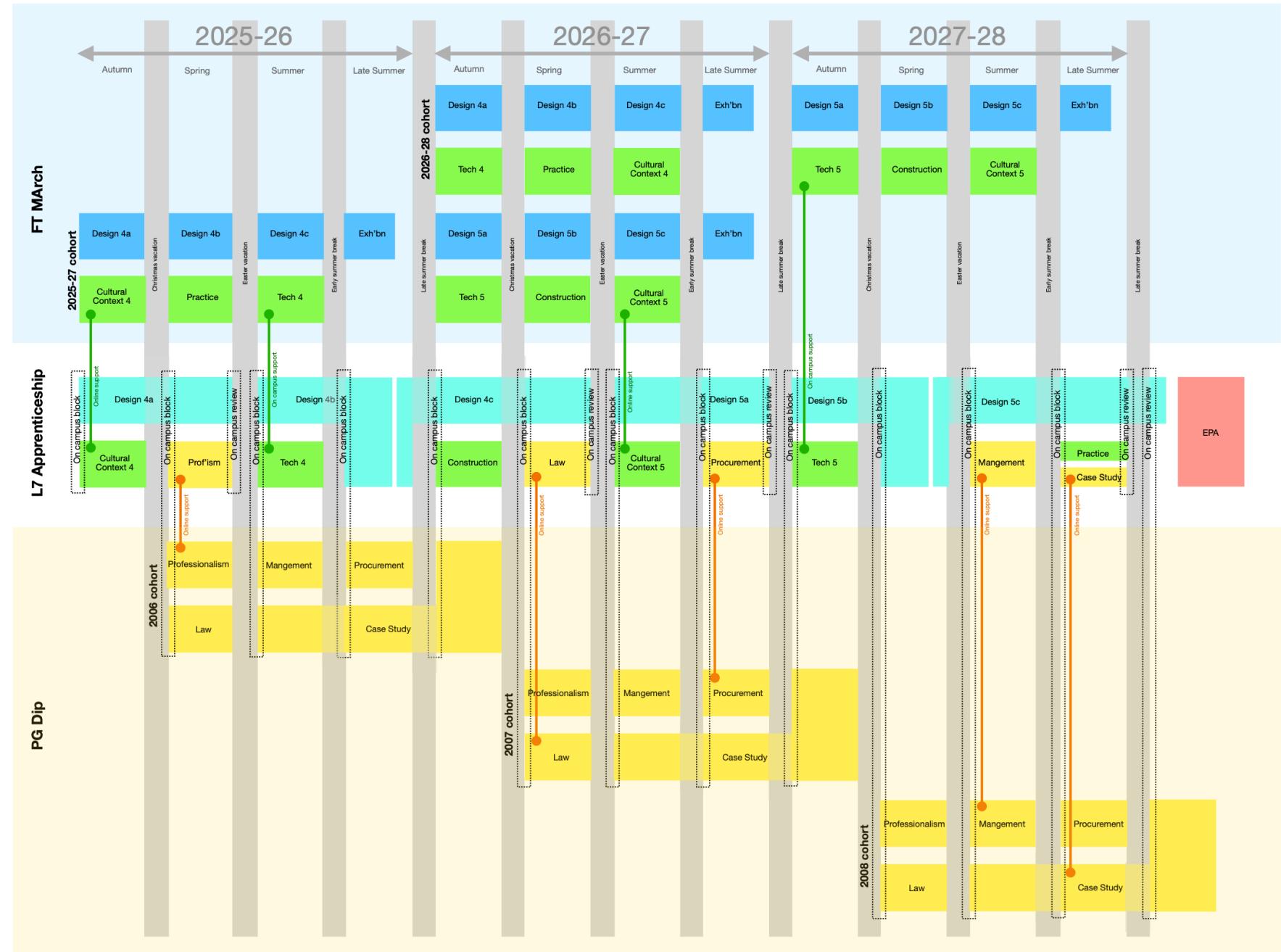


L7 Architect Apprenticeship Overview



L7 Architect Apprenticeship Overview



Knowledge, Skills and Behaviours (KSBs)

