

Incoming student mobility

Name of UNIOS University Unit: Mechanical Engineering Faculty in Slavonski Brod

COURSES OFFERED IN FOREIGN LANGUAGE FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS

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| Department or Chair within the UNIOS Unit | Department of Industrial Engineering |
| Study program | Mechanical Engineering |
| Study level | Undergraduate (bachelor) |
| Course title | Production and Operations Management |
| Course code (if any) | P 502 |
| Language of instruction | English |
| Brief course description | <p>Students will be introduced to business, preparation and manufacturing or service processes in enterprises. One of the objectives is to teach students about: process planning, calculation of cutting parameters and definition of lead and setup time. Students will be informed about the following functions: construction-design function, technological and operative function as well as material and tool preparation function in different types of manufacturing processes.</p> <p>Application of CAD, CAM and CAPP systems in production preparation will be explained. Students will be introduced to existing and new trends in production organization. "Production management" term will be explained. Students will be introduced to production planning methods (line charts, network planning techniques, operations research methods, Petri network, genetic algorithms and neural network). Current issues such as scheduling methods and models, priority rules, interoperation time and division of a series will be discussed. Inventory management models in single, batch, serial and continuing productions will be explored. Finally, topics on cost management, direct and indirect costs, and cost place and bearer will be dealt with.</p> |
| Form of teaching | Lectures and exercises |
| Form of assessment | Course based assessment; Written and oral exam |

ERASMUS+

EU programme for education, training, youth and sport

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| Number of ECTS | 6 |
| Class hours per week | 3 hours of lectures + 3 hours of exercises |
| Minimum number of students | 5 |
| Period of realization | Summer semester |
| Lecturer | Full Prof. Dr. Goran Šimunović Full Prof. Dr. Roberto Lujčić |