



5.3 PROGRAMME SCHEDULE

| Module | Credit Points | Courses | Req./ Ele. | Sem.1 CP | Sem. 2 CP | Sem. 3 CP | Sem. 4 CP |
|--|----------------|--|------------|----------|-----------|-----------|------------|
| A Space Technology | min. 27 | | | | | | |
| Fundamentals of Space Technology | 9 | Fundamentals of Space Technology (1) | Req. | 6 | | | |
| | | Fundamentals of Space Technology (2) | | | 3 | | |
| Satellite Technology | 6 | Satellite Technology | Req. | 6 | | | |
| Space Electronics | 6 | Space Electronics (1) | Req. | 3 | | | |
| | | Space Electronics (2) | | | 3 | | |
| Radiation Workshop | 3 | Radiation Workshop | Ele. | | 3 | | |
| Spacecraft Dynamics and Control | 9 | Spacecraft Dynamics and Control 1 | Ele. | 3 | | | |
| | | Spacecraft Dynamics and Control 2 | | | 6 | | |
| Spacecraft Propulsion Systems | 6 | Spacecraft Propulsion Systems | Ele. | | | 6 | |
| Space Sensors and Instruments | 6 | Space Sensors and Instruments | Ele. | | 6 | | |
| B Space System Design | min. 15 | | | | | | |
| Space System Design Project | 9 | Space System Design Project | Req. | | 9 | | |
| Space Technology Project | 9 | Space Technology Project | Ele. | | | 9 | |
| Planetary Exploration and Space Robotics 2 | 6 | Planetary Exploration and Space Robotics 2 | Ele. | | | 6 | |
| C Space Operations | min. 12 | | | | | | |
| Space Mission Planning and Operations | 6 | Space Mission Planning and Operations | Req. | 6 | | | |
| Human Spaceflight | 6 | Technical Aspects of Human Spaceflight | Ele. | | 3 | | |
| | | Space Psychology | | 3 | | 3 | |
| Space Flight Mechanics | 6 | Space Flight Mechanics | Ele. | | | 6 | |
| Introduction to Satellite Geodesy | 6 | Introduction to Satellite Geodesy | Ele. | 6 | | | |
| Satellite Geodesy | 6 | Geodetic Space Procedures in Earth System Research | Ele. | | 6 | | |
| Satellite Communication | 6 | Satellite Communication | Ele. | | | 6 | |
| D Interdisciplinary | min. 6 | | | | | | |
| Project Management | 6 | Project Management | Ele. | 6 | | 6 | |
| Innovation Management and Entrepreneurship | 6 | Innovation Management and Entrepreneurship | Ele. | 6 | | 6 | |
| Soft Skills | 3 | Soft Skills | Ele. | 3 | | 3 | |
| German for Engineers | 3-9 | German for Engineers | Ele. | 3 | 3 | 3 | |
| Total (modules only) | 90 | | | | | | |
| Master thesis | 30 | | | | | | 30 |
| Total | 120 | | | | | | 120 |