

Course title:	Inorganic Chemical Technology
Institute/Division:	FACULTY OF CHEMICAL ENGINEERING AND TECHNOLOGY
Number of contact hours:	15 hours (15 h lectures)
Course duration:	1 semester (6 th semester of regular I cycle studies - spring)
ETCS credits:	1

Course description:

Inorganic fertilizers production technologies and rules for its application: Characteristic of soil environment, functions and division of selected nutrients, fertilizers classification, raw materials characteristic, production technologies of nitrogen and phosphoric fertilizers, characteristic and problems of the fertilizers market, new solutions at raw materials/ Sodium phosphates production technologies and its application./ Analysis of basic inorganic technologies- analysis and assessment of technological processes, advantages and disadvantages of basic inorganic technologies and directions of its development/

Education effects :

- knowledge : student knows raw materials, production methods used in chemical technology and innovations. Students knows selected problems and solutions in chemical industry.
- skills: student understands method for production of basic chemical materials; is able to predict the characteristic features of such technologies and its influence on environment
- social: student is able to work independently and in the group when solving the problems related to Chemical technology

Literature:

- [1] Martin B. Hocking — Handbook of Chemical Technology and Pollution control (3rd Ed.), 2005,Elsevier;
- [2] Wan Wazer Phosphorus and its Compounds — Phosphorus and its Compounds, London, 1958, Interscience publishers;
- [3] Salah M. El-Haggar — Sustainable Industrial Design and Waste Management, 2007, Elsevier Ltd

Assessment method:	Final tests or presentations, presence on lectures.
Prerequisites:	Basic course on general, inorganic and organic chemistry.
Primary target group:	Students from all specialties

Lecturer:	dr inż. K.Gorazda
Contact person:	dr inż. K.Gorazda, e-mail: gorazda@chemia.pk.edu.pl

Remarks:	Regular course
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