	Knowledge	Skills
	An Architect has an understanding of...	An Architect is able to...
1.Design	K1	S1
	- A range of advanced processes and techniques (e.g. digital fabrication) to generate, review and speculate on design proposals with multiple constraints, showing evidence of original thinking	- Generate architectural design proposals - Evaluate and apply a comprehensive range of visual, oral and written media to test, analyse, critique and explain design proposals - Produce drawings and 3D models using relevant software including Computer-Aided Design (CAD)
2.History and Theory	K2	S2
	- History of architecture and its impact on architectural practice - The cultural, social and intellectual histories, theories and technologies that influence the design of buildings	- Apply understanding of current architectural debate to produce innovative solutions - Produce clear, logically argued and original written work relating to architectural culture, theory and design
3.Fine Arts	K3	S3
	- How the theories, practices and technologies of the arts influence architectural design and their creative application in design projects	- Apply fine art theories in a creative way that acknowledges their conceptualisation and representation
4.Urban Design and Planning	K4	S4
	- Urban design and town planning strategies and regulations - Process of obtaining planning permission (for example drawings, reports, application)	- Comply with relevant town planning policy throughout design and construction phases to obtain planning permission (for example submitting planning application)

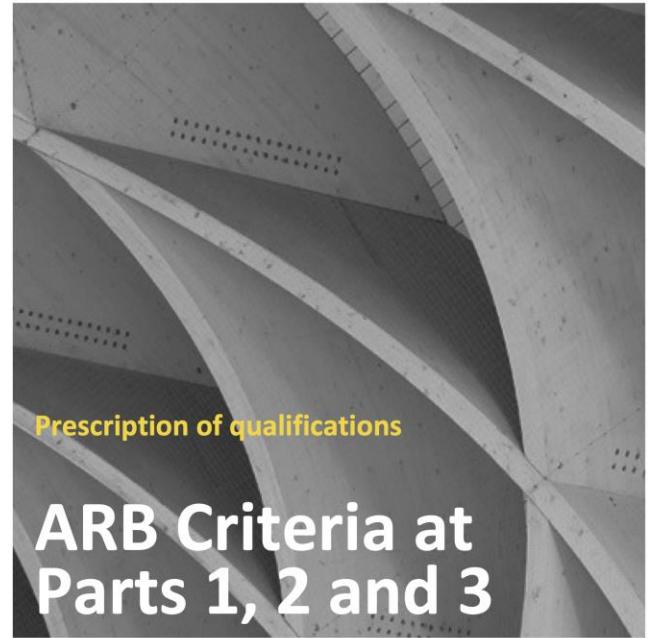
5.People and Environment	K5	S5
	- The in-depth relationships between users and buildings, between buildings and their environment, and the need to relate buildings and the spaces between them to diverse user needs and scale	- Identify end user needs, local and the social context in which the project is developed - Lead design development in respect of environmental context and sustainability
6.Role of Architect	K6	S6
	- The range of services offered by Architects - The potential impact of building projects on existing and proposed communities and the related planning legislation - The context of the Architect and the construction industry, including the Architect's role in the processes of procurement and building production - The role of the Architect within the design team and construction industry	- Lead projects or parts of projects, taking into consideration business priorities and practice management - Deliver services in a responsible manner, prioritising the interests of the client and other stakeholders - Problem-solve and use professional judgement to take initiative and make appropriate decisions in situations with multiple constraints
7.Brief analysis	K7	S7
	- The client and design team briefing process, forms and terms of appointment - Methods of investigation and preparation of briefs for the design projects (for example review of relevant precedent)	- Critically review precedents relevant to the function, organisation and technological strategy of a design proposals - Prepare and develop a project brief (for example by referring to RIBA Plan of Work)
8.Structure, construction and engineering	K8	S8
	- Structural, constructional and engineering considerations within building design, such as physical properties and characteristics of building materials, components and systems	- Integrate knowledge of structural principles and construction techniques with building design

