

MODULE DIRECTORY

LEVEL 7

SCHOOL OF ARCHITECTURE, CONSTRUCTION AND THE ENVIRONMENT

FACULTY OF SCIENCE AND ART

2026-2027

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INTRODUCTION

This Module Directory includes all the modules for Level 7 within the School of Architecture, Construction and the Environment in the academic year 2026-2027.

This directory accompanies the Programme of Study Handbook, which will provide you with details of which modules you will be studying for your programme this year in the 'Programme of Study' section. This directory may include modules that are running on other programmes of study within your School/Faculty. If you require assistance in identifying the modules for your programme of study, please contact the Programme Manager (whose name and contact details are provided in the accompanying Programme of Study Handbook), or the relevant Faculty Office.

The University has made every effort to make the information as full and as accurate as possible, but you should note that minor changes in the organisation of modules between the planning stage and the actual teaching are inevitable. We shall try to keep any such changes to a minimum, and you will receive plenty of advance warning in the event of any alteration. We would also be grateful if you would let us know about any changes that you think might be helpful if introduced into future handbooks.

MODULES

Module Code	ACAA7000
Title	Architectural Design B: Collaboration (Design Resolution)
Date	17/03/2023
Level	7
Credits	20
Pre-Requisites	None

ARB/RIBA criteria addressed in this module	
The ability to create architectural designs that satisfy both aesthetic and technical requirements	GC1
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	1.1
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	1.3
Knowledge of the fine arts as an influence on the quality of architectural design	GC3
how the theories, practices and technologies of the arts influence architectural design	3.1
the creative application of the fine arts and their relevance and impact on architecture	3.2
the creative application of such work to studio design projects in terms of their conceptualisation and representation	3.3
Understanding of the relationship between people and buildings, and between buildings and their environment, and the need to relate buildings and the spaces between them to human needs and scale	GC5
the needs and aspirations of building users	5.1
the impact of buildings on the environment and the precepts of sustainable design	5.2
the way in which buildings fit into their local context	5.3
Understanding of the methods of investigation and preparation of the brief for a design project	GC7
the need to critically review precedents relevant to the function, organisation and technological strategy of design proposals	7.1
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	7.2
the contributions of architects and co-professionals to the formulation of the brief, and the methods of investigation used in its preparation	7.3
RIBA THEMES AND VALUES	T&V
Structures, Construction, and Resources: demonstrating climate literacy, responsible specification, and ethical sourcing to enhance wellbeing, minimise embodied carbon, waste, and pollution, and reduce demands on energy and water	E3
Design pedagogies and architectural expression: critically evaluating authentic aesthetic, compositional, and spatial principles to synthesise socially, ecologically, and environmentally sustainable integrated studio projects	E5
GRADUATE ATTRIBUTES AT PART 2 LEVEL	GA
the ability to generate complex design proposals showing understanding of current architectural issues, originality in the application of subject knowledge and, where appropriate, to test hypotheses and speculations	1.1
the ability to evaluate and apply a comprehensive a range of visual, aural and written media to test, analyse, critically appraise and explain design proposals	1.2
problem-solving skills, professional judgement and the ability to take the initiative and make appropriate decisions in complex and unpredictable circumstances	1.6

AIM(S)

- To develop the skills of collaboration in architectural design which may be achieved at a variety of scales, for example, the creation of masterplan for a new settlement or urban quarter, the design of a community building, the design and construction of a small building are examples of appropriate design tasks.
- To allow small groups of students the opportunity to conceive and develop an architectural design on a real site, working in collaboration with an external agency, business, association or other body in response to a design brief taking into account the political, economic and social context.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- create and present a design for a building or group of buildings in response to a design brief;
- demonstrate a practical understanding of the structural, constructional and environment strategies that underlie his/her design proposal and how it meets the needs of users and regulatory and life safety requirements;
- demonstrate a critical awareness of how her/his design relates to its cultural context and relevant theories of architecture.

INDICATIVE CONTENT

- Site context analysis: constraints and opportunities.
- Initial design proposal exploring alternative strategies.
- Development of chosen design approach to a full scheme design equivalent to RIBA Stage 3.
- Design report outlining response to context, structural principles, construction methods environmental strategy and response to climate change by mitigation and adaption.
- Interim and final presentations of progress to peers and tutors.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Portfolio	Design proposals explained in drawings, models, sketchbooks and other documents as required by the subject of the project.	100%

Assessment Summary

Activity type	Percentage
Written exam	
Coursework	100%
Practical	
TOTAL	100%

This module is designed to meet in part the requirements of the ARB and RIBA (see above). The purpose of the module includes working in collaboration with other students but is assessed individually: students are required to identify their contributions to group submissions.

INDICATIVE READING LIST

Module Code	ACAA7000	
Module Title	Architectural Design B: Collaboration (Design Resolution)	
Classification	Reading List entry	Electronic*
Essential	RIBA Plan of Work 2020	☒
Essential	RIBA Sustainable Outcomes Guide 2019	☒
Essential	Hetreed, J., Ross, A. and Baden-Powell, C. (2017) <i>The Architect's Pocket Book</i> : 5 th ed. Abingdon: Routledge	☒
Essential	Unwin, S. (2020) <i>Analysing Architecture</i> : 5 th ed. London: Routledge	☒
Essential	McMullan, R. (2017) <i>Environmental Science in Building</i> : 8 th ed. London: Palgrave Macmillan	☐
Further	Goldsmith, S. (2000) <i>Universal Design</i> , Oxford: Architectural Press	☒
Further	Brown, G. Z. and DeKay, M. (2014) <i>Sun, Wind and Light: Architectural Design Strategies</i> Hoboken NJ: Wiley	☒
Further	Alread, J. and Thomas, L. (2007) <i>Design-Tech: Building Science for Architects</i> Oxford: Architectural Press	☒
Further	Edwards, B. (2014) <i>Rough Guide to Sustainability</i> : 4 th ed. London: RIBA Publishing	☒
Further	Buxton, P. (ed) (2021) <i>Metric Handbook: Planning & Design Data</i> : 7 th ed. Milton Park: Routledge	☒
Further	Further reading will be recommended at the start of the module depending on the location and nature of the design project. Journals <i>Architects Journal</i>	☒

	<i>Building Design</i> <i>Architecture Today</i> Websites www.architecture.com www.architectsjournal.co.uk www.bdonline.co.uk www.greatbuildings.com http://www.ajbuildingslibrary.co.uk	
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Module Code	ACAA7001
Title	Architectural Design C: Design Research
Date	17/03/2023
Level	7
Credits	20
Pre-Requisites	None

ARB/RIBA criteria addressed in this module	
The ability to create architectural designs that satisfy both aesthetic and technical requirements	GC1
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	1.1
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	1.3
Adequate knowledge of the histories and theories of architecture and the related arts, technologies and human sciences	GC2
the cultural, social and intellectual histories, theories and technologies that influence the design of buildings	2.1
the influence of history and theory on the spatial, social, and technological aspects of architecture	2.2
the application of appropriate theoretical concepts to studio design projects, demonstrating a reflective and critical approach	2.3
Knowledge of the fine arts as an influence on the quality of architectural design	GC3
how the theories, practices and technologies of the arts influence architectural design	3.1
the creative application of the fine arts and their relevance and impact on architecture	3.2
the creative application of such work to studio design projects, in terms of their conceptualisation and representation	3.3
Adequate knowledge of urban design, planning and the skills involved in the planning process.	GC4
theories of urban design and the planning of communities	4.1
the influence of the design and development of cities, past and present on the contemporary built environment	4.2
current planning policy and development control legislation, including social, environmental and economic aspects, and the relevance of these to design development	4.3
Understanding of the relationship between people and buildings, and between buildings and their environment, and the need to relate buildings and the spaces between them to human needs and scale	GC5
the needs and aspirations of building users	5.1
the impact of buildings on the environment, and the precepts of sustainable design	5.2
the way in which buildings fit into their local context	5.3
RIBA THEMES AND VALUES	T&V
Ethical and Professional Practice: acquiring professional and communication skills to ensure projects are delivered with integrity and accountability within global, national, and professional climate targets	E2
Structures, Construction, and Resources: demonstrating climate literacy, responsible specification, and ethical sourcing to enhance wellbeing, minimise embodied carbon, waste, and pollution, and reduce demands on energy and water.	E3

History Theory and Methodologies: critically analysing and researching narratives and cultural, environmental, and social values in architecture to understand and extend architectural pedagogy	E4
GRADUATE ATTRIBUTES AT PART 2 LEVEL	GA
ability to generate complex design proposals showing understanding of current architectural issues, originality in the application of subject knowledge and, where appropriate, to test hypotheses and speculations	1
ability to evaluate and apply a comprehensive a range of visual, aural and written media to test, analyse, critically appraise and explain design proposals	2
problem solving skills, professional judgement, and ability to take the initiative and make appropriate decisions in complex and unpredictable circumstances	6

AIM(S)

- To apply architectural design and other appropriate research techniques to the investigation of an architecture-related problem or issue. Appropriate areas of investigation include, but are not limited to: building typologies, structural design, construction and environmental performance.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- prepare and present conceptual building designs which explore or elucidate a research question and critically evaluate current research in the discipline;
- write a clearly structured report setting out aims, methods, findings and conclusions of a research study.

