![Liverpool John Moores University logo]

PROGRAMME SPECIFICATION

Bachelor of Science with Honours (SW) in Architectural Technology

Awarding institution	Liverpool John Moores University
Teaching institution	LJMU
UCAS Code	K130
JACS Code	K190
Programme Duration	Full-Time: 3 Years, Sandwich Thick: 4 Years
Language of Programme	All LJMU programmes are delivered and assessed in English
Subject benchmark statement	Architectural Technology (2014)
Programme accredited by	Chartered Institute of Architectural Technologists
Description of accreditation	Full accreditation for 5-year period, 2015-2020; accreditation renewed via quinquennial accreditation visit (http://www.ciat.org.uk)
Validated target and alternative exit awards	Bachelor of Science with Honours in Architectural Technology
	Bachelor of Science with Honours (SW) in Architectural Technology
	Diploma of Higher Education in Architectural Technology
	Diploma in Higher Education (SW) in Architectural Technology
	Certificate of Higher Education in Architectural Technology
Programme Leader	Steven Fowles

Educational aims of the programme

Overall the programme aims to provide students with knowledge, understanding and appreciation of the architectural technology discipline appropriate to first degree level. Architectural technology, as the technology of architecture, encompasses knowledge and understanding which underpins the design of buildings and structures; the programme aims to involve students in an intellectually stimulating experience of learning and studying which instils a sense of enthusiasm and passion for architectural technology. Specific programme aims are as follows:

To provide students with knowledge of fundamental scientific and technological principles and their application to the analysis and solution of technical design problems in architecture.

To equip students with detailed technical knowledge of the fundamental principles of good design and construction practice.

To expand and enhance students research, communication and intellectual skills and analytical ability.

To provide students with the ability to apply current information technology, including building information modelling, to the design and construction process.

To develop skills to ensure that the graduate will operate within a sound Health and Safety framework as provided by the regulatory framework of the industry.

To produce graduates who can work effectively both independently and as a member of a collaborative multidisciplinary team.

To encourage students to engage with the development of employability skills by completing a self-awareness statement.

To provide graduates with the required foundation for a career as a professional architectural technologist.

Additionally for students on the sandwich version of the programme, to provide students with an extended period of work experience at an approved partner that will complement their programme of study at LJMU. This will provide students with the opportunity to develop professional skills relevant to their programme of study, as well as attitude and behaviours necessary for employment in a diverse and changing environment.

Alternative Exit/ Interim Award Learning Outcomes - Certificate of Higher Education

A student who is eligible for this award will be able to:

Demonstrate a sound knowledge of the basic principles and concepts of architectural technology related subjects and have learned how to take different approaches to solving problems.

Alternative Exit/ Interim Award Learning Outcomes - Diploma of Higher Education

A student who is eligible for this award will be able to:

Demonstrate analytical and evaluation skills and apply them to a deeper knowledge of the principles and concepts of architectural technology related subjects and also apply these principles widely within the context of the architectural technology discipline. Additionally for students eligible for the sandwich Dip HE, they will be able to demonstrate the professional and personal skills necessary for effective employment within a professional environment.

Target award Learning Outcomes - Bachelor of Science with Honours (SW)

A student successfully completing the programme of study will have acquired the following subject knowledge and understanding as well as skills and other attributes.

A student who is eligible for this award will be able to:

1. Demonstrate knowledge and understanding of the technological, economic, social, environmental and legal framework with regard to architectural technology.

2. Appreciate architectural history and context for the design of buildings including new buildings and alteration, extension and conservation of existing buildings

3. Understand design and construction processes and the application of technology and emerging technologies to the design of buildings

4. Demonstrate knowledge and understanding of procurement and contract practice, and design management in relation to architectural technology

5. Understand and apply principles of sustainable design and inclusive design

6. Demonstrate knowledge and understanding of the production of architectural drawings including 2D & 3D drawings and virtual models

7. Demonstrate awareness and application for professional practice as an Architectural Technologist

8. Demonstrate knowledge and application of research design and methodology, leading to the undertaking of a major independent research project

9. Demonstrate knowledge and understanding of academic and digital literacy in order to apply academic rigour to all aspects of study

10. Analyse, synthesise, summarise and evaluate information

11. Identify and solve problems individually and as part of a collaborative group

12. Integrate lines of evidence from a range of sources to support findings or hypotheses

13. Demonstrate and exercise independent thinking

14. Demonstrate reflective skills

15. Produce solutions to design problems through the application of architectural technology knowledge and understanding

16. Confidently use a range of building design, modelling and specification software.

17. Prepare technical reports and architectural drawings to a professional standard.

18. Research and use construction and architectural technology literature effectively

19. Undertake rigorous site analysis and apply environmental principles to inform building design and technology

20. Work effectively as a member of a collaborative multidisciplinary project group.

21. Communicate effectively via written reports, architectural drawings and verbal presentations.

22. Use information technology effectively to retrieve, analyse, prepare and present technical information

23. Demonstrate initiative and ability to work independently and in a team.

24. Understand the significance of entrepreneurship in the built environment

25. Manage resources and demonstrate effective time management skills

Alternative target awards

A student who is eligible for the following awards will be able to:

Bachelor of Science with Honours in Architectural Technology -

Analyse and evaluate a complex body of knowledge, some of which will be at the current boundaries for their academic discipline. The student will have developed strategic awareness, independent research skills, and a detailed knowledge of Architectural Technology. These graduates should have the qualities needed for employment as an Architectural technologist but will not have successfully completed a placement year.

