



Subject card

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|---|--|--|----------|-------------------------------------|---|--|-----|
| Subject name and code | Hypertext and hypermedia, PG_00045355 | | | | | | |
| Field of study | Data Engineering | | | | | | |
| Date of commencement of studies | October 2024 | Academic year of realisation of subject | | | | 2024/2025 | |
| Education level | first-cycle studies | Subject group | | | | Obligatory subject group in the field of study Subject group related to scientific research in the field of study | |
| Mode of study | Full-time studies | Mode of delivery | | | | at the university | |
| Year of study | 1 | Language of instruction | | | | English | |
| Semester of study | 1 | ECTS credits | | | | 3.0 | |
| Learning profile | general academic profile | Assessment form | | | | assessment | |
| Conducting unit | Department of Intelligent Interactive Systems -> Faculty of Electronics, Telecommunications and Informatics | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr inż. Wioleta Szwoch | | | | | |
| | Teachers | dr inż. Wioleta Szwoch dr Magdalena Godlewska dr hab. inż. Jan Daciuk | | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 0.0 | 6.0 | 20.0 | 0.0 | 41 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 41 | | 2.0 | | 32.0 | 75 |
| Subject objectives | Course aims at practical knowledge and skills of hypertext and hypermedia. | | | | | | |
| Learning outcomes | Course outcome | Subject outcome | | | Method of verification | | |
| | [K6_U02] prepares and presents convincingly professional presentations of the results of undertaken activities, with their advanced interpretation | The student describes the basic issues of the presentation, transformation and synchronization information, describes the technologies of hypermedia, and presents its own system of acquisition and presentation of information with the use of selected technologies | | | [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment | | |
| | [K6_W04] demonstrates creative and entrepreneurial activity in formulating and implementing innovative ideas | Student can arrange access to services exposed on the network. Student presents its own system of acquisition and presentation of information with the use of selected technologies. | | | [SW3] Assessment of knowledge contained in written work and projects | | |
| | [K6_W06] classifies the acquired information, assessing its usefulness in solving the formulated problems | The student describes the basic issues of the presentation, transformation and synchronization information, describes the technologies of hypermedia. | | | [SW1] Assessment of factual knowledge | | |

| Subject contents | <p>1. Introduction to Internet.</p> <p>2. Languages describing of document structure.</p> <p>3. HTML,</p> <p>4. CSS</p> <p>5. XML Logical structure and presentation</p> <p>6. DTD and XML Schema languages describing documents</p> <p>7. Transformation XSL</p> <p>8. Formating Objects (XSL:FO)</p> <p>9. Conecting content : XPath, XLink, XPointer</p> <p>10. SVG</p> | | | | | | | | | | | | | | |
|--|---|---|--|--------------------------|-------------------|-------------------------------|------------------|-------|-------|-----------------------|-------|-------|---------|-------|-------|
| Prerequisites and co-requisites | No requirements | | | | | | | | | | | | | | |
| Assessment methods and criteria | <table border="1"> <thead> <tr> <th>Subject passing criteria</th> <th>Passing threshold</th> <th>Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>Laboratory tasks</td> <td>50.0%</td> <td>30.0%</td> </tr> <tr> <td>Lecture: Written test</td> <td>50.0%</td> <td>30.0%</td> </tr> <tr> <td>Project</td> <td>50.0%</td> <td>40.0%</td> </tr> </tbody> </table> | | | Subject passing criteria | Passing threshold | Percentage of the final grade | Laboratory tasks | 50.0% | 30.0% | Lecture: Written test | 50.0% | 30.0% | Project | 50.0% | 40.0% |
| Subject passing criteria | Passing threshold | Percentage of the final grade | | | | | | | | | | | | | |
| Laboratory tasks | 50.0% | 30.0% | | | | | | | | | | | | | |
| Lecture: Written test | 50.0% | 30.0% | | | | | | | | | | | | | |
| Project | 50.0% | 40.0% | | | | | | | | | | | | | |
| Recommended reading | Basic literature | <p>1. Bates, Ch.: XML in Theory and Practice, John Wiley & Sons, 2003</p> <p>2. Mangano, S.: XSLT. Receptury. Helion 2007</p> | | | | | | | | | | | | | |
| | Supplementary literature | w3schools.com | | | | | | | | | | | | | |
| | eResources addresses | <p>Adresy na platformie eNauczenie:</p> <p>Hypertext and hypermedia 2024/25 - Moodle ID: 41704</p> <p>https://enauczenie.pg.edu.pl/moodle/course/view.php?id=41704</p> | | | | | | | | | | | | | |
| Example issues/ example questions/ tasks being completed | HTML, XML, XML Schema, XSLT, | | | | | | | | | | | | | | |
| Work placement | Not applicable | | | | | | | | | | | | | | |

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