INDICATIVE CONTENT

- Review of academic research methods in general and the benefits and limitations of design as a research tool in particular.
- Definition of a research question.
- Design research exercises.
- Preparation of a design-based research report.
- Interim and final presentations of progress and conclusions.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Portfolio	Design studies and report, sketchbooks and other documents as required by the subject of the project.	100%

Assessment Summary

Activity type	Percentage
Written exam	
Coursework	100%
Practical	
TOTAL	100%

INDICATIVE READING LIST

Module Code	ACAA7001	
Module Title	Architectural Design C: Design Research	
Classification	Reading List entry	Electronic*
Essential	Creswell, J. W. (2018) <i>Research Design: Qualitative and Mixed Methods Approaches</i> : 5 th ed. California: Sage Publications	☒
Essential	Fellows, R. (2008) <i>Research Methods for Construction</i> . Chichester: Wiley-Blackwell	☒
Essential	Groat, L. and Wang, D. (2013) <i>Architectural Research Methods</i> : 2 nd ed. Hoboken NJ: Wiley	☒
Essential	Knight, A. (2008) <i>Advanced Research Methods in the Built Environment</i> Hoboken NJ: Wiley	☐
Essential	RIBA Plan of Work 2020	☒
Further	RIBA Sustainable Outcomes Guide 2019	☒
Further	Hetreed, J., Ross, A. and Baden-Powell, C. (2017) <i>The Architect's Pocket Book</i> : 5 th ed. Abingdon: Routledge	☒
Further	Unwin, S. (2020) <i>Analysing Architecture</i> : 5 th ed. London: Routledge	☒
Further	Goldsmith, S. (2000) <i>Universal Design</i> Oxford: Architectural Press	☒
Further	Brown, G. Z. and DeKay, M. (2014) <i>Sun, Wind and Light: Architectural Design Strategies</i> Hoboken NJ: Wiley	☒
Further	Alread, J. and Thomas, L. (2007) <i>Design-Tech: Building Science for Architects</i> Oxford: Architectural Press	☒
Further	Edwards, B. (2014) <i>Rough Guide to Sustainability</i> : 4 th ed. London: RIBA Publishing	☒
Further	Buxton, P. (ed) (2021) <i>Metric Handbook: Planning & Design Data</i> : 7 th ed. Milton Park: Routledge	☒
Further	Further reading will be recommended at the start of the module depending on the location and nature of the design project Journals <i>Architects Journal</i>	☒

	<i>Building Design</i> <i>Architecture Today</i> Websites www.architecture.com www.architectsjournal.co.uk www.bdonline.co.uk www.greatbuildings.com http://www.ajbuildingslibrary.co.uk	
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Module Code	ACAA7002
Title	Design Thesis A: Research & Brief
Date	17/03/2023
Level	7
Credits	20
Pre-Requisites	None

ARB/RIBA criteria addressed in this module	
The ability to create architectural designs that satisfy both aesthetic and technical requirements	GC1
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	1.1
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	1.2
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	1.3
Knowledge of the fine arts as an influence on the quality of architectural design	GC3
how the theories, practices and technologies of the arts influence architectural design	3.1
the creative application of the fine arts and their relevance and impact on architecture	3.2
the creative application of such work to studio design projects, in terms of their conceptualisation and representation	3.3
Understanding of the relationship between people and buildings, and between buildings and their environment, and the need to relate buildings and the spaces between them to human needs and scale	GC5
the needs and aspirations of building users	5.1
the impact of buildings on the environment, and the precepts of sustainable design	5.2
the way in which buildings fit into their local context	5.3
Understanding of the methods of investigation and preparation of the brief for a design project	GC7
the need to critically review precedents relevant to the function, organisation and technological strategy of design proposals;	7.1
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;	7.2
the contributions of architects and co-professionals to the formulation of the brief, and the methods of investigation used in its preparation.	7.3
Understanding of the structural design, constructional and engineering problems associated with building design.	GC8
the investigation, critical appraisal and selection of alternative structural, constructional and material systems relevant to architectural design;	8.1
strategies for building construction, and ability to integrate knowledge of structural principles and construction techniques;	8.2
the physical properties and characteristics of building materials, components and systems, and the environmental impact of specification choices.	8.3
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.	GC9

principles associated with designing optimum visual, thermal and acoustic environments;	9.1
systems for environmental comfort realised within relevant precepts of sustainable design;	9.2
strategies for building services, and ability to integrate these in a design project.	9.3
The necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations.	GC10
critically examine the financial factors implied in varying building types, constructional systems, and specification choices, and the impact of these on architectural design;	10.1
understand the cost control mechanisms which operate during the development of a project;	10.2
prepare designs that will meet building users' requirements and comply with UK legislation, appropriate performance standards and health and safety requirements.	10.3
RIBA THEMES AND VALUES	T&V
Health and Life Safety: Demonstrating authoritative knowledge of statutory frameworks to safeguard the community and the end user.	E1
Ethical and Professional Practice: Ethical and Professional Practice: acquiring professional and communication skills to ensure projects are delivered with integrity and accountability within global, national, and professional climate targets	E2
History Theory and Methodologies: critically analysing and researching narratives and cultural, environmental, and social values in architecture to understand and extend architectural pedagogy	E4
GRADUATE ATTRIBUTES AT PART 2 LEVEL	GA
ability to generate complex design proposals showing understanding of current architectural issues, originality in the application of subject knowledge and, where appropriate, to test hypotheses and speculations	1
ability to evaluate and apply a comprehensive a range of visual, aural and written media to test, analyse, critically appraise and explain design proposals	2
problem solving skills, professional judgement, and ability to take the initiative and make appropriate decisions in complex and unpredictable circumstances	6

AIM(S)

This is the first of the four linked modules of the Design Thesis that, taken together, demonstrate the student's ability to generate complex architectural designs that satisfy aesthetic and technical requirements. It is delivered in the first half of semester one.

- To allow the student to develop a comprehensive design brief for an individual thesis project based on investigation of client aspirations, assessment of needs, the critical analysis of relevant precedent and understanding the constraints of cost, planning policies, regulatory requirements and life safety.
- To allow the student to explore alternative strategic approaches to the design of buildings and other physical works in response to brief and context

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- systematically prepare a design brief taking into account relevant design precedents, client and user requirements, the advice of co-professionals and the characteristics of site and context;
- carry out a comprehensive appraisal of the opportunities and constraints of a development site;
- create and critically evaluate alternative approaches to the design of buildings and other physical works in response to brief and context.

INDICATIVE CONTENT

Each year the course team will identify sites and building types which provide appropriate vehicles for students to demonstrate graduate level architectural design abilities. Several students may work on the same site with the same brief. Several may work to similar briefs, but design for different sites. All may have a unique brief and a unique site. A set of projects may arise out of a study of a particular city or district or a masterplan created by several students. There are many acceptable permutations. In this introductory module, it is desirable for students to cooperate in research and share the results with peers, but assessment is based on individual work.

- Working individually or in groups in groups to explore needs and issues, review planning context, and regulatory and life safety.
- Critical assessment of building precedents and review of relevant literature.
- Site identification and appraisal.
- Preparation of a (shared or individual) design brief and schedule of accommodation.
- Strategic design study.
- Work programme.
- Interim and final presentations of progress and conclusions.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Portfolio	8 – 10 elements or equivalent, comprising design brief, accommodation schedule, site analysis report, design study, sketchbook and other documents as required by the subject of the project	100%

Assessment Summary

Activity type	Percentage
Written exam	
Coursework	100%
Practical	
TOTAL	100%

This module is designed to meet in part the requirements of the ARB and RIBA (see above). The purpose of the module includes working in collaboration with other students but is assessed individually: students are required to identify their contributions to group submissions.

INDICATIVE READING LIST

Module Code	ACAA7002	
Module Title	Design Thesis A: Research & Brief	
Classification	Reading List entry	Electronic*
Essential	RIBA Plan of Work 2020	☒
Essential	RIBA Sustainable Outcomes Guide 2019	☒
Essential	Hetreed, J., Ross, A. and Baden-Powell, C. (2017) <i>The Architect's Pocket Book</i> : 5 th ed. Abingdon: Routledge	☒
Essential	Unwin, S. (2020) <i>Analysing Architecture</i> : 5 th ed. London: Routledge	☒
Essential	McMullan, R. (2017) <i>Environmental Science in Building</i> : 8 th ed. London: Palgrave Macmillan	☐
Further	Goldsmith, S. (2000) <i>Universal Design</i> Oxford: Architectural Press	☒
Further	Brown, G. Z. and DeKay, M. (2014) <i>Sun, Wind and Light: Architectural Design Strategies</i> Hoboken NJ: Wiley	☒
Further	Alread, J. and Thomas, L. (2007) <i>Design-Tech: Building Science for Architects</i> Oxford: Architectural Press	☒
Further	Edwards, B. (2014) <i>Rough Guide to Sustainability</i> : 4 th ed. London: RIBA Publishing	☒
Further	Buxton, P. (ed) (2021) <i>Metric Handbook: Planning & Design Data</i> : 7 th ed. Milton Park: Routledge	☒
Further	Further reading will be recommended at the start of the module depending on the location and nature of the design project Journals <i>Architects Journal</i> <i>Building Design</i>	☒

	<i>Architecture Today</i> Websites www.architecture.com www.architectsjournal.co.uk www.bdonline.co.uk www.greatbuildings.com http://www.ajbuildingslibrary.co.uk	
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Module Code	ACAA7003
Title	Design Thesis B: Design Development
Date	17/03/2023
Level	7
Credits	20
Pre-Requisites	None

