University of Bedfordshire

Course Information Form

This Course Information Form provides the definitive record of the designated course

Section A: General Course Information

Course Title	MSc Software Engineering and Applications with Project Management
Final Award	MSc
Route Code	MSSEMAAF
Intermediate Qualification(s)	
FHEQ Level	7
Location of Delivery	University Square Campus, Luton
Mode(s) and length of study	Full time over 24 months
Standard intake points (months)	Oct, Nov, Feb, April, June and August
External Reference Points as applicable including Subject Benchmark	QAA Characteristics Statement - Master's (2020) QAA Subject Benchmark Statement Computing (2019) SEEC Credit Level Descriptors Level 7 (2016) QAA FHEQ Level Descriptors Level 7 (2014)
Professional, Statutory or Regulatory Body (PSRB) accreditation or endorsement	N/A

HECoS code(s)	100374
UCAS Course Code	N/A

Course Aims	The MSc in Software Engineering and Applications course (all variants) is about building professional software developers and helping them to create applications of latest emerging technologies. It is an ideal course for Computer Science graduates and experienced programmers who want to solve real-world problems, evaluating advanced software engineering environments, and built up complex software applications based on emerging technology with improved readability, testability, and extensibility. A range of topics from advanced programming to popular development platforms, open source frameworks, Big Data ecosystem and Cloud Computing will be explored to fulfil the goal and to open up your career opportunities.

Course Learning Outcomes

Upon successful completion of your course you should meet the appropriate learning outcomes for your award shown in the table below

	Outcome	Award
1	Demonstrate deep and systematic understanding of the key principles, methodologies and the tools used for Software Engineering.	MSc Software Engineering and Applications with Project Management
2	Undertake a substantial investigation to address significant areas of theory and/or practice in the area of the Software Engineering, selecting appropriate methodological processes and critically evaluating their effectiveness.	MSc Software Engineering and Applications with Project Management
3	Propose and justify the application of appropriate forms of advanced problem solving along with creativity and innovation to apply advanced methodologies and tools in the Software Engineering.	MSc Software Engineering and Applications with Project Management
4	Incorporate a critical ethical dimension to your practice; to systematically understand employability, legal frameworks, economics, risk and apply the standards and practices of professional bodies.	MSc Software Engineering and Applications with Project Management
5	Consistently apply, develop and evaluate tools, techniques and methods consistent with current research and or professional practice at the forefront of the specialist area of Software Engineering.	MSc Software Engineering and Applications with Project Management
6	Demonstrate comprehensive understanding and critical awareness of the current and emerging methodologies, tools, standards, and research in the subject area.	MSc Software Engineering and Applications with Project Management

	7	Identify, evaluate and maintain capabilities to support effective communication of complex ideas and developments in a comprehensive, effective, systematic and professional way using a variety of communication media (e.g. formal written Academics, essays and presentations with supporting oral communication).	MSc Software Engineering and Applications with Project Management
	8	Demonstrate a systematic understanding of and critically assess the external context in which modern organisations operate including economic, political, social and environmental change and the regulatory and governance trends impacting on different organisations.	MSc Software Engineering and Applications with Project Management
	9	Demonstrate sensitivity to the complexity of implementing plans and of achieving change in organisations both because of individual and organisational obstacles and critically appraise the methods available to managers to handle this complexity.	MSc Software Engineering and Applications with Project Management
	10	Demonstrate a systematic understanding of career planning including factors of organisational and personal collaboration that impact on career trajectories, and be able to conduct a self-evaluation of oneself against relevant skills and organisational competences to establish a personal development plan that delivers personal and organisational performance impact.	MSc Software Engineering and Applications with Project Management
	11	Demonstrate knowledge and understanding of what goes into a research proposal, the rudiments of good research design at masters level and be able to produce work of a standard consistent with research publications in your field of study, communicating conclusions clearly to a specialist and non-specialist audience.	MSc Software Engineering and Applications with Project Management
Teaching, learning and assessment strategies	The assessment strategy used is a balance of coursework, group and individual reports, portfolios, presentations or exams. Presentations are usually given and assessed in the context of a group seminar. You will also produce artefacts in the area of your specialism. The method used for the assessments will depend on the nature of the subject being taught in the unit, and the most appropriate method has been chosen. Constant feedback and advice from a supervisory or unit team will be provided to support you in your work, so that you can gain an insight into whether your work is meeting the necessary targets.		

