

Heat exchange in process systems

(course title)

COURSE SYLLABUS ABSTRACT

1-40 05 01 Information systems and technologies (majors in)

(speciality code and name)

1-40 05 01-01 Information systems and technologies (in designing and producing)

(specialisation code and name)

	STUDY MODE		
	full-time	part-time	part-time (shortened program)
Year	2	3	2
Semester	4	5	3
Lectures, hours	34	8	8
Practical classes (seminars), hours	34	8	8
Pass/fail, semester	4	5	3
Contact hours	68	16	16
Independent study, hours	76	128	128
Total course duration in hours / credit units	144/4		

1. Course outline

Thermal conductivity. Convective heat exchange. Radiation heat exchange.

2. Course learning outcomes

Upon completion of the course, students will be expected to know:

– basic laws of heat conduction, convective heat exchange and radiation heat exchange;

be able to:

– solve problems of thermal conductivity, convective heat exchange and radiation heat exchange;

possess:

– methods for solving problems of thermal conductivity, convective heat exchange and heat transfer by radiation.

3. Competencies

SK-4 – Use the basic laws of natural science disciplines in professional activities.

4. Requirements and forms of midcourse evaluation and summative assessment

– verbal-written: protection of practical classes, test.