

Department of Physics

Course Offering and Allocation for FALL-2020 Semester

S.No	Deptt	Semester	Course Code	Title	Category of course	Department offering the course	Faculty Member for Theory	Faculty Member for Lab	Session	Class	Group	Teaching Mode, Theory	Teaching Mode, Lab	Section	Total Cr. Hrs	C.H Lab	C.H Theory
1	PHY	1	CSC101	Introduction to Computing	Core	CS	Mr. Muhammad Junaid Anjum	Mr. Muhammad Junaid Anjum	FA20	BPH				A	4	1	3
2	PHY	1	HUM100	English Comprehension and Composition	Core	HUM	Ms. Huma Ejaz		FA20	BPH				A	3	0	3
3	PHY	1	MTH101	Calculus I	Core	MATH	Dr. Syed Tahir Raza Rizvi		FA20	BPH				A	3	0	3
4	PHY	1	PHY104	Mechanics	Core	PHY	Dr. Akbar Ali		FA20	BPH	1	At Campus		A	3	0	3
4	PHY	1	PHY104	Mechanics	Core	PHY	TBD		FA20	BPH	2	At Campus		A	3	0	3
5	PHY	1	HUM320	Introduction to Sociology	Minor	HUM	Mr. Babar Farooq		FA20	BPH				A	3	0	3
6	PHY	1	PHY105	Experiments in Mechanics	Core	PHY		Dr. Farah Alvi	FA20	BPH	1		At Campus	A	1	1	0
6	PHY	1	PHY105	Experiments in Mechanics	Core	PHY		TBD	FA20	BPH	2		At Campus	A	1	1	0
7	PHY	1	MTH001	Basic Mathematics		PHY	Dr. Akbar Ali		FA20	BPH				A	0	0	0
8	PHY	2	CSC141	Introduction to Computer Programming	Core	CS	Mr. Imran Latif	Mr. Imran Latif	SP20	BPH				A	4	1	3
9	PHY	2	MTH102	Calculus II	Core	MATH	Dr. Shumaila Rani		SP20	BPH				A	3	0	3
10	PHY	2	MTH231	Linear Algebra	Core	MATH	Dr. M. Zubair		SP20	BPH				A	3	0	3
11	PHY	2	PHY103	Heat and Thermodynamics	Core	PHY	Dr. Ishrat Sultana		SP20	BPH				A	3	0	3
12	PHY	2	CHM211	Introduction to Physical Chemistry	Minor	CHEM	Ms. Kanwal	Ms. Kanwal	SP20	BPH				A	3	1	2
13	PHY	2	PHY106	Experiments in Thermodynamics, Electricity and Magnetism	Core	PHY		Dr. Siddique Akhtar Ehsan	SP20	BPH				A	1	1	0
14	PHY	3	HUM103	Communication Skills	Core	HUM	Ms. Ummara Shaheen		FA19	BPH				A	3	0	3
15	PHY	3	HUM111	Pakistan Studies	Core	HUM	Mr. Saleem Kakar		FA19	BPH				A	3	0	3
16	PHY	3	MTH241	Ordinary Differential Equations	Core	MATH	Dr. Abdul Jawad		FA19	BPH				A	3	0	3
17	PHY	3	PHY220	Electric and Magnetic Fields	Core	PHY	Dr. Muhammad Idrees		FA19	BPH				A	3	0	3
18	PHY	3	PHY230	Waves and Oscillations	Core	PHY	Dr. Ajmal Khan		FA19	BPH				A	3	0	3
19	PHY	3	CHM101	General Chemistry	Minor	CHEM			FA19	BPH				A	3	0	3
20	PHY	3	PHY210	Experiments in Modern Physics	Core	PHY		Dr. Samia Aslam	FA19	BPH				A	1	1	0
21	PHY	3	HUM103	Communication Skills	Core	HUM	Ms. Ummara Shaheen		FA19	BPH				B	3	0	3

