

Module Code	Module Title	Course Title	NTU Credits	Assessment	Type (Compulsory/Optional)	Year of Study (Full/Part)	ECTS allocated	Module content	Teaching Methods	Recommended / Required Reading	Mode of Delivery	Language of Instruction	Pre and Co Requisites	Module/Contact Leader	Module Leader contact
DES22073	Interdisciplinary Design Studies	BArch (H) Architecture	20	100% coursework	Compulsory	Full year	10	A practice-based exploration of: 1. A range of creative disciplines beyond building construction. 2. Architectural understanding of the arts and disciplines beyond architecture. 3. Design practice within a variety of cultural contexts. 4. Teamwork, collaboration and communication.	Lectures, seminars related to group and individual design tasks and projects as appropriate.	CARMOVA, M., 2003. Public places – urban spaces – the dimensions of urban design. Oxford: Architectural Press. HALL, G., 2002. Cities of tomorrow: an intellectual history of urban planning and design in the 20th century. Oxford: Blackwell. KING, A.D., 1985. Responsive environments: a manual for designers. London: Architectural Press. KOSTOF, S., 1992. The city assembled: the elements of urban form through history. London: Thames and Hudson. KOSTOF, S., 1995. The city shaped: urban patterns and meanings through history. London: Thames and Hudson. LYNCH, K., 1960. The image of the city. Cambridge, Mass./London: M.I.T. Press. WITTE, W.J., 1980. The social life of small urban spaces. New York: Project for Public Spaces.	Face to Face	English	None	Lois Woods	lois.woods@ntu.ac.uk
DES22075	Integrated Design Studio	BArch (H) Architecture	60	100% projects	Compulsory	Full year	30	Through studio-based project work, the development of a creative and integrated approach toward architectural design through: 1. applying knowledge of materials, principles of structure, architecture and urban design principles, environmental and sustainable design and construction. 2. responding creatively to socio-cultural, ethical, spatial and urban situations. 3. conceptualising sites, realising them through the ordering of space and proposals for built form, and understanding the consequences of design decisions. 4. engaging in effective and critical dialogue in respect of design and ideas using appropriate construction techniques and language. 5. presenting architectural designs through visual, verbal, written and electronic techniques.	Design project work seeks to develop a studio culture through studio sessions and tutorials supported by lectures. Module delivery may also include seminars, workshops, study-tours and site visits and other suitable modes of delivery.	GREED, C., and ROBERTS, M., 1998. Introducing urban design: interventions and responses. Harlow: Longman. HALL, E.T., 1980. The hidden dimension. New York: Anchor. HOLL, S., 2006. Questions of perception: phenomenology of architecture. Tokyo/San Francisco: Wilbur Smith. LEFAVRE, L., 2003. Critical regionalism: architecture and identity in a globalized world. Munich/London: Prestel. PALKAJAMA, J., 2009. The thinking hand. Hoboken, NJ: John Wiley. ROGERS, R.G., 1997. Cities for a small planet. London: Faber and Faber.	Face to Face	English	DES22076 Architecture in Context 2	Tom Hughes	Tom.Hughes@ntu.ac.uk; +44 115 84 82946
DES22076	Architecture in Context 2	BArch (H) Architecture	20	100% projects	Compulsory	Full year	10	An introductory exploration of: 1. Contemporary and emerging debates in architecture, art and urban design – globally and locally. 2. Issues of cultural diversity and their influences on the built environment. 3. Critical responses to contemporary architecture in the light of issues developed through the module. 4. The meaning of critical thinking and the construction of arguments and debates. 5. The nature and content of research and academic study at Level 2.	Lectures and seminar debates	CARTER, E., DONALD, J., and SQUIRES, J., (eds.), 1993. Space and Place: Theories of Identity and Location. London: Lawrence & Wishart. CURTIS, W., 1995. Modern architecture since 1900. London: Phaidon. FEATHERSTONE, M., and LASH, S., (eds.), 1999. Spaces of culture: city, nation, world. 