

### Tentative courses to be offered in Varsha 2020 - School of Physics

Sl. No.	Course Code/Title	Faculty
<b>First Year Courses</b>		
1	Bridge Course	Lecturers of first semester
2	PHY 111 Mechanics	Dr. Shajumon M M, Prof. Ramesh Chandra Nath
3	IDC 111 Mathematical Tools-I	Dr. Rajeev Kini, Dr. Kumaragurubaran S
<b>Second Year Course</b>		
4	PHY 211 Optics	Prof. Anil Shaji, Dr. Manoj Namboothiry
<b>Third Year BS-MS, IPh.D/Ph.D. Courses</b>		
5	PHY 311 Mathematical Methods in Physics	Dr. Senthil Kumar
6	PHY 312/3120 Classical Mechanics	Dr. Joy Mitra
7	PHY 313 Electronics I (Minor)	Dr. Suhesh Kumar
8	PHY 314 Quantum Mechanics I (Minor)	Dr. Madhu Thalukulam
9	PHY 316 (1 credit seminar course for 1st yr. IPh.D.)	Dr. Manoj Namboothiry
<b>Fourth Year BS-MS, IPh.D/Ph.D. Courses</b>		
10	PHY 411/611 Nuclear and Particle Physics	Dr. Tanumoy
11	PHY 412/612 Condensed Matter Physics II	Dr. Amal Medhi
12	PHY 413/613 Quantum Mechanics II	Dr. Sreedhar Dutta
13	PHY 5101/PHY 6113 Lasers and Fiber Optic Communications	Dr. Ravi Pant
14	PHY 5102/PHY 6114 Physics at Low Temperatures	Dr. Deepshikha Jaiswal
15	PHY 4102/PHY 6102 Experimental Methods (Minor)	Dr. Vinayak Kamble
16	PHY 5109/PHY 6109 General Relativity and Cosmology	Dr. Soumen Basak
17	PHY 4105/6105/AOE 4104 Materials and Device Characterization Techniques (Open elective)	Dr. Bikas Chandra Das
18	PHY 5105/ PHY 6117 Foundations of Quantum Mechanics	Dr. Manik Banik
19	PHY 5112/6112 Quantum Field Theory II	Dr. Bindusar Sahoo
20	PHY 4104/ PHY 6104 Semiconductor Physics and Technology	Dr. Tuhin Maity
21	PHY 416 (1 credit seminar course for 2nd yr. IPh.D.)	Dr. Manik Banik

PHY 6112 Quantum Field Theory II is primarily for PhD students. PHY4105 is AOE and PHY5105, 5109 can all be credited in the 5<sup>th</sup> year subject to timetable