LEEDS BECKETT UNIVERSITY

Course Specification

MEng Computer Science

Course Code: MENCS

2019/20

leedsbeckett.ac.uk

MEng Computer Science

Material Information Summary for 2019/20 Entrants

Confirmed at 5th October 2018

General Information

Award	Master of Engineering Computer Science
Contained Awards	Bachelor of Engineering (with Honours) Computer Science Bachelor of Engineering Computer Science Diploma of Higher Education Computer Science Certificate of Higher Education Computer Science
Awarding Body	Leeds Beckett University
Level of Qualification & Credits	Level 7 of the Framework for Higher Education Qualifications, with 120 credit points at each of Levels 4, 5 and 6 of the UK Credit Framework for Higher Education and 120 credit points at Level 7 of the UK Credit Framework for Higher Education (480 credits in total)

Course Lengths & Standard Timescales

- 4 years (full time, campus based)

  Starts 23rd September 2019/ Ends June 2023

Part Time Study	N/A
Location(s) of Delivery	Headingley Campus, Leeds (plus location of work placement, if applicable)
Entry Requirements	Admissions criteria are confirmed in your offer letter. Details of how the University recognises prior learning and supports credit transfer are located here: http://www.leedsbeckett.ac.uk/studenthub/recognition-of-prior-learning/
Course Fees	Course fees and additional course costs are confirmed in your offer letter

Timetable Information

Timetables will be made available to students during induction week via:

i) The Student Outlook Calendar

ii) The Student Portal
iii) The Leeds Beckett app

Any difficulties relating to timetabled sessions can be discussed with your Course Administrator.

Policies, Standards and Regulations http://www.leedsbeckett.ac.uk/public-information/

There are no additional or non-standard regulations which relate to your course

Key Contacts

Your Course Director	Kiran Voderhobli
Your Academic Advisor	An academic advisor drawn from the Course Team will be allocated to you at induction.
Your Course Administrator	Adnan Khanzada

Placement Information

Summary	Leeds Beckett is dedicated to improving the employability of our students and one of the ways in which we do this is to support our students to gain valuable work experience through work-based placements. Our placement teams have developed strong links with companies, many of whom repeatedly recruit our students into excellent placement roles and the teams are dedicated to supporting students through every stage of the placement process. More information about the many benefits of undertaking a work placement, along with details about how to contact our placement teams can be found here: **http://www.leedsbeckett.ac.uk/studenthub/placement-information/**
Length	Optional 30 weeks, undertaken between year 3 and year 4 (Level 6 and Level 7).
Location	Not specified

Professional Accreditation or Recognition Associated with the Course

Professional Body	**N/A**
How is Accreditation/ Recognition Achieved?	**N/A**

Course Accreditation/ Recognition Period **N/A**

Course Overview

Aims

The Aim of the course is to provide deep understanding of the theory and practice of advanced areas in Computer Science and their application to industrial and research contexts. On completion of the course, a student must be able to reflect upon technological advancements and apply expert knowledge to real-life complex computational problems.

Course Learning Outcomes

At the end of the course, students will be able to:

1	Demonstrate a systematic understanding of knowledge and a critical awareness of current problems and/or new insights much of it at or informed by the forefront of the computer science discipline
2	Use originality in the application of knowledge in a professional environment, together with a practical understanding of how established techniques of research and enquiry are used to create and interpret knowledge in the discipline of computer science
3	Evaluate and critique methodologies and practices within the field of computer science
4	Demonstrate self-direction, originality and creativity in tackling and solving practical computer science related problems which have been planned and implemented within a global professional, legal, social and ethical framework
5	Exercise initiative and personal responsibility in dealing with complex and unpredictable situations, making sound judgements, communicating their conclusions clearly to specialist and non-specialist audiences

Teaching and Learning Activities

Summary

The Course employs a wide range of learning opportunities and teaching methods including the use of lectures, tutorials, practical work, work based learning, simulations, role play, case studies, projects, peer group interaction and self-managed teams. This range of activities should provide opportunities for students use their preferred learning styles and support the development of less preferred learning styles and some will through presentations and seminar discussions allow students to demonstrate their skills andunderstand to their peers. Advantage will be taken of both technology and supportive activities to ensure that effective learning takes place. The VLE allows scope for students to access learning materials outside their contact hours, providing support for the remainder of the 200 notional learning hours for each 20 credit module. Students should feel that they are being challenged by the range and level of activities and assessments but should also feel supported and know how to access that support.

