LESSON PLAN-WINTER 2023 SWAMI VIVEKANANDA SCHOOL OF ENGINEERING & TECHNOLOGY, BBSR		
DISCIPLINE-	**SEMESTER- 3RD**	**NAME OF THE FACULTY: ER. Abhijit Chand**
SUBJECT:-Thermal Engineering.	**NO. OF CLASS ALLOTED/ PER WEEK-5**	**SEM. From date: 01.08.2023 TO 30.11.2023 No. of weeks:19th**
WEEK	**CLASS DAY**	**Theory Topic**
1ST	1.08.2023	Thermodynamic concept and Terminology.
	2.08.2023	Thermodynamics System(Closed,open,isolated)
	3.08.2023	Thermodynamic properties of a
	4.08.2023	Thermodynamic properties of a system(Entropy,Enthalpy,Internal
	5.08.2023	Intensive and extensive properties
2ND	7.08.2023	Thermodynamic Equilibrium.
	9.08.2023	Quasi-static process
	10.08.2023	Conceptual explanation of energy and its sources.
	11.08.2023	Work, heat, and comparision between the two.
3RD	14.08.2023	Mechanical equivalent of heat.
	16.08.2023	Work transfer,Displacement work.
	18.08.2023	Simple Problems
4TH	21.08.2023	DO.
	22.08.2023	Laws of Thermodynamics.
	24.08.2023	State and explain First law of thermodynamics.
	25.08.2023	Limitation of First of law of thermodynamics.
5TH	28.08.2023	applicaion to turbine and compressor
	29.08.2023	Second law of thermodynamics.(Claucius and kelvin plank
	30.08.2023	Application of second law in heat engine ,heat pump.refrigerator.
6TH	1.09.2023	Determination of efficiencies and COP(Solve simple numerical)
7TH	4.09.2023	Simple Problems
	5.09.2023	Simple Problems
	8.09.2023	Properties process of perfect gas.
	9.09.2023	Laws of perfect gas.
8TH	11.09.2023	Boyle's Law,Charle's law,Avogadro's law,Dalton's law of partial
	12.09.2023	Gay Lussac law,General gas equation,Characteristic gas
	13.09.2023	Assignment 1
	14.09.2023	Explain specific heat of gas.(Cp and Cv).
	15.09.2023	Relation between Cp and Cv.
9TH	18.09.2023	Enthalpy of a gas.
	21.09.2023	Workdone during a non-flow process.
	22.09.2023	Isothermal,Isobaric,Isentropic,and polytropic process.
	23.09.2023	Solve simple problems on above.
10TH	25.09.2023	Free expansion and trottling processs.
	29.09.2023	**Monthly Test**
11TH	3.10.2023	DO
	5.10.2023	Internal Combution Engine.
12TH	9.10.2023	Explain and classify I.C Engine.
	11.10.2023	**Internal Accessment**
	13.10.2023	Classify IC engine
	17.10.2023	Terminology of I.C Engine (Bore, dead centers)

13TH	19.10.2023	Terminology of I.C Engine (Stroke Volume, Piston speed and RPM)
14TH	28.10.2023	CI & SI engine, Working principle of 2 stroke and 4 stroke engine
15TH	3.11.2023	CI & SI engine, Working principle of 2 stroke and 4 stroke engine
	6.11.2023	Differentiate between 2-stroke and 4-stroke engine C.I and S.I
16TH	8.11.2023	Differentiate between 2-stroke and 4-stroke engine C.I and S.I
	10.11.2023	Carnot Cycle
17TH	14.11.2023	Otto cycle, Diesel Cycle
	16.11.2023	Dual Cycle
	18.11.2023	Solve Simple Numerical
18TH	22.11.2023	Solve Simple Numerical
	24.11.2023	Fuel, Types of Fuel
	25.11.2023	Application of different type of fuel
19TH	27.11.2023	Heating values of fuel
	29.11.2023	Quality of I.C engine Fuels
	30.11.2023	Octane number and Cetane Number
HOD SIGN		PRINCIPAL

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