

**Tentative courses to be offered in Vasanth 2021 - School of Physics**

<b>Sl. No.</b>	<b>Course Code/Title</b>	<b>Faculty</b>
<b>First Year Courses</b>		
1	PHY 121 Electromagnetism	Dr. Joy Mitra/Dr. Manik Banik
2	PHY 122 Physics Lab II	Dr. Tuhin Maity
<b>Second Year Courses</b>		
3	PHY 221 Thermal & Statistical Physics	Dr. S. Kumargurubaran
4	PHY 222 Physics Lab IV	Dr. Manoj Namboothiry
<b>Third Year BS-MS and IPh. D. /Ph. D. Courses</b>		
5	PHY 321/3210 Statistical Mechanics (for Ph. D. also)	Dr. Sreedhar Dutta
6	PHY 322/3220 Condensed Matter Physics I (Minor) (for Ph. D. also)	Dr. Deepshikha J Nagar
7	PHY 323/3230 Electrodynamics & Special Theory of Relativity (for Ph. D. also)	Dr. Soumen Basak
8	PHY 325 Advanced Physics Experiment Lab II	Dr. Bikas Chandra Das
<b>Fourth/Fifth Year BS-MS and IPh. D. /Ph. D. Courses</b>		
9	PHY 421/4210/6220 Computational Techniques & Programming Language	Dr. Amal Medhi
10	PHY 422/4220 Atomic & Molecular Physics	Dr. Ravi Pant
11	PHY 4201/6201 Quantum Information Theory (Elective for 3 <sup>rd</sup> yr BS-MS and 1 <sup>st</sup> yr IPh. D. also) Prerequisites : Quantum Mechanics -I	Prof. Anil shaji
12	PHY 4202/6202 Nonlinear Dynamics (Elective for 3 <sup>rd</sup> yr BS-MS and 1 <sup>st</sup> yr IPh. D. also) Prerequisites : Mathematical Methods in Physics	Dr. Senthil Kumar
13	PHY 4204/6204 Electronic Devices and Computer Interfacing (Elective for 3 <sup>rd</sup> yr BS-MS and 1 <sup>st</sup> yr IPh. D. also) Prerequisites : Electronics	Dr. Vinayak Kamble
14	PHY 5202/6215 Quantum Transport Prerequisites : Condensed Matter Physics-I, Quantum Mechanics-I	Dr. Madhu Thalakulam
15	PHY 5207/6207 Particle Physics Prerequisites : Electrodynamics and Special Theory of Relativity, Nuclear and Particle Physics, Quantum	Dr. Tanumoy Mandal
16	PHY 5208/6208 Principles of Digital Imaging	Dr. Suhesh Kumar Singh
17	PHY 5210/6210/AOE 4204 Materials Growth and Processing Techniques	Dr. Shaijumon M M
18	PHY 5212/6212 Quantum Field Theory-I Prerequisites: Quantum Mechanics-II, ED & STR	Dr. Mathew Arun Thomas
19	PHY 5217/6217 Advanced Mathematical Methods in Physics	Dr. Bindusar Sahoo
20	PHY 621 Research Methodology (Ph. D. Course)	Dr. Manoj Namboothiry
21	PHY 326 Seminar (IPh. D.)	Dr. Tuhin Maity
22	PHY 424 Research Work (IPh. D. 2 <sup>nd</sup> year)	Dr. Bikas Chandra Das