

Overview

Programme Code	35474
Programme Title	International Foundation Programme (Engineering, Computing and Life Sciences)
Awarding Institution	Liverpool John Moores University
Programme Type	Level 3/4/5 Qualification
Language of Programme	All LJMU programmes are delivered and assessed in English
Programme Leader	
Link Tutor(s)	Mohamed Kara-Mohamed

Partner Name	Partnership Type
Study Group	Validated

Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Foundation Certificate - FC	See Learning Outcomes Below

Alternate Award Names	
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External Benchmarks

Subject Benchmark Statement	UG-Biomedical science (2019), UG-Engineering (2019), UG-Chemistry (2022)
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Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length
Full-Time, Face to Face	January	Study Group	1 Years
Full-Time, Face to Face	September	Study Group	1 Years

Aims and Outcomes

Educational Aims of the Programme

To provide students with a general knowledge and understanding of engineering, computing and life sciences subject content underpinning degree-level study and to consolidate prior learning acquired in their home countries. To develop students' intellectual skills to enable them to acquire ability in the collection, analysis, interpretation and understanding of relevant information relating to the disciplines they will be progressing to. To prepare students for the demands of UK degree-level study and introduce the academic skills required to succeed on LJMU undergraduate programmes. To develop students English language, number, word-processing, research and writing skills.

Learning Outcomes

Code	Description
PLO1	Demonstrate a knowledge of specialist terms and vocabulary relevant to the pathway-related modules
PLO2	Retrieve and select relevant specialist information from a range of sources
PLO3	Prepare for, and undertake, tests under exam conditions
PLO4	Apply theory relating to engineering, computing and life sciences to the level of learning
PLO5	Use specialist terms and vocabulary in proficient English in the appropriate context
PLO6	Handle specialist equipment in laboratory/ workshop environments (in particular modules)
PLO7	Employ numeracy and quantitative skills including basic data analysis, interpretation and extrapolation
PLO8	Communicate effectively both orally and in writing, including in a second language
PLO9	Work in a team
PLO10	Work independently
PLO11	Manage time effectively
PLO12	Utilise an appropriate level of English academic skills
PLO13	Identify relevant source material
PLO14	Effectively use IT for the presentation of work at the appropriate level
PLO15	Use numerical skill

Code	Description
PLO16	Understand key ideas and concepts relating to engineering, computing and life sciences
PLO17	Identify the relevance of specialist theories and relate them to real-life situations
PLO18	Analyse, interpret and summarise subject specific information
PLO19	Use English language in an academic manner
PLO20	Integrate and evaluate information relating to engineering, computing and life sciences from a variety of sources
PLO21	Apply learned principles
PLO22	Demonstrate independent learning

Programme Structure

Programme Structure Description

The Foundation Certificate in Engineering, Computing and Life Science will be offered as a full-time programme delivered September to May and January to August (two intakes per year). Students will study 120 credits in a programme. For progression to subjects based in the Faculty of Engineering and Technology students will study (at level 3): 3510IFESG PURE MATHS 1 20 credits 3511IFESG PURE MATHS 2 10 credits 3518IFESG APPLIED MATHS 1 10 credits 3519IFESG APPLIED MATHS 2 10 credits 3521IFESG PROJECT STUDY (core) 10 credits 3525IFBSG ACADEMIC ENGLISH SKILLS (core) 20 credits and 3526IFESG Introduction to Engineering Mathematics 10 credits. Students progressing to degrees in Computing will complete the following modules 3520IFESG Introduction to Computing 20 credits 3527IFESG Coding for Computing 10 credits Otherwise, students will complete the following modules 3525IFESG PHYSICS 1 20 credits 3513IFESG PHYSICS 2 10 credits For progression to subjects based in the Faculty of Science, students will study (at level 3): 3522IFESG MATHS FOR SCIENCE 10 credits 3524IFESG CHEMISTRY 1 20 credits 3517IFESG CHEMISTRY 2 20 credits 3514IFESG BIOLOGY 1 20 credits 3523IFESG BIOLOGY 2 20 credits 3521IFESG PROJECT STUDY 10 credits 3525IFBSG ACADEMIC ENGLISH SKILLS 20 credits

