

School of Physical Sciences
Varsha 2024 - Courses - Teaching Assignment

SL NO.	COURSE_CODE	COURSE_NAME	CREDIT(S)	STUDENT GROUPS ELIGIBLE, e.g. BSMS4, MSC1,IPHD2, PhD etc.	LECTURER
1	Bridge Course	Bridge Course			
2	PHY111	Mechanics	4	BSMS1	Prof. Anil Shaji, Dr. Debasish Saha
3	IDC111	Mathematical Tools-I	3	BSMS1	Dr. Rajeev Kini
4	PHY112	Physics Lab I	1	BSMS1	Dr. Tuhin Maity
5	PHY212	Optics	3	BSMS2	Dr. Suhesh Kumar Singh
6	PHY211	Thermal and Statistical Physics	4	BSMS2	Dr. Shabnam Iyyani
7	PHY311	Mathematical Methods in Physics	3	BSMS3	Dr. Chandrakala Meena
	MSP311	Mathematical Methods in Physics	3	MSC1, IPHD1	
8	PHY312	Classical Mechanics	3	BSMS3	Dr. D.V. Senthilkumar
	PHY3120	Classical Mechanics	3	PHD	
	MSP312	Classical Mechanics	3	MSC1, IPHD1	
9	PHY313	Electronics (minor)	3	BSMS3	Dr. Vinayak Kamble
	MSP313	Electronics	3	MSC1, IPHD1	
10	PHY314	Quantum Mechanics – I (minor)	3	BSMS3, BSMS4	Dr. Tanumoy Mandal
	MSP314	Quantum Mechanics – I	3	MSC1, IPHD1	
11	PHY315	Advanced Physics Lab I	3	BSMS3	Dr. Ravi Pant
	PHY3150	Advanced Physics Lab I	3	i2BSMS3	
	MSP315	Advanced Physics Lab I	3	MSC1, IPHD1	

12	PHY411	Nuclear Particle Physics	3	BSMS4	Dr. Mathew Arun Thomas
	PHY611	Nuclear Particle Physics	3	PHD	
	MSP411	Nuclear Particle Physics	3	MSC2, IPHD2	
13	PHY412	Condensed Matter Physics II	3	BSMS4	Dr. Madhu Thalakulam
	PHY612	Condensed Matter Physics II	3	PHD	
	MSP412	Condensed Matter Physics II	3	MSC2, IPHD2	
14	PHY413	Quantum Mechanics II	3	BSMS4	Dr. Amal Medhi
	PHY613	Quantum Mechanics II	3	PHD	
	MSP413	Quantum Mechanics II	3	MSC2, IPHD2	
15	PHY415	Advanced Physics Expts Lab – III	3	BSMS4	Prof. Manoj Namboothiry
	MSP415	Advanced Physics Expts Lab – III	3	MSC2, IPHD2	
	PHY4150	Advanced Physics Expts Lab – III	3	i2BSMS4	
16	MSP316	Seminar for 1 st year iPhD/MSc	1	MSC1, IPHD1	Dr. Krishnendu Gope
	MSP416	Seminar for 2 nd year iPhD/MSc	1	MSC2, IPHD2	Prof. Manoj Namboothiry
17	PHY4110	Experimental Methods (minor)	3	BSMS4, MSC2, IPHD2	Dr. Kumaragurubaran
	PHY6110	Experimental Methods	3	PHD	
	I2P411	Experimental Methods	3	i2BSMS4	
18	PHY4120	Semiconductor Physics and Technology	3	BSMS4, MSC2, IPHD2	Prof. Joy Mitra
	PHY6120	Semiconductor Physics and Technology	3	PHD	
	I2P412	Semiconductor Physics and Technology	3	i2BSMS4	
19	PHY4130	Fluid Mechanics & Transport Phenomena	3	BSMS4, MSC2, IPHD2	Dr. Nitin Yadav
	PHY6130	Fluid Mechanics & Transport Phenomena	3	PHD	
	I2P413	Fluid Mechanics & Transport Phenomena	3	i2BSMS4	

20#	PHY4140	Modelling Materials	3	BSMS4, IPHD2, MSC2	Dr. Souvik Paul
	PHY6140	Modelling Materials	3	PHD	
	I2P414	Modelling Materials	3	i2BSMS4	
# Max. 35 students allowed to register the course.					
21	PHY4111	Material & Device Characterization Techniques Elective	3	BSMS4, MSC2, IPHD2	Dr. Bikas C. Das
	PHY6111	Material & Device Characterization Techniques Elective	3	PHD	
	AOE4111	Material & Device Characterization Techniques Elective (Open Elective)	3	BSMS4	
22	PHY5128	General relativity and cosmology	3	BSMS4, MSC2, IPHD2	Dr. Soumen Basak
	PHY6128	General relativity and cosmology	3	PHD	
23	PHY5235	Magnetism and Magnetic Materials	3	BSMS4, MSC2, IPHD2	Prof. Ramesh Chandra Nath
	PHY6235	Magnetism and Magnetic Materials	3	PHD	
24	PHY5232	Atmospheric dynamics and cloud physics	3	BSMS4, MSC2, IPHD2	Dr. Pramitha M
	AOE5232	Atmospheric dynamics and cloud physics (Open elective)	3	BSMS4	
	PHY6232	Atmospheric dynamics and cloud physics	3	PHD	

25	PHY5123	Nanoscale Physics	3	BSMS4, MSC2, IPHD2	Prof. M M Shaijumon
	PHY6123	Nanoscale Physics	3	PHD	
26	PHY5150	Quantum Field Theory II	3	BSMS5	Dr. Bindusar Sahoo
	PHY6150	Quantum Field Theory II	3	PHD	
27	PHY5124	Superconductivity	3	BSMS4, MSC2, IPHD2	Dr. Deepsikha Jaiswal Nagar
	PHY6124	Superconductivity	3	PHD	
28	PHY5126	Advanced Statistical Physics	3	BSMS4, MSC2, IPHD2	Dr. Sreedhar B Dutta
	PHY6126	Advanced Statistical Physics	3	PHD	
29	PHY5236	Ultrafast molecular dynamics	3	BSMS4, MSC2, IPHD2	Dr. Krishnendu Gope
	PHY6236	Ultrafast molecular dynamics	3	PHD	
30	PHY511	Major Project Phase-I	12	BSMS5	
31	I2P511	Major Project Phase-I	12	I2P5	
32	MSP418	MSc Project	3	MSC2	