

PhD Course Structure for SPASE students

Total Number of Course Credits required for a student -

With a MTech: 58 (40 compulsory credits + 18 elective credits)

With a MSc: 76 (40 compulsory credits + 36 elective credits)

With a BTech: 94 (40 compulsory credits + 54 elective credits)

The compulsory basket of courses has been divided into modular courses in three classes. Each modular course is 5 credits

Math Methods Courses: 2 modules have to be taken out of 4 modules

1. SPA 622 M Mathematical Techniques in Space Science and Engineering
2. SPA 623 M Numerical Techniques in Space Science and Engineering

These two are offered the upcoming sem - other two will be in the Holi Semester.

3. To be announced
4. To be announced (stats and data analysis)

Physics Concepts Courses: 3 out of 4 modules will be taken

1. SPA 614M Introduction to Celestial Mechanics
2. SPA 618M Introduction to Radiative Processes in Space

Are being offered this semester. Other two courses will be offered next sem.

3. Introduction to Fluid Mechanics in Space
4. Introduction to Geology: Measuring the Heartbeat of a Planetary Body

Instrumentation/Observational Courses (2 compulsory + 1 out of 3 modules has to be taken)

1. SPA 617M Space Instrumentation Laboratory (compulsory - no option)
2. SPA 613M Introduction to Celestial Observational Techniques (compulsory - no option)

There is one more out of 3 courses to be taken

3. Introduction to Planetary Remote Sensing
4. To be announced
5. To be announced

In addition to these courses, each semester you have to do the remaining credits as elective course credits from the elective basket. You may also choose to do a modular course as an elective course in addition to the one that you have taken for satisfying the compulsory course requirement.