1999. London: Sage Publications. HARVEY, D., 1989. The condition of postmodernity: an enquiry into the origins of cultural change. Cambridge, Mass./Oxford: Basil Blackwell. HAYS, M. (ed.), 1998. Architecture theory since 1968. 1998. Cambridge, Mass./London: MIT. JAMESON, F., 1991. Postmodernism, or, the cultural logic of late capitalism. London: Verso. JONES, C., 2002. Critical modernism: a return to modernism and a new architectural design. London: Faber/Cornwall. BARNEN-POWELL, C., 2011. Architect's pocket book [electronic resource]. Harlow: Prentice Hall. CHURCHILL, R., 2006. Advanced construction technology [electronic resource]. Harlow: Prentice Hall. EMMITT, S., 2010. Barry's advanced construction of buildings. Oxford: Wiley-Blackwell. WALSH, G., 2006. Building information modelling. ASHRAE Journal, 48 (8), 38-7.	Face to Face	English	Architecture in Context 1	Taghi Amirhosseini	Taghi.Amirhosseini@ntu.ac.uk; +441158486181
DES22078	Tech & Env in Architecture 2	BArch (H) Architecture	20	100% coursework	Compulsory	Full year	10	The study of structures, materials, construction techniques and environmental services and installations in order to integrate the following into architectural design: 1. Appropriate technical design options for a variety of medium-size building types and for different climate zones. 2. Adequate and appropriate provision for building services and environmental control systems. 3. Satisfactory specified building materials and components. 4. Awareness of construction processes and workmanship. 5. Techniques for the critical appraisal of design and construction practices in terms of environmental sustainability. 6. Basic building information modelling (BIM) principles.	Lectures, presentations, seminars, tutorials, studio-based design workshops, a study-tour and site visits.	BAILEY, P., 2011. A green vision: principles and practice of sustainable architectural design. London: Faber/Cornwall. BARNEN-POWELL, C., 2011. Architect's pocket book [electronic resource]. Harlow: Prentice Hall. CHURCHILL, R., 2006. Advanced construction technology [electronic resource]. Harlow: Prentice Hall. EMMITT, S., 2010. Barry's advanced construction of buildings. Oxford: Wiley-Blackwell. WALSH, G., 2006. Building information modelling. ASHRAE Journal, 48 (8), 38-7.	Face to Face	English	None	Jeffrey Keays	jkeays@ntu.ac.uk; +44 115 84 85552
DES22088	Contract Admin: Cont & Fin	BSc(H) Architectural Technology	20	50% coursework/50% examination	Compulsory	Full year	10	The implications and application of the legal principles of contract and negligence within the construction industry. Rights and obligations of parties under standard forms of contract relating to the primary administration and control of building projects.	Lectures and seminars	ICT Standard Building Contract with Quantities, Sweet and Maxwell Contract Practice for Surveyors – Rausch, Reichelt, Griffiths ICT (F) Law and Administration – Naldrett and Rynnott	Face to Face	English	None	Richard Dundas	Richard.Dundas@ntu.ac.uk; +44 115 84 84873
DES22087	Integrated Design and Communication 2	BSc(H) Architectural Technology	20	100% coursework	Compulsory	Full year	10	This module will develop your design communication skills and understanding of Building Information Modelling (BIM) through the application of CAD software, environmental modelling and subsequently, visualisation techniques and challenges using digital media. In tandem with Technology and Design Studio 2, the module explores essential graphic, environmental and technical communication techniques, three-dimensional methods to meet professional conventions and standards used to communicate design from the inception to construction stages.	Introductory lectures, presentations, seminars, tutorials, studio sessions and workshops and may also include study and site visits.	