



Indian Institute of Technology Kanpur
DEPARTMENT OF PHYSICS
2025-26 - I Semester
List of Courses

S. No.	Course No	Course Name	Instructor	Email
1.	PHY 111	Physics Laboratory	Chanchal Sow	chanchal
2.	PHY 112	Classical Dynamics	Sudeep K Ghosh	skghosh
3.	PHY 113	Introduction to Electromagnetism	Joydeep Chakraborty	joydeep
4.	PHY 114	Introduction to Quantum Physics	Aditya H Kelkar	akelkar
5.	PHY 115	Oscillations And Waves	Arijit Kundu	kundua
6.	PHY 224	Optics	Chandrima Banerjee	cbanerjee
7.	PHY 303	Principles Of Laser and their Applications	Harshawardhan Wanare	hwanare
8.	PHY312	Quantum Processes in Low Dimensional Semiconductors	Subhomoy Haldar	shaldar
9.	PHY 315	Modern Physics Laboratory	Zakir Hossain	zakir
10.	PHY 401	Classical Mechanics I	Sabyasachi Chakraborty	sabyac
11.	PHY 407/ SE315	Special & General Relativity	Nilay Kundu	nilayhep
12.	PHY421	Mathematical Methods	Tarun Kanti Ghosh	tkghosh
13.	PHY431	Quantum Mechanics – I	Sudipta Dubey	sudiptad
14.	PHY441	Electronics	V Jayasurya Y	jayasurya
15.	PHY 461/462	Experimental Physics I & II	Rohit Medwal	rmedwal
16.	PHY 501/502	M.Sc. Review Project	Anand Kumar Jha	akjha
17.	PHY 555/556	Bs Project	Arjun Bagchi	abagchi
18.	PHY 563/565	M.Sc. Project I & M.Sc. Project II	Debtosh Chowdhury	debtoshc
19.	PHY 596,598, 696,698	M.Sc. Research Project	Gopal Hazra	hazra
20.	PHY690XX	A Physicist's Introduction to Topology and Differential Geometry	Kaushik Bhattacharya	kaushikb
21.	PHY612	Atomic, Molecular & Optical Physics	S. Ranjita Chanu	ranjita
22.	PHY614	Classical Electrodynamics II	Gautam Sengupta	sengupta
23.	PHY615	Non-Equilibrium Statistical Mechanics	Sagar Chakraborty	sagarc
24.	PHY621	Electronic Structure of Materials	Koushik Pal	koushik
25.	PHY623	Condensed Matter Physics	Soumik Mukhopadhyay	soumikm
26.	PHY628	Physics of Soft Matter & Fluids	Sivasurender Chandran	schandran
27.	PHY655	Introduction to String Theory	Diptarka Das	didas
28.	PHY664	Photonics Devices	R. Vijaya	rvijaya
29.	PHY675	Novel Phases of Quantum Matter	Adhip Agarwala	adhip
30.	PHY682	Concepts of Plasma Physics	Sudeep Bhattacharjee	sudeepb
31.	PHY685	Quantum Field Theory	Sanmay Ganguly	sanmay
32.	PHY701/702	Seminar Course	Sivasurender Chandran	schandran
33.	PHY 799	Research	Sagar Chakraborty	dpgc_phy
34.	PHY888	Introduction to Profession and Communication Skills for Physicists	Manoj Harbola	manoj
35.	ETH111	Ethics	Y.N.Mohapatra	ynm

Head, Physics
March 2025