

| Module Details |                                |
|----------------|--------------------------------|
| Module Title   | Enterprise Pro                 |
| Module Code    | COS5019-B                      |
| Academic Year  | 2020/1                         |
| Credits        | 20                             |
| School         | Department of Computer Science |
| Subject Area   | Computer Science               |
| FHEQ Level     | FHEQ Level 5                   |
| Pre-requisites | N/A                            |
| Co-requisites  | N/A                            |

| Contact Hours                |       |
|------------------------------|-------|
| Type                         | Hours |
| Online Lecture (Synchronous) | 6     |
| Laboratories                 | 24    |
| Demonstrations               | 6     |
| Directed Study               | 164   |

| Availability |                                     |
|--------------|-------------------------------------|
| Occurrence   | Location / Period                   |
| BDA          | University of Bradford / Semester 2 |

| Module Aims                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------|
| To provide theoretical understanding of and practical experience of a collaborative software development project. |

## Outline Syllabus

Assessment of requirements, assured quality and verification. Design and development methodology. Purpose and standards for documentation; including reflective work on applicable professional, legal and ethical issues as they appear in each project.

Group project, beginning with defined problem (user requirements), through to proven working software solution mimicking software company environments. Projects will be taken from proposals made by external clients. Resources needed:

Students will have a repository per project to maintain analysis and design documents, meeting notes, software code, deployment and user documentation. Software to share code such as Git or svn repositories will be explored

## Learning Outcomes

| Outcome Number | Description                                                                                                                                                                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01             | demonstrate a sound theoretical understanding of software project development through team work and the practical ability to implement, document and test a relatively complex software product, and reflect on professional, legal and ethical issues. |
| 02             | contribute to the design and development of a good quality software application through team work.                                                                                                                                                      |
| 03             | work collaboratively to solve problems and develop adequate communication skills                                                                                                                                                                        |

## Learning, Teaching and Assessment Strategy

Lectures introduce software engineering methodologies and software project management. These are then applied to real-life projects developed for external (e.g. industrial or research) clients. The students working in small groups are closely supervised and supported through laboratory practical sessions and their interactions within the teams and with the external clients are continuously monitored by a group tutor. Students' understanding of the problems to be solved, the ability to provide quality solutions and practical communication skills are assessed through practical demonstration of the code functionality, thorough documentation of the project and presentations made to clients, tutors and colleagues. The assessment takes into account both team contribution to the project as well as individual performance. The team contribution is based on the outcomes produced - requirements and testing documents, functionality and quality of the code. Individual assessment results from one's overall contribution to the project based on evidence produced, as well as the observations made by supervisors throughout the year regarding individual contributions and the assessment made by team members. The study contact hours include lab work complemented with appropriate lectures and demonstrations to teach methodologies and software engineering tools.

| Mode of Assessment |            |                                                                                   |        |           |
|--------------------|------------|-----------------------------------------------------------------------------------|--------|-----------|
| Type               | Method     | Description                                                                       | Length | Weighting |
| Summative          | Coursework | Part A: Group project: Documentation and demonstration of software iteration      | N/A    | 50%       |
| Summative          | Coursework | Part B: Group Project Documentation and demonstration of software - Final Product | N/A    | 50%       |
| Referral           | Coursework | Supplementary assessment: Individual project assignment                           | N/A    | 100%      |

| Reading List                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| To access the reading list for this module, please visit <a href="https://bradford.rl.talis.com/index.html">https://bradford.rl.talis.com/index.html</a> |

*Please note:*

*This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.*

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