ARB/RIBA criteria addressed in this module	
Ability to create architectural designs that satisfy both aesthetic and technical requirements	GC1
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;	1.1
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	1.2
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	1.3
Knowledge of the fine arts as an influence on the quality of architectural design.	GC3
how the theories, practices and technologies of the arts influence architectural design;	3.1
the creative application of the fine arts and their relevance and impact on architecture;	3.2
the creative application of such work to studio design projects, in terms of their conceptualisation and representation.	3.3
Understanding of the relationship between people and buildings, and between buildings and their environment, and the need to relate buildings and the spaces between them to human needs and scale.	GC5
the needs and aspirations of building users;	5.1
the impact of buildings on the environment, and the precepts of sustainable design;	5.2
the way in which buildings fit into their local context.	5.3
Understanding of the methods of investigation and preparation of the brief for a design project.	GC7
the need to critically review precedents relevant to the function, organisation and technological strategy of design proposals;	7.1
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;	7.2
the contributions of architects and co-professionals to the formulation of the brief, and the methods of investigation used in its preparation.	7.3
Understanding of the structural design, constructional and engineering problems associated with building design.	GC8
the investigation, critical appraisal and selection of alternative structural, constructional and material systems relevant to architectural design;	8.1
strategies for building construction, and ability to integrate knowledge of structural principles and construction techniques;	8.2
the physical properties and characteristics of building materials, components and systems, and the environmental impact of specification choices.	8.3
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.	GC9

principles associated with designing optimum visual, thermal and acoustic environments;	9.1
systems for environmental comfort realised within relevant precepts of sustainable design;	9.2
strategies for building services, and ability to integrate these in a design project.	9.3
The necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations.	GC10
critically examine the financial factors implied in varying building types, constructional systems, and specification choices, and the impact of these on architectural design;	10.1
understand the cost control mechanisms which operate during the development of a project;	10.2
prepare designs that will meet building users' requirements and comply with UK legislation, appropriate performance standards and health and safety requirements.	10.3
RIBA THEMES AND VALUES	T&V
Health and Life Safety: Demonstrating authoritative knowledge of statutory frameworks to safeguard the community and the end user.	E1
Structures, Construction, and Resources: demonstrating climate literacy, responsible specification, and ethical sourcing to enhance wellbeing, minimise embodied carbon, waste, and pollution, and reduce demands on energy and water.	E3
Design pedagogies and architectural expression: critically evaluating authentic aesthetic, compositional, and spatial principles to synthesise socially, ecologically, and environmentally sustainable integrated studio projects.	E5
GRADUATE ATTRIBUTES AT PART 2 LEVEL	GA
ability to generate complex design proposals showing understanding of current architectural issues, originality in the application of subject knowledge and, where appropriate, to test hypotheses and speculations	1
ability to evaluate and apply a comprehensive a range of visual, aural and written media to test, analyse, critically appraise and explain design proposals	2
Ability to evaluate materials, processes and techniques that apply to complex architectural designs and building construction, and to integrate these into practicable design proposals	3
problem solving skills, professional judgement, and ability to take the initiative and make appropriate decisions in complex and unpredictable circumstances	6

AIM(S)

This is the second of the four linked modules of the Design Thesis that, taken together, demonstrate the student's ability to generate complex architectural designs that satisfy aesthetic and technical requirements. It is delivered in the second half of semester one.

- To allow the student to develop an initial proposal for comprehensive design for a building or group buildings based on a defined brief, assessment of alternative strategies and understanding the constraints of cost, planning policies, regulatory requirements and life safety and demonstrating knowledge of structural principles, relevant construction methods and materials the principles of sustainable design.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- develop outline design proposals for a building or group of buildings to serve multiple functions made up of spaces of a variety of size and character depicted in drawings (plan, section and elevation), three dimensional drawings or computer models and/or physical sketch models;
- communicate the overall structural, constructional and environmental strategies that have informed the outline design proposals;
- have a practical understanding of how the design, responds to its physical, economic, social and cultural context and takes into account, planning policies, regulatory requirements and life safety;
- have a conceptual understanding of building safety issues and develop a means of escape strategy in case of fire.

INDICATIVE CONTENT

Each year the course team will identify sites and building types that provide appropriate vehicles for students to demonstrate graduate level architectural design abilities. Several students may work on the same site with the same brief. Several may work to similar briefs but design for different sites. All may have a unique brief and a unique site. A set of projects may arise out of a study of a particular city or district or a masterplan created by several students. There are many acceptable permutations. In this introductory module it is desirable for students to cooperate in research and share the results with peers but assessment is based on individual work.

- The outline design of a building or group of buildings to serve multiple functions made up of spaces of a variety of size and character responding to the brief developed in the module Design Thesis A.
- Interim and final presentations of progress and conclusions.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Portfolio	8 - 10 elements or equivalent, comprising of scheme design drawings, computer models, sketchbook and other documents as required by the subject of the project.	100%

Assessment Summary

Activity type	Percentage
Written exam	
Coursework	100%
Practical	
TOTAL	100%

This module is designed to meet in part the requirements of the ARB and RIBA (see above).

The purpose of the module includes working in collaboration with other students, but is assessed individually.

Students are required to identify their contributions to group submissions.

INDICATIVE READING LIST

Module Code	ACAA7003	
Module Title	Design Thesis B: Design Development	
Classification	Reading List entry	Electronic*
Essential	RIBA Plan of Work 2020	☒
Essential	RIBA Sustainable Outcomes Guide 2019	☒
Essential	Hetreed, J., Ross, A. and Baden-Powell, C. (2017) <i>The Architect's Pocket Book</i> : 5 th ed. Abingdon: Routledge	☒
Essential	Unwin, S. (2020) <i>Analysing Architecture</i> : 5 th ed. London: Routledge	☒
Essential	McMullan, R. (2017) <i>Environmental Science in Building</i> : 8 th ed. London: Palgrave Macmillan	☐
Further	Goldsmith, S. (2000) <i>Universal Design</i> Oxford: Architectural Press	☒
Further	Brown, G. Z. and DeKay, M. (2014) <i>Sun, Wind and Light: Architectural Design Strategies</i> Hoboken NJ: Wiley	☒
Further	Alread, J. and Thomas, L. (2007) <i>Design-Tech: Building Science for Architects</i> Oxford: Architectural Press	☒
Further	Edwards, B. (2014) <i>Rough Guide to Sustainability</i> : 4 th ed. London: RIBA Publishing	☒
Further	Buxton, P. (ed) (2021) <i>Metric Handbook: Planning & Design Data</i> : 7 th ed. Milton Park: Routledge	☒
Further	Further reading will be recommended at the start of the module depending on the location and nature of the design project	☒

	Journals <i>Architects Journal</i> <i>Building Design</i> <i>Architecture Today</i> Websites www.architecture.com www.architectsjournal.co.uk www.bdonline.co.uk www.greatbuildings.com http://www.ajbuildingslibrary.co.uk	
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Module Code	ACAA7004
Title	Design Thesis C: Design Resolution
Date	17/03/2023
Level	7
Credits	20
Pre-Requisites	None

ARB/RIBA criteria addressed in this module	
Ability to create architectural designs that satisfy both aesthetic and technical requirements	GC1
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;	1.1
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	1.2
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	1.3
Adequate knowledge of the histories and theories of architecture and the related arts, technologies and human sciences.	GC2
the cultural, social and intellectual histories, theories and technologies that influence the design of buildings;	2.1
the influence of history and theory on the spatial, social, and technological aspects of architecture;	2.2
the application of appropriate theoretical concepts to studio design projects, demonstrating a reflective and critical approach.	2.3
Knowledge of the fine arts as an influence on the quality of architectural design.	GC3
how the theories, practices and technologies of the arts influence architectural design;	3.1
the creative application of the fine arts and their relevance and impact on architecture;	3.2
the creative application of such work to studio design projects, in terms of their conceptualisation and representation.	3.3
Adequate knowledge of urban design, planning and the skills involved in the planning process.	GC4
theories of urban design and the planning of communities;	4.1
the influence of the design and development of cities, past and present on the contemporary built environment;	4.2
current planning policy and development control legislation, including social, environmental and economic aspects, and the relevance of these to design development.	4.3
Understanding of the relationship between people and buildings, and between buildings and their environment, and the need to relate buildings and the spaces between them to human needs and scale.	GC5
the needs and aspirations of building users;	5.1
the impact of buildings on the environment, and the precepts of sustainable design;	5.2
the way in which buildings fit into their local context.	5.3
Understanding of the methods of investigation and preparation of the brief for a design project.	GC7
the need to critically review precedents relevant to the function, organisation and technological strategy of design proposals;	7.1

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;	7.2
the contributions of architects and co-professionals to the formulation of the brief, and the methods of investigation used in its preparation.	7.3
Understanding of the structural design, constructional and engineering problems associated with building design.	GC8
the investigation, critical appraisal and selection of alternative structural, constructional and material systems relevant to architectural design;	8.1
strategies for building construction, and ability to integrate knowledge of structural principles and construction techniques;	8.2
the physical properties and characteristics of building materials, components and systems, and the environmental impact of specification choices.	8.3
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.	GC9
principles associated with designing optimum visual, thermal and acoustic environments;	9.1
systems for environmental comfort realised within relevant precepts of sustainable design;	9.2
strategies for building services, and ability to integrate these in a design project.	9.3
The necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations.	GC10
critically examine the financial factors implied in varying building types, constructional systems, and specification choices, and the impact of these on architectural design;	10.1
understand the cost control mechanisms which operate during the development of a project;	10.2
prepare designs that will meet building users' requirements and comply with UK legislation, appropriate performance standards and health and safety requirements.	10.3
RIBA THEMES AND VALUES	T&V
Health and Life Safety: Demonstrating authoritative knowledge of statutory frameworks to safeguard the community and the end user.	E1
Structures, Construction, and Resources: demonstrating climate literacy, responsible specification, and ethical sourcing to enhance wellbeing, minimise embodied carbon, waste, and pollution, and reduce demands on energy and water.	E3
Design pedagogies and architectural expression: critically evaluating authentic aesthetic, compositional, and spatial principles to synthesise socially, ecologically, and environmentally sustainable integrated studio projects.	E5
GRADUATE ATTRIBUTES AT PART 2 LEVEL	GA
ability to generate complex design proposals showing understanding of current architectural issues, originality in the application of subject knowledge and, where appropriate, to test hypotheses and speculations	1
ability to evaluate and apply a comprehensive a range of visual, aural and written media to test, analyse, critically appraise and explain design proposals	2
Ability to evaluate materials, processes and techniques that apply to complex architectural designs and building construction, and to integrate these into practicable design proposals	3
problem solving skills, professional judgement, and ability to take the initiative and make appropriate decisions in complex and unpredictable circumstances	6

AIM(S)

This is the third of the four linked modules of the Design Thesis that, taken together, demonstrate the student's ability to generate complex architectural designs which satisfy aesthetic and technical requirements. It is delivered in semester two, in parallel with the module Design Thesis: Design Statement.

