List of Projects for 2024-25 2nd semester

S.no.	Name	Email ID	Title	Program	Remarks
1	Adhip Agarwala	adhip	Anyons	BS(555/556)	Student is already selected
2	Aditya Kelkar	akelkar	Accelerator based atomic physics	MSPD(501/502)	Open to all student
3	Amit Kumar Agarwal	amitag	Spintronics and orbitronics	Any	Open to all student
4	Anand Kumar Jha	akjha	Quantum imaging and entanglement	MS- MSc(566/568)	Open to all student
5	Anjan Kumar Gupta	anjankg	2D materials	Any	Continuing student
6	Apratim Kaviraj	akaviraj	Nonperturbative techniques	MSPD(597/697 /599/699)	Continuing student
7			Understanding quantum geometry in time-dependent systems. Plan		
	Arijit Kundu	kundua	is to use CFT.	Any	Open to all student
8	Arjun Bagchi	abagchi	String theory, quantum field	MS- MSc(566/568)	Continuing student
9	Chanchal Sow	chanchal	Novel Quantum Materials: Single crystal and thin film growth	Any	Open to all student
10	Chandrima Banerjee	cbanerje e	Spin Dynamics in Magnetic	MS- MSc(566/568)	Continuing student
11	Debtosh Chowdhury	debtoshc	Electroweak Precision Observables in Beyond the Standard Model Physics	BS(555/556)	Continuing student
12	Dipankar Chakrabarti	dipankar	QCD	M.Sc	Continuing Student
13	Diptarka Das	didas	Statistical Mechanics for Neural scaling laws. Non-equilibrium dynamics	Any	Open to all student
14	Gautam Sengupta	sengupta	High Energy Physics	MSPD(501/502)	Continuing student
15	Gopal Hazra	Hazra	Atmosphere of terrestrial Exoplanets	Any	Open to all student
16	Jayita Nayak	jnayak	Electronic and magneto transport investigation of Kagome materials	MS- MSc(566/568)	Open to all student

17	Joydeep Chakrabortty	joydeep	Two students are already pursuing their projects with me. They will continue for the next semester as well.	Any	Student is already selected
18	Koushik Pal	koushik	Machine learning, materials informatics, topological phases, transport properties, density functional theory	MSPD(597/697 /599/699)	Student is already selected
19	Mahendra K Verma	mkv	Astrophysical turbulence	MS- MSc(566/568)	Open to all student
20	Manas Khan	mkhan	Active Brownian dynamics and non-equilibrium fluctuations	MSPD(597/697 /599/699)	Open to all student
21	Navaneeth Poonthottathil	navaneet h	Experimental Neutrino Physics	Any	Open to all student
22	Nilay Kundu	nilayhep	Continuing Project student in aspects of black hole physics.	Any	Student is already selected
23	Rajeev Gupta	guptaraj	Experimental investigations	MS- MSc(566/568)	Open to all student
24	Rohit Medwal	rmedwal	Magneto-transport and Quantum Magnonics	Any	Open to all student
25	Sabyasachi Chakraborty	sabyac	Theoretical Particle Physics	Any	Student is already selected
26	Sagar Chakraborty	sagarc	Nonlinear Dynamics and Evolutionary Games	Any	Open to all student
27	Sanmay Ganguly	sanmay	High Energy Physics and Machine Learning	MS- MSc(566/568)	Open to all student
28	Sapam Ranjita Chanu	sranjita	Quantum circuits and control	Any	Open to all student
29	Satyajit Banerjee	satyajit	Superconductivity and magnetism. MSc-PhD dual degree student will be	MSPD(597/697 /599/699)	Continuing student
30	Sivasurender Chandran	schandra n	Polymer Dynamics in Nonequilibrium Conditions	MSPD(501/502)	Open to all student

31	Soumik Mukhopadhyay	soumikm	Interplay of topology and magnetism in solids; Topological Hall effect in van der waals crystals; Quantum Anomalous Hall effect; 4) Electrical transport in van der Waals heterostructures; 5) Topological spintronics	Any	Open to all student
32	Subramaniam Anantha Ramakrishna	sar	Optics, Micro/nanostructured materials	MS- MSc(566/568)	Open to all student
33	Sudeep Bhattacharjee	Sudeepb	Experimental plasma physics	Any	Open to all student
34	Sudeep Kumar Ghosh	skghosh	Condensed matter theory: Unconventional and topological superconductivity, Quantum mechanics in hyperbolic	MSPD(597/697 /599/699)	Open to all student
35	Sudipta Dubey	sudiptad	2D material experiment	MSPD(501/502)	Open to all student
36	Supratik Banerjee	sbanerje e	Active fluids, plasma astrophysics, magnetohydrodynamics	Any	Open to all student
37	Swagata Mukherjee	swagata	Search for physics beyond the standard model in hadron colliders	Any	Continuing student
38	Tapobrata Sarkar	tapo	Astrophysical phenomena (computation based)	MSPD(501/502)	Student is already selected
39	Taraknath Mandal	taraknath	Computational Soft matter and Biophysics	MS- MSc(566/568)	Open to all student
40	Tarun Kanti Ghosh	tkghosh	Topology and transport properties in Dirac materials	Any	Open to all student
41	Venkatajayasur ya	jayasurya	Computational optics/ photonics	MS-MSc (566/568)	Open to all student
42	Vijaya R	rvijaya	Experimental photonics	MSPD (501/502)	Open to all student
43	Zakir Hossain	zakir	Condensed Matter Physics	MS-MSc (566/568)	Student is already selected