9.Technologies	K9	S9
	- Principles, systems and strategies for environmental comfort and building services including sustainability principles - Alternative construction materials, processes and techniques that apply to design and construction, including the impact of materials on the environment - The role of Building Information Modelling (BIM), computational design and other relevant technologies used in the design process	- Evaluate materials, processes and techniques that apply to architectural designs with multiple constraints and building construction, and how to integrate these into practicable design proposals - Apply various technological methods to building design to provide conditions of comfort and protection against the environment
10.Finance and Regulations	K10	S10
	- Process of controlling building cost - Approved Documents for building regulations	- Meet client's brief within the constraints of the imposed budget limitations and building regulations
11.Industry Context and Project Delivery	K11	S11
	- Industries, organisations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning	- Interact with statutory authorities (for example planning or building control), private bodies (for example developers) or individuals to competently deliver projects in a wide variety of sectors and within diverse legislative frameworks
12.Professionalism	K12	S12
	- The nature of professionalism and the responsibilities of Architects to clients, building users, constructors, professionals and the wider society	- Act professionally when working independently and as part of a team, including communicating clearly with all stakeholders
13.Clients, users and delivery of services	K13	S13
	- The obligations of Architects to clients, stakeholders, warranties and third-parties - Client needs, appropriate communication methods, programming, coordination and competent delivery	- Offer impartial advice on construction related issues, relevant legislation and risks - Identify and describe client and end user requirements, priorities and objectives

14.Legal framework and processes	K14	S14
	- The statutory legal context within which an Architect must operate and what is required to ensure compliance with legal requirements or standards	- Work with an understanding of the relevant statutory and legal requirements during project development so that the risk of harm to those who build, use and maintain buildings is reduced
15.Practice and management	K15	S15
	- Business priorities, required management processes and risks of running an architecture practice	- Engage in business development and administration including contributing to business strategy development, evaluating resources, planning, implementing and recording projects tasks - Supervise the work of junior staff including Architectural Assistants
16.Building procurement	K16	S16
	- UK construction and contract law, and construction procurement processes - The relationship between Architects and other built environment professionals - Contractual relationships and the obligations of an Architect acting as a contract administrator	- Coordinate and engage in design team interaction - Resolve construction related challenges and disputes, where appropriate - Undertake construction inspection responsibilities, including completing site visits and commenting on contractors and sub-contractors work in relation to architectural drawings

Behaviours:	An architect will exhibit the following behaviours:
B1	Comply with the relevant professional codes of conduct (for example ARB and RIBA)
B2	Be honest and act with integrity, ethics and in a professional manner
B3	Work singly, as part of a team or lead teams to provide a competent service
B4	Be organised and practice self-management when working independently
B5	Be conscious of the Architect's obligation to their client, society and the profession
B6	Be aware of individual level of competency and professional experience to ensure they are unlikely to bring profession into disrepute

