

JAWAHARLAL NEHRU UNIVERSITY
SCHOOL OF PHYSICAL SCIENCES

Courses for Winter Semester-2022

M.Sc. (Physics)

2nd Semester

Course No.	Title	Credits
PS 421	Quantum Mechanics-II	3
PS 423	Electromagnetic Theory	3
PS 424	Relativistic Physics	2
PS 426	Physics Lab II	4
PS 428	Mathematical Physics II	2
PS 429	Statistical Mechanics	3

Pre-Ph.D. (Physics)

2nd Semester

Course No.	Title	Credits
PS 662*	Experimental Methods in Physics	3
PS 666*	Plasma Astrophysics	3
PS 761*	Many Body Theory	3
PS 699	Research Methodology Course I	3
PS762P	Seminar Course (P)	1

***Choose any one course out of these courses**

M.Sc. (Chemistry)

2nd Semester

Course No.	Title	Credits
PS 456C	Adv. Organic Chemistry-I	3
PS 457C	Adv. Inorganic Chemistry-I	3
PS 458C	Molecular Spectroscopy	3
PS 476C	Chemistry Laboratory-2	6
PS 466C	Physical Chemistry-I	3

Pre-Ph.D. (Chemistry)

2nd Semester

Course No.	Title	Credits
PS 613C*	Computational Chemistry and Applications	3
PS 623C*	Chemistry and Biology of Glycoconjugates	3
PS 617C	Research Methodology Course	3
PS 741C	Seminar Course (C)	1

***Choose any one course out of these courses**

M.Sc. (Mathematics)

2nd Semester

Course No.	Title	Credits
PM 402	Complex Analysis	4
PM 405	Algebra II	4
PM 406	Measure Theory	4
PM 407	Functional Analysis	4

Pre-Ph.D. (Mathematics)

2nd Semester

Course No.	Title	Credits
PS 646M	Research methodology Course-I	3
PS 712M	Algebraic Number Theory	3
PS 715M	Seminar Course (M)	1