- To allow the student to develop detailed proposal for comprehensive design for a building or group buildings based on a defined brief, assessment of alternative strategies, understanding of the constraints of cost, planning policies, regulatory requirements and life safety and knowledge of structural principles, appropriate construction methods and materials and the principles of sustainable design.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- develop detailed design proposals for a building or group of buildings to serve multiple functions made up of spaces of a variety of size and character depicted in drawings (plan, section and elevation), three dimensional drawings or computer models and/or physical models;
- have a conceptual understanding of building safety issues and develop a means of escape strategy in case of fire;
- critically evaluate the product specification for fire safety and performance as part of a proposed construction system;
- provide a clear rationale for the three-dimensional organisation and detailed resolution of the design, and communicate the overall structural, constructional and environmental strategies that have informed the design;
- explain how the design, as finally resolved, responds to its physical, economic, social and cultural context and takes into account construction cost, planning policies, regulatory requirements and life safety.

INDICATIVE CONTENT

- The detailed design of a building or group of buildings to serve multiple functions made up of spaces of a variety of size and character responding to the brief developed in the module Design Thesis A.
- Interim and final presentations of progress and conclusions.
- Analysis of Building Fire Safety.
- Analysis of response to climate emergency.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Portfolio	8 – 10 elements or equivalent, comprising design drawings, design detail construction study, building safety analysis, response to climate emergency analysis, sketchbook and other documents as required by the subject of the project.	100%

Assessment Summary

Activity type	Percentage
Written exam	
Coursework	100%
Practical	
TOTAL	100%

INDICATIVE READING LIST

Module Code	ACAA7004	
Module Title	Design Thesis C: Design Resolution	
Classification	Reading List entry	Electronic*
Essential	RIBA Plan of Work 2020	☒
Essential	RIBA Sustainable Outcomes Guide 2019	☒
Essential	Hetreed, J., Ross, A. and Baden-Powell, C. (2017) <i>The Architect's Pocket Book</i> : 5 th ed. Abingdon: Routledge	☒
Essential	Unwin, S. (2020) <i>Analysing Architecture</i> : 5 th ed. London: Routledge	☒
Essential	McMullan, R. (2017) <i>Environmental Science in Building</i> : 8 th ed. London: Palgrave Macmillan	☐
Further	Goldsmith, S. (2000) <i>Universal Design</i> Oxford: Architectural Press	☒
Further	Brown, G. Z. and DeKay, M. (2014) <i>Sun, Wind and Light: Architectural Design Strategies</i> Hoboken NJ: Wiley	☒
Further	Alread, J. and Thomas, L. (2007) <i>Design-Tech: Building Science for Architects</i> Oxford: Architectural Press	☒

Further	Edwards, B. (2014) <i>Rough Guide to Sustainability</i> : 4 th ed. London: RIBA Publishing	☒
Further	Buxton, P. (ed) (2021) <i>Metric Handbook: Planning & Design Data</i> : 7 th ed. Milton Park: Routledge	☒
Further	Further reading will be recommended at the start of the module depending on the location and nature of the design project Journals <i>Architects Journal</i> <i>Building Design</i> <i>Architecture Today</i> Websites www.architecture.com www.architectsjournal.co.uk www.bdonline.co.uk www.greatbuildings.com http://www.ajbuildingslibrary.co.uk	☒

Module Code	ACAA7005
Title	Design Thesis D: Statement of Design Intent and Resolution
Date	17/03/2023
Level	7
Credits	20
Pre-Requisites	None

ARB/RIBA criteria addressed in this module	
Ability to create architectural designs that satisfy both aesthetic and technical requirements	GC1
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;	1.1
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	1.2
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	1.3
Adequate knowledge of the histories and theories of architecture and the related arts, technologies and human sciences.	GC2
the cultural, social and intellectual histories, theories and technologies that influence the design of buildings;	2.1
the influence of history and theory on the spatial, social, and technological aspects of architecture;	2.2
the application of appropriate theoretical concepts to studio design projects, demonstrating a reflective and critical approach.	2.3
Knowledge of the fine arts as an influence on the quality of architectural design.	GC3
how the theories, practices and technologies of the arts influence architectural design;	3.1
the creative application of the fine arts and their relevance and impact on architecture;	3.2
the creative application of such work to studio design projects, in terms of their conceptualisation and representation.	3.3
Adequate knowledge of urban design, planning and the skills involved in the planning process.	GC4
theories of urban design and the planning of communities;	4.1
the influence of the design and development of cities, past and present on the contemporary built environment;	4.2
current planning policy and development control legislation, including social, environmental and economic aspects, and the relevance of these to design development.	4.3
Understanding of the relationship between people and buildings, and between buildings and their environment, and the need to relate buildings and the spaces between them to human needs and scale.	GC5
the needs and aspirations of building users;	5.1
the impact of buildings on the environment, and the precepts of sustainable design;	5.2
the way in which buildings fit into their local context.	5.3
Understanding of the methods of investigation and preparation of the brief for a design project.	GC7
the need to critically review precedents relevant to the function, organisation and technological strategy of design proposals;	7.1

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;	7.2
the contributions of architects and co-professionals to the formulation of the brief, and the methods of investigation used in its preparation.	7.3
Understanding of the structural design, constructional and engineering problems associated with building design.	GC8
the investigation, critical appraisal and selection of alternative structural, constructional and material systems relevant to architectural design;	8.1
strategies for building construction, and ability to integrate knowledge of structural principles and construction techniques;	8.2
the physical properties and characteristics of building materials, components and systems, and the environmental impact of specification choices.	8.3
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.	GC9
principles associated with designing optimum visual, thermal and acoustic environments;	9.1
systems for environmental comfort realised within relevant precepts of sustainable design;	9.2
strategies for building services, and ability to integrate these in a design project.	9.3
Adequate knowledge of the industries, organisations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning.	GC11
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;	11.1
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;	11.2
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.	11.3
RIBA THEMES AND VALUES	T&V
Health and Life Safety: Demonstrating authoritative knowledge of statutory frameworks to safeguard the community and the end user.	E1
Ethical and Professional Practice: Ethical and Professional Practice: acquiring professional and communication skills to ensure projects are delivered with integrity and accountability within global, national, and professional climate targets	E2
Structures, Construction, and Resources: demonstrating climate literacy, responsible specification, and ethical sourcing to enhance wellbeing, minimise embodied carbon, waste, and pollution, and reduce demands on energy and water.	E3
Design pedagogies and architectural expression: critically evaluating authentic aesthetic, compositional, and spatial principles to synthesise socially, ecologically, and environmentally sustainable integrated studio projects.	E5
GRADUATE ATTRIBUTES AT PART 2 LEVEL	GA
ability to generate complex design proposals showing understanding of current architectural issues, originality in the application of subject knowledge and, where appropriate, to test hypotheses and speculations	1
ability to evaluate and apply a comprehensive a range of visual, aural and written media to test, analyse, critically appraise and explain design proposals	2
Ability to evaluate materials, processes and techniques that apply to complex architectural designs and building construction, and to integrate these into practicable design proposals	3

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	4
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	5
problem solving skills, professional judgement, and ability to take the initiative and make appropriate decisions in complex and unpredictable circumstances	6
ability to identify individual learning needs and understand the personal responsibility required to prepare for qualification as an architect	7

AIM(S)

This is the fourth of the four linked modules of the Design Thesis that, taken together, demonstrate the student's ability to generate complex architectural designs that satisfy aesthetic and technical requirements. It is delivered in semester two, in parallel with the module Design Thesis C.

- To allow the student to explain the rationale for all elements of his/her thesis design including, but not limited to: assessment of alternative strategies, understanding of the constraints of cost, planning policies, regulatory requirements and life safety and knowledge of structural principles, appropriate construction methods and materials and the principles of sustainable design.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- set out a clear rationale for her/his thesis design;
- explain how the proposal demonstrates a critical awareness of climate change – and seeks to mitigate and adapt to climate change;
- demonstrate a conceptual understanding of how design relates to the theoretical context of architectural design and the fine arts.

INDICATIVE CONTENT

- The preparation of a detailed report explaining the reasoning behind the design. In particular, the response to Building Safety and response to the climate emergency.
- Interim and final presentations of progress and conclusions.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Illustrated Design Report	3,000 words – plus drawings, diagrams and photographs	100%

Assessment Summary

Activity type	Percentage
Written exam	
Coursework	100%
Practical	
TOTAL	100%

INDICATIVE READING LIST

Module Code	ACAA7005	
Module Title	Design Thesis D: Statement of Design Intent and Resolution	
Classification	Reading List entry	Electronic*
Essential	RIBA Plan of Work 2020	☒
Essential	RIBA Sustainable Outcomes Guide 2019	☒
Essential	Hetreed, J., Ross, A. and Baden-Powell, C. (2017) <i>The Architect's Pocket Book</i> : 5 th ed. Abingdon: Routledge	☒
Essential	Unwin, S. (2020) <i>Analysing Architecture</i> : 5 th ed. London: Routledge	☒
Essential	McMullan, R. (2017) <i>Environmental Science in Building</i> : 8 th ed. London: Palgrave Macmillan	☐
Further	Goldsmith, S. (2000) <i>Universal Design</i> , Oxford: Architectural Press	☒
Further	Brown, G. Z. and DeKay, M. (2014) <i>Sun, Wind and Light: Architectural Design Strategies</i> Hoboken NJ: Wiley	☒
Further	Alread, J. and Thomas, L. (2007) <i>Design-Tech: Building Science for Architects</i> Oxford: Architectural Press	☒
Further	Edwards, B. (2014) <i>Rough Guide to Sustainability</i> : 4 th ed. London: RIBA Publishing	☒
Further	Buxton, P. (ed) (2021) <i>Metric Handbook: Planning & Design Data</i> : 7 th ed. Milton Park: Routledge	☐
Further	Further reading will be recommended at the start of the module depending on the location and nature of the design project Journals <i>Architects Journal</i> <i>Building Design</i> <i>Architecture Today</i> Websites www.architecture.com www.architectsjournal.co.uk www.bdonline.co.uk www.greatbuildings.com http://www.ajbuildingslibrary.co.uk	☒

Module Code	ACAA7006
Title	Research Methods for Architects
Date	17/03/2023
Level	7
Credits	20
Pre-Requisites	None

ARB/RIBA criteria addressed in this module	
GRADUATE ATTRIBUTES AT PART 2 LEVEL	GA
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	4
,ability to identify individual learning needs and understand the personal responsibility required to prepare for qualification as an architect	7

AIM(S)

- To offer every student the opportunity to investigate in depth a personal interest related to architecture. This is a subject that they wish to research in preparation for the final year research paper module ACAA7008 Understanding Architecture via Research.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- define and justify a subject for study, identifying sources of information relevant to the study: for example: a literature review; auditing a module offered as part of another UWTSD programme, a building, or group of buildings to be studied in detail;
- agree the form of presentation or documentation to be produced for assessment;
- carry out independent investigation in consultation with a member of the programme team;
- present findings to peers and programme staff in an agreed format.

