UTKAL INSTITUTE OF ENGINEERING & TECHNOLOGY

DISCIPLINE: **Electrical Engineering**	SEMESTER: **3rd Sem**	**NAME OF THE TEACHING FACULTY: Er .Kalakar Mohanty**		
SUBJECT: **Elements of Mechanical Engineering**	No of Days/Per week class allotted: **4** Class P/W**(60)**	Semester From Date:15/09/2022 To Date:22/12/2022 No. Of Weeks: **15**		
WEEK	**CLASS DAY**	**THEORY TOPICS**	**REMARKS**	
1st	1st	**State unit of Heat and work,1st law of thermodynamics**	Date	Dean/Principal
	2nd	State Laws of perfect gases		
	3rd	Determine relationship of specific heat of gases at constant volume and constant pressure.		
	4th	Revision of last Class		
2nd	1st	Use steam table for solution of simple problem		
	2nd	Explain total heat of wet, dry and super heated steam		
	3rd	State types of Boilers		
	4th	Revision of last few Classes		
3rd	1st	Describe Cochran, Babcock Wilcox boiler		
	2nd	Describe Mountings and accessories		
	3rd	Explain the principle of Simple steam engine		
	4th	Draw Indicator diagram		
4th	1st	**Calculate mean effective pressure,IHP and BHP and mechanical efficiency**		
	2nd	Solve simple problem		
	3rd	STEAM TURBINES:State Types		
	4th	Differentiate between impulse and reaction Turbine		

	1st	Assignment		
5th	2nd	**Doubt Cler Class**		
	3rd	Assignment question discussion		
	4th	Doubt clear class		
	1st	Explain the function of condenser		
6th	2nd	State their types		
	3rd	Revision last class		
	4th	**Doubt clear class**		
	1st	Explain working of two stroke and 4 stroke petrol and Diesel engines.		
7th	2nd	Revision of Last class		
	3rd	Explain working of two stroke and 4 stroke petrol and Diesel engines.		
	4th	Revision of Last Classes		
	1st	Differentiate between two stroke and 4 stroke petrol and Diesel engines.		
8th	2nd	Doubt Clear class		
	3rd	Assignment		
	4th	Doubt Clearing Class and Assignment Questions Discussion.		
	1st	Describe properties of fluid		
9th	2nd	Describe properties of fluid		
	3rd	Revision Class About properties of fluid		
	4th	Doubt clear class		
	1st	Class Test		
	2nd	Note book check		
10th	3rd	Determine pressure at a point, pressure measuring Instruments		
	4th	Determine pressure at a point, pressure measuring Instruments		
	1st	**Assignment**		
	2nd	Assignment question discussion		

11th	3rd	Deduce equation of continuity of flow		
	4th	Deduce equation of continuity of flow		
12th	1st	Doubt clear class		
	2nd	Explain energy of flowing liquid		
	3rd	Explain energy of flowing liquid		
	4th	State and explain Bernoulli's theorem		
13th	1st	Class Test		
	2nd	**Internal question Discussion**		
	3rd	Revision		
	4th	HYDRAULIC DEVICES AND PNEUMATICS		
14th	1st	Intensifier		
	2nd	Hydraulic lift		
	3rd	Hydraulic lift		
	4th	Doubt clear class		
15th	1st	Accumulator		
	2nd	Accumulator		
	3rd	Hydraulic ram		
	4th	Giving Assignment For Semester Exam And Previous Year Question Discussion.		

Chittaranjan Parida

HOD

Chittaranjan Parida

DEAN

PRINCIPAL