Part 2 and Part 3 Criteria



Prescription of qualifications

ARB Criteria at Parts 1, 2 and 3

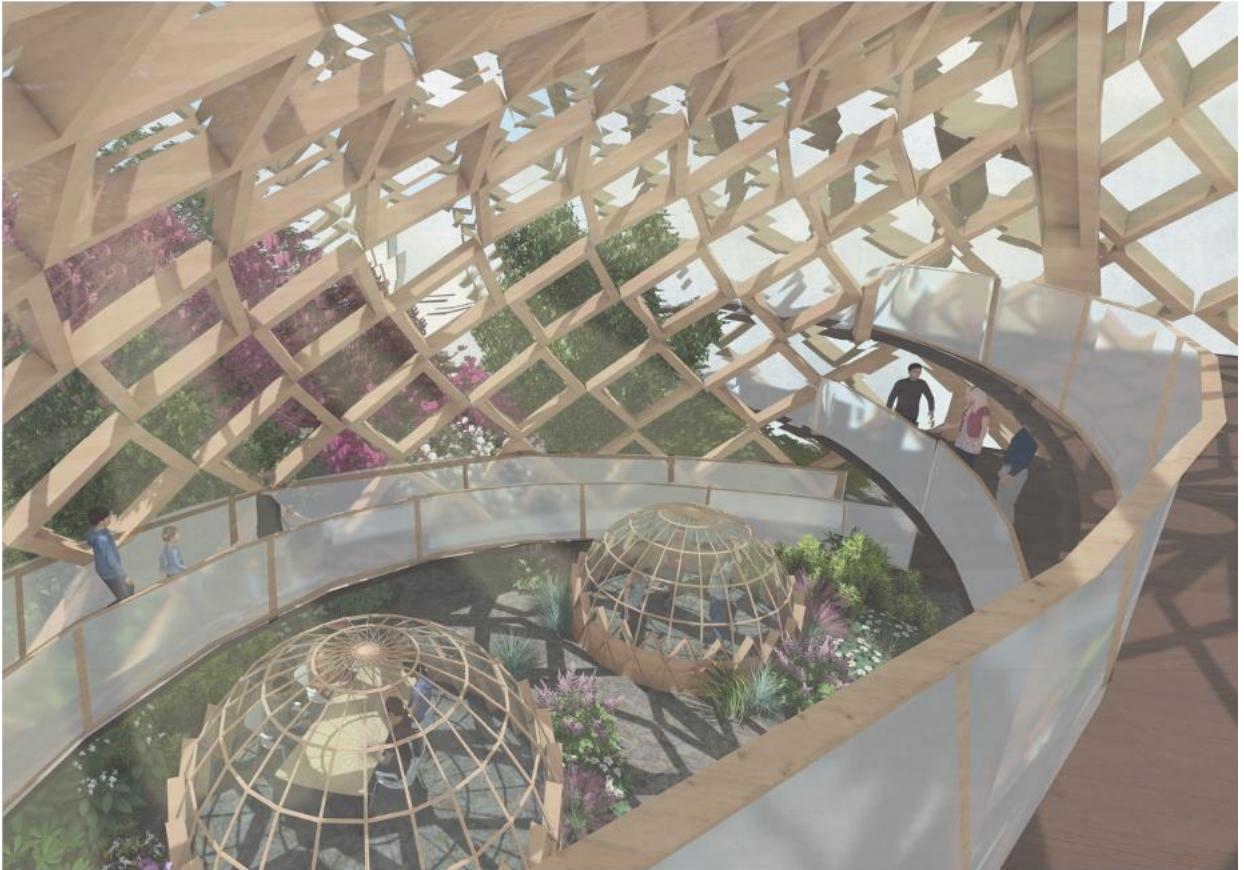
Approved: January 2010
Effective From: 2011/2012