INDICATIVE CONTENT

- To be determined by the student in consultation with the Programme Team.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Individually Determined	3,000 words or equivalent	50%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	15 minutes	50%

Assessment Summary

Activity type	Percentage
Written exam	
Coursework	50%
Practical	50%
TOTAL	100%

This module is designed to meet in part the requirements of the ARB and RIBA (see above).

INDICATIVE READING LIST

A reading list tailored to the nature of the study will be created by the student in consultation with relevant advisers and confirmed by the module leader

Module Code	ACAA7006	
Module Title	Research Methods for Architects	
Classification	Reading List entry	Electronic*
Essential	Creswell, J. W. (2018) <i>Research Design: Qualitative and Mixed Methods Approaches</i> : 5 th ed. California: Sage	☒
Essential	Fellows, R. (2008) <i>Research Methods for Construction</i> Chichester: Wiley-Blackwell	☒
Essential	Groat, L. and Wang, D. (2013) <i>Architectural Research Methods</i> : 2 nd ed Hoboken NJ: Wiley	☒
Essential	Knight, A. (2008) <i>Advanced Research Methods in the Built Environment</i> Hoboken NJ: Wiley	☒
Further	Further reading to be determined following selection of area of study Journals <i>Architects Journal</i> <i>Building Design</i> <i>Architecture Today</i> Websites www.architecture.com www.architectsjournal.co.uk www.bdonline.co.uk www.greatbuildings.com http://www.ajbuildingslibrary.co.uk	☒

Module Code	ACAA7007
Title	Professional Studies
Date	17/03/2023
Level	7
Credits	20
Pre-Requisites	None

ARB/RIBA criteria addressed in this module	
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.	GC6
the nature of professionalism and the duties and responsibilities of architects to clients, building users, constructors, co-professionals and the wider society;	6.1
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;	6.2
the potential impact of building projects on existing and proposed communities.	6.3
Understanding of the methods of investigation and preparation of the brief for a design project.	GC7
the need to critically review precedents relevant to the function, organisation and technological strategy of design proposals;	7.1
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;	7.2
the contributions of architects and co-professionals to the formulation of the brief, and the methods of investigation used in its preparation.	7.3
The necessary design skills to meet building users' requirements within the constraints imposed by cost factors and building regulations.	GC10
prepare designs that will meet building users' requirements and comply with UK legislation, appropriate performance standards and health and safety requirements.	10.3
Adequate knowledge of the industries, organisations, regulations and procedures involved in translating design concepts into buildings and integrating plans into overall planning.	GC11
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;	11.1
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;	11.2
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.	11.3
RIBA THEMES AND VALUES	T&V
Health and Life Safety: Demonstrating authoritative knowledge of statutory frameworks to safeguard the community and the end user.	E1
Ethical and Professional Practice: Ethical and Professional Practice: acquiring professional and communication skills to ensure projects are delivered with integrity and accountability within global, national, and professional climate targets	E2
Business Skills: developing capability in business skills relevant to working in practice and practice management	E6
GRADUATE ATTRIBUTES AT PART 2 LEVEL	GA
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	5

problem solving skills, professional judgement, and ability to take the initiative and make appropriate decisions in complex and unpredictable circumstances	6
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AIM(S)

- To provide students who are about to embark on the final stage of architectural training (a minimum of two years of monitored professional experience) with a broad working knowledge of the role of architects in the development process and the current conditions of professional practice.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- demonstrate a clear understanding of professional ethics and the architect's responsibility to clients, users, co-professionals and society locally and globally;
- demonstrate a practical understanding and good working knowledge the role of the architect in the design team and development process;
- demonstrate a systematic understanding of the key legislation, regulations, policies and guidance relating to the built environment on climate change and the ecological crisis (GC10). Demonstrate a good working knowledge of the varied nature of existing and emerging architectural practice and the basic processes of project management and business administration;
- demonstrate a practical understanding of the responsibility of the architect in the identification and management of life safety risks and the relevant legislation and guidance.

INDICATIVE CONTENT

Lectures and seminars on the current and emerging architectural practice under the following broad headings

- Professionalism.
- Clients, users and delivery of services.
- Legal framework and processes.
- Practice and management.
- Building procurement.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☒ Written exam ☐ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Examination	2 hours	50%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	15 minutes	50%

Assessment Summary

Activity type	Percentage
Written exam	50%
Coursework	
Practical	50%
TOTAL	100%

This module is designed to meet in part the requirements of the ARB and RIBA (see above).

INDICATIVE READING LIST

Module Code	ACAA7007	
Module Title	Professional Studies	
Classification	Reading List entry	Electronic*
Essential	Jones, A. and Hyde, R. (2019) <i>Defining Contemporary Professionalism for Architects in Practice and Education</i> London: RIBA Publishing	☐
Essential	Stellakis, M. and Lupton, S. (2019) <i>Which Contract? Choosing the Appropriate Building Contract: 6th ed.</i> London: RIBA Publishing	☐
Essential	Lupton, S. (2001) <i>Architect's Handbook of Practice Management</i> London: RIBA Publishing	☐
Essential	RIBA Code of Professional Conduct (2019) London: RIBA Publishing	☐

Further	Emmitt, S., Prins, M. and Otter, A. (eds) (2009) <i>Architectural Management: International Research and Practice</i> Wiley Blackwell	☐
Further	BOWDEN, J. (2011) <i>Writing a Report: How to Prepare, Write and Present Really Effective Reports</i> Oxford: How To Books	☐
Further	MORTON, R. (2008) <i>Construction UK: An Introduction to the Industry</i> Oxford: Blackwell	☒
Further	BROOKHOUSE, S. (2013) <i>Professional Studies in Architecture: a Primer</i> London: RIBA Publishing	☒
	FOXELL, S. et al (2006) <i>Good Practice Guide: Starting a Practice</i> London: RIBA Publishing	☐
Further	Journals <i>Architects Journal</i> <i>Building Design</i> <i>Architecture Today</i> Websites www.architecture.com www.architectsjournal.co.uk www.bdonline.co.uk www.greatbuildings.com http://www.ajbuildingslibrary.co.uk	☒

Module Code	ACAA7008
Title	Understanding Architecture via Research
Date	17/03/2023
Level	7
Credits	20
Pre-Requisites	None

ARB/RIBA criteria addressed in this module	
RIBA THEMES AND VALUES	T&V
Ethical and Professional Practice: Ethical and Professional Practice: acquiring professional and communication skills to ensure projects are delivered with integrity and accountability within global, national, and professional climate targets	E2
History Theory and Methodologies: critically analysing and researching narratives and cultural, environmental, and social values in architecture to understand and extend architectural pedagogy	E4
GRADUATE ATTRIBUTES AT PART 2 LEVEL	GA
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	4

AIM(S)

- To develop students' research, analytical and written communication skills by carrying out an investigation into a subject or issue directly connected to architectural history, theory, practice, culture or technology. This module develops and consolidates the research work undertaken in module ACAA7006 Research Methods for Architects.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- define and justify a research question or hypothesis;
- undertake a substantial research investigation directly related to an aspect of architecture with a clearly articulated methodology;
- explain the nature of evidence and the methods of testing the reliability of information from a variety of sources;
- produce a well-articulated and logical argument supported by evidence and resulting in clear conclusions.

INDICATIVE CONTENT

- Generation of research question.
- Research based on primary and secondary sources.
- Writing final document including abstract, main text, references and bibliography.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning		
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Research Paper	5,000 words	100%

Assessment Summary

Activity type	Percentage
Written exam	
Coursework	100%
Practical	
TOTAL	100%

This module is designed to meet in part the requirements of the ARB and RIBA (see above).