Autodesk, 2018. Revit BIM essential training for architecture [metric]. Lynda.com* From LinkedIn. Blattner, D., 2016. InDesign CC 2017 essential training. Lynda.com* From LinkedIn. Bryant, S., 2018. AutoCAD 2019 essential training. Lynda.com* From LinkedIn. FABRICATE Conference, 2017. Fabricate: rethinking design and construction [eBook] Merges, A., Skawra, M., eds. London: UCL Press. Holzer, D., 2016. The BIM manager's handbook: guidance for professionals in architecture, engineering, and construction [eBook]. Chichester: Wiley. Inghel, B., BIG Bjarke Ingels Group, National Building Museum (U.S.), Hot to cold: an odyssey of architectural adaptation. Köln: Taschen. Jaramila, A.M., Steel, C., 2015. Architectural acoustics [eBook]. Oxfordshire, England: Routledge. Kott, J., 2016. Photoshop CC 2017 essential training: the basics. Lynda.com* From LinkedIn. Krieg, D., Merges, A., Schwan, T., 2017. Advancing wood architecture: a computational approach [eBook]. New York: Routledge. Myers, B., 2017a. Creating a BIM execution plan. Lynda.com* From LinkedIn. Myers, B., 2017b. Enscape essential training. Lynda.com* From LinkedIn. Myers, B., 2018. Revit using point cloud data. Lynda.com* From LinkedIn. Razafari, B., 2006. Digital craft: 3D printing for architectural design. London: Lee JD. Seigel, J., 2017. Dynamo essential training. Lynda.com* From LinkedIn. Watts, A., 2018. Modern Construction Handbook: Augmented Reality [eBook] 5th ed. Basel/Berlin/Boston: Walter de Gruyter GmbH. Wing, E., 2018. Navisworks 2019 essential training. Lynda.com* From LinkedIn. Yuan, P., Leach, N., Merges, A., 2017. Digital fabrication. Shanghai: Tongji University Press. 272.	Face to Face	English	DES22044 Technology & Design Studio 2	Phil Shilton	philip.shilton@ntu.ac.uk; +44 115 84 82842
DES22044	Technology & Design Studio 2	BSc(H) Architectural Technology	40	50/50% coursework	Compulsory	Full year	20	This module introduces you to design and technically explore a series of commercial projects within the built environment. Working together the content from the other modules covered within this course, to integrate research, design, technology, building information modelling and communication within a project based scenario. The projects undertaken within the module will form a significant part of your design portfolio which will ultimately culminate in a body of work which you can take to interview.	Lectures, tutorials and presentations.	Buxton, P., 2015. Metric handbook: planning and design data [eBook] 5th ed. Florence: Taylor and Francis. Cusson, Roger, 2010. Realistic architectural visualization with 3ds max and mental ray. Fozz Press. Emmett, S., Goran, C.A., Barry, R., 2014. Barry's advanced construction of buildings [eBook] Third edition. Chichester: John Wiley & Sons. Gilbert, Oliver L., Anderson, Penny, 1998. Habitat creation and repair. Oxford: Oxford University Press. Halliday, S., 2008. Sustainable construction [eBook]. Amsterdam: Butterworth-Heinemann. Keech, Alison G., 2011. The green studio handbook: environmental strategies for schematic design. Elsevier/Architectural Press. Orntoft, Scott, 2011. Enhancing architectural drawings and models with photoshop. Wiley Pub, Onstoft, Scott, 2005. Enhancing CAD drawings with photoshop. London: SYBEX. Riley, M., Colgrave, A., 2014. Construction technology 2: industrial and commercial building [eBook] Third edition. Houndmills, Basingstoke, Hampshire, [England]: Palgrave Macmillan. Seward, Derek, 2014. Understanding structures: analysis, materials, design Fifth edition. Palgrave Macmillan. Shaver, P., 2013. Introduction to architectural technology [eBook] 2nd ed. London: Laurence King Pub. Surhone, Lambert M., Timpdon, Miriam T., Marseken, Susan F., 2010. Sustainable landscape architecture: sustainable design, sustainable urban drainage systems, fauna, flora, green roof, roof garden, context theory. Beau Bassin, Mauritius: Betscript Publishing. Thomas, Basil, 2006. Environmental design: an introduction for architects and planners. London: Routledge. Baden-Powell, C., Hetreed, J., Ross, A., 2017. Architect's pocket book [eBook] Fifth edition. London: Routledge. Taylor & Francis Group. Buxton, P., ed., 