

Overview

Programme Code	32811
Programme Title	Architectural Technology
Awarding Institution	Liverpool John Moores University
Programme Type	Degree

Awards

Award Type	Award Description	Award Learning Outcomes
Target Award	Bachelor of Science with Honours - BSH	N/A
Alternative Exit	Certificate of Higher Education - CHE	Identify the underlying concepts and principles associated with the built environment sector. Identify the underlying concepts and principles associated with the built environment sector. Recognise and summarise the technology for constructing domestic buildings including modern methods of construction. Recognise and summarise the technology for constructing domestic buildings including modern methods of construction. Effectively use general and specific IT tools and software in the production of scaled architectural drawings for a residential design project. Effectively use general and specific IT tools and software in the production of scaled architectural drawings for a residential design project.
Alternative Exit	Diploma of Higher Education - DHE	Identify and explain the underlying concepts and principles associated with the built environment sector and the Architectural Technology discipline. Recognise and summarise the technology for constructing domestic, industrial and commercial buildings including modern methods of construction. Effectively use general and specific IT tools and software in the production of scaled architectural drawings for a residential design project. Work effectively as a member of a collaborative project group. Communicate effectively via different methods including written reports, portfolios, graphical posters and verbal presentations. Identify and analyse key principles of sustainability and inclusivity to successfully complete a sustainable and inclusive design project.

Alternate Award Names	
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External Benchmarks

Subject Benchmark Statement	UG-Architectural technology (2019)
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Accreditation

Programme Accredited by

PSRB Name	Type of Accreditation	Valid From Date	Valid To Date	Additional notes
Chartered Institute of Architectural Technologists (CIAT)	Accredited by the Chartered Institute of Architectural Technologists (CIAT), and demonstrates that the programme has been assessed in terms of content, structure and resources and has met the required educational standards. Graduates from an Accredited programme will receive full academic exemptions from the professional qualification when progressing to Chartered Architectural Technologist status.			

Programme Offering(s)

Mode of Study, Mode of Delivery	Intake Month	Teaching Institution	Programme Length Programme Length Unit
Sandwich Year Out, Face to Face	September	LJMU Taught	4 Years
Full-Time, Face to Face	September	LJMU Taught	3 Years

Aims and Outcomes

Educational Aims of the Programme	<p>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 ensure students apply the principles of inclusive design to projects and processes. 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 team. To provide graduates with the required foundation for a career as a professional architectural technologist that is in line with professional body requirements. For students undertaking a placement year, an additional aim is to provide students with an extended period of work experience with an approved employer that will complement their academic programme of study, and enable students to develop professional skills relevant for a career in architectural technology.</p>
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Learning Outcomes

Code	Number	Description
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PLO1	1	Review and evaluate the context, and the political, economic, environmental, social and technological aspects that inform and influence the practice of architectural technology nationally and internationally.
PLO2	2	Apply critical understanding and evaluation of the impact of climate change on the technical design and construction of buildings in contrasting environments.
PLO3	3	Produce architectural drawings including 2D & 3D drawings and virtual models in accordance with industry standards.
PLO4	4	Manage resources and demonstrate effective time management skills in working independently to meet deadlines.
PLO5	5	Apply research design knowledge and skills to collect, analyse, evaluate and synthesise information and data as part of a major independent research project.
PLO6	6	Work effectively as a member of a collaborative project group.
PLO7	7	Communicate effectively via different methods including written reports, architectural and construction drawings and verbal presentations.
PLO8	8	Evaluate the ethical expectations and conduct requirements of an Architectural Technologist in professional practice.
PLO9	9	Apply problem solving skills to generate detailed design solutions that respond to familiar and unfamiliar situations.
PLO10	10	Complete a sustainable and inclusive design project, systematic review or systematic case study, informed by current and critical understanding of sustainable technologies and inclusive design requirements.
PLO11	11	Recognise and critically evaluate the performance of building elements, components, systems, and methods to be used for different building typologies.
PLO12	12	Analyse current topics and practices which inform the discipline of architectural technology, including new and emerging technologies.
PLO13	13	Identify and evaluate the requirements for effective design management, project procurement and contract management to implement successful building and refurbishment projects.
PLO14	14	Analyse and evaluate projects from a health and safety perspective to identify potential hazards and risks; and develop and maintain safe systems of work in accordance with relevant legislation and regulatory frameworks.
PLO15	15	Synthesise knowledge and skills to work independently and as a member of a team identifying personal development needs and to plan to meet these needs through relevant and appropriate methods.
PLO16	16	Apply critical understanding and empathy of the principles and processes that deliver an inclusive environment recognising the diversity of user needs by putting people (of all ages and abilities) at the heart of the design process.