<p>GCI Ability to create architectural designs that satisfy both aesthetic and technical requirements.</p> <p>GCI The graduate will have knowledge of:</p> <ul style="list-style-type: none"> 1 prepare and present building design projects of diverse scale, complexity, and type in a variety of contexts, using a range of media, and in response to a brief; 2 understand the constructional and structural systems, the environmental strategies and the regulatory requirements that apply to the design and construction of a comprehensive design project; 3 develop a conceptual and critical approach to architectural design that integrates and satisfies the aesthetic aspects of a building and the technical requirements of its construction and the needs of the user. 	<p>GCI0 The necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations.</p> <p>GCI0 The graduate will have the skills to:</p> <ul style="list-style-type: none"> 1 critically examine the financial factors implied in varying building types, constructional systems, and specification choices, and the impact of these on architectural design; 2 understand the cost control mechanisms which operate during the development of a project; 3 prepare designs that will meet building users' requirements and comply with UK legislation, appropriate performance standards and health and safety requirements. 	<p>PCI Professionalism.</p> <p>An successful candidate will demonstrate moral competence and the ability to behave with integrity, in the ethical and professional manner appropriate to the role of architect. The candidate will have the skills necessary to undertake effective communication and presentation, organisation, self-management and autonomous working.</p> <p>The candidate will have a clear understanding of the architect's obligation to society and the profession, and a sufficient awareness of the limits of their competence and professional experience to ensure they are utilised to bring the profession into dispute.</p> <p>Demonstration of an understanding of the following will contribute to this criterion being met:</p> <ul style="list-style-type: none"> 1.1 Professional ethics 1.2 The architect's obligation to society and the protection of the environment 1.3 Professional regulation, conduct and discipline 1.4 The architect's role in the planning process and codes of conduct 1.5 Attributes of integrity, impartiality, reliability and courtesy 1.6 Time management, recording, planning and review 1.7 Financial management, recording, planning and recording 1.8 Flexibility, adaptability and the principles of negotiation 1.9 Autonomous working and taking responsibility within a practice context 1.10 Continuing professional development
<p>GCI1 Adequate knowledge of the histories and theories of architecture and the related arts, technologies and human sciences.</p> <p>GCI1 The graduate will have knowledge of:</p> <ul style="list-style-type: none"> 1 the cultural, social and intellectual histories, theories and technologies that influence the design of buildings; 2 the influence of history and theory on the spatial, social, and technological aspects of architecture; 3 the application of appropriate theoretical concepts to studio design projects, demonstrating a reflective and critical approach. 	<p>GCI1 Adequate knowledge of the industries, organisations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning.</p> <p>GCI1 The graduate will have knowledge of:</p> <ul style="list-style-type: none"> 1 the fundamental legal, professional and statutory responsibilities of the architect, and the organisations, regulations and procedures involved in the negotiation and approval of architectural designs, including land law, development control, building regulations and health and safety legislation; 2 the professional inter-relationships of individuals and organisations involved in procuring and delivering architectural projects, and how these are defined through contractual and organisational structures; 3 the basic management theories and business principles related to running both an architect's practice and architectural projects, recognising current and emerging trends in the construction industry. 	<p>PCI2 Clients, users and delivery of services</p> <p>A successful candidate will be able to demonstrate understanding of the range of services offered by architects and delivering those services in a manner prioritising the interests of the client and the stakeholders. The candidate will demonstrate an understanding of the client's needs, appropriate communication, programming, coordination and competent delivery. This will be supported by knowledge of the briefing process, forms and terms of appointment, the means of professional remuneration, relevant legislation, and the execution of appropriate programmed and coordinated project tasks.</p> <p>Demonstration of an understanding of the following will contribute to this criterion being met:</p> <ul style="list-style-type: none"> 2.1 Types of clients, their priorities and the management of the relationship 2.2 Briefing, organising and the programming of services appropriate to appointment 2.3 The client's needs, appropriate communication, programming, coordination and relevant legislation 2.4 Obligations to stakeholders, warranties and third party rights 2.5 Communication, progress reporting and the provision of appropriate and timely advice 2.6 Responsibility for coordination and integration of design team input 2.8 Invoicing, payment of fees and financial management 2.9 Duty of care, professional liability, negligence and professional indemnity including insurance 2.10 Confidentiality and inclusion legislation 2.11 Health and safety
