



## Subject card

|   |  |  |   |            |  |         |     |
|---|--|--|---|------------|--|---------|-----|
| Subject name and code                       | Hypertext and hypermedia, PG_00045355  |  |   |            |  |         |     |
| Field of study                              | Data Engineering   |  |   |            |  |         |     |
| Date of commencement of studies             | October 2021   | Academic year of realisation of subject  |   |            | 2021/2022  |         |     |
| Education level                             | first-cycle studies  | Subject group  |   |            | Obligatory subject group in the field of study<br>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<br>dr Magdalena Godlewska   |   |            |  |         |     |
| 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<br>Adresy na platformie eNauczenie:   |  |   |            |  |         |     |
| 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_W04] Knows the architecture of computers, operating system processes, file systems, text processing programs, disk and ram memories management rules. Knows the problems of sharing the state, presentation and transformation of information in a distributed system, hypermedia technologies and related services, the architecture of interactive distributed simulation and agent interaction methods. | 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.   | [SW2] Assessment of knowledge contained in presentation |            |  |         |     |
|   | [K6_U01] programs in procedural, object, functional and logic programming languages, codes programs at the processor instruction level, runs and tests programs.   | 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 | [SU1] Assessment of task fulfilment                     |            |  |         |     |

| Subject contents   | 1. Introduction to Internet.<br>2. Languages describing of document structure.<br>3. HTML,<br>4. CSS<br>5. XML Logical structure and presentation<br>6. DTD and XML Schema languages describing documents<br>7. Transformation XSL<br>8. Formating Objects (XSL:FO)<br>9. Conecting content : XPath, XLink, XPointer<br>10. SVG  |   |  |                          |                   |                               |                       |       |       |                  |       |       |         |       |       |
|--|--|---|--|--------------------------|-------------------|-------------------------------|-----------------------|-------|-------|------------------|-------|-------|---------|-------|-------|
| Prerequisites and co-requisites                          | No requirements  |   |  |                          |                   |                               |                       |       |       |                  |       |       |         |       |       |
| Assessment methods and criteria                          | <table border="1"> <thead> <tr> <th data-bbox="456 949 794 976">Subject passing criteria</th> <th data-bbox="799 949 1137 976">Passing threshold</th> <th data-bbox="1142 949 1481 976">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 983 794 1010">Lecture: Written test</td> <td data-bbox="799 983 1137 1010">50.0%</td> <td data-bbox="1142 983 1481 1010">30.0%</td> </tr> <tr> <td data-bbox="456 1016 794 1043">Laboratory tasks</td> <td data-bbox="799 1016 1137 1043">50.0%</td> <td data-bbox="1142 1016 1481 1043">30.0%</td> </tr> <tr> <td data-bbox="456 1050 794 1077">Project</td> <td data-bbox="799 1050 1137 1077">50.0%</td> <td data-bbox="1142 1050 1481 1077">40.0%</td> </tr> </tbody> </table> |   |  | Subject passing criteria | Passing threshold | Percentage of the final grade | Lecture: Written test | 50.0% | 30.0% | Laboratory tasks | 50.0% | 30.0% | Project | 50.0% | 40.0% |
| Subject passing criteria                                 | Passing threshold  | Percentage of the final grade   |  |                          |                   |                               |                       |       |       |                  |       |       |         |       |       |
| Lecture: Written test                                    | 50.0%  | 30.0%   |  |                          |                   |                               |                       |       |       |                  |       |       |         |       |       |
| Laboratory tasks   | 50.0%  | 30.0%   |  |                          |                   |                               |                       |       |       |                  |       |       |         |       |       |
| Project  | 50.0%  | 40.0%   |  |                          |                   |                               |                       |       |       |                  |       |       |         |       |       |
| Recommended reading                                      | Basic literature<br>Supplementary literature<br>eResources addresses   | 1. Bates, Ch.: XML in Theory and Practice, John Wiley & Sons, 2003<br>2. Mangano, S.: XSLT. Receptury. Helion 2007<br>w3schools.com |  |                          |                   |                               |                       |       |       |                  |       |       |         |       |       |
| Example issues/ example questions/ tasks being completed | HTML, XML, XML Schema, XSLT,   |   |  |                          |                   |                               |                       |       |       |                  |       |       |         |       |       |
| Work placement   | Not applicable   |   |  |                          |                   |                               |                       |       |       |                  |       |       |         |       |       |

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