Third year of Five Years integrated M.Sc (Physics) | **L** | **T** | **P** | **C**
M.Sc. - III, Semester –VI

	3	**0**	**0**	**3**

MP 308 : Introduction to Space Physics

- **INTRODUCTION TO SOLAR SYSTEM AND GEOSPACE** **(05 Hours)**
  Birth, Life & Death of a Star, H-R diagram, Energy generations in the stars
- **SUN AS A STAR** **(06 Hours)**
  Sun as an ordinary star, Inner and Outer structure, Solar radiations and its variablility
- **PLANETARY ATMOSPHERES** **(06 Hours)**
  Atmospheres of different planets and their satellites
- **EARTH ATMOSPHERE** **(05 Hours)**
  The atmospheric structure of the earth and its layers, temperature and Pressure variability and constituents in the atmosphere, ozonosphere, Ionosphere etc.
- **EFFECT OF SOLAR RADIATION ON EARTH ATMOSPHERES** **(10 Hours)**
  Solar radiation characteristics and its penetrating effect in different regions Of the atmosphere,
- **PRODUCTION OF IONOSPHERE AND ITS ROLE IN RADIO PROPAGATION** **(10 Hours)**
  Ionizing radiation and ionosphere, effect of ionosphere in communications

(Total Contact Time (Theory) : 42 Hours)

BOOKS RECOMMENDED :

1.	**Ratcliff, J. A.,**	*Introduction to ionosphere & Magnetosphere,*	Cambridge University Press.	1975
2.	**Hargreaves, J. K.,**	*The Solar Terrestrial Environment,*	Cambridge University Press	1995
3.	**Kievelson, M. J. ,**	*Introduction to Space Physics*	Cambridge University Press.	1995
4.	**Lillesand T. M. & Keifer R. W.,**	*Remote sensing & Image interpretation*	Willey.	2003
5.	**Lang, K. R.**	*Sun, Earth and Sky*	Springer	2006