<p>GCI2 Adequate knowledge of the fine arts as an influence on the quality of architectural design.</p> <p>GCI2 The graduate will have knowledge of:</p> <ul style="list-style-type: none"> 1 how the theories, practices and technologies of the arts influence architectural design; 2 the creative application of the fine arts and their relevance and impact on architecture; 3 the creative application of such work to studio design projects, interns of their conceptualisation and representation. 	<p>GCI3 Adequate knowledge of urban design, planning and the skills involved in the planning process.</p> <p>GCI3 The graduate will have knowledge of:</p> <ul style="list-style-type: none"> 1 theories of urban design and the planning of communities; 2 the influence of the design and development of cities, past and present on the contemporary built environment; 3 current planning policy and development control legislation, including social, environmental and economic aspects, and the relevance of these to design development. 	<p>GCI4 Understanding of the relationship between people and buildings, and between buildings and their environment, and the need to relate buildings to the specific needs of human needs and use.</p> <p>GCI4 The graduate will have an understanding of:</p> <ul style="list-style-type: none"> 1 the needs and aspirations of building users; 2 the impact of buildings on the environment, and the precepts of sustainable design; 3 the way in which buildings fit in to their local context.
<p>GCI5 Understanding of the profession of architecture and the role of the architect in society, in particular in preparing briefs that take account of social factors.</p> <p>GCI5 The graduate will have an understanding of:</p> <ul style="list-style-type: none"> 1 the nature of professionalism and the duties and responsibilities of architects to clients, building users, contractors, co-professionals and the wider society; 2 the role of the architect within the design team and construction industry, recognising the importance of current methods and trends in the construction of the built environment; 3 the potential impact of building projects on existing and proposed communities. 	<p>GCI6 Understanding of the methods of investigation and preparation of the brief for a design project.</p> <p>GCI6 The graduate will have an understanding of:</p> <ul style="list-style-type: none"> 1 the need to critically review precedents relevant to the function, organisation and technological strategy of design proposals; 2 the need to appraise and prepare building briefs of diverse scales and types, to define client and user requirements and their appropriateness to site and context; 3 the contributions of architects and co-professionals to the formulation of the brief, and the methods of investigation used in its preparation. 	<p>PCI3 Legal framework and processes.</p> <p>A successful candidate will be able to demonstrate understanding of the legal context within which an architect must operate, and the processes undertaken to ensure compliance with statutory requirements or standards. The candidate will have the skills necessary to positively interact with statutory and private bodies or individuals, and competently deliver projects within diverse legislative frameworks. This will be supported by knowledge of the relevant law, regulations, guidance and central references to architectural design and construction.</p> <p>Demonstration of an understanding of the following will contribute to this criterion being met:</p> <ul style="list-style-type: none"> 3.1 The relevant UK legal systems, civil liabilities and the laws of contract and tort (delict)* 3.2 Building regulations, approved documents and standards, guidance and processes 3.4 Land law, property law and rights of other proprietors 3.5 Statutory undertakers and authorities, their responsibilities and the law relating to them by statute 3.6 Health and safety legislation and regulation 3.7 Statutory undertakers and authorities, their requirements and processes 3.8 Historic buildings legislation 3.9 Accessibility and inclusion legislation 3.10 *confidential
<p>GCI7 Understanding of the structural design, contractual and engineering problems associated with building design.</p> <p>GCI7 The graduate will have an understanding of:</p> <ul style="list-style-type: none"> 1 the investigation, critical appraisal and selection of alternative structural, constructional and material systems relevant to architectural design; 2 strategies for building construction, and ability to integrate knowledge of structural principles and construction techniques; 3 the physical properties and characteristics of building materials, components and systems, and the environmental impact of specification choices. 	<p>GCI8 Adequate knowledge of physical problems and technologies and the function of buildings so as to provide them with internal conditions of comfort and protection against the climate.