



# Indian Institute of Technology Kanpur

## DEPARTMENT OF PHYSICS

2019-20 - I Semester

### List of Courses

S. No.	Course No	Course Name		
1	PHY 101	Physics Laboratory	Asima Pradhan*	asima
2	PHY 102	Physics I	KP Rajeev* Aditya Kelkar	kpraj akelkar
3	PHY 103	Physics II	Soumik Mukhopadhyay* Joydeep Chakraborty	soumikm joydeep
4	PHY 224	Optics	Saikat Ghosh	gsaikat
5	PHY 205	Fundamentals of Soft Matter	Manas Khan	mkhan
6	PHY 305 / <b>SE 311</b>	Physics of the Universe	Pankaj Jain	pkjain
7	PHY 307 / <b>SE 313</b>	Modern Optics	Saurabh Mani Tripathi	smt
8	PHY 309 / <b>SE 303</b>	Introductory Biophysics	Debashish Chowdhury	debch
9	PHY 315	Modern Physics Laboratory	Krishnacharya	kcharya
10	PHY 400	Introduction to Department	R.Vijaya	rvijaya
11	PHY 401 / <b>SE 314</b>	Classical Mechanics	Kaushik Bhattacharya	kaushikb
12	PHY 407 / <b>SE 315</b>	Special & General Relativity	Arjun Bagchi	abagchi
13	PHY 421	Mathematical Methods I	Diptarka Das	didas
14	PHY 431	Quantum Mechanics I	Chanchal Sow**	akelkar#
15	PHY 441	Electronics	Jayita Nayak	jnyak
16	PHY 461 / 462	Experimental Physics I & II	Zakir Hossain	zakir
17	PHY 500 / 501 / 502	M.Sc. Review Project	T Sarkar	tapo
18	PHY 543	Condensed Matter Physics I	Arijit Kundu	kundua
19	PHY 552	Classical Electrodynamics I	Avinash Singh	avinas
20	PHY 555, 556	BS Project	Tarun Kanti Ghosh	tkghosh
21	PHY 563, 565	M.Sc. Project I & M.Sc. Project II	Anjan Kumar Gupta	anjankg
22	PHY 590	Special Topics in Physics	Aditya Kelkar	akelkar
23	PHY 598,599, 698,699	M.Sc. Research Project	Gautam Sengupta	sengupta
24	PHY 601	Review of Classical Mechanics	Manoj K Harbola	mkh
25	PHY 603	Review of Classical Electrodynamics	Rajeev Gupta	anjankg
26	PHY 605	Review of Mathematical methods	Amit Kumar Agarwal	amitag
27	PHY 613	Advanced Statistical Mechanics	Amit Dutta	dutta
28	PHY 631	Semiconductor Nano-structures	YN Mohapatra	ynm
29	PHY 651	Introduction to Astrophysical fluids	Supratik Banerjee	sbanerjee
30	PHY 670	Evolutionary game dynamics	Sagar Chakraborty	sagarc
31	PHY 672	Physics of Turbulence	MK Verma	mkv
32	PHY 681	Quantum Field Theory	Nilay Kundu	nilayhep
33	PHY 690G	Coherence and quantum entanglement	Anand Kumar Jha	akjha
34	PHY 799	Research	Dipankar Chakrabarti	dipankar

(\*) indicates instructor-in-charge, (\*\*) indicates a faculty member expected to join in the summer of 2019,

(#) indicates DUGC/DPGC convener as temporary arrangement

Head, Physics

4<sup>th</sup> April 2019