

01.01.2020

JAWAHARLAL NEHRU UNIVERSITY
SCHOOL OF PHYSICAL SCIENCES

Courses for Winter Semester-2020**M.Sc.(Physics)****2nd Semester**

Course No.	Title	Credits	Name of the Faculty
PS 421	Quantum Mechanics II	3	Prof. Debashis Ghoshal (DG)
PS 422	Statistical Mechanics I	3	Prof. S.K. Sarkar(SKS)
PS 423	Electromagnetic Theory	3	Prof. Satyabrata Patnaik (SBP)
PS 424	Relativistic Physics	2	Dr. Poonam Mehta (PM)
PS 428	Mathematical Physics II	2	Dr. Ashim Pramanik (AKP)/Tanuja Mohanty (TM)
PS 426	Physics Lab II	4	Prof. SSN Murthy & Dr. RN Mahato

4th Semester

Course No.	Title	Credits	Name of the Faculty
PS 522	Project	4	Respective supervisor
PS 527*	Advanced Condensed Matter Physics	3	Prof. Subhasis Ghosh (SG)
PS 530*	Modern Experiments of Physics	3	Prof. P. Sen (PS)
PS 529*	Theory of Soft Condensed Matter	3	Prof. S.P. Das (SPD)
PS 662*	Experimental Methods in Physics	3	Kedar Singh (KS)
PS722*	Phase Transitions and Critical Phenomena	3	Sanjay Puri (SP)
PS761*	Many Body Theory	3	Brijesh Kumar (BK)

Elective Courses*M.Sc. (Chemistry)****2nd Semester**

Course No.	Title	Credits	Name of the Faculty
PS 456C	Advanced Organic Chemistry-I	3	Dr. Ankita Rai
PS 457C	Advanced Inorganic Chemistry-I	3	Dr. Supriya Sabbani
PS 458C	Molecular Spectroscopy	2	Dr. Sobhan Sen
PS 459C	Concept of Physical Chemistry	3	Dr. Manoj Munde
PS 460C	Laboratory-II	7	Dr. S. Sabbani, Dr. M. Munde, Dr. A.Rai, Dr. S.Sen, Dr. Pijus Kumar Sasmal, Dr. Ankita Rai, Dr.

			Pritam Mulhopadhyay, Dr. Dinabandhu Das
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4th Semester

Course No.	Title	Credits	Name of the Faculty
PS 465C	Research Project	7	Respective supervisor
PS 468C	Solid State Chemistry	3	Dr. D. Das
PS 469C	Biophysical Chemistry	3	Dr. P.K. Sasmal
PS 615C	Supramolecular Chemistry	3	Dr. Pritam Mukhopadhyay

M.Sc.(Math)

2nd Semester

Course No.	Title	Credits	Name of the Faculty
PM405	Algebra 2	4	Dr. Amala Bhawe
PM408	Discrete Mathematics	4	Dr. Manoj Verma
PM407	Functional Analysis	4	Dr. Ved Prakash Gupta
PM406	Measure Theory	4	Prof. Riddhi Shah

Pre-Ph.D. (Physics)

2nd Semester

Course No.	Title	Credits	Name of the Faculty
PS699	Research Methodology Course	3	
PS762 P	Seminar Course	1	
PS662*	Experimental Methods in Physics	3	Kedar Singh (KS)
PS722*	Phase Transitions and Critical Phenomena	3	Sanjay Puri (SP)
PS761*	Many Body Theory	3	Brijesh Kumar (BK)

*Elective Courses

Pre-Ph.D. (Chemistry)

2nd Semester

Course No.	Title	Credits	Name of the Faculty
PS 615C*	Supramolecular Chemistry	3	Dr. P. Mukhopadhyay
PS 617C	Research Methodology Course	3	Respective supervisor
PS 741C	Seminar Course	1	

*Elective Courses

Pre-Ph.D. (Math)

2nd Semester

Course No.	Title	Credits	Name of the Faculty
PS646M	Research Methodology Course I	3	Dr. Ved Prakash Gupta
PS 715M	Seminar Course	1	
PS647M	Research Course II	3	Dr. Amala Bhave, Dr. Manoj Verma, Prof. Riddhi Shah
PS799*	Research Methodology Course	3	

***Elective Courses**