INDICATIVE READING LIST

Module Code	ACAA7008	
Module Title	Understanding Architecture via Research	
Classification	Reading List entry	Electronic*
Essential	Creswell, J. W. (2018) <i>Research Design: Qualitative and Mixed Methods Approaches</i> : 5 th ed. California: Sage Publications	☒
Essential	Fellows, R. (2008) <i>Research Methods for Construction</i> Chichester: Wiley-Blackwell	☒
Essential	Groat, L. and Wang, D. (2013) <i>Architectural Research Methods</i> : 2 nd ed Hoboken NJ: Wiley	☒
Essential	Knight, A. (2008) <i>Advanced Research Methods in the Built Environment</i> Hoboken, NJ: Wiley	☒
Essential	Lucas, R. (2016) <i>Research Methods for Architecture</i> London: Lawrence King Publishing	☒
Further	Colquhoun, A. (1995) <i>Essays in Architectural Criticism</i> Cambridge, MA: MIT Press	☒
Further	Moneo, R. (2004) <i>Theoretical Anxiety and Design Strategies</i> Cambridge, MA: MIT Press	☒
Further	Ballantyne, A. (2002) <i>What is Architecture?</i> London: Routledge	☒

Further	Rossi, A. (1982) <i>The Architecture of the City</i> Cambridge, MA: MIT Press	☒
Further	Rowe, C. and Koetter, F. (1978) <i>Collage City</i> Cambridge, MA: MIT Press	☐
Further	Journals <i>Architects Journal</i> <i>Building Design</i> <i>Architecture Today</i> Websites www.architecture.com www.architectsjournal.co.uk www.bdonline.co.uk www.greatbuildings.com http://www.ajbuildingslibrary.co.uk	☒

Module Code	ACBA7000
Title	Building Maintenance and Asset Management
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM(S)

- To develop an understanding of the importance of adopting a pro-active approach to effective asset management principles, procedures and practices.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Develop and critically assess an asset management strategy for a portfolio of premises, applying appropriate procedures for building maintenance.
- Evaluate and apply construction and building pathology principles for the identification and analysis of construction defects.

INDICATIVE CONTENT

- Understanding Building Design
- Building pathology and the diagnosis of building defects
- Condition Surveys and Appropriate Repair Methodologies
- The Building Manual
- Maintenance Strategies. Maintenance Planning and Management
- Budgeting for Maintenance
- Application of Quality, Value and Risk Management within the context of Building Maintenance and Facilities Management
- The Development of Facilities Management, Charting Trends within Organisations and Exploring the Potential of these Methods to Contribute to Core Business Efficiency
- Principles of Performance Measurement. Benchmarking, Processes and Facilities Audits
- Building and Managing Multi-disciplinary Teams including the role of specialist contractors and consultants
- Application of BIM

- Preventive Maintenance
- Lean Maintenance for Buildings

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Essay	4,000 words	70%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	12 minutes	30%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	70%
Practical	30%
TOTAL	100%

READING LIST

Module Code	ACBA7000	
Module Title	Building Maintenance and Asset Management	
Classification	Reading List entry	Electronic*
Essential	Chanter, B., Swallow, P. (2017) Building Maintenance Management 2 nd Ed. Wiley-Blackwell	☐
Essential	Wood, B.J.B. (2009) Building Maintenance. Wiley-Blackwell.	X
Further	Bell, R., Harris, J. (2012) Asset Management and Maintenance Audits. BSRIA.	☐
Further	British Standards Institution (2011) Procurement of Facility-Related Services – BS 8572:2011	☐

Module Code	ACBA7001
Title	Building Services and Energy Performance in Buildings
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM(S)

- To develop the student's knowledge and understanding of building services design, supply and maintenance strategy, defining the key principles of efficient energy procurement options, their sustainable use and asset management.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Understand the issues involved in managing building services and critically analyse building engineering services maintenance strategies.
- Critically evaluate sustainable energy procurement and its management.

INDICATIVE CONTENT

- Building Comfort and Productivity
- Building Services design and provision
- Energy Management, Policy, Audit, Procurement routes, Efficiency of choice, Monitoring and Control, Metering, Benchmarking, Building Logs.
- The potentials for renewable energy sources incorporation.
- Measuring post occupancy performance
- Energy performance certificates

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Essay	4,000 words,	70%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	12 minutes	30%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	70%
Practical	30%
TOTAL	100%

READING LIST

Module Code	ACBA7001	
Module Title	Building Services and Energy Performance in Buildings	
Classification	Reading List entry	Electronic*
Essential	<i>Managing your Building Services – KS02</i> (CIBSE Knowledge Series, 2012)	☐
Essential	Hall, F. & Greeno, R. (2017) – <i>Building Services Handbook</i> . Routledge	☐
Essential	Obrart, A. & Parlour, R. (2017) – <i>Building Services: Engineering for Architects and Professionals</i> . Integral	☐
Further	Chadderton, D.V. (2004) - <i>Building Services Engineering</i> . Spon	☐
Further	CIBSE (2016) – <i>Energy Efficiency in Buildings (Guide F)</i>	☐
Further	CIBSE (2016) – <i>Log Book Toolkit TM31</i>	☐
Further	Thomas, R. (2006) – <i>Environmental Design</i> . Taylor Francis	☐
Journals	Building Services Journal (CIBSE)	☐
Journals	FM World (BIFM)	☐

Module Code	ACBA7002
Title	Construction Technology and Building Information Management
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM(S)

- To generate knowledge and understanding of the design, construction and evolution of our traditional and future building stock by providing a vehicle for 'Learning from the past' to aid the buildings and facilities that will shape tomorrow.
- To critically review the impact that BIM, laser scanning, robotics, drones and virtual digital technologies will have in helping shape and enhance the performance of buildings and facilities in the future.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Evaluate how past and present technologies can inform decisions for future design, construction, use and new uses.
- Critically analyse and appraise existing developments and settlements making recommendations that can enhance sustainability and performance.

INDICATIVE CONTENT

- Awareness and understanding of the context of traditional sites and settlements, and how their development interacted with and made use of natural resources and environments in order to aid habitation and how this is nowadays challenged.
- Evolution of building forms and techniques throughout the centuries. Analysis of form, function and materials from ancient civilisations to the present day,. Can we learn from the past to inform tomorrow?
- Building typologies and challenges.
- Conservation Philosophies, Principles; International Charters; Sustainability, Significance and conservation management planning for new uses.
- Biometrics, Robotics, digital imaging, Intelligence, 'The Internet of Things'
- BIM as a strategic design, management and evaluation tool throughout an asset's life-cycle.
- Obsolescence, climate change and impacts on built assets
- Natural building technologies. Breathability concepts. Low carbon, low cost, low energy, technologies

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Essay	4,000 words,	70%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	12 minutes	30%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	70%
Practical	30%
TOTAL	100%

READING LIST

Module Code	ACBA7002	
Module Title	Construction Technology and Building Information Management	
Classification	Reading List entry	Electronic*
Essential	Wu, P., and Wang X. (2019) Innovative Production And Construction: Transforming Construction Through Emerging Technologies.	☐
Essential	Sacks, R. Eastman E., et al. (2018) BIM Handbook: A Guide to Building Information Modeling for Owners, Designers, Engineers, Contractors, and Facility Managers. Wiley.	☐
Essential	Watts, A. (2016). Modern Construction: Case Studies Paperback – 31 Oct 2016	☐
Further	<i>Journal of Building Pathology and Refurbishment</i> http://www.emeraldgrouppublishing.com/products/journals/journals.htm?id=ss#	☐
Further	Groak, S. (1992). <i>The Idea of Building: Thought and Action in the Design and Production of Buildings</i> . E & FN SPON	☐

Further	Bryan, T., (2010) <i>Construction Technology: Analysis and Choice</i>	☐
Further	Brand, S. (1994) <i>How Buildings Learn</i> . Viking Press. ISBN 978-0-670-83515-7	☐
Further	Building Conservation Directory: Accessed at: http://buildingconservation.com . This long-established portal contains numerous papers written by experts that address the underlying case material.	☒
Further	Brand, S. (1998) - How Buildings Learn A book and six-part BBC 2 documentary video series which is intended for public domain use and today openly accessible via the internet on 'You Tube'.	☒

Module Code	ACBA7003
Title	Energy and Resource Management
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM(S)

- To provide students with the knowledge and understanding of energy and resource management issues, including the decarbonisation agenda and resource management concerns using current issues as case studies, to appropriately consider strategies for use

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Understand and evaluate current energy and resource management practices, including provision of energy, transmission, key resource management concerns and use of such resources. This will include assessment of Government and wider strategies in relation to decarbonisation and resource protection.
- Appraise methods of provision of energy within a wide range of operations, using practical examples and research-led innovations to formulate innovative solutions, as well as considering key resource management issues of the day

INDICATIVE CONTENT

- The current world energy management issue, including key sources and associated problems, available resources and reserves, use patterns, methods of generation and transmission, etc.
- Stresses and strains related to energy management issues, including focus on issues-of-the-day, background to issues, responses, drivers and barriers, etc.
- Resource issues including availability, reserves and resources, legacy issues and current topical concerns.
- Legislative and policy context, including measures implemented to date regarding significant issues of the time (especially decarbonisation and resource efficiency), wider policy context, emerging policies and their potential to effect change.
- Implementation of solutions to date in relation to significant challenges, including approaches, timeframes, monitoring and success rates
- Consideration of research into new and innovative solutions to significant issues, including the current state-of-the-art of such research and development, level of market readiness, assessment of innovation of approach, etc.
- Energy management in organisations: ISO50001. Application to building operation (energy savings, systems, passive design, etc.).

