

## PROGRAMME DETAILS

Programme Code: N/481/7/0554 (PA4782) 08/19

Duration: 1.5 Year

Main Intakes: January, May and September

Awarding Body: Leeds Beckett University, UK

## CAREER PROSPECTS

Senior Software Engineer, Software Developer, Software Programmer, Software Designer, Principal Engineer, Application Developer, Application Engineer, Embedded Software Engineer, Java Developer, Java Engineer, Web Services Developer, C++ Developer, Quality Assurance Engineer, etc.

## PROGRAMME OVERVIEW

The Master of Science in Software Engineering programme is aimed at students and professionals who wish to gain advanced skills in planning and developing efficient and sophisticated softwares that meet the highest of global standards. The industry clamours for professionals with knowledge in cutting-edge techniques for software development and this advanced programme addresses exactly the complex skill-sets needed by software engineers today.

The programme covers software quality, design and development, and further equips software engineers to create and deploy robust and complex systems. It also aims to give students the advanced management skills needed to work in modern and fast-paced software development environments.

## ENTRY REQUIREMENTS

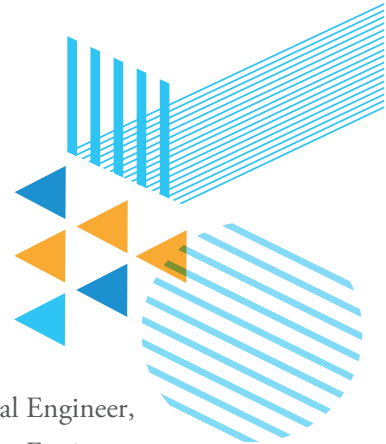
1. A Bachelor's Degree or its equivalent, with a minimum CGPA of 2.75; OR
2. A Bachelor's Degree or its equivalent, with a minimum CGPA of 2.50 and not meeting CGPA of 2.75 can be accepted subject to rigorous internal assessment process; OR
3. A Bachelor's Degree or its equivalent, with CGPA less than 2.50 with a minimum of 5 years working experience in a relevant field may be accepted.

***For candidates without Computing Degree, prerequisite modules in computing will be offered to adequately prepare them for their advanced study.***

AND

Students must pass:

- a) IELTS with a minimum band of 6.0; OR
- b) TOEFL with a minimum score of 550 (213 for CBE; 80 for IBE); OR
- c) Cambridge English/ Edexcel 'A' Level; OR
- d) Pearson Test of English (PTE) (56-60 overall with a minimum of 51 and above in each component); OR
- e) Password Integrated Skills Test conducted by Leeds Bekett University and Institut Teknologi Pertama; OR
- f) Band 6.0 in IELTS Equivalent Test conducted by Institut Teknologi Pertama.



# Programme Structure

Year 1	Year 2
<ul style="list-style-type: none"><li>• Software Components and Architecture</li><li>• Advanced Software Engineering</li><li>• Project Management</li><li>• Research Practice</li><li>• Service-Oriented Architecture</li><li>• Software and Systems</li><li>• Masters Final Project/ Dissertation</li></ul>	<ul style="list-style-type: none"><li>• Elective Module*</li><li>• Master Final Project/ Dissertation (Continue)</li></ul>

## Elective Module 3:

- 1) Mobile Application Development
- 2) Lean and Agile Engineering
- 3) Systems, Designs, Innovations
- 4) BI Principles,
- 5) Data Analysis and Visualisation
- 6) Mobile Games Prototyping
- 7) Red Hat Linux Computing Essentials
- 8) Network and Convergence Architectures
- 9) Data Warehouse Models and Approaches (SAS)
- 10) Design Pattern for Web Application Development

*(Students are to choose from any ONE (1) of the above nine (9) elective module options based on the area of interest)*

*As stated in the Circular from Ministry of Education No. 2/2013 with reference number JPT/GS1000-606Jld.1(25), all new students who enroll into any programme in any private institution after 01 September 2013 are required to complete and pass all the required General Studies Modules / Mata Pelajaran Umum (MPU).*

