

LESSON PLAN- B.Sc 3rd SEMESTER**Session: 2022-23**

Name of teacher- Dr. Naveen Kumari, Assistant Professor

Subject- Physics (PHY-301) Computer Programming and Thermodynamics

CLASS	WEEKS	SYLLABUS
B.Sc 3rd Semester	24-7-2023 to 29-7-2023	UNIT 1: Computer organization, Binary representation, Algorithm development
	31-7-2023 to 5-8-2023	Flow chart and their interpretation, Integer and floating point arithmetic expression
	7-8-2023 to 12-8-2023	Built in functions, Executable and Non-executable statements, I/O statements
	14-8-2022 to 19-8-2023	Formats, IF, DO, GOTO statements
	21-8-2023 to 26-8-2023	Dimension arrays statement function and function subprogram Test Unit 1
	4-9-2023 to 9-9-2023	UNIT 2: Second law of thermodynamics, Carnot theorem, Absolute scale of temperature
	11-9-2023 to 16-9-2023	Entropy, T-S diagram, Nernst heat law, joule's free expansion
	18-9-2023 to 23-9-2023	Joule Thomson (Porous Plug Experiment), Joule -Thomson effect

	25-9-2023 to 30-9-2023 2-10-2023 to 7-10-2023 9-10-2023 to 14-10-2023	liquefaction of gases Air pollution due to internal combustion engine Test Unit 2 and assignment
	16-10-2023 to 21-10-2023 23-10-2023 to 28-10-2023 30-10-2023 to 4-11-2023	UNIT 3: Derivation of Clausius -Clapeyron latent heat equation, Phase diagram and triple point of a substance Development of maxwell thermodynamic relations and thermodynamic functions (U, F, H, G) Applications of Maxwell relations
	6-11-2023 to 9-11-2023 10-11-2023 to 16-11-2023 17-11-2023 to 24-11-2023 25-11-2023 onwards	Assignments, Viva, Diwali Break Test, Revision MDU examination