

Please find below the list of courses and course descriptions available for Erasmus students at the Faculty of Technology and Education in the academic year **2016/2017**. (Click on the course title to see the extended description of the course).

| Department of Mechatronics and Applied Mechanics | | |
|---|---|--------------------|
| No | Course title | ECTS points |
| 1 | <u>Introduction to mechatronics</u> | 3 |
| 2 | <u>Mechatronics</u> | 4 |
| 3 | <u>Calculus of probability and statistics</u> | 3 |
| 4 | <u>Relational database management systems</u> | 2 |
| 5 | <u>Revision and mechatronic systems design in automotive vehicles</u> | 5 |
| 6 | <u>Strength of materials</u> | 4 |
| 7 | <u>Technical mechanics</u> | 4 |
| 8 | <u>Engineering graphics and engineering drawing</u> | 4 |
| 9 | <u>Computer and programming</u> | 4 |

| Department of Pedagogy and Education Studies | | |
|---|--|--------------------|
| No | Course title | ECTS points |
| 1 | <u>General psychology</u> | 6 |
| 2 | <u>Psychology of stress</u> | 2 |
| 3 | <u>Comparative education</u> | 4 |
| 4 | <u>Intercultural education</u> | 3 |
| 5 | <u>Communication and proper language use</u> | 3 |
| 6 | <u>Theoretical bases of education</u> | 6 |
| 7 | <u>Methodology of teaching English in the nursery and early school education</u> | 3 |
| 8 | <u>Teaching English in kindergarten and early school education</u> | 3 |
| 9 | <u>Special education</u> | 6 |

| Department of Technical Physics and Nanotechnology | | |
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| Division of Fundamentals of Materials Science and | | |

| Technical Ceramics | | |
|---------------------------|---|--------------------|
| No | Course title | ECTS points |
| 1 | <u>General chemistry</u> | 5 |
| 2 | <u>Chemistry laboratory</u> | 2 |
| 3 | <u>Fundamentals of composite technology</u> | 4 |
| 4 | <u>Fundamentals of materials science</u> | 3 |
| 5 | <u>Materials for electronics</u> | 2 |
| 6 | <u>Methods and techniques of material testing 1</u> | 3 |
| 7 | <u>Methods and techniques of material testing 2</u> | 3 |
| 8 | <u>Physics 1</u> | 5 |
| 9 | <u>Physics 2</u> | 5 |
| 10 | <u>Physics lab</u> | 2 |
| 11 | <u>Vacuum and plasma</u> | 5 |

| Department of Biomedical Engineering | | |
|---|---|--------------------|
| No | Course title | ECTS points |
| 1 | <u>Introduction to medical science</u> | 5 |
| 2 | <u>Human anatomy and physiology</u> | 2 |
| 3 | <u>Computer methods of biomedical engineering</u> | 2 |
| 4 | <u>Sensors and biosensors - lab</u> | 3 |
| 5 | <u>Basic principles of radiotherapy</u> | 3 |