| | | STUDY MODULE D | ES | CRIPTION FORM | | |
|---|--|---|-------|---|----------------------------------|---|
| Name of the module/subject Multimedia systems | | | | Code 1010332421010332072 | | |
| Field of s | ^{study} mation Enginee | ring | | Profile of study (general academic, practical (brak) |) | Year /Semester |
| | path/specialty | - | | Subject offered in: polish | | Course (compulsory, elective) elective |
| Cycle of | study: | | For | m of study (full-time,part-time) | | |
| | Second-c | ycle studies | | full- | tim | e |
| No. of h | ours | | | | | No. of credits |
| Lectur | e: 2 Classes | s: - Laboratory: 2 | | Project/seminars: | - | 5 |
| Status o | of the course in the study | program (Basic, major, other) | (| university-wide, from another | | |
| | | (brak) | | | (bra | ak) |
| Educatio | on areas and fields of sci | | | | ECTS distribution (number and %) | |
| techn | ical sciences | | | | 100 5% | |
| Prof ema tel. 6 Elek | onsible for subje . dr hab. inż. Czesław il: czeslaw.jedrzejek @ 61 665 35 32 .tryczny Piotrowo 3A, 60-965 P | y Jędrzejek ⊉put.poznan.pl | | | | |
| Prere | quisites in term | s of knowledge, skills an | d se | ocial competencies: | | |
| 1 | Knowledge K_W05: Student has comprehensive knowledge with theoretical foundations of IT system modelling and analysis. | | | | | |
| | | K_W08:has knowledge of advar | nced | programming techniques | and r | nethods |
| | | K_K01: potrafi myśleć i działać v | w sp | osób kreatywny i przedsięł | oiorc | zy |
| 2 Skills K_U05: Student is able to model and to analyse IT syst | | | | to analyse IT systems. | | |
| | | K_U08: Student (in cooperative intricate IT systems. | task | s) is able to formulate spec | cifica | tions for unusual and |
| 3 | Social competencies | K_K01: Student is able to think a | and v | work in a creative and inve | ntive | e 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 | ed | ucational results for | ' a f | ield of study |
| Know | /ledge: | | | | | |
| 1. has l | knowledge of advance | ed programming techniques and n | nethe | ods - [K_W08] | | |
| | | dge of special purpose IT systems | s [ł | K_W12] | | |
| Skills | | | | | | |
| | | sks) is able to design and impleme e the usefulness of IT tools and te | | | | |
| | I competencies: | | | | | |
| to com | | necessity of distributing information Student tries to distribute the inform | | | | |

| Assessment methods of stu | udy outcomes | |
|--|-------------------------------|-------------------------|
| Lecture: written final test examination checking basic knowledge of basic web programming and multimedia. | multimedia compression te | chnology platforms and |
| Project: Analysis of the performance of the encoders depending on the p | rofiles and parameters. | |
| Analysis of the completed projects on various web development platform | IS. | |
| Course descripti | on | |
| Lecture: Introduction to Signal Processing (sampling, a method of predict of images and sound by international standards MP3, AAC, standard JPE associated with the transmission of digital video and audio. | tion, transform, transformati | |
| The Document Object Model (Document Object Model, DOM) - the repretented form of the object model. | esentation of complex XML a | and HTML documents in |
| JavaScript - a scripting language used to build Web pages. PHP and Aja | IX. | |
| Application Servers. Language HTML 5 | | |
| Standard Scalable Vector Graphics (SVG). | | |
| Projects: 1 AAC encoding (Nero) and H.264 (x264) using libraries and pla 2. Execution of applications on the DOM, XQuery, and a graphical repre- 3. Performance of Ajax applications (using development platforms: jQuer and the data format JSON | sentation of a DOM tree usi | - |
| Serwery aplikacji. Język HTML 5. | | |
| Standard Scalable Vector Graphics (SVG). | | |
| Projekty: 1. Kodowanie AAC (Nero) i H.264 (X264) przy pomocy bibliote 2. Wykonanie aplikacji na drzewie DOM, XQuery i graficzna reprezentacj 3. Wykonanie aplikacji Ajax (przy użyciu platform programistycznych: jQu bazy danych MySql i formatu danych JSON | ja drzewa DOM przy użyciu | SVG |
| Basic bibliography: | | |
| Nicholas C. Zakas, Professional JavaScript for Web Developers (Wrox Series: Wrox Programmer to Programmer Series: Wrox Programmer to | | er) [Paperback] 2009 |
| 2. Cristian Darie et al., AJAX and PHP Building Responsive Web Applica | • |)6 |
| Additional bibliography: | , | |
| 1. Materials http://killerajax.com/ | | |
| 2. W3C, H.264 i AAC standards | | |
| 2. 000, 11.204 1700 standards | | |
| Result of average student | 's workload | |
| Activity | | Time (working hours) |
| 1. Lectures | | 30 |
| 2. Laboratories | | 30 |
| 3. Preparation to laboratories | 30 | |
| 4. Preparation of laboratory reports | 15 | |
| 5. Independent work on the lecture topics | | 20 |
| Student's worklo | ad | |
| | hours | ECTS |
| Source of workload | nouro | LUIU |
| | | |
| Source of workload Total workload Contact hours | 125 60 | 5 2 |