</p> <p>GCI8 The graduate will have knowledge of:</p> <ul style="list-style-type: none"> 1 principles associated with designing optimum visual, thermal and acoustic environments; 2 systems for environmental comfort realised within relevant precepts of sustainable design; 3 strategies for building services, and ability to integrate these in a design project. 	<p>PCI4 Practice and management.</p> <p>A successful candidate will be able to demonstrate understanding of the business priorities, required management processes and risks of running an architectural practice, and the relationship between the practice of architecture and the management of the business. The candidate will have the skills necessary to manage administration and ability to resource, plan, implement and record project tasks to achieve stated goals, either individually or within a team. This will be supported by knowledge of the nature of legal business entities, office systems, administration procedures and the relevant legislation.</p> <p>Demonstration of an understanding of the following will contribute to this criterion being met:</p> <ul style="list-style-type: none"> 4.1 The roles of architectural practice in the construction industry 4.2 External factors affecting construction and practice at national and international levels 4.3 The nature of the business of an architect 4.4 Personnel management and employment-related legislation 4.5 Practice finance, business planning, funding and taxation 4.6 Legal issues, including contracts, law and regulation 4.7 Resource management and job costing 4.8 Administration, quality management, QA systems, recording and review 4.9 Staff development, motivation, supervision and planning 4.10 Team working and leadership
<p>GCI9 Understanding of the structural design, contractual and engineering problems associated with building design.</p> <p>GCI9 The graduate will have an understanding of:</p> <ul style="list-style-type: none"> 1 the investigation, critical appraisal and selection of alternative structural, constructional and material systems relevant to architectural design; 2 strategies for building construction, and ability to integrate knowledge of structural principles and construction techniques; 3 the physical properties and characteristics of building materials, components and systems, and the environmental impact of specification choices. 	<p>PCI5 Building procurement.</p> <p>A successful candidate will be able to demonstrate understanding of UK construction and contract law, construction procurement processes and the roles of built environment professionals. The candidate will have the skills necessary to plan project-related tasks, coordinate and engage in design team interactions, execute effective contract management, manage the procurement process, manage the delivery of the project, and demonstrate an understanding of contractual relationships, the obligations upon an architect acting as contract administrator, job-related administrative systems and the management of projects in the context of the candidate's professional experience.</p> <p>Demonstration of an understanding of the following will contribute to this criterion being met:</p> <ul style="list-style-type: none"> 5.1 Procurement methods, including for public and larger projects and relevant legislation 5.2 The effect of different procurement processes on programme, cost, risk and quality 5.3 The roles of different procurement professionals 5.4 Tendering methods, codes, procedures and project planning 5.5 Forms of contract and sub-contract, design responsibility and third party rights 5.6 Application and use of contract documents 5.7 Management of design team members and their interaction 5.8 Duties and powers of a lead consultant and contract administrator 5.9 Site processes, quality monitoring, progress recording, payment and completion 5.10 Claims, litigation and alternative dispute resolution methods 	<p>GCI10 With regard to meeting the eleven General Criteria at Parts 1 and 2 above, the Part 2 will be awarded to students who have:</p> <ul style="list-style-type: none"> 1. ability to generate complex design proposals showing understanding of current architectural issues, originally in the application of subject knowledge and, where appropriate, to test new hypotheses and speculations; 2. ability to evaluate and apply a comprehensive range of visual, oral and written media to test, analyse, critically appraise and explain design proposals; 3. ability to evaluate materials, processes and techniques that apply to complex architectural designs and building construction, and to integrate these into practicable design proposals; 4. critical understanding of how knowledge is advanced through research to produce clear, logically argued and original written work relating to architectural culture, theory and design; 5. understanding of the context of the architect and the construction industry, including the architect's role in the processes of procurement and building production, and under legislation; 6. problem solving skills, professional judgment, and ability to take the initiative and make appropriate decisions in complex and unpredictable circumstances; and 7. ability to identify individual learning needs and understand the personal responsibility required to prepare for qualification as an architect.