Learning support	The University’s comprehensive student support service includes: Student Information Desk, a one-stop shop for any initial enquiries; Student Support team advising and supporting those with physical or learning needs or more general student well being; Study Hub team providing academic skills guidance; Personal Academic Tutoring system; a student managed Peer-Assisted Learning scheme; support from your lecturers
Admissions Criteria	https://www.beds.ac.uk/entryrequirements **Approved Variations and Additions to Standard Admission** N/A
	https://www.beds.ac.uk/about-us/our-university/academic-information

Assessment Regulations	**Note: Be aware that our regulations change every year** **Approved Variations and Additions to Standard Assessment Regulations'** The following variations to regulations with regards to progression is approved for this course: Variation approved to: Section 5b: Assessment Regulations for Postgraduate Taught Regulations 4. Progression The 2 year Postgraduate courses are divided into two stages: the taught component; and the Master's level independent work or dissertation. The taught component will consist of 200 credits and the dissertation stage will amount to 60 credits. Students progress to the dissertation stage provided they have attempted all elements of the prescribed assessment for the taught stage; have passed units to the value of at least 170 credits; and providing the repeat assessments (referrals) are not due to an academic offence. Students who have a retake Unit will not be allowed to progress on to the dissertation stage. Students who fail their repeat assessment (referral) will be required to cease work on their dissertation stage until they have successfully completed the retake Unit. **Award calculation algorithm** The final award is calculated on 260 credits, equally weighted. The intermediate award of PG Certificate will be calculated on the achievement of 60 credits and PG Diploma based on 120 credits achieved.

Section B: Course Structure

The Units which make up the course are listed below. Each unit contributes to the achievement of the course learning outcomes either through teaching (T), general development of skills and knowledge (D) or in your assessments (A).

Unit	Unit Name	Level	Credits	Core or Option	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
BSS060-6	Project Management	7	30	Core	DA12		DA12	DA12	DA12				DA12						
BSS064-6	Leading and Managing Organisational Resources	7	30	Core	DA12			DA12	DA12										
BSS074-6	Personal Professional Development	7	10	Core				A12			A12			A12					
CIS110-6	Distributed and Parallel Computing Technologies	7	30	Core	DA1	DA2			DA2	DA1	DA2								
CIS120-6	Research Methodologies and Project Management	7	30	Core	DA1			DA2			DA12								
CIS128-6	Software Design Patterns and Data Architectures	7	30	Core	DA1	DA2	DA2		DA2	DA1	DA12								
CIS129-6	Applied Software Development Techniques and Applications of Open Source Frameworks	7	30	Core	DA1	DA2	DA2		DA2	DA1	DA12								
CIS130-6	MSc Project - Software Engineering and Applications	7	60	Core		A1	A2	A2		A2	A12								
CIS132-6	Developing Independent Research	7	10	Core					A12					A12					

Section C: Assessment Plan

The course is assessed as follows :

MSSEMAAF-

Unit Code	Level	Period	Core/Option	Ass 1 Type code	Ass 1 Submit wk	Ass 2 Type code	Ass 2 Submit wk	Ass 3 Type code	Ass 3 Submit wk	Ass 4 Type code	Ass 4 Submit wk
BSS064-6	7	BLK1	Core	CW-EPO	3	CW-EPO	6				
CIS110-6	7	BLK1	Core	CW-PO	6						
BSS060-6	7	BLK2	Core	PR-OR	3	WR-I	6				
CIS129-6	7	BLK2	Core	PJ-ART	6						
BSS132-6	7	BLK3	Core	CW-PO	8						
CIS120-6	7	BLK3	Core	CW-PO	6						
CIS128-6	7	BLK4	Core	PJ-ART	6						
BSS074-6	7	BLK6	Core	CW-EPO	8						
CIS130-6	7	SEM3	Core	CW-ESS	3	PJ-PRO	14	CW-PO	15		

Glossary of Terms for Assessment Type Codes	
CW-EPO	Coursework - e-Portfolio
CW-ESS	Coursework - Essay
CW-PO	Coursework - Portfolio
PJ-ART	Coursework - Artefact
PJ-PRO	Coursework - Project Report
PR-OR	Practical - Oral Presentation
WR-I	Coursework - Individual Report

Administrative Information	
Faculty	Creative Arts Technologies and Science
School	School of Computer Science and Technology
Head of School/Department	Paul Sant
Course Coordinator	Renxi Qiu