructional features and working of a telescopic shock absorber				
	:	ND			DO		
		BRD			DO		
7THWEEK		4TH	1	Engine	cooling: Need and classification		
		1ST	-		Describe defects of cooling		
		2ND			al Measures of Defects of cooling		
		3RD	-		ribe the Function of lubrication		
8TH WEEK	-	4TH	4	Describe	the lubrication System of I.C. engine		
		1ST	-		DO		
		2ND 3RD	+		DO		
07: UA/FFI/		4TH	-		DO		
9THWEEK		1ST	-	Docariba	Describe Air fuel ratio		
		2ND	Describe Carburetion process for Petrol Engine				
		3RD	Describe Multipoint fuel injection system for Petrol Engine  Describe the working principle of fuel injection system for multi cylinder Engin				
10THWEE		4TH	1 203	cribe the working princ	Filter for Diesel engine		
TOTHVELL	1	1ST	+	Describe th	e working principle of Fuel feed pump		
		2ND		2001100 111	Fuel Injector for Diesel		
į.		3RD			DO		
11THWEE		4TH	1		DO		
TTIMATE	1	1ST	DO				
		2ND	<del> </del>	Ir	stroduction Of Hybrid Vehicle		
		3RD			vironmental importance of Hybrid vehicle		
12THWEE		4TH	1		ronmental importance of Electrical vehicle		
TEINANEE	1	1ST			escription of Electric Vehicles		
	-	2ND	operational advantages of Electric Vehicle				
		3RD			nt performance of Electric Vehicle		
13THWEE	k	4TH		aį	pplications of Electric Vehicles		
		1ST			Battery for Electric Vehicles		
,		2ND	, J. I III	MILLIAN SERVICE	Battery types and fuel cells		
1		3RD		H	ybrid vehicles, Types of Hybrid		
1	к	4TH		EI	ectric Vehicles: Parallel, Series		

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_	1ST	Described and the second secon	
	2ND	Parallel and series Configuration	
	3RD	Drive train	
15THWEEK		Solar powered vehicles	
	4TH	Revision	
	1ST		
	2ND		
	3RD		
16THWEEK	4TH		

