

# S. N. BOSE NATIONAL CENTRE FOR BASIC SCIENCES

## POST M.Sc PhD PROGRAMME - COURSE WORK (PHYSICAL SCIENCES)

### Fifth Semester

Course No.	Course Title	L	T	P	C
PHY 501	Research Methodology	4	-	-	4
PHY 502	Review of the topical Research	4	-	-	4
PHY 503	Condensed Matter Physics	3	1	0	4
PHY 504	Computational Methods in Physics	2	0	2	4
PHY 505	Classical Mechanics & Electromagnetism	3	1	0	4
PHY 506	Quantum Physics (Formal)	3	1	0	4
PHY 507	Mathematical Methods - I	3	1	0	4
PHY 508	Numerical Methods	3	1	0	4
PHY 509	Relativity & Cosmology	3	1	0	4
PHY 510	Astrophysics	3	1	0	4
PHY 511	High Energy Astrophysics around compact stars	3	1	0	4
PHY 591	Project Research - Part I	-	-	8	8
<i>Total hours of contact per week</i>		16			
<i>Total credits</i>		16			

### Sixth Semester

Course No.	Course Title	L	T	P	C
PHY 601	Advanced Condensed Matter Physics - Magnetism & Superconductivity	3	1	0	4
PHY 602	Advanced Condensed Matter Physics - Electronic Structure & Physics of Materials	3	1	0	4
PHY 603	Statistical Physics	3	1	0	4
PHY 604	Quantum Physics (Application)	3	1	0	4
PHY 691	Project Research (thro' two semesters) - Part II	-	-	8	8
<i>Total hours of contact per week</i>		16			
<i>Total credits</i>		16			