



Course title: Production engineering

ECTS credit allocation (and other scores): 2

Semester: autumn

Level of study: ISCED-6 - first-cycle programmes (EQF-6)

Branch of science: Engineering and technology

Language: English

Number of hours per semester: 30

Course coordinator/ Department and e-mail: Wojciech Rejmer, Department of Machines and Materials Technology.

Type of classes: classes and lectures

---

#### Substantive content

CLASSES: calculation of machine park production rate, calculation of production according to production cycle, calculation of supplies based on min – max method, calculation of supplies based on MRP method, calculation of Kan – ban cards.

LECTURES: production structure, production organization, production cycles, production ability, machine park design, planning of production

Learning purpose: Provide students with knowledge of production organization and planning

---

On completion of the study programme the graduate will gain:

Knowledge: Knowledge of methods of production planning and design

Skills: Ability to calculate parameters of production park

Social Competencies: Awareness of health and safety regulations and engineers influence .

---

Basic literature: Dileep R. Sule, Production Planning and Industrial Scheduling, Examples, Case Studies and Applications; Stephen N. Chapman, The Fundamentals of Production Planning and Control

Supplementary literature: Yacob Khojasteh, Production Management Advanced Models, Tools, and Applications for Pull Systems

---

Contact hours with an academic teacher: 30

Student's independent work: 20