2015. Metric Handbook: Planning and Design Data [eBook] 5th edition. London: Taylor and Francis. Chudley, R., Greno, R., 2016. Building construction handbook [eBook] 11th ed. Taylor and Francis. Cooke, B., 2011. Construction practice. Oxford: Wiley-Blackwell. Edwards, Brian, d1944., Edwards, Brian, Naboni, Emanuele, 2013. Green buildings: design, productivity and ecology [eBook] Third edition. London: Routledge. Emmett, S., Goran, C.A., Barry, R., 2014. Barry's advanced construction of buildings [eBook] Third edition. Chichester: John Wiley & Sons. Hunt, Tony, 2003. Tony Hunt's structures notebook [eBook] 2nd ed. Amsterdam: Architectural. Orton, A., 2013. The Way We Build Now: Form, Scale and Technique [eBook]. Florence: Taylor and Francis. Reed, Ermond, 2013. Understanding buildings: a multidisciplinary approach [eBook]. London: Routledge. Watts, A., 2016. Modern construction envelopes [eBook] Second edition. Vienna: Atraviv. Watts, A., 2016. Modern Construction Handbook [eBook] 4th ed. Basel/Berlin/Boston: Walter de Gruyter GmbH. Woodruffes, James, Abjey, Jan, 2004. Why is construction so backward?	Face to Face	English	DES22087 Integrated Design and Communication 2	Vince Conway	vince.conway@ntu.ac.uk; +44 115 84 86862
DES22046	Planning, Development & Survey	BSc(H) Architectural Technology	20	40/60% coursework	Compulsory	Full year	10	This module explores ways in which the built environment is planned, surveyed and developed, exploring constraints on the creation and management of buildings, spaces and places. You will gain an understanding of the meaning of a sense of place within different cultures, and communities and how town planning policies and processes supports this. On a practical level you will develop your knowledge and skills in locating and acquiring development sites and existing buildings, and in surveying, measuring, recording and evaluating information for a technical, legal and planning perspective.	Lectures, tutorials, seminars, workshop sessions, study visits	Baden-Powell, C., Hetreed, J., Ross, A., 2017. Architect's pocket book [eBook] Fifth edition. London: Routledge. Taylor & Francis Group. Buxton, P., ed., 2015. Metric Handbook: Planning and Design Data [eBook] 5th edition. London: Taylor and Francis. Chudley, R., Greno, R., 2016. Building construction handbook [eBook] 11th ed. Taylor and Francis. Cooke, B., 2011. Construction practice. Oxford: Wiley-Blackwell. Edwards, Brian, d1944., Edwards, Brian, Naboni, Emanuele, 2013. Green buildings: design, productivity and ecology [eBook] Third edition. London: Routledge. Emmett, S., Goran, C.A., Barry, R., 2014. Barry's advanced construction of buildings [eBook] Third edition. Chichester: John Wiley & Sons. Hunt, Tony, 2003. Tony Hunt's structures notebook [eBook] 2nd ed. Amsterdam: Architectural. Orton, A., 2013. The Way We Build Now: Form, Scale and Technique [eBook]. Florence: Taylor and Francis. Reed, Ermond, 2013. Understanding buildings: a multidisciplinary approach [eBook]. London: Routledge. Watts, A., 2016. Modern construction envelopes [eBook] Second edition. Vienna: Atraviv. Watts, A., 2016. Modern Construction Handbook [eBook] 4th ed. Basel/Berlin/Boston: Walter de Gruyter GmbH. Woodruffes, James, Abjey, Jan, 2004. Why is construction so backward?	Face to Face	English	DES22044 Technology & Design Studio 2	Vince Conway	vince.conway@ntu.ac.uk; +44 115 84 86862
DES22071	Construction Technology 2	BSc(H) Architectural Technology	20	55/45% coursework	Compulsory	Full year	10	The aim of this module is to introduce you to small and medium scale commercial technical and environmental principles within the built environment. It will make you familiar with a number of alternative solutions to meeting the challenges associated with aspects of this work. The module will be closely aligned to Technology and Design Studio 2 allowing you the opportunity to explore the above through a studio based environment.	