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DISCIPLINE SEME		STER	NAME OF THE TEACHING FACULTY						
MECHANICAL ENGG. 6th		h	SRI. BIPIN KUMAR DASH						
					CENAPETED E	ROM 15/04/2021			
SUBJECT:POWER STATION				SEMESTER	NO. OF WEEKS : 16 NO				
NGINEERIN			NO.	NO. OF DAYS PER WEEK CLASS ALLOTED : 04 NO. OF WEEKS . 10 THEORY TOPICS					
NEEKS	CLASS DAYS								
-	1ST			INTRODUCTION TO POWER PLANT E	DAD CURVE				
-	2ND			DESCRIBE SOURCES OF ENERGY, LOAD CURVE  EXPLAIN CONCEPT OF CAPTIVE AND CENTRAL POWER PLANT					
		RD		THE PROPERTY OF THE PERSONAN	CF PARAMETEKS				
1ST WEEK		TH	CLASSIFY POWER PLANT, PERFORMANCE PARAMETERS  IMPORTANCE OF ELECTRICAL POWER IN DAY TODAY LIFE, OVERVIEW METHOD OF						
-	1ST								
2NDWEEK	2ND			DWER CYCLE, CARNOT VAPOUR POWER CYCLE	P-V,T-S,H-S DIAG	RAM),THERMAL			
-1 -	3RD		STEAM PO	RANKINE CYCLE(P-V,T-S,H-S DIAGRAM), T	HERMAL EFFICIEN	NCY			
	4TH			WORK DONE, WORK RATIO, SPECIFIC STE	AM CONSUMPTI	ON			
	1ST			NUMERICAL PROBLEMS BASED ON F	ANKINE CYCLE				
3RDWEEK	2ND			REHEAT CYCLE AND RELATED NUMER	CAL PROBLEMS				
}		RD		REGENERATIVE CYCLE AND RELATED NU	MERICAL PROBLE	M			
	4TH 1ST			COMPLNATION OF PEHAFT AND REGE	NERATIVE CYCLE	- III			
			LIST O	THERMAL POWER STATIONS IN THE STATE V	ITH THEIR CAPA	CITIES,BOILER			
4THWEEK		ND	LISTO	AID DECHEATER ECONOMISER, ESP,	SUPERHEATER.				
}	3RD 4TH			DRAUGHT SYSTEM, ADVANTAGES AND	DISADVANTAGE	S			
				PERFORMANCE OF STEAM TURBINE	ND EFFICIENCY				
ŀ	1ST 2ND			NUMERICAL PROBLES ON STEAT	/I TURBINE				
ŀ		BRD		STEAM CONDENSER, CLASSIFICATION O	N STEAM TURBI	NE			
STHWEEK	4TH		JET AND SURFACE CONDENSER AND AUXILIARIES						
3111002211	15T			FUNCTION AND TYPES OF COOLING TOWER (CT)					
1		ND		NATURAL DRAFT COOLING TOWER AND M	ECHANICAL DRA	FT CT			
- 1		BRD		CONCEPT OF NUCLEAR FUSSION AND	ISSION REACTIO	N			
6THWEEK		4TH		CLASSIFICATION OF NUCLEAR FUEL, N	UCLEAR REACTO	R			
		1ST	= -	NUCLEAR REACTOR, MODERATOR, REFLECTOR, SHIELDING					
		ZND		REACTORY VESSEL, COOLANT, CONTROL	ROD, LINE DIAGI	KAM			
		3RD		WORKING PRINCIPAL OF					
7THWEEK		4TH		WORKING PRINCIPAL OF					
	7-V	1ST	4.00	WORKING PRINCIPLE OF					
		ZND	10.7	DIFFERENCE BETWEEN PWR	AND BWK	DIANT			
		3RD	COL	COMPARISON BETWEEN NUCLEAR AND THERMAL POWER PLANT					
8THWEEK		4TH		NUCLEAR WASTE DISPO					
	1ST		REVISION OF THERMAL POWER PLANT						
	2ND		REVISION OF NUCLEAR POWER PLANT INTRODUCTION OF DIESEL ENGINE POWER PLANT (DEPP)						
		3RD		INTRODUCTION OF DIESEL ENGINE PO	WER PLANT (DE				
<b>9THWEEK</b>	7 1	4TH		CONSTRUCTION AND WORKING PR					
	1ST		ADVANTAGE AND DISADVANTAGE OF DEPP						
		2ND	DIFFERENT SYSTEM OF DIESEL POWER PLANT DIFFERENT SYSTEM OF DIESEL POWER PLANT						
		3RD	11. 9-1						
10THWEEK		4TH	Lucier I	FUEL STORAGE AND FUEL SUP					
		1ST	LUBRICATION SYSTEM, STARTING SYSTEM						
		2ND		STARTING SYSTEM					
		3RD	GOVERNING SYSTEM						
11THWEEK		4TH	REVISION OF DIESEL ENGINE POWER PLANT						
	1ST		INTRODUCTION TO HYDROELECTRIC POWER PLANT						
		2ND	DIFFERENT COMPONENT OF HYDROELECTRIC POWER PLANT						
	3RD		DIFFERENT COMPONENT OF HYDROELECTRIC POWER PLANT						
12THWEEK			ADVANTAGE AND DISADVANTAGE OF HYDROELECTRIC POWER PLANT WORKING PRINCIPLE OF HYDROELECTRIC POWER PLANT						
	1ST		110			NA I			
	2ND		1	REVISION OF HYDROELECTRIC P					
		3RD	1	REVISION OF CHAPTE					
13THWEEK		4TH		RANKINE, REHEAT, REGENERA					
		1ST	16	NUMERICAL PROBLEM					
		2ND		NUMERICAL PROBLEM	DOLVE				

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Γ	3RD	NUMERICAL PROBLEM PRACTICE
4THWEEK	4TH	NUMERICALS ON STEAM TURBINE
	1ST	NUMERICALS ON STEAM TURBINE
	2ND	NUMERICALS ON STEAM TURBINE
	3RD	PREVIOUS YEAR QUESTION PAPER PRACTICE
LSTHWEEK	4TH	PREVIOUS YEAR QUESTION PAPER PRACTICE
	1ST	SAMPLE SET PRACTICE AND DOUBT CLEAR CLASS
	2ND	SAMPLE SET PRACTICE AND DOUBT CLEAR CLASS
	3RD	SAMPLE SET PRACTICE AND DOUBT CLEAR CLASS
16THWEEK	4TH	SAMPLE SET PRACTICE AND DOUBT CLEAR CLASS
	1ST	
	2ND	
	3RD	
17THWEEK	4TH	

