

Overall credits structure:

Total credits =60

Program Code (PC)	Program Elective (PE)	Open Elective (OE)	Total Credit
45	09	06	60

Course No.	Title	Type	L-T-P	Credits
Semester I				
PHL 701	Electronic Properties of Materials	PC	3-0-0	3
PHL 703	Materials Technology	PC	3-0-0	3
PHL 705	Physics of Semiconductor Devices	PC	3-0-0	3
PHL 707	Characterization of Materials	PC	3-0-0	3
PHL 711	Solid State Materials Laboratory- I	PC	0-0-9	4.5
-	Program Elective I	PE	3-0-0	3
-	Total Credits	-	-	19.5
Semester II				
PHL 702	Science and Technology of Thin Films	PC	3-0-0	3
PHL 704	Semiconductor Device Technology	PC	3-0-0	3
PHP 712	Solid State Material Laboratory II	PC	0-0-9	4.5
-	Programme Elective II	PE	3-0-0	3
-	Open Elective I	OE	3-0-0	3
-	Total Credits			16.5

Semester III				
PHD 801	Major Project Part 1	PC	0-0-12	6
-	Open Elective II	OE	0-0-3	3
-	Programme Elective Part 3 #	PE	0-0-3	3
-	Total Credits	-	-	12
Semester IV				
PHD 802	Major Project- Part 2	PC	0-0-24	12
-	Total Credits	-	-	12

Programme elective (PE)

Course No.	Title	L-T-P	Credits
PHL 721	Electronic Ceramics	3-0-0	3
PHL 722	Analytical Techniques	3-0-0	3
PHL 723	Vacuum Science & Cryogenics	3-0-0	3
PHL 724	Magnetism and Superconductivity	3-0-0	3
PHL 725	Physics of Amorphous Materials	3-0-0	3
PHL 726	Nanostructured Materials	3-0-0	3
PHL 727	Quantum Heterostructures	3-0-0	3
PHS 731	Independent Study	0-3-0	3