- Resource management. Impact of life cycle of products.
- Waste management and circular economy.
- The above will be delivered using a mixed approach, including standard lectures, tutorial sessions utilising a flipped learning approach and practical demonstrations via visits.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Written formal report	4,250	75%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	10 minutes	25%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	75%
Practical	25%
TOTAL	100%

READING LIST

Module Code	ACBA7003	
Module Title	Energy & Resource Management	
Classification	Reading List entry	Electronic*
Essential	Boyle G (2012) <i>Renewable Energy: Power for a Sustainable Future</i> . 3 rd ed. Oxford: Oxford University Press	☐
Essential	Beggs C (2009) <i>Energy: Management, Supply and Conservation</i> . 2 nd ed. Abingdon, Oxon: Routledge	☐

Essential	Anderson D (2014) <i>Environmental economics and natural resource management</i> . Fourth ed. London: Routledge, Taylor & Francis Group	☐
Essential	Mitchell B (2019) <i>Resource & Environmental Management</i> . 3 rd ed. New York: Oxford University Press	☐
Further	BP (2018) <i>Statistical Review of World Energy</i> . Available online and annually updated	☒
Further	Energy Efficiency journal	☒
Further	Energy & Buildings journal	☒
Further	Energy Conversion and Management journal	☒
Further	Environment and Society: Advances in Research journal	☒
Further	Energy Policy journal	☒
Further	Sustainable Energy Technologies journal	☒
Further	Braathan NA and Serret Y (2007) <i>Instrument mixes for Environmental Policy</i> . Paris: OECD Publishing.	☒
Further	Energy & Environment journal	☒
Further	Energy Conversion and Management journal	☒
Further	Environment and Society: Advances in Research journal	☒
Further	Journal of Environmental Management	☒
Further	Sustainable Energy Technologies journal	☒

Module Code	ACBA7004
Title	Environmental Planning and Policy
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM(S)

- To provide an understanding of policy formulation, structure and implementation and to examine specific aspects of planning systems, including Environmental Assessment and its effect on the economy, society and the environment

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Demonstrate an in depth understanding of the environmental implications of developing strategic policies and plans and the ramifications of such policies on the environment and associated economy.
- Critically assess policy formulation, implementation and impact based on contextual analysis.

INDICATIVE CONTENT

- An introduction to National, European and global policies.
- Application of specific strategic policies such as Shoreline Management, landscape designations, stakeholder partnerships, and inputs from Government and NGO's.
- Analysis of the Strategic Environmental Assessment and Environmental Impact Assessment, including Mitigation and Compensation.
- The relationship between the environment and policy formulation.
- Environmental policy formulation, implementation and monitoring.
- Environmental Impact Assessment formulation, including auditing.
- Methods of assessing environmental impacts.
- Evaluation of policies and their effects on society, the economy and the environment.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Report	4,000 words	70%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	12 mins	30%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	70%
Practical	30%
TOTAL	100%

READING LIST

Module Code	ACBA7004	
Module Title	Environmental Planning and Policy	
Classification	Reading List entry	Electronic*
Essential	Morrison-Saunders, A. (2018) Advanced introduction to EIA. Edward Edgar	☒
Essential	Kraft, M.E. (2018) environmental policy and politics. Taylor & Francis	☒
Essential	Vig, N.J. & Kraft, M.E. (2017) Environmental policy: New directions for the 21 st century. CQ Press	☒
Further	Fortlage, C.A. (2017) Environmental Assessment: A practical guide. Routledge	☒
Further	Mareddy, A.R. (2017) Environmental Impact Assessment: Theory and Practice. Elsevier/BH	☒
Further	MacKinnon, A.J. (2018) the application of science in EIA. Routledge	☒
Further	Dibie, R.A. (2014) Comparative perspectives on environmental policies and issues. Routledge, London.	☐
Further	Tromans, S. (2012) Environmental Impact Assessment	☐

	Bloomsbury: West Sussex	
Further	Journal of Environmental Assessment	☒
Further	Journal of Environmental Management	☒

Module Code	ACBA7005
Title	GIS and Habitat Management
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM(S)

- To critically examine habitat management and apply GIS as a spatial planning tool

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Evaluate habitat management in practice and assess conflict analysis of stakeholder groups.
- Evaluate and critically appraise the use of GIS software as an aid to the management of stakeholder interests, constructing a management plan using appropriate techniques and software.

INDICATIVE CONTENT

- Monitoring habitats through ecological surveys – Phase I
- Practicalities of managing resources (both finances and people)
- Underpinning legislation linked to biodiversity and public access (health & safety, risk assessment)
- Spatial planning and conflict analysis of terrestrial and coastal/marine habitats
- Management Plan construction
- Investigating secondary data acquisition e.g. maps, digitising, scanning and appropriate attribute data management of spatial data sets.
- Investigate the use of remotely sensed data acquisition techniques for a given environmental model (e.g. LIDAR, GPS).
- Implementation of environmental models using appropriate GIS software solutions.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Report and mapping	6,000 words	100%

Students will produce a management plan based on an appropriate habitat (terrestrial or coastal). This will likely involve analysis of a previous management plan for that site for critical evaluation, a habitat audit using scientifically underpinned methodologies, spatial planning of species/key habitats using GIS as a mapping tool and subsequently the production of a site report and accompanying display of data via software.

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	100%
Practical	0%
TOTAL	100%

READING LIST

Module Code	ACBA7005	
Module Title	GIS and Habitat Management	
Classification	Reading List entry	Electronic*
Essential	Longley, P.A., Goodchild, M.F., Maguire, D.J., and Rhind, D.W. (2015) <i>Geographic Information Science and Systems</i> . 4 th Ed. John Wiley & Sons, USA.	☐
Essential	Heywood, I., Cornelius, S. and Carver, S. (2011) <i>An Introduction to Geographical Information Systems</i> , 4 th Ed. Prentice Hall, Harlow.	☐
Essential	Alexander, M. (2013) <i>Management Planning for Nature Conservation: A Theoretical Basis & Practical Guide</i> , 2nd Edition, Springer. 536pp	☐
Further	Ausden, M. (2016). <i>Habitat Management for Conservation: A Handbook of Techniques (Techniques in Ecology & Conservation)</i> Oxford University Press, 430pp	☒
Further	Students are expected to access current research through academic journals such as: British Wildlife Journal Environmental Conservation Journal	☒

Module Code	ACBA7006
Title	Management of the Integrated Working Environment
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	

AIM(S)

- To develop knowledge and understanding of the resource issues involved in managing buildings and their support services in a responsive and cost-effective way, at a time of great change in how facilities are conceived and operated.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Evaluate current resource management methods for a wide range of resources in building operations, including energy provision, and establish risk management strategies which affect property management.
- Critically evaluate support services for example contracting, procurement processes, health and safety.

INDICATIVE CONTENT

- Managing Support Services and flexible organisations.
- Working environments (formal and informal).
- Impact that modern working/co-working practices will have on organisations, output measures and brand loyalty.
- Space Management and Planning processes and techniques, linking with BIM, CAFM and augmented realities.
- Customer relationships and service provision.
- Innovative workplace design
- The importance of applying sustainable practices across the organisation and throughout the supply chain.
- Environmental analysis and legislation (Waste and Carbon and Energy resource management).
- Risk assessment and risk management. Types of risks affecting property.
- Health and safety. Health and Safety at Work Act, CDM Regulations, COSHH, fire prevention, accessibility, waste management, etc.

- Analysis of processes. Business process management. Process maps and procedures. Improvement of process efficiency.
- Resource management. Asset life cycle. Maintenance and repair. End of life.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Report	4000 words,	70%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation/Poster	12 minutes	30%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	70%
Practical	30%
TOTAL	100%

READING LIST

Module Code	ACBA7006	
Module Title	Management of the Integrated Working Environment	
Classification	Reading List entry	Electronic*
Essential	Castellano, W.G. (2017). Practices for Engaging the 21st Century Workforce: Challenges of Talent Management in a Changing Workplace	☒
Essential	Maitland, A.; Thomson, P. (2014). Future Work (Expanded and Updated): Changing organizational culture for the new world of work.	☐
Essential	Mitchell B (2019) <i>Resource & Environmental Management</i> . 3 rd ed. New York: Oxford University Press	☒
Essential	Meyer, P. (2010). From Workplace to Playspace: Innovating, Learning and Changing through a Dynamic Engagement. Wiley imprint.	☒
Further	Binggeli, C. (2003). <i>Building Systems for Interior Designers</i> , Wiley. .	☐
Further	Clements-Croome, D. (Ed). (2005). <i>Creating the Productive Workplace</i> (Spon).	☐
Further	Booty, F. (Ed). <i>Facilities Management Handbook</i> Butterworth.	☐
Further	Brand, S. (1994) <i>How Buildings Learn</i> . Viking Press. ISBN 978-0-670-83515-7	☐
Further	Energy & Environment journal	☒
Further	Energy Conversion and Management journal	☒
Further	Brand, S. (1998) - How Buildings Learn A book and six-part BBC 2 documentary video series which is intended for public domain use and today openly accessible via the internet on You Tube.	☒

Module Code	ACBA7007
Title	Strategic Management for Conservation
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM(S)

- To provide a forum in which knowledge acquired can be developed and integrated into strategic management within the field of environmental conservation, both temporally and spatially from national and international perspectives, whilst evaluating and critically assessing the need for a sustainable economy, that preserves and enhances the environment.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Demonstrate an in depth understanding of the environmental implications of developing strategic management.
- Consider the ramifications of climate change within the natural and business environment, and the strategies for minimising anthropogenic impacts.

