SEM	Name of the course with course code	No.of Hrs/ week	No. of cred it	Total Credits	Total Hrs/ SEM.
I	**16P1PHYT01:**Mathematical Methods in Physics- I	4	4	15	72
I	**16P1PHYT02**: Classical Mechanics	4	4		72
I	**16P1PHYT03**: Electrodynamics	4	4		72
I	**16P1PHYT04**: Electronics	3	3		54
I	**16P1PHYP01**: General Physics Practical	10	**		180
II	**16P2PHYT05**:Mathematical Methods in Physics- II	4	4	23	72
II	**16P2PHYT06**: Quantum Mechanics - I	4	4		72
II	**16P2PHYT07**: Condensed Matter Physics	4	4		72
II	**16P2PHYT08**: Thermodynamics and Statistical Mechanics	3	3		54
II	**16P2PHYP02**: Electronics Practical General Physics Practical	10	4 4		180
III	**16P3PHYT09**: Quantum Mechanics - II	4	4	15	72
III	**16P3PHYT10**: Computational Physics	4	4		72
III	**16P3PHYT11:** Microelectronics and Semiconductor Devices.	4	4		72
III	**16P3PHYT12:** Integrated Electronics and Digital Signal Processing	3	3		54
III	**16P3PHYP03**: Computational Physics Practical	10	***		180
IV	**16P4PHYT13**: Atomic and Molecular Physics	4	4	27	72
IV	**16P4PHYT14**: Nuclear and Particle Physics	4	4		72
IV	**16P4PHYT15:** Optoelectronics	4	4		72
IV	**16P4PHYT16:** Instrumentation and Communication Electronics	3	3		54
IV	**16P4PHYP04:** Advanced Electronics Practical Computational Physics Practical	10	4 4		180
IV	**16P4PHYPT**: Project/Dissertation	Nil	2		Nil
IV	**16P4PHYCV**: Comprehensive Viva Voce	Nil	2		Nil
Total Credits				80	

** Examination will be conducted at the end of the second semester.

*** Examination will be conducted at the end of the fourth semester

Extra Credits

Study visit to a research lab / industry	1
For undergoing a training with a minimum duration of 40 hours in nonconventional energy sources/energy management	2 Total extra credits = 3