UNIVERSITY OF NIŠ

Course Unit Descriptor	Faculty	Faculty of Mechanical Engineering

GENERAL INFORMATION

Study Program	**Energy and Process Engineering**
Study Module (if applicable)	-
Course Title	Hydraulic and pneumatic transport
Level of Study	☐ Bachelor ☒ Master's ☐ Doctoral
Type of Course	☐ Obligatory ☒ Elective
Semester	☒ Autumn ☐ Spring
Year of Study	I
Number of ECTS Allocated	6
Name of Lecturer/Lecturers	dr Saša Milanović, dr Jasmina B. Bogdanović-Jovanović
Teaching Mode	☒ Lectures ☐ Group tutorials ☐ Individual tutorials ☐ Laboratory work ☒ Project work ☒ Seminar ☐ Distance learning ☐ Blended learning ☐ Other

Purpose and Overview (max. 5 sentences)

The aim of the course is introducing students to hydraulic and pneumatic transport. Student gain knowledge about hydraulic and pneumatic transport systems, their operation characteristics and maintenance.

Syllabus (brief outline and summary of topics, max. 10 sentences)

1) Types of materials that can be transported by hydraulic or pneumatic transport systems. 2) Characteristic examples hydraulics and pneumatics transport. 3) The basic parameters of transport in the fluid flow, 4) The forces acting on the material particles which are transported in the fluid flow. 5) Conveying systems. 6) Transport of fluidized material. 7) Hydraulic transport of material. 8) Calculation of hydraulic and pneumatic transport systems.

Language of Instruction

☒Serbian (complete course)   ☒ English (complete course)   ☐ Other _____ (complete course)

☐Serbian with English mentoring   ☐Serbian with other mentoring _____

Assessment Methods and Criteria

Pre exam Duties	Points	Final Exam	Points
Activity During Lectures	**5**	**Written Examination**	**Max 40, depending on Teaching Colloquia**

Practical Teaching	5	Oral Examination	50
Teaching Colloquia	40	Overall Sum	100

*Final examination mark is formed in accordance with the Institutional documents