

कक्षा : BSc Sem III		प्रमाणित योजना का नाम : 2019-20			विषय : PHY-103
दिनांक	व्याख्यान सं.	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
16/7/25	01 SKT	SKT.	PHY-103F	PART B. DC & AC Circuit.	LR Circuits, Charging & Discharging of C, in RC, LC & RCL circuit.
17/7/25	02 AV	AV	"	PART A. Zeroth and 1st Law of Thermodynamics	Terminology of Thermodynamics. Entropy and Physical meaning. Entropy change in therm. process.
18/7/25	02	AV	"	"	Zeroth Law and temperature. Work done in Therm. processes. Enthalpy C_p & C_v Relation.
19/7/25	03	AV	"	"	Carnot Engine, Efficiency. Carnot theorem.
21/8/25	02	SKT.	"	DC and AC Circuit.	Network analysis, Superposition, Reciprocity, Norton and Thevenin Theorem.
22/7/25	03	"	CT	CT	CT/Minor.
23/7/25	04	SKT.	PHY 103F	DC and AC Circuit	AC-Bridges : Maxwell, Owen's, Anderson's,
24/7/25	04	AV	"	Zeroth and first Law.	Otto and diesel Engine and efficiency.
25/7/25	05	AV	"	Second Law of Thermodynamics.	Second Law statement - Clausius inequality
26/7/25	06.	AV	"	"	Entropy and its Physical meaning.
28/7/25	05	SKT	"	Semi Conductors and Diode.	P and N type Semi Conductor. Fermi level.
29/7/25	06	"	CT	CT.	CT/Minor.
30/7/25	07	"	PHY 10F	Semi Conductors and Diode.	Depletion layer. Field and Potential at depletion layer.

31/7/25	07	AV	PHY 103F	Second and Third Law of Thermodynamics	Third Law of Thermodynamics, Unattainability of Absolute zero.
1/8/25	08	AV	"	"	Thermodynamical Potential, Maxwell Relation.
2/8/25	09	"	"	"	Stability of process, and Equilibrium System.
4/8/25	08	SKT.	"	Semiconductors and Diode.	Biasing of P-N Junction. Current flow in FB. and Rev. Biasing of Junction.
5/8/25	09	SKT	CT.	CT	Minor/CT.
6/8/25	10	"	PHY 103F	Diode and Semiconductors.	Characteristics of Diode. Dynamical Resistance.
7/8/25	10	AV	"	Second and 3rd Law of Therm.	Condition of feasibility of process.
8/8/25	11	"	"	"	Clausius - Clapeyron Equation, Joule Thompson coefficient.
11/8/25	11	SKT.	PHY 103F	Semiconductor and Diode.	Zener Diode : principle Application, characteristics.
12/8/25	12	"	"	"	Tunnel, LED, Point Contact and Photo-diode.
13/8/25	13	"	CT	CT.	CT/minor.
14/8/25	12	AV	PHY 103F	Second and 3rd Law of Thermodynamics	Joule Thompson & T. Inversion.
18/8/25	14	SKT	"	Semiconductors and Diode.	Half and full wave Rectifier. Ripple factor,
19/8/25	15	"	"	Half and full wave rectifier	Rectifier efficiency, Voltage regulation,
20/8/25	16	"	"	"	Basic Idea of filter circuit Voltage Regulated Power Supply.

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21/8/25	13	AV	KE. PHY 103F	KINETIC THEORY of Gases.	Kinetic Model and gas law.
22/8/25	14	AV	CT	CT	minor
23/8/25	15	AV.	PHY 103F	KINETIC THEORY of GASES.	Derivation of Maxwell law of Distribution of- velocity.
25/8/25	16	SKT.	"	Transistor-s.	Bipolar Junction. Transistor.
26/8/25	17	"	"	"	CB, CE and CC Configuration.
27/8/25	18	"	"	"	Active Cutoff and Saturation region.
28/8/25	19	AV	"	KINETIC THEORY of GASES	Derivation of Maxwell law of velocity distribution.
29/8/25	20	AV	"	"	Experimental verification of law.
30/8/25	21	AV	CT	CT.	MONTHLY EVALUATION. CT / MINOR
1/9/25	19	SKT	PHY 103F	Transistor. MONTHLY	Current, Voltage, power gain in CB, CE, CC
2/9/25	20	SKT	"	"	Transistor Current and- relation. Base width Modulation.
3/9/25	21	SKT.	"	"	BASE Separation, resistance, Transition Time
4/9/25	22	AV	"	Kinetic Theory of Gases.	Degree of freedom. Law of Equipartition Energy.
6/9/25	23	"	"	"	Application of Equipartition Energy
8/9/25	22	SKT.	CT	CT.	CT / minor

9/9/25	23	SKT	PHY. 103F	Transistor.	Load Line Analysis. Q-Point stabilization.
10/9/25	24	SKT	CT	CT	CT/Minor.
11/9/25	23	AV	PHY 103F	KINETIC THEORY OF RADIA.	Black body Radiation.
12/9/25	24	"	"	"	Spectral Distribution. Energy density Concept
13/9/25	25	"	"	"	Radiation pressure, Planck law
15/9/25	25	SKT	"	Transistor.	Voltage Divider Circuit. R-C coupled Amplifier.
16/9/25	26	SKT	"	Electronic Instrument.	Multimeter CRO.
17/9/25	27	SKT.	CT	CT/Minor.	CT/Minor
18/9/25	26	AV	PHY 103F	Theory of Radiation	Planck law Derivation
19/9/25	27	"	"	"	Wien's distribution law.
20/9/25	28	"	"	"	Rayleigh-Jeans law.
22/9/25	28	SKT	"	Electronic Instrumentation.	Electrostatic focusing
23/9/25	29	"	"	"	CRO and Application.
24/9/25	30	CT	CT	CT/Minor.	CT/Minor.
25/9/25	29	AV	PHY 103F	Theory of Radi- ation	Stefan. Boltzmann law.
26/9/25	30	AV	"	"	velocity distribution
27/9/25	31	AV.	"	Monthly	Evaluation.
				Month	

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3/10/25	32 34	AV	PHY 103F	Theory of Radiation.	Wins displacement law from Planks law.
4/10/25	33	AV.	"	"	"
6/10/25 to 11/10/25	30 to 37	SKT/AV	"	Revision of The Theory	Revision of The theory.
21/10/25 to 31/10/25	37 to 43	SKT/AV	"	Revision of The Theory.	...
31/10/25	MONTHLY EV				
1/11/25	Revision of THEORY				