



RTU Course "Introduction to Study Field"

13211 Radioiekārtu katedra

General data

Code	RRI100
Course title	Introduction to Study Field
Course status in the programme	Compulsory/Courses of Limited Choice
Course level	Undergraduate Studies
Course type	Academic
Field of study	Electronics and Telecommunications
Responsible instructor	Ilmārs Slaidiņš
Academic staff	Vladimirs Ņikišins
Volume of the course: parts and credits points	1 part, 1.0 Credit Points, 1.5 ECTS credits
Language of instruction	LV, EN
Possibility of distance learning	Planned
Abstract	The course is intended for the first year students studying at academic bachelor study programmes of the Faculty of Electronics and Telecommunications. It contains information on RTU and the Faculty of Electronics and Telecommunications, study programmes and organization of studies, memory features and active learning, as well as topics from the history of telegraph, telephone and radio. Within the framework of the course the following topics will also be covered: the history of development of electronics, different signal modulations, methods used in analogue/digital television and radio broadcasting.
Goals and objectives of the course in terms of competences and skills	The learning outcome of the course will be knowledge acquired on RTU and the Faculty of Electronics and Telecommunications, study programmes and organization of studies, memory features and active learning, as well as facts from the history of telegraph, telephone and radio. Students will also develop their knowledge of history of electronics development, different signal modulations, methods used in analogue/digital television and radio broadcasting.
Structure and tasks of independent studies	Students must attend lectures, learn from provided resources, participate in the discussion forums and be prepared to pass 2 virtual tests.
Recommended literature	J. Ločmelis. Telekomunikāciju vēsture. Lattelekom muzejs. Rīga, 2000. 406 lpp. Telekomunikāciju vēsture II. Red. J. Ločmelis. Lattelekom muzejs. Rīga, 2002. 472 lpp. Telekomunikāciju vēsture III. Red. J. Ločmelis. Lattelekom muzejs. Rīga, 2005. 472 lpp. 450 lpp. Latvijas Valsts Radio un Televīzijas centrs. Vēsture. Pieejams vietnē: http://www.lvrta.lv/
Course prerequisites	Competent with Microsoft Office computer programmes, Internet

Course outline

Theme	Hours
Overview of the course, presentation of Students' Self-Government and ORTUS.	2
History and structure of RTU and the Faculty of Electronics and Telecommunications. Study process and administration.	2
History of telecommunications: telegraph, telephone and radio.	2
History of electronics: electron tube, amplitude and frequency modulation.	2
Development of semiconductor electronics: transistor, integrated circuit, Moore's Law.	2
History of television.	2
Digital radio and television (DAB, DVB).	2
Final test.	2

Learning outcomes and assessment

Learning outcomes	Assessment methods
Knowledge about history of RTU and the Faculty of Electronics and Telecommunications, study process, memory features, active learning, as well as facts from the history of telegraph, telephone and radio.	Students must pass test in virtual environment and get at least 8 points from 10.
Knowledge about history of electronics development, modulation and other methods used in analogue/digital television and radio broadcasting.	Students must pass test in virtual environment and get at least 8 points from 10.

Study subject structure

Part	CP	ECTS	Hours per Week			Tests		
			Lectures	Practical	Lab.	Test	Exam	Work
1.	1.0	1.5	1.0	0.0	0.0	*		