22	PHY	3	HUM111	Pakistan Studies	Core	HUM	Mr. Saleem Kakar		FA19	BPH				B	3	0	3
23	PHY	3	MTH241	Ordinary Differential Equations	Core	MATH	Dr. M. Yousaf Bhatti		FA19	BPH				B	3	0	3
24	PHY	3	PHY220	Electric and Magnetic Fields	Core	PHY	Dr. Muhammad Idrees		FA19	BPH				B	3	0	3
25	PHY	3	PHY230	Waves and Oscillations	Core	PHY	Dr. Ajmal Khan		FA19	BPH				B	3	0	3
26	PHY	3	CHM101	General Chemistry	Minor	CHEM	Ms. Iram		FA19	BPH				B	3	0	3
27	PHY	3	PHY210	Experiments in Modern Physics	Core	PHY		Dr. Samia Aslam	FA19	BPH				B	1	1	0
28	PHY	4	HUM110	Islamic Studies	Core	HUM	Dr. Muhammad Zubair		SP19	BPH				A	3	0	3
29	PHY	4	PHY226	Electromagnetic Theory I	Core	PHY	Dr. Shahzada Qamar Hussain		SP19	BPH				A	3	0	3
30	PHY	4	PHY221	Circuit Theory	Core	PHY	Ms. Faiza Mustafa	Ms. Faiza Mustafa	SP19	BPH		1	At Campus	A	4	1	3
30	PHY	4	PHY221	Circuit Theory	Core	PHY		TBD	SP19	BPH		2	At Campus	A	4	1	3
31	PHY	4	PHY227	Modern Physics	Core	PHY	Dr. Naima Amin		SP19	BPH				A	3	0	3
32	PHY	4	PHY241	Classical Mechanics	Core	PHY	Mr. Noman Ahmad Khan		SP19	BPH				A	3	0	3
33	PHY	4	PHY264	Mathematical Methods in Physics	Core	PHY	Dr. Muhammad Naveed Aslam		SP19	BPH				A	3	0	3
34	PHY	5	PHY234	Electronics	Core	PHY	Dr. Muhammad Yasir Rafique		FA18	BPH				A	3	0	3
35	PHY	5	PHY341	Relativity	Core	PHY	Dr. Abdul Sattar		FA18	BPH				A	3	0	3
36	PHY	5	PHY342	Quantum Mechanics I	Core	PHY	Dr. Shabana Nisar		FA18	BPH				A	3	0	3
37	PHY	5	PHY369	Optics	Core	PHY	Dr. Muhammad Hamad Aziz		FA18	BPH				A	3	0	3
38	PHY	5	PHY326	Electromagnetic Theory II	Core	PHY	Dr. Zahida Ehsan		FA18	BPH				A	3	0	3
39	PHY	5	MGT101	Introduction to Management	Minor	MS			FA18	BPH				A	3	0	3
40	PHY	5	PHY310	Experiments in Optics	Core	PHY		Dr. Muhammad Imran	FA18	BPH				A	1	1	0
41	PHY	5	PHY234	Electronics	Core	PHY	Dr. Muhammad Yasir Rafique		FA18	BPH				B	3	0	3
42	PHY	5	PHY341	Relativity	Core	PHY	Dr. Abdul Sattar		FA18	BPH				B	3	0	3
43	PHY	5	PHY342	Quantum Mechanics I	Core	PHY	Dr. Shabana Nisar		FA18	BPH				B	3	0	3
44	PHY	5	PHY369	Optics	Core	PHY	Dr. Muhammad Hamad Aziz		FA18	BPH				B	3	0	3
45	PHY	5	PHY326	Electromagnetic Theory II	Core	PHY	Dr. Zahida Ehsan		FA18	BPH				B	3	0	3
46	PHY	5	MGT101	Introduction to Management	Minor	MS			FA18	BPH				B	3	0	3
47	PHY	5	PHY310	Experiments in Optics	Core	PHY		Dr. Muhammad Imran	FA18	BPH				B	1	1	0