INDICATIVE CONTENT

- An introduction to strategic management,
- The importance of strategic management and environmental policy in different contexts specifically, commercial, industrial and, conservation.
- Application of specific strategic goals through the utilisation of management techniques, which include investigation into Environmental Management Systems, and their accreditation.
- Analysis of the business environment using PESTEL and SWOT frameworks including environmental assessment.
- The relationship between the environment, business culture, entrepreneurship and consumer attitudes which include Reverse logistics, 'green' marketing, packaging and eco-labelling.
- Strategic position and choice. Environmental policy formulation and implementation for business.
- Environmental management systems and strategies and their relevance to reducing human impacts on the natural environment, utilising specific examples from a circular economy approach.
- Environmental Management Systems, their design and implementation e.g. ICM.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Report	4000 words	70%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	12 mins	30%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	70%
Practical	30%
TOTAL	100%

READING LIST

Module Code	ACBA7007	
Module Title	Strategic Management for Conservation	
Classification	Reading List entry	Electronic*
Essential	Bears, R.C. (2018) Natural resource management and the circular economy. Springer	☒
Essential	Hyde, P. & Reeve, P. (2015) Essentials of environmental management. Routledge	☒
Essential	O'Riordan (2014) Environmental science for environmental management. Routledge	☒
Essential	Tonelli, M. & Cristoni, N. (2018) Strategic management and the circular economy. Routledge	☒
Further	Akkucuk, U. (2018) The circular economy and its implications on sustainability and the green supply chain. IGI global.	☐
Further	Christopher, J. (2004) Environmental Management and Development, Taylor & Francis Ltd.	☐

Further	David, F. (2007) Strategic Management: Concepts and Cases, Prentice-Hall	☐
Further	Dyer, J. (2018) Strategic Management: concepts and Cases. Wiley	☒
Further	Journal of Environmental Assessment Policy and Management	☐
Further	Journal of Coastal Management	
Further	Journal of Environmental Management	☐
Further	Journal of Sustainable Development	
Further	Lovett, J.C. & Ockwell, D.G (2007) A handbook of environmental management Elgar: Cheltenham	☐
Further	Schaltegger, S. (2018) An introduction to corporate environmental management: Striving for sustainability. Routledge	☐
Further	Strategic Management Journal	☐

Module Code	ACBA7008
Title	Strategic Property, Finance and Procurement
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM

To develop and broaden the student's knowledge and understanding of strategic property management, procurement strategies and contractual management issues in order that they can make a significant contribution to business and property strategy.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Critically evaluate the performance of property, within the context of both operational estates use and within investment; analyse and apply methods by which facilities managers can realise the true potential of property portfolios through proactive management
- Critically evaluate procurement systems and methods; develop strategies for the optimum legal and financial procurement of facilities and supporting management contracts

INDICATIVE CONTENT

- Strategic Property Management principles, including an introduction to valuation and appraisal methodologies.
- Management of property within the context of multi-asset portfolios
- Landlord and tenant management issues within both a legal and business context
- Social and ethical responsibilities, occupiers liabilities and the legal and economic implications of insurance
- Procurement Procedures - the selection and appointment of consultants, suppliers and specialists and the resulting monitoring of their performance
- Contractual and Financial Management systems
- Financial management, investment appraisal and corporate tax allowances.

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Report	4,000 words,	70%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation/Poster	12 minutes	30%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	70%
Practical	30%
TOTAL	100%

READING LIST

Module Code	ACBA7008	
Module Title	Strategic Property, Finance and Procurement	
Classification	Reading List entry	Electronic*
Essential	Pitt, M. (2019) Facilities Management As A Strategic Business Tool, Elsevier.	☐
Essential	Lowry, D. (2017) The Complete Guide to Facility Management.	☐
Essential	Ee, S. (2015) Value-Based Facilities Management: How Facilities Practitioners Can Deliver Competitive Advantage to Organisations.	☒
Further	Barrett, B; Finch, E. (2013) Facilities Management: The Dynamics of Excellence.	☐
Further	Staiger, R. (2018). Foundations of Real Estate Financial Modelling.	☒
Further	ISURV Electronic Online Subscription (RICS, annual)	☒
Further	OGC Achieving Excellence in Construction Procurement (2007)	☒

Further	CIRIA Value by Competition: A Guide to the Competitive Procurement of Consultancy Services for Construction	☒
Further	RICS Practice Statements. Available at www. RICS and I.Surv.	☒

Module Code	ACBA7009
Title	Sustainable Development
Date	15/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM(S)

- To provide the student with the skills to assess Sustainable Development and its application in different scenarios, long-term benefits and costs to society.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Engage with the complexity of sustainable development and critically evaluate current key trends.
- Analyse how human actions can impact on society, economy and the environment and these influence sustainable development.

INDICATIVE CONTENT

- Sustainable development: concept, principles, background, main groups of interest, critique.
- Natural resources. Natural capital and ecological deficit. Ecological footprint and biocapacity. Economic growth and conflict.
- Present social theory behind the concept of Sustainable Development: Ecological Modernisation, Green capitalism, Green consumerism, Environmental Economics and the Green Paradigm.
- Political ecology. Relationships between political, economic and social factors with the environment.
- Sustainable Development Goals.
- Indicators for sustainable development.
- Well-being of Future Generations (Wales) Act
- Policies and strategies for sustainable development in different study areas, for example:
 - Energy
 - Transport
 - Environmental and social justice
 - Health and education
 - Poverty
 - Cities, urban planning and construction industry
 - Agriculture
 - Tourism

- Participation, local and central government
- Equality

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

(Tick one)

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Essay	4,000 words	70%

Assessment Component 2

(Tick one)

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	12 minutes	30%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	70%
Practical	30%
TOTAL	100%

READING LIST

Module Code	ACBA7009	
Module Title	Sustainable Development	
Classification	Reading List entry	Electronic*
Essential	Blewitt, J. (2012) <i>Understanding Sustainable Development</i> . Earthscan.	☐
Essential	Petrillo, A., Bellaviti, P. (2018) <i>Sustainable Urban Development and Globalization</i> . Springer.	☐
Essential	Meadows, H., Wright, D. (2008) <i>Thinking in Systems: A Primer</i> . Chelsea Green Publishing.	☐
Further	Kibert, C.J. et al (2011) <i>Working Towards Sustainability: Ethical Decision Making in a Technological World</i> . John Wiley & Sons.	☐

Further	Bjorn Lomborg (2018) <i>Prioritizing Development: A Cost Benefit Analysis of the United Nation's Sustainable Development Goals</i> . Cambridge University Press.	☐
Further	<i>Sustainable Development</i> . John Wiley & Sons. ISSN: 1099-1719	X
Further	<i>Journal of Sustainable Development</i> . Canadian Center of Science and Education. ISSN: 1913-9071	X
Further	Sustainable Development Goals. https://sustainabledevelopment.un.org	X
Further	Well-being of Future Generations (Wales) Act 2015. http://futuregenerations.wales/about-us/future-generations-act/	X

Module Code	ACFA7004
Title	Research Methods and Professional Development
Date	11/04/2019
Level	7
Credits	20
Pre-Requisites	None

AIM(S)

- The aim of this module is for students to develop a problem solving approach to research to facilitate their production of a valid and reliable postgraduate dissertation.

LEARNING OUTCOMES

Upon the successful completion of this module, the student should be able to:

- Generate a project proposal that meets a given domain research requirements.
- Identify and visualise a complex research problem within a specific research domain, outline the investigative approach and comprehensively consider appropriate methods and solutions.
- Critically appraise the research process and its outcomes.

INDICATIVE CONTENT

- Core lectures on the principles of postgraduate research :
 - Research principles and approaches (e.g. the research process, purpose, sources of data including primary/secondary research, quantitative/qualitative data, objective/hypothesis formation, reliability, validity)
 - Research methodologies - historical, descriptive, correlational, comparative, experimental
 - Field data - survey design, questionnaires, sampling, statistical techniques, interviews, case studies, observation
 - Developing a proposal - research statement, research outline and design research schedule
 - Project planning - project time scale control
 - Intellectual property - copyright, trademarks, patents
 - Social and cultural context, and ethical considerations
- Writing up and publishing
- Domain specific research methods:
 - Research for engineering
 - Project planning for computing
 - Advanced Quantitative research methods
 - Advanced Qualitative research methods

Study Time Allocation

The study time for the module is divided as follows:

Activity type	Hours	Percentage
Scheduled learning	48	24%
Independent learning	152	76%
Placement learning	0	0%
TOTAL	200	100%

ASSESSMENT

Assessment Component 1

☐ Written exam ☒ Coursework ☐ Practical

Mode of assessment	Volume	Weighting
Research Proposal	4,000 words	70%

Assessment Component 2

☐ Written exam ☐ Coursework ☒ Practical

Mode of assessment	Volume	Weighting
Presentation	10 mins (plus questions)	30%

Assessment Summary

Activity type	Percentage
Written exam	0%
Coursework	70%
Practical	30%
TOTAL	100%

INDICATIVE READING LIST

Module Code	ACFA7004	
Module Title	Research Methods and Professional Development	
Classification	Reading List entry	Electronic*
Essential	Cottrell, S. (2011) Critical Thinking Skills: Developing Effective Analysis and Argument - Palgrave Study Guides, 2 nd Edition, London: Palgrave Macmillan	☒
Essential	Cottrell, S. (2014) Dissertations and Project Reports: A Step by Step Guide, Palgrave Study Skills	☒
Essential	O'Leary, Z. (2013) Doing Your Research Project (2 nd Edition), SAGE Publications Ltd	☒
Further	Dawson, C. W. (2009) Projects in Computing and Information Systems: a Student's Guide, 2 nd Edition, Boston: Addison-Wesley	☒
Further	Dipankar, D. (2019) Engineering Research Methodology: A Practical Insight for Researchers. Springer	☐

Further	Fellows, R. and Liu, A. (2015) Research Methods for Construction, Oxford: Blackwell	
Further	Few, S. (2012) Show Me the Numbers, Burlingame: Analytics Press	☐
Further	Gregoire, T.G. & Valentine, H.T. (2008) Sampling strategies for natural resources and the environment. London : Chapman	☐
Further	Hart, C. (1998) Doing a Literature Review, Sage	☒
Further	Hewson, C., Vogel, C. & Laurent, D. (2015) Internet research methods. London: Sage	☐
Further	Kranzler, J. H. (2011) Statistics for the Terrified, 5 th Edition, Upper Saddle River: Prentice Hall	☐
Further	Leedy. P. D. and Ormrod, J. E. (2012) Practical Research Planning and Design, 10 th Edition, Boston: Pearson Education	☒
Further	Maylor, H. (2010) Project Management, Boston: Pearson Education	☐
Further	Oppenheim, A. (1992) Questionnaire Design, Interviewing and Attitude Measurement, London: Continuum	☒
Further	Spence, R. (2014) Information Visualization: an Introduction, Boston: Addison-Wesley	
Further	Thiel, D.V. (2014) Research Methods for Engineers. Cambridge UP	☒
Further	Wheater, C.P. & Cook, P.A. (2015) Using Statistics to Understand the Environment, Routledge	☒