

DEPARTMENT OF PHYSICS
North Eastern Hill University
Shillong-793022

M.Sc. Physics Course Structure (CBCS)

Semester I

No of credits = 18

<u>Code No.</u>	<u>Name of the Course</u>	<u>Credit</u>
PHYCC1	Classical Mechanics	4
PHYCC2	Quantum Mechanics-I	4
PHYCC3	Mathematical Physics	4
PHYCC4	Laboratory-I	6

Semester II

No. of credits = 18

PHYCC5	Quantum Mechanics-II	4
PHYCC6	Electrodynamics	4
PHYOC1	Electronics	4
PHYCC7	Laboratory-II	6

Semester III

No. of credits = 18

PHYOC2	Nuclear Physics-I	4
PHYOC3	Solid State Physics-I	4
PHYCC8	Atomic & Molecular Physics	4
PHYCC9	Laboratory-III	4
PHYCC10	Environment	2

Semester IV

No. of credits = 18

PHYCC11	Thermal Physics	4
PHYCC12	Computational Techniques & Numerical Methods	4
PHYCC13(a)	Solid State Physics-II	4
PHYCC13(b)	High Energy Physics	4
PHYCC13(c)	Laser Physics	4
PHYCC13(d)	Nuclear Physics-II	4
PHYCC14	Computational Techniques Laboratory	6

PHYCC13(a), PHYCC13(b), PHYCC13(c) and PHYCC13(d) are the elective papers, the M. Sc. Physics students can opt one of them.