

[illegible]

School:

Third year			
Code	Course details	Other information	
Course code	Course Name Course structure Instructor name(s)	Mention if Minor Mention if compulsory for other major students	
PHY327 / MSP427	Quantum Mechanics-II [3003] Dr. Bindusar Sahoo		
PHY312 / PHY3120 / MSP412	Classical Mechanics [3003] Dr. Senthilkumar D. V.		
PHY322 / MSP422	Condensed Matter Physics - I [3003] Dr. Suraj Hegde	Minor	
PHY324 / MSP424	Numerical Methods [3003] Dr. Solingyur Zimik Kachui		
PHY325 / MSP425	Advanced Physics Lab II — [0093] Dr. Ramesh C. Nath, Dr. S. Kumaragurbaran	Compulsory for experiment track PHY, MSc 1st year and Elective for i2P	
MSP428	Mathematical Methods in Physics-I [3003] Dr. Sreedhar Dutta	Only for MSc First year	
I2P321 / PHY4219 / AOE4219 / PHY6219	Electrochemical Energy Systems [3003] Dr. M. M. Shaijumon	core for i2P, elective for PHY 3rd year, MSc-IPHD 1st year, elective for PhD, AOE for other schools	
PHY4206 / PHY6206	Astrophysics [3003] Dr. Abhimanyu Susobhanan	elective for I2P- PHY 3rd year, MSc-IPHD 1st, 2nd year, elective for PhD	
PHY4217 / PHY6217	Quantum Information Theory [3003] Dr. Anil Shaji	compulsory for theory track PHY and Elective for i2P, MSc-IPHD 1st, 2nd year	
PHY4502	Computer aided design (0031)	SEC For all batches BSMS, MSc, iPHD	

Physics

Fourth year			
Code	Course details	Other information	
Course code	Course Name Course structure Instructor name(s)	Mention if Minor/Open-elective Mention if compulsory for other major students	
PHY421 / PHY612 / MSP512	Condensed Matter Physics II [3003] Dr. Amal Medhi	for all, PHY, I2P 4th year, MSc-iPhD 2nd year, for PHD	
PHY411 / PHY611 / MSP511 / PHY4119	Nuclear Particle Physics [3003] Dr. Mathew Arun Thomas	compulsory for theory track, elective for I2P	
PHY423 / PHY623 / I2P423 / MSP523	Modeling Materials [2033] Dr. Souvik Paul	Core for I2P and experiment track but elective for theory track	
PHY4130 / PHY6130 / I2P413	Fluid Mechanics & Transport Phenomena [3003] Dr. Suhesh Kumar Singh	minor/GE	
PHY5128 / PHY6128	General Relativity and Cosmology [3003] Dr. Sreedhar Dutta		
PHY5213 / PHY6213	Quantum Field Theory-I [3003] Dr. Tanumoy Mandal		
PHY4211 / PHY6211	Materials Growth and Processing Techniques [2033] Dr. Tuhin S. Maity	minor/GE-remark time table like (3003) for all	
PHY5236 / PHY6236	Ultrafast Molecular Dynamics [3003] Dr. Krishnendu Gope		
PHY5215 / PHY6215	Quantum Transport [3003] Dr. Madhu Thalakulam		
PHY5202 / PHY6202	Organic Semiconductors: Fundamentals and Applications [3003] -Dr Bikas C Das		
MSP316	MSc 1 credit Viva course	MSc 1st year	

Only fifth year			
Code	Course details	Other information	
Course code	Course Name Course structure Instructor name(s)	Mention if Minor/Open-elective Mention if compulsory for other major students	
PHY5212 / PHY6212	Open Quantum Systems [3003] Dr. Soumik Bandyopadhyay	7th, 9th sem and PHD elective, MSc-iPhD 2nd year, for PHD	
PHY5233 / PHY6233	Plasmonics and Photonics [3003] Dr. Joy Mitra	7th, 9th sem and PHD elective, MSc-iPhD 2nd year, for PHD	
PHY5217 / PHY6217	Radiative Processes in Astrophysics [3003] Dr. Shabnam Iyyani	7th, 9th sem and PHD elective, MSc-iPhD 2nd year, for PHD	
PHY5203 / PHY6203	Sensor Technology [3003] Dr. Vinayak B. Kamble	7th, 9th sem and PHD elective, MSc-iPhD 2nd year, for PHD	