



MODULE SPECIFICATION

| Part 1: Information | | | |
|---------------------------|----------------------------------------------------|--------------------|--------------------------------------------|
| Module Title | Object-Oriented Programming (Course Project) [TSI] | | |
| Module Code | UFCFVW-6-1 | Level | Level 4 |
| For implementation from | 2021-22 | | |
| UWE Credit Rating | 6 | ECTS Credit Rating | 3 |
| Faculty | Faculty of Environment & Technology | Field | Computer Science and Creative Technologies |
| Department | FET Dept of Computer Sci & Creative Tech | | |
| Module Type: | Project | | |
| Pre-requisites | None | | |
| Excluded Combinations | None | | |
| Co-requisites | None | | |
| Module Entry Requirements | None | | |
| PSRB Requirements | None | | |

| Part 2: Description |
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| <p>Educational Aims: The aim of the module to teach students how to program and to let them develop the necessary skills of software development, using object-orientated paradigm.</p> <p>Outline Syllabus: Project assignment, work stages developing the project software, task analysis; Software design, development & testing; Documentation for software products (writing a project report paper)</p> <p>Teaching and Learning Methods: 6 hours of lectures are provided to students to explain assigned individual assignment, explain requirements and demonstrate past course paper and answer questions about assignment. Rest of time students are completing a course paper. Course paper is delivered as report which has programme code realised by students and description of the developed software using object-orientated paradigm. The report is delivered to the teaching staff using e.tsi.lv LMS. During semester dedicated consultations are available for students, around 1 consultation per week.</p> |

STUDENT AND ACADEMIC SERVICES

| Part 3: Assessment | | | |
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| First Sit Components | Final Assessment | Element weighting | Description |
| Written Assignment - Component B | ✓ | 100 % | Course paper (provided in written form with code and with demonstration of the software) |
| Resit Components | Final Assessment | Element weighting | Description |
| Written Assignment - Component B | | 100 % | Course paper (provided in written form with code and with demonstration of the software) |

| Part 4: Teaching and Learning Methods | | | | | | | | | | | | | | | | | |
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| Learning Outcomes | <p>On successful completion of this module students will achieve the following learning outcomes:</p> <table border="1"> <thead> <tr> <th>Module Learning Outcomes</th> <th>Reference</th> </tr> </thead> <tbody> <tr> <td>Understand program lifecycle and program development stages</td> <td>MO1</td> </tr> <tr> <td>Use user interface development</td> <td>MO2</td> </tr> <tr> <td>Use object-orientated paradigm for software development</td> <td>MO3</td> </tr> <tr> <td>Use proper coding style, considering OOP paradigm</td> <td>MO4</td> </tr> <tr> <td>Apply basics of documenting software products</td> <td>MO5</td> </tr> <tr> <td>Use of development environments and debuggers for program creation and testing purposes</td> <td>MO6</td> </tr> <tr> <td>Use of development environment</td> <td>MO7</td> </tr> </tbody> </table> | Module Learning Outcomes | Reference | Understand program lifecycle and program development stages | MO1 | Use user interface development | MO2 | Use object-orientated paradigm for software development | MO3 | Use proper coding style, considering OOP paradigm | MO4 | Apply basics of documenting software products | MO5 | Use of development environments and debuggers for program creation and testing purposes | MO6 | Use of development environment | MO7 |
| Module Learning Outcomes | Reference | | | | | | | | | | | | | | | | |
| Understand program lifecycle and program development stages | MO1 | | | | | | | | | | | | | | | | |
| Use user interface development | MO2 | | | | | | | | | | | | | | | | |
| Use object-orientated paradigm for software development | MO3 | | | | | | | | | | | | | | | | |
| Use proper coding style, considering OOP paradigm | MO4 | | | | | | | | | | | | | | | | |
| Apply basics of documenting software products | MO5 | | | | | | | | | | | | | | | | |
| Use of development environments and debuggers for program creation and testing purposes | MO6 | | | | | | | | | | | | | | | | |
| Use of development environment | MO7 | | | | | | | | | | | | | | | | |
| Contact Hours | <table border="1"> <thead> <tr> <th colspan="2">Independent Study Hours:</th> </tr> </thead> <tbody> <tr> <td>Independent study/self-guided study</td> <td>48</td> </tr> <tr> <td>Total Independent Study Hours:</td> <td>48</td> </tr> <tr> <th colspan="2">Scheduled Learning and Teaching Hours:</th> </tr> <tr> <td>Face-to-face learning</td> <td>32</td> </tr> <tr> <td>Total Scheduled Learning and Teaching Hours:</td> <td>32</td> </tr> <tr> <td>Hours to be allocated</td> <td>60</td> </tr> <tr> <td>Allocated Hours</td> <td>80</td> </tr> </tbody> </table> | Independent Study Hours: | | Independent study/self-guided study | 48 | Total Independent Study Hours: | 48 | Scheduled Learning and Teaching Hours: | | Face-to-face learning | 32 | Total Scheduled Learning and Teaching Hours: | 32 | Hours to be allocated | 60 | Allocated Hours | 80 |
| Independent Study Hours: | | | | | | | | | | | | | | | | | |
| Independent study/self-guided study | 48 | | | | | | | | | | | | | | | | |
| Total Independent Study Hours: | 48 | | | | | | | | | | | | | | | | |
| Scheduled Learning and Teaching Hours: | | | | | | | | | | | | | | | | | |
| Face-to-face learning | 32 | | | | | | | | | | | | | | | | |
| Total Scheduled Learning and Teaching Hours: | 32 | | | | | | | | | | | | | | | | |
| Hours to be allocated | 60 | | | | | | | | | | | | | | | | |
| Allocated Hours | 80 | | | | | | | | | | | | | | | | |

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| Reading List | <p><i>The reading list for this module can be accessed via the following link:</i></p> <p>https://rl.talis.com/3/uwe/lists/59B06D38-DF11-DEFB-9C91-A5074B26AEF8.html?lang=en-gb&login=1</p> |
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Part 5: Contributes Towards

This module contributes towards the following programmes of study:

Computer Science and Software Development [Oct][FT][TSI][4yrs] BSc (Hons) 2020-21

Computer Science and Software Development [Feb][FT][TSI][4yrs] BSc (Hons) 2020-21