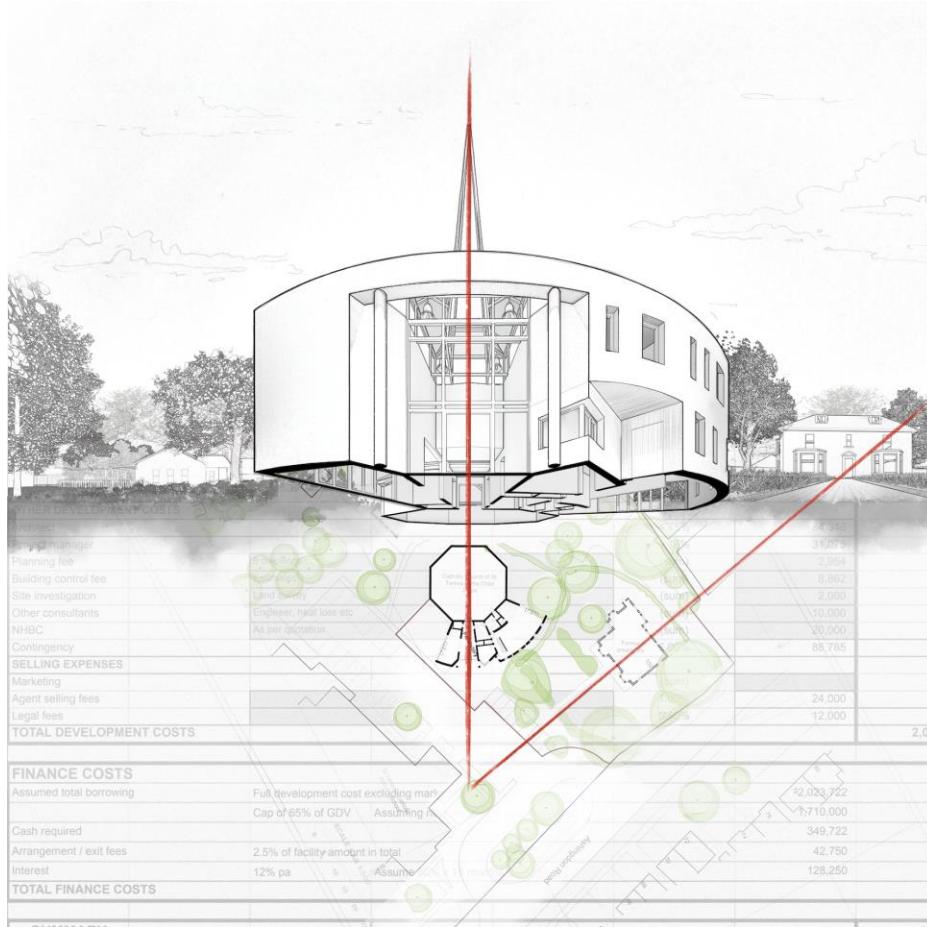
**World class mentors and
role models**



Think outside the box
... but stay grounded...



**Holistic
Integrative
Extradisciplinary**



Today

Time	Topic	Location
09:30-10:00	Using the Library to Succeed	Gulbenkian Cinema
10:00-11:30	Welcome to the School of Arts and Architecture	Marlowe Lecture Theatre 1
11:30-12:30	Level 7 Architect Apprenticeship Introduction	Marlowe Studio 6
12:30-14:00 Postgraduate Lunch – Marlowe Foyer		
14:00-14:15	Student Support and Wellbeing (SSW)	Marlowe Studio 6
14:15-14:30	Skills for Academic Success (SAS)	Marlowe Studio 6
14:30-15:00	Learning Technology	Marlowe Studio 6
15:00-16:00	MArch and PGT Apprentice Workshop Induction	Marlowe Workshop

Wednesday

Time	Core content
10:00-11:00	Introduction to Module Brief and main pedagogical objectives
11:00-11:30	Introduction to staff team
11:45-13:15	Keynote lecture on urban design theories and their application in contemporary design
14:30-17:00	Site visit (staff in attendance)

Thursday

Time	Core content
09:00-10:00	Introductory lecture for Cultural Context module focusing on issues relevant to Design 4a brief
10:00-11:00	Review of available site information
11:10-13:00	Charette briefing - objectives and methodologies

Friday

Time	Core content
10:00-13:00	Review of Charette proposals
TBC	All apprentices to define their own brief for the Autumn Term

Thank
You.