

Specification for the book of courses

Study program		Electrical Engineering and Computer Science		
Module		Electronics - Multimedia technologies		
Type and level of studies		Undergraduate Academic Studies		
The name of the course		Camera and Editing		
Lecturer (for lectures)		Pavlović D. Vlastimir		
Lecturer/associate (for exercises)		Cvetković S. Stevica		
Lecturer/associate (for OFE)		Cvetković S. Stevica		
Number of ECTS	6	Course status (obligatory/elective)	Obligatory	
Prerequisites				
Meet students with basic camera and editing functions. Explain to them all the basic information about a live picture on film and television, to know how the image is created and how it can be used for informational, artistic and entertainment purposes. Evolution of film and television through formats from film to high resolution image through HDTV, up to 4K resolution. Use of movie and TV images on television and the Internet and the phone. Phone as a super device, camera and mounting on a mobile phone.				
Course objectives				
Students are trained to creatively think in pictures, film themes, videos, jingles and other TV forms, using all the rules of film and TV schools, to use the pre-recorded frames to be used to tell the logical story to viewers using the camera and programs for completing a TV image. Appearance of MOJO (mobile journalism), and its use in rapid reporting. The advantages of MOJO on the Internet in comparison to classic television.				
Course outcomes				
Students are trained to creatively think in pictures, film themes, videos, jingles and other TV forms, using all the rules of film and TV schools, to use the pre-recorded frames to be used to tell the logical story to viewers using the camera and programs for completing a TV image. Appearance of MOJO (mobile journalism), and its use in rapid reporting. The advantages of MOJO on the Internet in comparison to classic television.				
Course outline				
Introducing students with camera, camera optics, prism, basic camera functions, camera electronics. CCD and CMOS chips, image processing. Getting acquainted with different camera systems and formats, HD and 4K formats. Processing of 3D images, recording and broadcasting. From the camera to the mobile phone, the phone as a camera. The amount of light and the effect on the exposure. Getting to know the camera functions. Plans, and framing, composition of the frame, camera motion, scattering of the scene. Film and television punctuation. Linear and nonlinear installation. Cut, frame, mounting frame and its length, ellipse, parallel editing. The dynamics of the frame, the connection of the movement. Nonlinear Systems, Adobe, Avid, Final Cut, Vegas.				
Theoretical teaching				
Students are recording and editing their films and videos based on their ideas, so that everyone has their own two short films, a short feature film or a TV spot for the exam. Practical classes take place through visits to TV studios, direct and master control rooms. Students participate in the production of some live or intermittent recorded shows on the TV station with the supervision of teachers and people from the television. They switch to key jobs, video mixer, tone master, cameraman, editor, performer, etc. They participate actively in the production of specific TV programs in studio live broadcasts, combined shows, direct broadcasts of sports events and cultural manifestations, broadcasts of TV reports, documentaries, etc. They are able to create a video clip using a mobile phone, with recording and editing applications.				
Practical teaching (exercises, OFE, study and research work)				
Students are recording and editing their films and videos based on their ideas, so that everyone has their own two short films, a short feature film or a TV spot for the exam. Practical classes take place through visits to TV studios, direct and master control rooms. Students participate in the production of some live or intermittent recorded shows on the TV station with the supervision of teachers and people from the television. They switch to key jobs, video mixer, tone master, cameraman, editor, performer, etc. They participate actively in the production of specific TV programs in studio live broadcasts, combined shows, direct broadcasts of sports events and cultural manifestations, broadcasts of TV reports, documentaries, etc. They are able to create a video clip using a mobile phone, with recording and editing applications.				
Textbooks/references				
1	Daniel Erijon, Grammar of film language, Faculty of Drama Arts, Beograd, 1982 (in Serbian).			
2	Andija Dimitrijevic, Final cut, Faculty of Drama Arts, Beograd, 1996 (in Serbian).			
3	Peter Jouns, Ability of TV cameramans, PTB, 1975 (in Serbian).			
4				
5				
Number of classes of active education per week during semester/trimester/year				
Lectures	Exercises	OFE	Study and research work	Other classes
2	2	1	0	0
Teaching methods				
Lectures, auditive exercises, laboratory exercises.				
Grade (maximum number of points 100)				
Pre-exam duties	Points	Final exam		Points
Activity during lectures	10	Written exam		
Exercises	20	Oral exam		40
Colloquia				
Projects	30			