48	PHY	6	PHY343	Quantum Mechanics II	Core	PHY	Dr. Faheel Ather Hashmi		SP18	BPH				A	3	0	3
49	PHY	6	PHY367	Statistical Physics I	Core	PHY	Dr. Ghazanfar Abbas		SP18	BPH				A	3	0	3
50	PHY	6	PHY366	Solid State Physics I	Core	PHY	Dr. Muhammad Aamir Razaq		SP18	BPH				A	3	0	3
51	PHY	6	PHY365	Computational Methods in Physics	Core	PHY	Dr. Salman Naeem Khan	Dr. Salman Naeem Khan	SP18	BPH				A	4	1	3
52	PHY	6	PHY368	Atomic and Molecular Physics	Core	PHY	Dr. Junaid Amjad		SP18	BPH				A	3	0	3
53	PHY	6	PHY364	Boundary Value Problems in Physics	Core	PHY	Dr. Nosheen Akbar		SP18	BPH				A	3	0	3
54	PHY	7	PHY467	Statistical Physics II	Core	PHY	Dr. Muhammad Jamil Alvi		FA17	BPH				A	3	0	3
55	PHY	7	PHY433	Nuclear Physics	Core	PHY	Dr. Naima Amin		FA17	BPH				A	3	0	3
56	PHY	7	PHY466	Solid State Physics II	Core	PHY	Dr. Mukhtar Ahmad		FA17	BPH				A	3	0	3
57	PHY	7	PHY462	Introduction to Nanoscience and Technology	Elective	PHY	Dr. Ishrat Sultana		FA17	BPH				A	3	0	3
58	PHY	7	PHY465	Introduction to Materials Science	Elective	PHY	Dr. Shahzada Qamar Hussain		FA17	BPH				A	3	0	3
59	PHY	7	PHY499	Project I	Core	PHY			FA17	BPH				A	2	2	0
60	PHY	7	PHY467	Statistical Physics II	Core	PHY	Dr. Muhammad Jamil Alvi		FA17	BPH				B	3	0	3
61	PHY	7	PHY433	Nuclear Physics	Core	PHY	Dr. Naima Amin		FA17	BPH				B	3	0	3
62	PHY	7	PHY466	Solid State Physics II	Core	PHY	Dr. Mukhtar Ahmad		FA17	BPH				B	3	0	3
63	PHY	7	PHY462	Introduction to Nanoscience and Technology	Elective	PHY	Dr. Ishrat Sultana		FA17	BPH				B	3	0	3
64	PHY	7	PHY465	Introduction to Materials Science	Elective	PHY	Dr. Shahzada Qamar Hussain		FA17	BPH				B	3	0	3
65	PHY	7	PHY499	Project I	Core	PHY			FA17	BPH				B	2	2	0
66	PHY	8	PHY451	Semiconductor Devices	Elective	PHY	Dr. Samia Aslam		SP17	BPH		At Campus		A	3	0	3
67	PHY	8	PHY457	Lasers and Their Applications	Elective	PHY	Dr. Muhammad Imran		SP17	BPH		At Campus		A	3	0	3
68	PHY	8	PHY499	Project II	Core	PHY			SP17	BPH				A	4	4	0
MS (Physics), Regular																	
1	PHY	1	PHY503	Mathematical and Computational Methods in Physics	Core	PHY	Dr. Muhammad Naveed Aslam		FA20	RPH		At Campus		A	3	0	3
2	PHY	1	PHY609	Advanced Electromagnetic Fields and Waves	Core	PHY	Dr. Amna Mir		FA20	RPH		At Campus		A	3	0	3
3	PHY	1	PHY523	Introduction to Nanoscience and Technology	Elective	PHY	Dr. Ghazanfar Abbas		FA20	RPH		At Campus		A	3	0	3

4	PHY	1	PHY527	Quantum Optics I	Elective	PHY	Dr. Faheel Ather Hashmi		FA20	RPH		At Campus		A	3	0	3
5	PHY	2	PHY565	Graduate Laboratory	Core	PHY	Dr. Muhammad Yasir Rafique		SP20	RPH		At Campus		A	3	0	3
6	PHY	2	PHY604	Advanced Quantum Physics	Core	PHY	Dr. Muhammad Ashfaq Ahmad		SP20	RPH		At Campus		A	3	0	3
7	PHY	2	PHY551	Physics of Microfabrication Technology	Elective	PHY	Dr. Saif Ur Rehman		SP20	RPH		At Campus		A	3	0	3
8	PHY	2	PHY582	Medical Physics	Elective	PHY	Dr. Muhammad Hammad Aziz		SP20	RPH		At Campus		A	3	0	3
9	PHY	2	PHY557	Atomic and Molecular Physics	Elective	PHY	Dr. Junaid Amjad		SP20	RPH		At Campus		A	3	0	3
PhD (Physics)																	
1	PHY		PHY612	Advanced Statistical Mechanics	Elective	PHY	Dr. Muhammad Asif		FA20, SP20, FA19	PPH		At Campus		A	3	0	3
2	PHY		PHY622	Modern Semiconductor Structures	Elective	PHY	Dr. Muhammad Ashfaq Ahmad		FA20, SP20, FA19	PPH		At Campus		A	3	0	3
3	PHY		PHY620	Condensed Matter Theory	Elective	PHY	Dr. Muhammad Ashfaq Ahmad		FA20, SP20, FA19	PPH		At Campus		A	3	0	3
4	PHY		PHY621	Materials Science II	Elective	PHY	Dr. Muhammad Aamir Razaq		FA20, SP20, FA19	PPH		At Campus		A	3	0	3
5	PHY		PHY640	Advances in Thin Film Technology	Elective	PHY	Dr. Ghazanfar Abbas		FA20, SP20, FA19	PPH		At Campus		A	3	0	3