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U.S.		SEMESTER 6th	NAME OF THE TEACHING FACULTY SRI. SAKTI RANJAN BHUYAN			
ECHAINCAL	Elitoo.		D. 110			
UBJECT:ADVANCED MANUFACTURING PROCESS.		l ALLC	DAYS PER WEEK CLASS DTED:04	SEMESTER FROM 15/04/2021		
ANUFACTUR	CLASS I	CESS.		NO.OF WEEKS :16 NOS.		
EEKS	CLASS			THEORY TOPICS		
-	157		INT	RODUCTION TO CAD-CAM LAB		
-	2NI		DESCRIBE VARIOUS N	NON TRADITIONAL MANUFACTURING PROCESS		
	3RI 4TI		ELECTRO CHEMICAL MACHINING PROCESS ELECTRO CHEMICAL MACHINING PROCESS			
ST WEEK	15		ELECTRO CHEMICAL MACHINING PROCESS  ELECTRO CHEMICAL MACHINING PROCESS			
			ELECTRO CHEMICAL MACHINING PROCESS			
-	2ND 3RD		ELECTRO DISCHARGE MACHINING PROCESS -DO-			
NDWEEK	4T			-DO-		
NDVVELK	15		PIΔ	SMA ARC MACHINING PROCESS		
-	2N			-DO-		
<u> </u>	3R			-DO-		
DDWEEK -	4T		LAS	ER BEAM MACHINING PROCESS		
RDWEEK	15			-DO-		
-				-DO-		
-	2ND 3RD		ABRASIVE JET MACHINING PROCESS			
THWEEK	41			-DO-		
HINVELK	19		-DO-			
	21	ND .	ELECTRON BEAM MACHINING PROCESS			
	3F	RD	-DO-			
STHWEEK	47	ГН	REVISION OF CHAPTER-1			
,,,,,,	1:	ST	REVISION OF CHAPTER-1			
	21	ND	REVISION OF CHAPTER-1			
	31	RD	CONCERT OF AUTOMATION			
6THWEEK	4	TH	AND EXPLANATION			
	1	ST	DESCRIPTIO	ON OF VARIOUS TYPES OF ACTORIA		
		ND	ALEED OF ATTIONATION			
		RD	CONC	EPTOF NUMERICAL CONTROL (NC)		
7THWEEK		TH				
_		ST	- AVOTEAN WITH BILDER DIV			
L		ND	DESCRIPTION OF TYPES OF ICE OF ORDINATE			
,		RD TH	DESCRIPTION OF TYPES OF NC CO-ORDINATE  EXPLANATION OF POINT-TO-POINT NC CO-ORDINATE  EXPLANATION OF STRAIGHT CUT NC CO-ORDINATE  EXPLANATION OF CONTOURING			
8THWEEK		ST	EXPLANAT	ION OF STRAIGHT COTTO		
-			CONCEPT OF NC PART PROGRAMMING			
-	2ND 3RD		CONCEPT OF NC PART PROGRAM			
9THWEEK	4711		AA CODE			
GIHWEEK		IST	CODE AND M-CODE			
, F	2	ND				
-	3	RD				
10THWEEK	4	TH	SIMPLE PART PROGRAM FOR LATHE SIMPLE PART PROGRAM FOR LATHE			
	1	IST	EXPLAIN THE EXTENSION OF NC WITH DECEMBER			
	2ND		DNC DNC			
	3RD		CALC DIFFERNCE BETWEEN DNC AND CNC			
11THWEEK	K 4TH		ADADTIVE CONTROL			
	1ST		APPLICATION OF ROBOTS			
	2ND		POROT ANATOWIT			
[	3RD		OT CONFIGURATION			
12THWEEK		ITH				
		IST	EXPLANAT	TION OF VARIOUS TIPES OF THE STATE OF T		
	2ND		LAI LA III	TION TO FLEXIBLE MANUFACTURING STATES		

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EFK	4TH	NEED FOR FMS
THWEEK	1ST	EXPLAIN THE COMPONENTS OF FMS, PROCESSING STATION
-	2ND	MATERIAL HANDLING AND STORAGE AND COMPUTER CONTROL SYSTEM
	3RD	REVISION OF FMS
14THWEEK	4TH	DEFINE CAD, CAM SOFTWARE AND HARDWARE
141711	1ST	EXPLAIN BENEFITS OF CAD, CAM SOFTWARE AND HARDWARE
	2ND	BENEFITS OF CAM
1 1	3RD	DIFFERENTIATION BETWEEN CAD AND CAM
15THWEEK	4TH	EXPLAIN THE CONCEPT
-	1ST	SOFTWARE AND HARDWARE OF CIM
	2ND	REVISION CLASS
1 1	3RD	REVISION CLASS
16THWEEK	4TH	REVISION CLASS

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