Structure - 120 credit points	
Level 3 - 120 credit points	
Level 3 Core - 30 credit points	CORE
[MODULE] 3521IFESG Project Study Approved 2022.02 - 10 credit points	
[MODULE] 3525IFBSG Academic English Skills (AES) Approved 2022.02 - 20 credit points	
Level 3 Optional - 90 credit points	OPTIONAL
[MODULE] 3510IFESG Pure Mathematics 1 Approved 2022.03 - 20 credit points	
[MODULE] 3511IFESG Pure Mathematics 2 Approved 2022.02 - 10 credit points	
[MODULE] 3513IFESG Physics 2 Approved 2022.02 - 10 credit points	
[MODULE] 3514IFESG Biology 1 Approved 2022.02 - 20 credit points	
[MODULE] 3517IFESG Chemistry 2 Approved 2022.02 - 20 credit points	
[MODULE] 3518IFESG Applied Mathematics 1 Approved 2022.02 - 10 credit points	
[MODULE] 3519IFESG Applied Mathematics 2 Approved 2022.02 - 10 credit points	
[MODULE] 3520IFESG Introduction to Computing Approved 2022.02 - 20 credit points	
[MODULE] 3522IFESG Mathematics for Science Approved 2022.02 - 10 credit points	
[MODULE] 3523IFESG Biology 2 Approved 2022.02 - 20 credit points	
[MODULE] 3524IFESG Chemistry 1 Approved 2022.02 - 20 credit points	
[MODULE] 3525IFESG Physics 1 Approved 2022.02 - 20 credit points	
[MODULE] 3526IFESG Introduction to Engineering Mathematics Approved 2022.02 - 10 credit points	
[MODULE] 3527IFESG Coding for Computing Approved 2022.02 - 10 credit points	

Module specifications may be accessed at <https://proformas.ljmu.ac.uk/Default.aspx>

Teaching, Learning and Assessment

Acquisition of knowledge will be achieved via teaching methods such as lectures, seminars, tutorials, workshops, demonstrations and practical activities. Students will be expected to use IT, academic skills and proficiency in English when demonstrating learning. A range of assessment methods will be used, to include subject-specific tasks alongside English language skills assessments. This includes written examinations, presentations, individual and group work, listening tests, report writing and practicals. Intellectual skills will be developed through practical applications, guided research skills, presentations, group work, demonstrations and self-directed study. Intellectual skills will be assessed via formative and summative processes such as in-class tests, research skills exercises, examination, coursework, practical exercises and reflective statements. Practical skills will be acquired via lectures, data analysis exercises, group problem-solving, presentation and research skills development. Some modules include laboratory work whereby skill in the handling of equipment and management of an experiment will be taught. Students will demonstrate their practical skills via assessments which include listening tests, practical report-writing, presentation and seminar exercises, examinations and group work. Transferable skills are generally incorporated in to all teaching and learning methodologies. The development and acquisition of transferable skills is embedded in the programme curriculum to prepare students for degree-level study and eventual employment. The English language provision underpins the application of transferable skills for further study in the UK. The full range of assessments enables students to demonstrate transferable skills.

Opportunities for work related learning

Employability is built into the Project Study module. Students learn to reflect on their strengths and weaknesses in skills required for social, professional and academic life. Concepts relating to the world of work are discussed, and students engage in project work with others, which is an important transferable skill. The development of employability skills is embedded into the structure, design and assessment of the programme. Students will develop skills in the areas of employability such as: Communication, problem solving, team work and leadership, self-management and reflection.

Entry Requirements

Type	Description
Alternative qualifications considered	An English level equivalent to at least IELTS 4.5 overall with a minimum of 4.0 in each component (reading, writing, listening, speaking). For students wishing to study MPharm they need an English Level equivalent to at least 6.0 overall with minimum of 5.5 in each component.
Other international requirements	Overseas and country specific entry requirements can be found here: https://www.ljmuisc.com/programmes/international-foundation-year/engineering-computing-and-life-sciences Applicants who have qualifications from countries not listed in the link above will be individually advised by Study Group Student Enrolment Advisors.

Extra Entry Requirements