



**Indian Institute of Technology, Kanpur**  
**DEPARTMENT OF PHYSICS**  
**List of Courses (2024-2025-II)**

S.No	Course	Course Name	Instructor
1.	PHY111	Physics Laboratory	Zakir Hossain
2.	PHY112	Classical Dynamics	Sabyasachi Chakraborty, Amit Agarwal
3.	PHY113	Introduction to Electromagnetism	Nilay Kundu, Debtosh Chowdhury
4.	PHY114	Introduction to Quantum Physics	Anjan Gupta, Jayita Nayak
5.	PHY115	Oscillations and Waves	Adhip Agarwala, H.Wanare
6.	PHY204/PSO201	Quantum Physics	Soumik Mukhopadhyay
7.	PHY205M	Fundamentals of Soft Matter	Tarakanath Mandal
8.	PHY210	Thermal Physics	Koushik Pal
9.	PHY226M	Special Relativity	Swagata Mukherjee
10.	PHY302	Introduction to Quantum Materials	Chanchal Sow
11.	PHY311	Physics of Non-Equilibrium Phenomenon	Mahendra K Verma
12.	PHY412	Statistical Mechanics	Manas Khan
13.	PHY461/PHY462	M.Sc. Laboratory	K.P.Rajeev
14.	PHY552	Classical Electrodynamics I	Aditya H Kelkar
15.	PHY501+ 502	M.Sc. Review Project II M.Sc. Review Project III	Sivasurender Chandran
16.	PHY557 + 558	BS Project III + IV	Y. N. Mohapatra
17.	PHY566+568	MSc Project III + IV	Joydeep Chakraborty
18.	PHY597/599 /697/699	MSc Research Project I MSc Research Project II	Sagar Chakraborty
19.	PHY 611	Nuclear and Particle Physics	Navaneeth P.
20.	PHY 612	Atomic, Molecular & Optical Physics	Saikat Ghosh
21.	PHY 617	Computational Physics	Gopal Hazra
22.	PHY 625	Mathematical Methods II	Apratim Kaviraj
23.	PHY 626	Quantum Mechanics II	Tarun K Ghosh
24.	PHY 642	Condensed Matter Phenomena in Low Dimensional	Sudipta Dubey
25.	PHY 643	Coherence and Quantum Entanglement	Anand Kumar Jha
26.	PHY 657	Advance General Relativity	Tapobrata Sarkar
27.	PHY 676	Quantum Technology	S.Ranjita Chanu
28.	PHY 678	Nanomagnetism, Spintronics, and Applications	Rohit Medwal
29.	PHY 680	Particle Physics	Sanmay Ganguly
30.	PHY 684	Introduction to Plasma Astrophysics	Supratik Banerjee
31.	PHY 690D	Introduction to Functional Spaced & Basic Formalisms in Quantum Materials	Kaushik Bhattacharjee
32.	PHY 690E	Advanced Cosmology	Subhendra Mohanty
33.	PHY 692	Measurement Techniques	V Jayasurya Y
34.	PHY701/702	Physics Seminar Course I/ II	Sudeep K Ghosh
35.	PHY781	High Energy Physics II	Arjun Bagchi
36.	PHY799	Research	Sagar Chakraborty
37.	PHY888	Introduction to Profession and Communication	R.Vijaya
38.	ETH111	Practical Ethics	Manoj Harbola

\* Instructor

Head, Department of Physics