Course Structure

Programme Structure Description	<p>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. This programme structure only applies to students joining level 4 of the programme from September 2022. Students who joined prior to that date will follow the previously validated programme structure.</p>
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Programme Structure - 360 credit points	
Level 4 - 120 credit points	
Level 4 Core - 120 credit points	CORE
[MODULE] 4306BEUG Architectural Design Studio 1 Approved 2022.01 - 20 credit points	
[MODULE] 4307BEUG Architectural Design Studio 2 Approved 2022.01 - 20 credit points	
[MODULE] 4309BEUG Construction Technology 1 Approved 2022.01 - 20 credit points	
[MODULE] 4310BEUG Digital Design and Technology Approved 2022.01 - 20 credit points	
[MODULE] 4314BEUG Passive Design and Specification Approved 2022.01 - 20 credit points	
[MODULE] 4319BEUG Science and Materials Approved 2022.01 - 20 credit points	
Level 5 - 120 credit points	
Level 5 Core - 120 credit points	CORE
[MODULE] 5308BEUG Building Refurbishment and Design Approved 2022.01 - 20 credit points	
[MODULE] 5316BEUG Procurement and Contracts Approved 2022.01 - 20 credit points	
[MODULE] 5318BEUG Property Development Approved 2022.01 - 20 credit points	
[MODULE] 5323BEUG Sustainable Architectural Technology Approved 2022.01 - 20 credit points	
[MODULE] 5324BEUG Sustainable Buildings Project Approved 2022.01 - 20 credit points	
[MODULE] 5349BEUG Construction Technology 2 Approved 2022.01 - 20 credit points	
Optional placement - 120 credit points	OPTIONAL
Placement Year - 120 credit points	OPTIONAL

[MODULE] 5200BESWAT Sandwich Year - Architectural Technology Approved 2022.01 - 120 credit points	
OR Study Abroad - 120 credit points	OPTIONAL
[MODULE] 5200BESAAT Study Year Abroad - Architectural Technology Approved 2022.01 - 120 credit points	
Optional Study Semester - 60 credit points	OPTIONAL
[MODULE] 5300BESAAT Study Semester Abroad - Architectural Technology Approved 2022.01 - 60 credit points	
Level 6 - 120 credit points	
Level 6 Core - 120 credit points	CORE
[MODULE] 6305BEUG Advanced Architectural Design Approved 2022.01 - 20 credit points	
[MODULE] 6306BEUG Advanced Detailed Design Approved 2022.01 - 20 credit points	
[MODULE] 6309BEUG Architectural Technology Dissertation Approved 2022.01 - 40 credit points	
[MODULE] 6310BEUG Architectural Technology Professional Practice Approved 2022.01 - 20 credit points	
[MODULE] 6330BEUG Design Management and BIM Approved 2022.01 - 20 credit points	

Teaching, Learning and Assessment

Teaching, Learning and Assessment	Teaching sessions include lectures and tutorials; workshop sessions in a classroom or PC-lab; participation in a group project; and field work on organized site visits. Assessment methods include: design projects carried out over a prolonged period; reports and assignments prepared to a defined timetable to assess knowledge and understanding of a topic, and communication, analytical and presentation skills; examination and online tests under timed conditions requiring written essays and/or multiple-choice questions to assess knowledge base, understanding and analytical skills; oral presentations to assess communication skills and individual / group project work; graphical presentations in a variety of media formats, including the production of posters; portfolios containing architectural drawings relating to design projects; work placement report (if applicable).
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Opportunities for work related learning

Opportunities for work related learning
<p>The 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 involves employers in the project-based modules at levels 4, 5 and 6. Real world case studies and project scenarios are used wherever possible. For example Level 4 students typically meet built environment professionals on-site to help contextualise passive design theory with practice. To support Level 6 students for the Advanced Design Project site visits are organised for precedent studies to help inform designs, and visiting speakers from industry will be invited to meet the students. The programme also has active links with the professional body and typically students at Levels 4 and 6 will benefit from an organised professional body meeting, to help prepare students for professional practice and employment.</p>

Entry Requirements

Type	Description
A levels	Applicants should have or expect to obtain a total of 104 UCAS points.
NVQ	Applicants studying a HNC, HND or Foundation Degree in a relevant subject will be considered for direct entry into Level 5.
Other international requirements	Overseas student applicants must have the equivalent qualifications as UK students. In addition they must have achieved an IELTS score of at least 6 with at least 5.5 in each component for non-UK / EU students.
BTECs	Applicants should have or expect to obtain a total of 104 UCAS points.
International Baccalaureate	Applicants should have or expect to obtain a total of 104 UCAS points.
Alternative qualifications considered	Applicants should have five GCSE (or equivalent) passes of at least grade C including Mathematics and English.

Programme Contacts

Programme Leader

Contact Name
Steffen Heinig

Link Tutor

Contact Name