		STUDY MODULE D	ESCRIPTION FORM		
	i the module/subject imedia systems		Code 1010335521010332072		
Field of	<sup>study</sup> mation Enginee	rina	Profile of study (general academic, practical <b>(brak)</b>	Year /Semester	
	path/specialty	-	Subject offered in: Polish	Course (compulsory, elective) elective	
Cycle of	study:		Form of study (full-time,part-time)		
	Second-c	ycle studies	part	-time	
No. of h	ours			No. of credits	
Lectur	e: 16 Classes	s: - Laboratory: 16	Project/seminars:	- 4	
Status o	f the course in the study	program (Basic, major, other)	(university-wide, from another	field)	
		(brak)		(brak)	
Educatio	on areas and fields of sci	ence and art		ECTS distribution (number and %)	
techn	ical sciences			4 100%	
Prof ema tel. 6 Elek	onsible for subje . dr hab. inż. Czesław il: czeslaw.jedrzejek @ 51 665 35 32 trryczny Piotrowo 3A, 60-965 P	Jędrzejek ⊉put.poznan.pl			
Prere	quisites in term	s of knowledge, skills an	d social competencies:	:	
1       K_W05: Student has comprehensive knowledge with theoretical foundations of IT system         modelling and analysis.					
		K_W08:has knowledge of advar	ced programming techniques	and methods	
		K_K01: potrafi myśleć i działać v	w sposób kreatywny i przedsię	biorczy	
2	Skills	K_U05: Student is able to mode	l and to analyse IT systems.		
		K_U08: Student (in cooperative intricate IT systems.	tasks) is able to formulate spec	cifications for unusual and	
3	Social competencies	K_K01: Student is able to think a	and work in a creative and inve	entive way.	
Assu	mptions and obj	ectives of the course:			
		he techniques and standards for v tandards multimedia. Practical us			
	Study outco	mes and reference to the	educational results for	r a field of study	
Know	/ledge:				
1. has	knowledge of advance	ed programming techniques and n	nethods - [K_W08]		
		dge of special purpose IT systems	s [K_W12]		
Skills	:				
		sks) is able to design and impleme the usefulness of IT tools and tee			
	I competencies:				
1. Stud to com	ent understands the r	necessity of distributing information Student tries to distribute the inform			

Assessment methods of	study outcomes	
Lecture: written final test examination checking basic knowledge of ba web programming and multimedia.	sic multimedia compression te	chnology platforms and
Project: Analysis of the performance of the encoders depending on the	e profiles and parameters.	
Analysis of the completed projects on various web development platfo	rms.	
Course descri	otion	
Lecture: Introduction to Signal Processing (sampling, a method of pre- of images and sound by international standards MP3, AAC, standard a associated with the transmission of digital video and audio.		
The Document Object Model (Document Object Model, DOM) - the re the form of the object model.	presentation of complex XML a	and HTML documents ir
JavaScript - a scripting language used to build Web pages. PHP and A	Ajax.	
Application Servers. Language HTML 5		
Standard Scalable Vector Graphics (SVG).		
Projects: 1 AAC encoding (Nero) and H.264 (x264) using libraries and 2. Execution of applications on the DOM, XQuery, and a graphical rep 3. Performance of Ajax applications (using development platforms: jQ and the data format JSON Serwery aplikacji. Język HTML 5.	presentation of a DOM tree usi	-
Standard Scalable Vector Graphics (SVG).		
Projekty: 1. Kodowanie AAC (Nero) i H.264 (X264) przy pomocy bibl 2. Wykonanie aplikacji na drzewie DOM, XQuery i graficzna reprezent 3. Wykonanie aplikacji Ajax (przy użyciu platform programistycznych: bazy danych MySql i formatu danych JSON	acja drzewa DOM przy użyciu	SVG
Basic bibliography:		
1. Nicholas C. Zakas, Professional JavaScript for Web Developers (W Series: Wrox Programmer to Programmer   Series: Wrox Programmer		er) [Paperback] 2009
2. Cristian Darie et al., AJAX and PHP Building Responsive Web App	ications, Packt Publishing, 200	06
Additional bibliography:		
1. Materials http://killerajax.com/		
2. W3C, H.264 i AAC standards		
Result of average stude	nt's workload	
Activity	Time (working hours)	
1. Lectures		30
2. Laboratories	30	
3. Preparation to laboratories	30	
4. Preparation of laboratory reports		15
Student's work	load	
Source of workload	hours	ECTS
	405	
l otal workload	105	4
Total workload Contact hours	60	4 2