

**LIST OF PROJECTS FOR 2025-2026-I SEMESTER**

S.No.	Name	email	Title	Program	Remarks
1	Arjun Bagchi	abagchi	String theory and holography	Any	Open to all student
2	Adhip Agarwala	adhip	Novel phases of matter	MSPD(596/598/696/698)	Open to all student
3	Apratim Kaviraj	akaviraj	General aspects of QFT, RG flow and CFTs	MSPD(501/502)	Continuing student
4	Aditya Kelkar	akelkar	Accelerator based atomic physics	Any	Open to all student
5	Anjan Kumar Gupta	anjankg	two dimensional material devices	MS-MSc(563/565)	Student is already selected
6	Chandrima Banerjee	cbanerjee	Micromagnetic Simulation Study of Spin wave Dynamics	MSPD(596/598/696/698)	Open to all student
7	Chanchal Sow	chanchal	Growth of novel quantum materials	Any	Student is already selected
8	Debtosh Chowdhury	debtoshc	Neutrinos in cosmology	Any	Continuing student
9	Diptarka Das	didas	Scattering of Solitons	Any	Open to all student
10	Rajeev Gupta	guptaraj	Structural and Magnetic Properties of Oxides	Any	Open to all student
11	Gopal Hazra	hazra	Coronal holes in the far-side of the Sun, Exoplanet atmosphere using radiative MHD model, Atmospheric retrieval of exoplanets using JWST	MS-MSc(563/565)	Open to all student
12	Harshwardhan Wanare	hwanare	Imaging using Optical Fiber - Experimental Investigation	MS-MSc(563/565)	Open to all student
13	Venkatajayasurya Yallapragada	jayasurya	Nanophotonics and optical imaging	MSPD(501/502)	Open to all student
14	Jayita Nayak	jinayak	Single crystal growth of Axion insulators	MS-MSc(563/565)	Open to all student
15	Joydeep Chakraborty	joydeep	Zeta function and Mellin Transformation	Any	Open to all student
16	Kaushik Bhattacharya	kaushikb	Structure formation in modified theories of gravity	MSPD(596/598/696/698)	Open to all student
17	Koushik Pal	koushik	First-principles quantum simulations, low-energy effective modeling, machine learning and materials informatics, quantum and energy materials	MSPD(501/502)	Open to all student
18	K P Rajeev	kpraj	Low Energy Nuclear Reactions	Any	Open to all student
19	Arijit Kundu	kundua	Quantum Metric and Transport in periodically driven/twisted systems.	Any	Open to all student
20	Manas Khan	mkhan	Studying Equilibrium and nonequilibrium fluctuations in complex systems	Any	Open to all student
21	Navaneeth Poonthottathil	navaneeth	Experimental Neutrino Physics	MS-MSc(563/565)	Open to all student
22	Nilay Kundu	nilayhep	1. Topics in Scattering amplitudes, de-Sitter Physics, CFT 2. Black hole thermodynamics (basic understanding of QFT, GR will be useful).	MS-MSc(563/565)	Open to all student
23	Rohit Medwal	rmedwal	Spintronics	MS-MSc(563/565)	Open to all student
24	Vijaya R	rvijaya	Experimental photonics	MS-MSc(563/565)	Student is already selected
25	Sabyasachi Chakraborty	sabyac	Effective Field Theory and Gravity	Any	Open to all student
26	Sagar Chakraborty	sagarc	Nonlinear Dynamics and Game Theory	Any	Open to all student
27	Sanmay Ganguly	sanmay	Machine Learning and High Energy Physics	MS-MSc(563/565)	Open to all student
28	Satyajit Banerjee	satyajit	Condensed matter experiments	MSPD(501/502)	Student is already selected
29	Supratik Banerjee	sbanerjee	Unsolved problems of solar plasma turbulence	MS-MSc(563/565)	Open to all student

30	Sivasurender Chandran	schandran	Phase separation in polymers and colloids	MS-MSc(563/565)	Open to all student
31	Gautam Sengupta	sengupta	string Theory	MSPD(596/598/696/698)	Continuing student
32	Subhomoy Halder	shalder	Fabrication of semiconductor quantum dot based nanoscale devices and study the dynamics of single electron transport.	MSPD(596/598/696/698)	Open to all student
33	Sudeep Kumar Ghosh	skghosh	Topological Superconductivity, Superconducting Spintronics, Correlated electrons in Curved geometries	MSPD(596/598/696/698)	Open to all student
34	Soumik Mukhopadhyay	soumikm	Interplay of correlation, topology and magnetism in condensed matter systems.	Any	Open to all student
35	Sapam Ranjita Chanu	sranjita	Quantum Technology with atoms and ions	Any	Open to all student
36	Sudeep Bhattacharjee	sudeepb	Experimental plasma physics	Any	Open to all student
37	Sudipta Dubey	sudiptad	2D materials	MSPD(501/502)	Open to all student
38	Swagata Mukherjee	swagata	Direct search for physics beyond the Standard Model in collider experiments	MSPD(501/502)	Student is already selected
39	Tapobrata Sarkar	tapo	Astrophysical Phenomena	MSPD(501/502)	Open to all student
40	Taraknath Mandal	taraknath	Computational Soft Matter and Biophysics.	MS-MSc(563/565)	Open to all student
41	Tarun Kanti Ghosh	tkghosh	Topology in condensed matter physics, nonlinear charge and spin transport, cold atomic superfluid	Any	Open to all student
42	Zakir Hossain	zakir	Magnetism and Superconductivity in Single crystals and thin films	Any	Open to all student