



Indian Institute of Technology Kanpur
DEPARTMENT OF PHYSICS
2021-22 - I Semester
List of Courses

S. No.	Course No	Course Name		
1.	PHY 101 L	Physics Laboratory	Y. N. Mohapatra*	ynm
2.	PHY 102	Physics I	Avinash Singh* Tapobrata Sarkar	avinas Tapo
3.	PHY 103	Physics II	Krishnacharya* Soumik Mukhopadhyay	kcharya soumikm
4.	PHY 205A	Fundamentals of Soft Matter	Manas Khan	mkhan
5.	PHY 224A	Optics	R. Vijaya	rvijaya
6.	PHY 313A/ SE320	Physics of Information Processing	Saikat Ghosh* Sagar Chakraborty	gsaikat sagarc
7.	PHY 315A	Modern Physics Laboratory	Anjan K. Gupta*	guptaraj
8.	PHY 401A/ SE 314	Classical Mechanics	Supratik Banerjee	sbanerjee
9.	PHY 407A/ SE 315	Special & General Relativity	Gautam Sengupta	sengupta
10.	PHY 421A	Mathematical Methods I	Diptarka Das	didas
11.	PHY 431A	Quantum Mechanics I	Chanchal Sow	chanchal
12.	PHY 441A	Electronics	Aditya Kelkar	akelkar
13.	PHY 473A	Computational Physics	M.K.Verma	mkv
14.	PHY 461/462A	Experimental Physics I & II	K. P. Rajeev*	kpraj
15.	PHY 500/501/502A	M.Sc. Review Project	Gautam Sengupta*	sengupta
16.	PHY 552A	Classical Electrodynamics I	Kaushik Bhattacharya	kaushikb
17.	PHY 543A	Condensed Matter Physics I	Manoj Harbola	mkh
18.	PHY 555/556A	BS Project	S. M. Tripathi*	smt
19.	PHY 563/565A	M.Sc. Project I & M.Sc. Project II	Sudeep Bhattacharjee*	sudeepb
20.	PHY 596A,598A, 696A,698A	M.Sc. Research Project	Dipankar Chakraborty*	dipankar
21.	PHY 601A	Review of Classical Mechanics	Sagar Chakraborty	sagarc
22.	PHY 603A	Review of Classical Electrodynamics	Amit Agarwal	amitag
23.	PHY 605A	Review of Mathematical methods	Debtosh Chowdhury	debtoshc
24.	PHY 613A	Advanced Statistical Mechanics	Amit Dutta	dutta
25.	PHY 615A	Non-Equilibrium Statistical Mechanics	Debashish Chowdhury	debch
26.	PHY 642A	Condensed matter phenomena in low dimensional systems	T. K. Ghosh	tkghosh
27.	PHY 667A	High Energy Astrophysics of Binary Star Systems	Pankaj Jain* J. S. Yadav	pkjain
28.	PHY 668A	Introduction to conformal field theory	Arjun Bagchi	abagchi
29.	PHY 681A	Quantum Field Theory	Nilay Kundu	nilayhep
30.	PHY 690G	Coherence and quantum entanglement	Anand Kumar Jha	akjha
31.	PHY690J	Group theory and its applications to particle physics	Joydeep Chakraborty	joydeep
32.	PHY 690T	Introduction to Superconductivity & Applications	Satyajit Banerjee	satyajit
33.	PHY 799	Research	Soumik Mukhopadhyay	soumikm

(*) indicates instructor-in-charge

Head, Physics
May 31, 2021