JAWAHARLAL NEHRU UNIVERSITY SCHOOL OF PHYSICAL SCIENCES

Courses for Winter Semester-2021

M.Sc. (Physics)

2 nd Semester			
Course No.	Title	Credits	
PS421	Quantum Mechanics-II	3	
PS429	Statistical Mechanics	3	
PS423	Electromagnetic Theory	3	
PS428	Mathematical Physics-II	2	
PS424	Relativistic Physics	2	
PS426	Physics Lab.II	4	

Pre-Ph.D. (Physics)

2nd Semester

Course No.	Title	Credits
PS722	Phase Transition and Critical Phenomena	3
PS662	Expt Methods in Physics	3
PS762P	Seminar course	1
PS699	Research Methodology Course I	3

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 459C	Concepts in Physical Chemistry	3
PS 460C	Laboratory-II	7

Pre-Ph.D. (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 459C	Concepts in Physical Chemistry	3
PS 613C*	Computational Chemistry and its Applications	3
PS 741C ⁺	Seminar Course	1
PS 617C ⁺	Research Methodology Course	3

Note: Pre-PhD students can take any of the two courses (in addition of PS $741C^+$ and PS $617C^+$) from this list as per their choice.

*This course is only for Pre-PhD Students.

⁺These courses are compulsory for Pre-PhD. Students

M.Sc. (Mathematics)

2nd Semester

Course No.	Title	Credits
PM405	Algebra II	4
PM407	Functional Analysis	4
PM408	Discrete Mathematics	4
PM406	Measure Theory	4

Pre-Ph.D. (Mathematics)

2nd Semester

Course No.	Title	Credits
PS715M	Seminar Course	1
PS646M	Research Methodology Course I	3
PS647M	Research Course II	3