

**Incoming student mobility****Name of UNIOS University Unit: Mechanical Engineering Faculty in Slavonski Brod****COURSES OFFERED IN FOREIGN LANGUAGE  
FOR ERASMUS+ INDIVIDUAL INCOMING STUDENTS**

Department or Chair within the UNIOS Unit	Department of Production Engineering
Study program	Mechanical Engineering
Study level	Graduate (master)
Course title	<b>Polymers Processing</b>
Course code (if any)	P 784
Language of instruction	English
Brief course description	Introduction and historical development of polymer parts production. Development of new polymer materials and products. Systematization of polymer parts production. Polymers. Theoretical basics of polymer processing: processing properties, rheological properties, thermal properties and heat exchange. Compounding of polymers. Continuous procedures of polymer processing: Calendring, Extrusion, Coating. Cyclic procedures of polymer processing: Casting, Rotational moulding, Compression moulding, Transfer Moulding, Injection moulding. Reshaping procedures: Blow Moulding, Thermoforming, and Stretching. Production procedures of foamed and reinforced parts. Separation, bonding, coating. Polymer recovery.
Form of teaching	Lectures/Exercises
Form of assessment	Written exam/Oral exam
Number of ECTS	<b>5</b>
Class hours per week	2 hours of lectures + 2 hours of exercises
Minimum number of students	10
Period of realization	Winter semester
Lecturer	Full Prof. Dr. Pero Raos