
BACHELOR'S DEGREE IN INDUSTRIAL TECHNOLOGIES AND ECONOMIC ANALYSIS (UPC-UPF)

Curriculum

1st course

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| Calculus I | 6 ECTS | UPC |
| Algebra and Geometry | 6 ECTS | UPC |
| Physics I | 6 ECTS | UPC |
| Programming | 6 ECTS | UPC |
| Chemistry | 6 ECTS | UPC |
| Calculus II | 6 ECTS | UPC |
| Physics II | 6 ECTS | UPC |
| Probability and Statistics | 6 ECTS | UPF |
| Introduction to Economics | 6 ECTS | UPF |
| Introduction to Game Theory | 6 ECTS | UPF |

2nd course

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| Mechanics | 6 ECTS | UPC |
| Numerical Methods in Engineering | 6 ECTS | UPC |
| Industrial Design | 6 ECTS | UPC |
| Microeconomics I | 6 ECTS | UPF |
| Macroeconomics I | 6 ECTS | UPF |
| Mechanism and Machine Theory | 6 ECTS | UPC |
| System Dynamics | 4.5 ECTS | UPC |
| Continuum Mechanics | 4.5 ECTS | UPC |
| Quality Management | 3 ECTS | UPC |
| Microeconomics II | 6 ECTS | UPF |
| Macroeconomics II | 6 ECTS | UPF |

3rd course

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| Science and Technology of Materials | 6 ECTS | UPC |
| Thermodynamics | 6 ECTS | UPC |
| Manufacturing | 3 ECTS | UPC |
| Modelling, Optimisation and Simulation | 4.5 ECTS | UPC |
| Production Management | 4.5 ECTS | UPC |
| Econometrics | 6 ECTS | UPF |
| Strength of Materials | 6 ECTS | UPC |
| Electrotechnics | 6 ECTS | UPC |
| Fluid Mechanics | 6 ECTS | UPC |
| Microeconomics III | 6 ECTS | UPF |
| Macroeconomics III | 6 ECTS | UPF |

4th course

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| Digital Control | 4.5 ECTS | UPC |
| Project Management | 4.5 ECTS | UPC |
| Electric Machinery | 4.5 ECTS | UPC |
| Environmental Engineering | 4.5 ECTS | UPC |
| Data Management | 6 ECTS | UPF |
| Optional Subject I | 6 ECTS | UPF |
| Heat Transfer | 6 ECTS | UPC |
| Electronics | 6 ECTS | UPC |
| Optional Subject II | 6 ECTS | UPF |
| Bachelor's Thesis | 12 ECTS | UPC/UPF |

Choices for Optional Subjects:

Advanced Econometrics, Advanced Game Theory, Behavioural Economics, Big Data, Environmental Economics, Ethics and Welfare Economics, Experimental Economics, Financial Economics, Industrial Organisation, Innovation and Technological Change, International Economics, Negotiation and Public Economics