

सत्र : 25-26 सत्र : 2025-26
महाराणा प्रताप पी.जी. कालेज, जंगल धूसड़, गोरखपुर

01

कक्षा : BSc Sem I		विषय : PHYSICS. PHY 101 F			शीर्षक
दिनांक	व्याख्यान सं.	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	
16/7/25	01	AV	PHY 101 F	Newtonian Mechanics	DYNAMIC of System of particle Background.
17/7/25	01	SKT	"	Mathematical Physics.	Vector Algebra. Co-ordination Relation.
18/7/25	02	"	"	"	Scalar vector, Pseudo vectors, rotation, reflection and Inversion.
19/7/25	03	"	"	"	Components of 2D & 3D Vectors.
21/7/25	02.	AV.	"	Newtonian Mechanics.	Statement and Critical Analysis of- Newton's axiom.
22/7/25	03	"	"	"	Dynamics of- System of Particles.
23/7/25	04	"	"	"	Centre of Mass.
24/7/25	04	SKT.	"	CT.	CT.
25/7/25	05	"	"	Mathematical Physics.	Addition, Subtraction, dot product, Wedge Product of vectors.
26/7/25	06	"	"	"	Cross and Triple product of Vectors,
28/7/25	05	AV	"	Newtonian Mechanics.	Conservation Law and Their deductions.
29/7/25	06	"	"	"	Rotating frame Euler, Coriolis, Centrifugal force
30/7/25	07	"	"	Dynamics of Rigid Body.	Angular Momentum Torque, Rotational Energy.

31/7/25	07	SKT.	PHY-101F	Mathematical Physics. Vectors.	Position, Separation, and Displacement-vectors.
01/8/25	08	SKT	"	CT	CT / MINOR.
02/8/25	09	"	"	Vector Calculus.	Vector Differentiation, Gradient, Divergence
04/8/25	08	AV	"	Dynamics of Rigid Body.	Angular Momentum, Torque, Rotational Energy.
05/8/25	09	AV	"	"	Inertia Tensor, Rotational Inertia for Simple body.
06/8/25	10	"	"	"	Ex. Ring, Disk, Solid and Hollow Sphere, Cylinder, Rectangular Lamina
07/8/25	10	SKT	"	Vector Calculus.	Vector Integration, Line "
08/8/25	11	"	"	"	Surface Integration.
11/8/25	12	AV	CT	CT.	CT / MINOR.
12/8/25	11	"	PHY 101F	Dynamics of Rigid Body.	Combinations of Dynamic and Rigid Bodies.
13/8/25	12	"	"	"	Elasticity, Relation between Elastic Const
14/8/25	12	SKT	"	Vector Calculus.	Vector Field, Gradient Theorem.
18/8/25	13	AV	"	Dynamics of Rigid Body.	Bending of Beam, Torsion of Cylinder.
19/8/25	14	"	"	Motion of Planets and Satellites.	Central force Problems. relative and CM. Motion.
20/8/25	15	"	"	"	Newton's Law of Gravitation.

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21/8/25	12	SKT	PHY 101F	Vector Calculus	Gradient Theorem
23/8/25	13	"	CT	CT	CT/ Minor.
24/8/25	14	"	PHY 101F	Vector Calculus	Stoke-Curl Theorem. Greens theorem
25/8/25	16	AV	"	Motion of n. Planets.	Gravitation field.
26/8/25	17	"	"	"	Kaplers Law.
27/8/25	18	"	"	"	Motion of Geo Stationary satellite.
29/8/25	19	AV	CT	CT	CT/ Minor.
30/8/25	20	"	PHY 101F	Motion of Planets.	GPS.
03/9/25	21	AV.	"	wave motion.	Differential Eq of satellite.
04/9/25	22	"	"	"	Use of Complex Notation
06/9/25	14	SKT	"	Vector Calculus.	Green's Theorem.
8/9/25	15	"	"	"	Delta- δ function
9/9/25	16	"	CT	"	CT/ Minor.
10/9/25	23	AV	PHY 101F	wave motion	Damped SHM.
11/9/25	24	"	"	"	"

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12/9/25	17	SKT.	PHY. 101 F	Co-ordinates System.	Inertial and Non-Inertial Frame.
13/9/25	25	AV	CT	CT	CT/Minor.
15/9/25	26	"	PHY. 101 F	Wave Motion	Quality factor.
16/9/25	27	"	"	"	Lissajous figure
17/9/25	18	SKT	"	Co-ordinates System	Example of Inertial and Non-Inertial
18/9/25	19	"	"	"	Problems.
20/9/25	20	"	"	"	Introduction to tensors.
22/9/25	28	AV	PHY CT	CT	Minor.
23/9/25	29	"	PHY 101 F	Wave Motion	Plane Progressive Wave.
24/9/25	30	"	"	"	Wave in Medium.
25/9	21	SKT.	"	Introduction to tensors.	Invariance of Tensors.
26/9	22	"	" CT	"	Co-variant and contra variant.
27/9	23	"	"	"	"
29/9	30	AV	CT	Monthly Eval. CT	Monthly Evaluation
30/9	31	"	PHY 101 F	Wave Motion.	Wave in Rare and dense fluid.

3/10	32	AV	PHY 101F	Wave Motion	Energy of progressive wave.
4/10	33	"	"	"	Wave Velocity
6/10	24	SKT	"	Introduction to Tensors	Mixed Rank Tensors.
7/10	25	"	"	"	Example
8/10	26	SKT	CT	CT	CT/minor.
9/10	34	AV	PHY 101F	Wave Motion.	Group velocity
10/10	35	AV	"	"	Wave & Group velocity Relation
11/10	36	AV	"	"	Example
21/10	27	SKT	"	Introduction to tensors.	Rank of Tensors.
24/10	28	"	"	"	Rank and Tensor Type.
25/10	29	"	CT	CT	minor./CT.
27/10	37	AV	PHY 101F	Wave Motion	Group velocity Question.
28/10	38	"	"	"	"
29/10	39	"	"	"	Revision of - The Syllabus.
30/10	SKT	SKT	"	INDEX Notation	Symmetric and skew Symmetric Tensors

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31/11	32	SKT	PHY 101F	Tensors.	Karnoker - 8
1/11	33	"	"	"	"
3/11	40	AV	CT	CT	CT / minor
4/11	41	"	PHY 101F	Revision	Revision.
6/11	42	"	"	"	"
7/11	34	SKT	"	"	"
8/11	35	SKT	"	"	"
10/11	36	SKT	"	"	"
11/11	43	AV	CT	CT	CT / Minor
12/11	44	"	PHY 101F	Revision	Revision.
13/11	45	"	"	Revision	"
14/11	37	SKT	"	"	"
15/11	38	SKT	"	"	"