

Erasmus+ - Undergraduate Studies

- [Fall Semester](#)
- [Spring Semester](#)

Fall Semester - Undergraduate Studies

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| | | | 1st |
| | | | ECTS |
| | | | PM101 Analytic Geometry |
| | 7 | | |
| | | | PM102 Introduction to Algebra and Set Theory |
| | 8 | | |
| | | | PC103 Calculus I |
| | 7 | | |
| | | | IC102 Basic Principles of Programming - Fortran 90 |
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| | | | 2nd |
| | | | ECTS |
| | | | PM106 Calculus III |
| | 8 | | |
| | | | AM201 Introduction to Ordinary Differential Equations |
| | 7 | | |
| | | | IC204 Introduction to Numerical Analysis |
| | 7 | | |
| | | | ST201 Probability I |
| | 8 | | |
| | | | |
| | | | 3rd |
| | | | ECTS |

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| □ | □ | □ | □ | DI432 Introduction to Educational Studies |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | DI433 School Mathematics Curricula and Learning |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | DI463 History of Mathematics |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | PM462 General Topology II (not offered this year) |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | PM463 Tensor Analysis and Geometry |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | AM464 Special Functions |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | AM465 Topics in Classical Mechanics |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | AM466 Fluid Mechanics |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | ST462 Selected Topics in Probability and Statistics |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | ST463 Nonparametric Statistics |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | IC463 Numerical Solution of Transcendental Equations |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | IC361 Concurrent Programming using Ada |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | IC334 Numerical Linear Algebra |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | IC336 Data Structures |
| □ | □ | 6 | □ | □ |
| □ | □ | □ | □ | 11461 Undergraduate Thesis (lasts two semesters) |
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Spring Semester - Undergraduate Studies

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| □ | □ | 6 | IC233 Mathematical Foundations of Theory of Co | □ |
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| □ | □ | 6 | PM310 Complex Analysis | □ |
| □ | □ | □ | PM332 General Topology | □ |
| □ | □ | □ | PM333 Differential Geometry II | □ |
| □ | □ | 6 | AM333 Special Relativity | □ |
| □ | □ | □ | AM262 Analytical Mechanics | □ |
| □ | □ | □ | AM263 Integral Equations | □ |
| □ | □ | □ | DI361 Mathematical Logic | □ |
| □ | □ | □ | ST332 Mathematical Programming | □ |
| □ | □ | □ | ST333 Mathematical Statistics II | □ |
| □ | □ | □ | IC335 Numerical Solution of Ordinary Differentia | □ |
| □ | □ | □ | ST361 Simulation Methods | □ |
| □ | □ | □ | IC362 Microcomputers | □ |
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3
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ECTS

4
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| | | ECTS | |
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| | 6 | PM438 Functional Analysis | |
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| | 6 | AM437 Operator Theory | |
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| | 6 | AM438 Fourier Transform, Distributions and Applications | |
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| | 6 | DI434 Problem Solving and the forming of Definitions | |
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| | 6 | PM464 Elements of Commutative Algebra | |
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| | 6 | AM469 Dynamical Astronomy | |
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| | 6 | AM468 Introduction to Modern Physics | |
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| | 6 | AM467 Chaos and Fractals | |
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| | 6 | DI465 Natural Language and the Language of Mathematics | |
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| | 6 | IC464 Introduction to Interval Analysis | |
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| | 6 | ST464 Actuarial Mathematics | |
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| | 6 | ST437 Introduction to Data Analysis | |
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| | 6 | ST438 Theory of Sampling | |
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| | 6 | IC438 Algorithms and Complexity | |
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| | 6 | ST465 Queuing Theory | |

```
var msc1tab=new ddtabcontent("msc1tab") msc1tab.setpersist(true)
msc1tab.setselectedClassTarget("link")// "link" or "linkparent" msc1tab.init()
```


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| □ | □ | 10 | |
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| □ | □ | | Algebraic Topology □ |
| □ | 10 | □ | |
| □ | □ | | Riemannian Geometry and Applications |
| □ | □ | 10 | □ |
| □ | □ | | Ordered Fields and Valuation Theory |
| □ | □ | 10 | □ |
| □ | □ | | Dimension Theory |
| □ | □ | 10 | □ |
| □ | □ | | Theory of Distributions and Fourier Analysis (not |
| □ | □ | 10 | □ |
| □ | □ | | Mathematical Logic |
| □ | □ | 10 | □ |
| □ | □ | | Complex Analysis |
| □ | □ | 10 | □ |
| □ | □ | | Partial Differential Equations |
| □ | □ | 10 | □ |
| □ | □ | | Non Linear Wave Equations |
| □ | □ | 10 | □ |
| □ | □ | | Mathematical Physics |
| □ | □ | 10 | □ |
| □ | □ | | Applications of Logic to the Analysis of Mathemat |
| □ | □ | 10 | □ |
| □ | □ | | Problem Solving and Proof |
| □ | □ | 10 | □ |
| □ | □ | | Fundamental Concepts and Philosophy of Mathem |
| □ | □ | 10 | □ |
| □ | □ | | Computational Intelligence |
| □ | □ | 10 | □ |
| □ | □ | | Interval Analysis |
| □ | □ | 10 | □ |
| □ | □ | | Numerical Solution of Ordinary Differential Equat |
| □ | □ | 10 | □ |
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| | | 2 | nd |
| | | ECTS | |
| | | | Master Thesis (two semesters) |
| | | 40 | |
| | | | |

```
var msc2tab=new ddtabcontent("msc2tab") msc2tab.setpersist(true)  
msc2tab.setselectedClassTarget("link") //"link" or "linkparent" msc2tab.init()
```

For further information please contact any of the following faculty members of the Erasmus+ committee:

- Andreas Arvanitoyeorgos, Coordinator, arvanito@math.upatras.gr
- Sotiris Kotsiantis, sotos@math.upatras.gr
- Dimitrios Georgiou, georgiou@math.upatras.gr
- Tasos Bountis, bountis@math.upatras.gr
- Panagis Karazeris, pkarazer@math.upatras.gr
- Vagia Vlachou, vvlachou@math.upatras.gr