



UNIVERSITY
POLITEHNICA
OF BUCHAREST

INDUSTRIAL ENGINEERING

*Faculty of Engineering
and Management of
Technological Systems*

INDUSTRIAL ENGINEERING



Short description and main objectives:

Industrial Engineering is the first specialization in this field, in English, created in Romania. Centred on Manufacturing Processes and Product Life Cycle Management, Industrial Engineering covers a wide range of fields from economics and management to manufacturing architectures design, from virtual and rapid prototyping to industrial logistics and robotics. This specialization is addressed to English speaking students willing to work in Industrial Engineering international collaborative networks. Students are involved in group projects developed within internships in multinational companies in partnership with the Faculty. The academics staff, with a high level in research and training, conducts education in several prestigious and reknown training programs and have established a lot of partnerships with famous universities from Europe.

Other information:

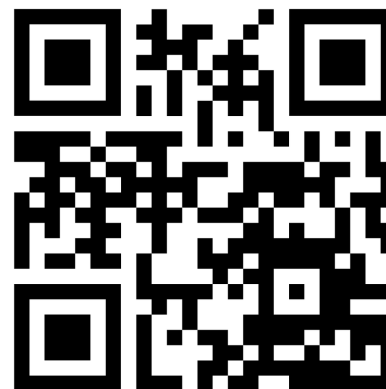
- Double degree, incoming Erasmus students, partnership to industry/companies, possibility to develop master thesis related to industry, etc.
- An increasing number of Erasmus Incoming students from foreign universities are enrolled in this study programme, ensuring the framework for sharing and cooperating in multicultural teams.
- As an Erasmus student, the Erasmus+ application procedure is applied, while for other students, the University admission process is applied.

Call for applications:

- 30.06 for the 1st semester
- 30.11 for the 2nd semester

Upon request, a postponed deadline may be accepted.

Curriculum:



CURRICULUM

1st year - 1st semester

Courses		ECTS
Name	Code	
Technical Mechanics	UPB.06.D.01.O.001	5
General Chemistry	UPB.06.F.01.O.002	4
Mathematics 1	UPB.06.F.01.O.003	5
Computer Programming 1	UPB.06.F.01.O.004	6
Communication	UPB.06.C.01.O.005	4
English language	UPB.06.C.01.O.006	3
Foreign Languages 1 - French	UPB.06.C.01.A.008	3
Foreign Languages 1 - Romanian	UPB.06.C.01.A.009	
Sport	UPB.06.C.01.L.001	2

1st year - 2nd semester

Courses		ECTS
Name	Code	
Mechanics of Materials 1	UPB.06.D.02.O.001	6
Mathematics 2	UPB.06.F.02.O.002	5
General Physics	UPB.06.F.02.O.003	5
Materials Science	UPB.06.D.02.O.004	5
Computer Programming 2	UPB.06.F.02.O.005	6
European Culture and Civilization	UPB.06.C.02.A.006	3

2nd year - 1st semester

Courses		ECTS
Name	Code	
Technical Drawing	UPB.06.F.03.O.001	6
Mechanics of Materials 2	UPB.06.D.03.O.002	7
Probability and Statistics	UPB.06.F.03.O.003	5
Computer Aided Design 1	UPB.06.D.03.O.004	6
Databases	UPB.06.F.03.O.005	6

2nd year - 2nd semester

Courses		ECTS
Name	Code	
Tolerances Design	UPB.06.D.04.O.001	5
Materials Technology	UPB.06.D.04.O.002	5
Economics	UPB.06.S.04.O.003	4
Computer Aided Design 2	UPB.06.D.04.O.004	6
Machine elements	UPB.06.D.04.O.005	6
Modelling and simulation	UPB.06.D.04.A.006	4

3rd year - 1st semester

Courses		ECTS
Name	Code	
Mechanical Systems Design	UPB.06.D.05.O.001	4
Instrumentation and Measurement	UPB.06.S.05.O.002	4
System and Project Management	UPB.06.S.05.O.003	5
Manufacturing Processes 1	UPB.06.S.05.O.004	7
Computer Aided Engineering	UPB.06.S.05.O.005	6
Finite Element Analysis of Solids	UPB.06.S.05.A.006	4
Foreign Languages 5 - French	UPB.06.C.05.L.001	5
Foreign Languages 5 - Romanian	UPB.06.C.05.L.001	5
Foreign Languages 5 - German	UPB.06.C.05.L.001	5
Psychology	UPB.06.C.05.L.002	5

3rd year - 2nd semester

Courses		ECTS
Name	Code	
Production and Operation Management	UPB.06.S.06.O.001	5
Machine Tools	UPB.06.D.06.O.002	4
Robotics	UPB.06.S.06.O.003	4
Manufacturing Processes 2	UPB.06.S.06.O.004	4
Engineering Economics	UPB.06.S.06.O.005	4
Practical Stage (240 hours/8 weeks)	UPB.06.D.06.O.006	6
Supply Chain Management	UPB.06.S.06.A.007	3

4th year - 1st semester

Courses		ECTS
Name	Code	
Computer Aided Manufacturing	UPB.06.S.07.O.001	6
Industrial Logistics	UPB.06.S.07.O.002	7
Product Design and Development	UPB.06.D.07.O.003	7
Integrated Production Systems	UPB.06.S.07.O.004	7
Leadership Lab	UPB.06.S.07.A.001	3

4th year - 2nd semester

Courses		ECTS
Name	Code	
Entrepreneurship and Innovation	UPB.06.D.08.O.001	6
Technology Strategy	UPB.06.S.08.O.002	7
Quality Assurance	UPB.06.D.08.O.003	7
Graduate project	UPB.06.S.08.O.005	10

Website:

