

Course title: Television
Course code: 41081
ECTS credits: 4
Requirements: None
Basic information
Level of studies: Undergraduate applied studies
Year of study: 3
Trimester: 9
Goal: Gaining the basic knowledge in the field of television technology. Introduction to television signal processing techniques and equipment. Understanding the importance of TV technology and its impact on information and communication systems.
Outcome: Upon completion of this course, students will be able to explain basic concepts in the field of television technology and to solve practical engineering problems in television practice; to use equipment and devices for digital production; to analyze the characteristics of instruments and equipment in the study environment; to evaluate different models of integrated media.
Contents of the course
Theoretical instruction
1. CHARACTERISTICS OF TELEVISION SIGNALS: Digital TV systems. Digitization and formation of elementary, program and transport streams. Digital TV signal processing.
2. SDTV and HDTV. Importance of service information. Multiplexing digital programs. Digital formats and their processing in a study environment.
3. EQUIPMENT IN TV SYSTEMS: Analysis of equipment used for TV production. Virtual studio. Television archives.
4. INTEGRATED DIGITAL MEDIA: Convergence of television and computers. Integrated device. Interactivity. Influence of the television industry and consequent effects.
Practical instruction (Problem solving sessions/Lab work/Practical training)
1. Non-linear computer editing of TV material.
2. Introduction to the work procedures of real environments of TV institutions in Serbia with national coverage.
Textbooks and References
1. W.Fisher, Digital Video and Audio Broadcasting Technology, Springer, 2010
2. H.Benoit, Digital Television, Elsevier 2008

3. EBU Technical Review 1996-2016
4. Luj Todorović, Interactive television, CLIO, RTS, 2014.
Number of active classes (weekly)
Lectures: 2
Practical classes: 2
Other types of classes: 0
Grading (maximum number of points: 100)
Pre-exam obligations: Points
Activities during lectures: 5
Activities on practical exercises: 15
Seminary work:
Colloquium: 30
Final exam: Points
Written exam: 50
Oral exam:
Lecturer
Vitomir Radosavljević, PhD
Associate
Vitomir Radosavljević, PhD