

Title Plastics Technology (Technologia tworzyw sztucznych)	Code 1010707281010720600
Field Chemical Technology	Year / Semester 4 / 8
Specialty Polymer Technology	Course core
Hours Lectures: 2 Classes: - Laboratory: 3 Projects / seminars: 2	Number of credits 13
	Language polish

Lecturer:

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Status of the course in the study program:

- specialistic

Assumptions and objectives of the course:

Gaining the knowledge and expertise in the field of industrial methods of polymer synthesis, as well as polymeric materials preparation, properties and applications.

Contents of the course (course description):

Historic background of plastics technology.
Areas of application of polymeric materials.
Raw materials for plastics production.
Industrial methods of polymer synthesis ? physical and chemical background, apparatus, chemical plants.
Polymers produced by chain-growth and step-growth method - chemistry, industrial methods of production, properties, processing, application.
Nature-derived polymers and their technology.
Modification of polymers.

Introductory courses and the required pre-knowledge:

Basics of organic chemistry, basics of polymer chemistry.

Courses form and teaching methods:

Multimedia assisted lecture, laboratory classes (methods of polymer synthesis and application, evaluation of properties of plastics); seminar (application of polymeric materials in modern fields of technology).

Form and terms of complete the course - requirements and assessment methods:

Written examination, continuous knowledge assessment during laboratory course, assessment of presentations.

Basic Bibliography:

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Additional Bibliography:

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