

Course title: Resins and their application in hair-care products

Institute/Division: FACULTY OF CHEMICAL ENGINEERING AND TECHNOLOGY

Number of contact hours: 15 hours (15 h lectures)

Course duration: 1 semester (6th semester of regular I cycle studies - spring)

ETCS credits: 1

Course description: The course covers the application of natural and modified resins in hair-care products, especially styling foams, gels and sprays as well as in personal care products. Lectures will be focused on the resins properties, structures and obtaining methods. The relationship between resins physicochemical properties and their film characteristics will be also explained. The application of resins and other polymers in styling products and conditioners including biological targets, safety issues, and the legal and regulatory aspects of this large industry will be described.

Education effects :

- knowledge: knowledge of resins application and their role in hair-care and personal-care products, characteristics of methods and technologies of obtaining semisynthetic resins and polymers for personal care products
- skills: the ability to characterize various resins physicochemical properties, describe their structures
- social: drawing conclusions, the ability to associate facts and look for cause and effect relationships

Literature: [1] NIIR Board of Consultants & Engineers: —The Complete Technology Book on Synthetic Resins with Formulae & Processes, Delhi, 2005, National Institute of Industrial Research
[2] Xian Jun Loh: — Polymers for Personal Care Products and Cosmetics, London, 2016, Royal Society of Chemistry

Assessment method: Final test

Prerequisites: Basic knowledge in organic and inorganic chemistry and technology.

Primary target group: Students from all specialties

Lecturer: M. Malinowska

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Remarks: The course is selectable