



Indian Institute of Technology Kanpur
DEPARTMENT OF PHYSICS
2023-24 - I Semester
List of Courses

S. No.	Course No	Course Name	Instructor	Email
1.	PHY 111	Physics Laboratory	Manas Khan	mkhan
2.	PHY 112	Classical Dynamics	Supratik Banerjee	sbanerjee
3.	PHY 113	Introduction to Electromagnetism	Taraknath Mandal	taraknath
4.	PHY 114	Introduction to Quantum Physics	Manoj K Harbola	mkh
5.	PHY 115	Oscillations and Waves	Sivasurender Chandran	schandran
6.	PHY 224	Optics	V Jayasurya Y	jayasurya
7.	PHY 305	Physics of Universe	Gopal Hazra	hazra
8.	PHY 313A/ SE320	Physics of Information Processing	Saikat Ghosh	gsaikat
9.	PHY 315A	Modern Physics Laboratory	Krishnacharya	kcharya
10.	PHY 401A	Classical Mechanics	T. Sarkar	tapo
11.	PHY 407A/ SE315	Special & General Relativity	Nilay Kundu	nilayhep
12.	PHY 421A	Mathematical Methods I	Dipankar Chakrabarti	dipankar
13.	PHY 431A	Quantum Mechanics I	Aditya H Kelkar	akelkar
14.	PHY 441A	Electronics	K.P.Rajeev Rohit Medwal	rmedwal
15.	PHY 461/462A	Experimental Physics I & II	Zakir Hossain	zakir
16.	PHY 501/502A	M.Sc. Review Project	Chanchal Sow	chanchal
17.	PHY 543A	Condensed Matter Physics	Sudeep K Ghosh	skghosh
18.	PHY 553A	Classical Electrodynamics II	Gautam Sengupta	sengupta
19.	PHY 555/556A	BS Project	Tarun Kanti Ghosh	tkghosh
20.	PHY 563/565A	M.Sc. Project I & M.Sc. Project II	Kaushik Bhattacharya	kaushikb
21.	PHY 596A,598A, 696A,698A	M.Sc. Research Project	Arijit Kundu	kundua
22.	Ethics	Ethics	Y. N. Mohapatra	ynm
23.	IDC 606A	High Performance Computing with applications	Mahendra K Verma	mkv
24.	PHY 628A	Physics of Soft Matter and Fluids	Jayanta K Bhattacharjee	jayanta
25.	PHY 632	Transport in Mesoscopic Systems	Anjan K Gupta	anjankg
26.	PHY 652	Introduction to Conformal Field Theory	Diptarka Das	didas
27.	PHY 670	Evolutionary Game Dynamics	Sagar Chakraborty	Sagarc
28.	PHY 675	Novel Phases of Quantum Matter	Adhip Agarwal	adhip
29.	PHY 681	Quantum Field Theory	Arjun Bagchi	abagchi
30.	PHY 683	Techniques in Experimental High Energy Physics	Navaneeth Poonthottathil	navaneeth
31.	PHY 690G	Coherence & Quantum Entanglement	Anand Kumar Jha	akjha
32.	PHY 690N	Correlated Electrons and Quantum Magnetism	Avinash Singh	avinas
33.	PHY 690I	Cosmology	Debtosh Chowdhury Sabyasachi Chakraborty	Debtosh/ sabyac
34.	PHY 690S	Type II Superconductors Vortices & Applications	Satyajit Banerjee	satyajit
35.	PHY 600* (PHY400)	Introduction to Profession and Communication Skills for Physicists	Amit K Agarwal	amitag
36.	PHY 799	Research	Joydeep Chakraborty	dpgc_phy

*Under review

Head, Physics