

B.S. PHY Programme Template (Version 1.0 : SEP 12 2011)

(Departmental Choices are shown in colour)

Sem	Course			Sem	Course		
I	MTH101 PHY102/PHY103 PHY101/CHM101 (Lab) [TA101+LIF101]/ESC101 ENG112/HSS-1 * PE101 <i>TA101 & LIF101 alternate with ESC101</i>	3-1-0 3-1-0 0-0-3 [2-0-3 + 2-0-0]/ 3-1-3 3-1-0 0-0-3	11 11 03 [09 + 06]/14 11 03 54/53	II	MTH102 PHY103/PHY102 CHM101/PHY101 (Lab) ESC101/[TA101+LIF101] CHM102 * PE102 <i>TA101 & LIF101 alternate with ESC101</i>	3-1-0 3-1-0 0-0-3 3-1-3 / [2-0-3 + 2-0-0] 2-1-0 0-0-3	11 11 03 14/[09 + 06] 08 03 50/51
III	ESC201 ESO/SO SO/ESO Optics (Theory & Lab) TA201 (MSE)/TA202(ME) ** Composition (Web based)	3-1-3 3-1-3 3-1-0 2-1-3 1-0-3 0-0-2	14 11 11 12 06 02 56	IV	HSS-2 (Level 1) OE-1 SO-I: Quantum Phy Thermal Phys (1/2) Relativity (1/2) TA202(ME)/TA201 (MSE) ** Comm Skills (Dep)	3-1-0 3-0-0 3-1-0 3-1-0 Modular 3-1-0 Modular 1-0-3 0-0-2	11 09 11 06 06 06 02 51
V	SO/ESO 401: Class Mech 421: Math Methods 431: QM 315: Mod Physics Lab	3-1-0 3-1-0 3-1-0 3-1-0 1-0-3	11 11 11 11 07 51	VI	DE 1/OE-2 HSS-3 (Level 2) 412: Stat Mech 552: Electrodynamics 473: Comp Phys	3-0-0 3-0-0 3-1-0 3-1-0 2-2-0	09 09 11 11 08 48
VII	OE-3 OE-4 HSS-4 (Level 2) 461 : Exptl Phys OE-2/ DE 1 DE 2	3-0-0 3-0-0 3-0-0 0-0-6 3-0-0 3-0-0	09 09 09 08 09 09 53	VIII	HSS-5 (Level 2) OE-5 OE-6 DE 3 DE 4	3-0-0 3-0-0 3-0-0 3-0-0 3-0-0	09 09 09 09 09 45

Minimum credits to be earned for B.S. in Physics: 408

Students wishing to do second major in Physics are advised to opt for Physics compulsory courses from SEM IV onwards.

- **Proposed ESO & SO Combination**

1. SO I : Quantum Physics
2. Any other THREE SO/ESO courses of which at least one must be ESO.

- **DEPARMENTAL PROGRAMME**

A. Compulsory component of the curriculum : Total Credits 102

Course number	Course Title	Credits	Semester
PHY XXX	Optics 2-1-3	12	III
PHY XXX	Thermal Physics 3-1-0 M-I	06	IV
PHY XXX	Relativity 3-0-0 M-II	06	IV
PHY 315	Modern Physics Lab 1-0-3	07	V
PHY 401	Classical Mechanics 3-1-0	11	V
PHY 421	Mathematical Methods 2-0-0	11	V
PHY431	Quantum Mechanics 3-1-0	11	V
PHY 412	Statistical Mechanics 3-1-0	11	VI
PHY 552	Electrodynamics 3-1-0	11	VI
PHY 473	Computational Physics 2-2-0	08	VI
PHY461	Experimental Physics 0-0-8	08	VII

B. Elective component of the curriculum (90 Credits)

All DE can be treated as OE as well making the minimum elective component as 90 Credits

C. Departmental Compulsory programme share : 102/408 i.e. 25%