Feedback on learning and assessment activities will be both formative and summative for assessments, supporting students in reflecting on their progress.

During course team meetings the course team will reflect on these activities and their spread across the modules and levels and make adjustments to learning activities over time, student feedback will also be an important part of this.

Your Modules

(Correct for students progressing through the programme within standard timescales. Students who are required to undertake repeat study may be taught alternate modules which meet the overall course learning outcomes. Details of module delivery will be provided in your timetable).

Level 4 Core Modules (2019/20 for FT students)

Fundamentals of Computer Science

Fundamentals of Computer Programming

Fundamentals of Databases

Computing Systems

Object-Oriented Programming

Computer Communications

Level 5 Core Modules (2020/21 for FT students)

Software Systems Development

Operating Systems in Practice

Converged Communication Architectures

Digital Security Landscapes

Logic Programming for Engineers

Team Project

Level 6 Core Modules (2021/22 for FT students)

Developing Mobile Applications

Applied Data Analytics

Cloud Computing Development

Project

Level 6 Option Modules (delivery year as per Level 6 core modules above)

The following option modules are indicative of a typical year. There may be some variance in the availability of option modules. Students take <u>one</u> of:

Advanced Software Engineering A

Advanced Web Engineering

Level 7 Core Modules (2022/23 for FT students)

Dissertation

Project Management

Network Management

Smart Systems

Level 7 Option Modules (delivery year as per Level 7 core modules above)

The following option modules are indicative of a typical year. There may be some variance in the availability of option modules. Students take one of:

Intelligent Systems & Robotics

Green Computing Strategies

Mobile & Cellular Systems

Software Engineering for Service Computing

Software & Systems

Assessment Balance and Scheduled Learning and Teaching Activities by Level

The assessment balance and overall workload associated with this course are calculated from core modules and a sample of option module choices undertaken by a typical student. They have been reviewed and confirmed as representative by the Course Director.

A standard module equates to 200 notional learning hours, which may be comprised of teaching, learning and assessment, placement activities and independent study. Sandwich placement years spent out of the University are not be included in the calculation unless they are credit bearing and attributed to a level of the course. Modules may have more than 1 component of assessment.

Assessment Balance	**Level 4**	**Level 5**	**Level 6**
Examination	% 16	% 32	% 12
Coursework	% 48	% 39	% 60
Practical	% 36	% 29	% 28
Overall Workload			
Teaching, Learning and Assessment	300 Hours	260 hours	240 hours
Independent Study	900 hours	950 hours	980 hours

Placement	-	hours	-

Learning Support

If you have a question or a problem relating to your course, your Course Administrator is there to help you. Course Administrators works closely with academic staff and can make referrals to teaching staff or to specialist professional services as appropriate. They can give you a confirmation of attendance letter, and a transcript. You may also like to contact your Course Rep or the Students' Union Advice team for additional support with course-related questions.

If you have any questions about life at our University in general, call into or contact the Student Hub on either campus to speak to our Student Experience Team. This team, consisting of recent graduates and permanent staff, are available to support you throughout your time here. They will make sure you have access to and are aware of the support, specialist services, and opportunities our University provides. There is a Student Hub on the ground floor of the Rose Bowl at City Campus and one in Campus Central at Headingley. You can also find the team in the Gateway in the Leslie Silver Building at City Campus. The telephone number is 0113 812 3000, and the e-mail address is StudentHub@leedsbeckett.ac.uk.

Within MyBeckett you will see two tabs (Support and Opportunities) where you can find online information and resources for yourselves. The **Support** tab gives you access to details of services available to give you academic and personal support. These include Library Services, the Students' Union, Money advice, Disability advice and support, Wellbeing, International Student Services and Accommodation. There is also an A-Z of Support Services, and access to online appointments/registration.

The **Opportunities** tab is the place to explore the options you have for jobs, work placements, volunteering, and a wide range of other opportunities. For example, you can find out here how to get help with your CV, prepare for an interview, get a part-time job or voluntary role, take part in an international project, or join societies closer to home.