Teaching, Learning and Assessment

The methods used to enable outcomes to be achieved and demonstrated are as follows:

Lectures, tutorials, seminars, workshops, laboratory and computer sessions, off-site learning activities, participation in a group project.

Unseen examinations and tests, practical work, assignments, preparation of reports, design tasks, production of architectural drawings, oral presentations.

Lectures, tutorials, seminars, workshops, computer sessions, off-site learning activities, participation in a group project.

Unseen examinations & tests, practical work, assignments, preparation of reports, design tasks, production of architectural drawings, oral presentations.

Lectures, tutorials, problem solving sessions, seminars, workshop sessions in either design studio, IT suite and for the development of practical model making skills, in the model making laboratory, off-site learning activities, participation in group projects and individual research project.

Model making, laboratory experiments, preparation of reports, design tasks and production of architectural drawings, oral presentations and critical reviews. Work placement report for those completing sandwich year.

Lectures, tutorials, problem solving sessions, seminars, workshop sessions in the design studio and IT suite, off-site learning activities, participation in collaborative group projects.

Examinations, preparation of essays, reports and portfolios of architectural drawings, oral presentations and critical reviews, work placement reports (if applicable). Tracking of key skills via e-portfolio.

Programme structure - programme rules and modules

The programme is offered on a full-time and sandwich basis. Entry to the course can be at level 4 or level 5 for suitably qualified candidates and exceptionally entry to level 6 can also be achieved.

The programme will offer the opportunity of 60 credits of study abroad at Level 5. Students will be enrolled on a 360 credit honours with study abroad programme. A 60 credit Level 5 study abroad module [5300BESAAT] will normally replace the semester 2 modules on the standard programme. This study abroad should cover the same learning outcomes as the modules being replaced. The modules to be studied in the host institution must be agreed in advance. The Level 5 mean for the final award will be calculated based upon the 120 credits at Level 5.

Students have the option to undertake a placement year. The placement year will follow Level 5 and students will be enrolled on a 480 credit honours sandwich programme, including an additional 120-credit Level 5 industrial placement module [5200BESWAT]. The Level 5 mean for the final award mark will be calculated based upon the 240 credits at Level 5. Students successfully completing the assessment of the placement year are eligible for the Sandwich award.

Students not undertaking a placement year are registered on the non-Sandwich version of the programme and

will have the opportunity of an additional study year abroad following Level 5. Students will be enrolled on a 480

credit honours with study abroad programme. Of those 480 credits, 120 will be taken via a Level 5 study abroad

module 5200BESAAT. The modules to be studied in the host institution must be agreed in advance. The Level 5

mean for the final award mark will be calculated based upon the 240 credits at Level 5.

Students are not allowed to do both the placement year plus study abroad year.

Level 6	Potential Awards on completion	Bachelor of Science with Honours (SW)
Core	Option	Award Requirements
6200BEUG RESEARCH PROJECT (30 credits) 6201BEUG COLLABORATIVE INTERDISCIPLINARY PROJECT 3 (10 credits) 6212BEUG ADVANCED ARCHITECTURAL DESIGN (30 credits) 6213BEUG DETAILED DESIGN AND PROJECT PRESENTATION (30 credits) 6214BEUG ARCHITECTURAL TECHNOLOGY PROFESSIONAL PRACTICE (20 credits)		120 core credits at level 6 0 option credits at level 6

Level 5	Potential Awards on completion	
Core	Option	Award Requirements
5200BEUG CONSTRUCTION TECHNOLOGY 2 (20 credits) 5201BEUG PROCUREMENT AND CONTRACTS (20 credits) 5203BEUG RESEARCH METHODS (10 credits) 5204BEUG COLLABORATIVE INTERDISCIPLINARY PROJECT 2 (10 credits) 5213BEUG BUILDING REFURBISHMENT AND DESIGN (20 credits) 5214BEUG PROPERTY DEVELOPMENT (20 credits) 5215BEUG SUSTAINABLE ARCHITECTURAL TECHNOLOGY (20 credits)		120 core credits at level 5 0 option credits at level 5

Level 4	Potential Awards on completion	
Core	Option	Award Requirements
4200BEUG CONSTRUCTION TECHNOLOGY 1 (20 credits) 4201BEUG COLLABORATIVE INTERDISCIPLINARY PROJECT 1 (10 credits) 4204BEUG SCIENCE AND MATERIALS (20 credits) 4205BEUG ACADEMIC AND DIGITAL LITERACY (10 credits) 4206BEUG DESIGN AND SPECIFICATION (20 credits) 4213BEUG ARCHITECTURAL GRAPHICS 1 (20 credits) 4214BEUG ARCHITECTURAL GRAPHICS 2 (20 credits)		120 core credits at level 4 0 option credits at level 4

Information about assessment regulations

All programmes leading to LJMU awards operate within the University's Academic Framework.
https://www.ljmu.ac.uk/about-us/public-information/academic-quality-and-regulations/academic-framework

Variance application to include 3 x 30-credit modules at Level 6 was approved on 15/1/2016.

