

Tentative course list is School of Physics- Vasanth 2022

Sl. No.	Code	Course Name	Faculty
1.	PHY111	Mechanics	Dr. M M Shaijumon
2.	IDC 111	Mathematical Tools I	Prof. Ramesh Chandra Nath
3.	PHY112	Physics Lab I (Experiments in Mechanics)	Dr. Manoj Namboothiry
4.	PHY121	Electromagnetism	Dr. Rajeev Kini/Dr. Joy Mitra
5.	PHY122	Physics Lab II (Experiments in Optics, Electricity and Magnetism)	Dr. M M Shaijumon / Prof. Ramesh Chandra Nath
6.	PHY 221	Thermal and Statistical Physics	Dr. Manik Banik
7.	PHY 222	Physics Lab III (Experiments in Heat and Thermodynamics)	Dr. Joy Mitra
8.	PHY 321 MSP 321 PHY 3210	Statistical Mechanics	Dr. Sreedhar Dutta
9.	PHY321ab	Introduction to Statistical Mechanics (2 credits) (Minor course only)	
10.	PHY 322 MSP 322 PHY 3220	Condensed Matter Physics I (Minor)	Dr. Deepshikha J Nagar
11.	PHY 323 MSP 323 PHY 3230	Electrodynamics and STR	Dr. Bindusar Sahoo
12.	PHY 325 MSP 325	Advanced Physics Lab II	Dr. Bikas C Das
13.	PHY 326 MSP 326	Seminar	Dr. Manoj Namboothiry
14.	PHY 4218 PHY 6218	Nonlinear Dynamics (Elective 1)	Dr. Senthilkumar
15.	PHY 4206 PHY 6206	Astrophysics (Elective 2)	Dr. Shabnam Iyyani
16.	PHY 5201 PHY 6201 I2P 5201	Principles of Digital Imaging (Elective 3)	Dr. Suhesh Kumar Singh
17.	PHY 4205 PHY 6205	Electronic Devices and Computer Interfacing (Minor) (Elective 4)	Dr. Vinayak Kamble
18.	PHY 5215 PHY 6215	Quantum Transport (Elective 5)	Dr. Madhu Thalakulam
19.	PHY 421 PHY 621	Computational Techniques and Prog. Languages	Dr. Soumen Basak
20.	PHY 422 PHY 4220 PHY 6220	Atomic and Molecular Physics	Dr. S Kumaragurubaran
21.	PHY/AOE 4222	Introduction to Atmospheric Science (OE) (Elective 6)	Dr Anand Narayana Sarma
22.	PHY 5221 PHY 6221	Lasers and Fibre Optic Communications (Elective 7)	Dr. Ravi Pant
23.	PHY/AOE 4211 PHY 6211	Materials Growth and Processing Techniques (OE) (Elective 8)	Dr. Tuhin Maity

24.	PHY 5209 PHY 6209	Particle Physics (Elective 9)	Dr. Tanumoy Mandal
25.	PHY 5213 PHY 6213	Quantum Field Theory-I (Elective10)	Prof. Anil Shaji
26.	PHY 5229 PHY 6229	Quantum Many Body Theory (Elective11)	Dr. Amal Medhi
27.	PHY 620	Research Methodology	Dr. Manoj Namboothiry

Electives 1 -- 5: For 3rd year and 4th year BSMS students + 1st Year MS + 1st and 2nd year IPhD students

Electives 6 -- 11: For 4th Year and 5th Year BSMS students + 2nd Year IPhD students

Courses for PhD Students: All courses beginning 6XXX and PHY 3230, PHY 3220, PHY 3210