Opportunities for work-related learning (location and nature of activities)

Work-related learning is included within this programme, so students will have the opportunity to engage in real world projects and activities or participate in a work-based learning placement. In doing so, students will be able to apply and further develop their knowledge and employability skills in a 'world of work' context.

Work-related learning may take different forms, the most common being: work placements; internships; simulations of workplace activity; and employer-driven case studies. This programme offers a work placement year, providing a work-based learning opportunity for students studying the programme in sandwich mode.

The programme has active links with industry and seeks to involve employers in the collaborative projects at each level of the programme. Real world case studies for the design-based architectural technology projects at levels 5 and 6 are used wherever possible.

Criteria for admission

A/AS Level
260 points (minimum two A2 levels)

BTEC National Diploma
BTEC

Extended Diploma (formerly known as BTEC National Diploma)

Acceptability: Acceptable on its own and combined with other qualifications

Grades / subjects required: DMM if studied on its own or to the total of 260 UCAS points if combined with other qualifications

Irish Leaving Certificate
Level 4 : 260 UCAS points; minimum 3 subjects at Higher level

Scottish Higher
Level 4 : 260 UCAS points; minimum 2 subjects at Advanced Higher level

International Baccalaureate
Level 4 : 260 IB points

Higher national diploma
HNC/HND (Non-cognate) Level 4 Entry: Pass

HNC/HND (Cognate) Level 4 Entry: Pass

HNC/HND (Cognate) Level 5 Entry: Pass with Merits in 4 modules.

Other
Foundation Degree (Cognate)

Level 4 240 credits, less than 50% mean

Level 5 240 credits, mean 50%+

Mature entry
In exceptional circumstances, applicants with non-standard qualifications, may qualify for entry to the course on

the basis of considerable relevant experience deemed appropriate by the Faculty.

Overseas qualifications
Overseas student applicants must have the equivalent qualifications as UK students. In addition they must have achieved an IELTS score of at least 6.

External Quality Benchmarks

All programmes leading to LJMU awards have been designed and approved in accordance with the UK Quality Code for Higher Education, including the Framework for Higher Education Qualifications in the UK (FHEQ) and subject benchmark statements where applicable.

The University is subject to periodic review of its quality and standards by the Quality Assurance Agency (QAA) Published review reports are available on the QAA website at www.qaa.ac.uk

Programmes which are professionally accredited are reviewed by professional, statutory and regulatory bodies (PSRBs) and such programmes must meet the competencies/standards of those PSRBs.

Support for students and their learning

The University aims to provide students with access to appropriate and timely information, support and guidance to ensure that they are able to benefit fully from their time at LJMU. All students are assigned a Personal Tutor to provide academic support and when necessary signpost students to the appropriate University support services.

Students are able to access a range of professional services including:

- Advice on practical aspects of study and how to use these opportunities to support and enhance their personal and academic development. This includes support for placements and careers guidance.

- Student Advice and Wellbeing Services provide students with advice, support and information, particularly in the areas of: student funding and financial matters, disability, advice and support to international students, study support, accommodation, health, wellbeing and counselling.

- Students studying for an LJMU award at a partner organisation will have access to local support services

Methods for evaluating and improving the quality and standards of teaching and learning

Student Feedback and Evaluation

The University uses the results of student feedback from internal and external student surveys (such as module evaluations, the NSS and PTES), module evaluation questionnaires and meetings with student representatives to improve the quality of programmes.

Staff development

The quality of teaching is assured through staff review and staff development in learning, teaching and assessment.

Internal Review

All programmes are reviewed annually and periodically, informed by a range of data and feedback, to ensure quality and standards of programmes and to make improvements to programmes.

External Examining

External examiners are appointed to programmes to assess whether:

- the University is maintaining the threshold academic standards set for awards in accordance with the FHEQ and applicable subject benchmark statements

- the assessment process measures student achievement rigorously and fairly against the intended outcomes of the programme(s) and is conducted in line with University policies and regulations

- the academic standards are comparable with those in other UK higher education institutions of which external examiners have experience

- the achievement of students are comparable with those in other UK higher education institutions of which the external examiners have experience

and to provide informative comment and recommendations on:

- good practice and innovation relating to learning, teaching and assessment observed by external examiners

- opportunities to enhance the quality of the learning opportunities provided to students

Please note:

This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content, teaching, learning and assessment methods of each module can be found in module and programme guides.