Lectures, tutorials, seminars, workshop sessions, study visits	Anon, 2014. Construction website 2014-15 [online]. Baden-Powell, C., Hetreed, J., Ross, A., 2017. Architect's pocket book [eBook] Fifth edition. London: Routledge. Taylor & Francis Group. Bell, V.B., Rand, P., 2006. Materials for design. New York: Princeton Architectural Press. Bell, V.B., Rand, P., 2014. Materials for design 2 [eBook] First edition. New York, New York: Princeton Architectural Press. Buxton, P., ed., 2015. Metric Handbook: Planning and Design Data [eBook] Sixth edition. London: Taylor and Francis. Chudley, R., Greno, R., 2016. Building construction handbook [eBook] 11th ed. Taylor and Francis. Cooke, B., 2011. Construction practice. Oxford: Wiley-Blackwell. Edwards, Brian, d1944., Edwards, Brian, Naboni, Emanuele, 2013. Green buildings: design, productivity and ecology [eBook] Third edition. London: Routledge. Emmett, S., Goran, C.A., Barry, R., 2014. Barry's advanced construction of buildings [eBook] Third edition. Chichester: John Wiley & Sons. Hunt, Tony, 2003. Tony Hunt's structures notebook [eBook] 2nd ed. Amsterdam: Architectural. Orton, A., 2013. The Way We Build Now: Form, Scale and Technique [eBook]. Florence: Taylor and Francis. Reed, Ermond, 2013. Understanding buildings: a multidisciplinary approach [eBook]. London: Routledge. Watts, A., 2016. Modern construction envelopes [eBook] Second edition. Vienna: Atraviv. Watts, A., 2016. Modern Construction Handbook [eBook] 4th ed. Basel/Berlin/Boston: Walter de Gruyter GmbH. Woodruffes, James, Abjey, Jan, 2004. Why is construction so backward?	Face to Face	English	DES22044 Technology & Design Studio 2	Richard Moberg	richard.moberg@ntu.ac.uk; +44 115 84 82777
DES22064	Design Communication 2	BArch (H) Architecture and Design	20	100% coursework	Compulsory	Full year	10	This module further develops your learning from year 1 of two and three dimensional visual tools and the range of conceptual conventions used to convey complex information. It will explore essential graphic and visual communication techniques, incorporating two and three dimensional methods to meet professional conventions and standards used to communicate design from the inception to construction stages. The projects introduce and develop an intermediate level of communication skills. In addition to this, it creates a framework for you to explore the opportunities you have in developing a professional CV and portfolio of work, aligned to skills and techniques that the industry requires. The CV and portfolio will assist with your engagement in core employability skills, career planning and personalisation together with the attainment of a Professional Practice Placement.	Lectures, presentations, seminars, studio and workshop sessions, and may also include study and site visits	Baden-Powell, C., Hetreed, J., Ross, A., 2017. Architect's pocket book [eBook] Fifth edition. London: Routledge. Taylor & Francis Group.	Face to Face	English	DES22081 IAD Design Studio 2	Manuel Angel Macias	manuel.angelmacias@ntu.ac.uk
DES22081	IAD Design Studio 2	BArch (H) Interior Architecture and Design	60	100% coursework	Compulsory	Full year	30	This module extends the studio teaching developed within year one in order to engage with a range of building types and sites. The organisation and configuration of given spaces is developed through a detailed specification with consideration given to structural, material, environmental and experiential issues. The projects also require you to integrate knowledge and skills from other modules in the resolution of your design assignments. The 20 credit modules are designed to integrate into the main design studio project. This connectivity allows you to develop a holistic approach, highlighting how knowledge from every module contributes to the development of the Design Studio. This encourages an understanding of design as a holistic discipline. Within this module you will engage in learning core employability skills and in career planning activity with the development of your design portfolio.	Seminars, workshop sessions, drawing and model making, study and site visits	Baden-Powell, C., Hetreed, J., Ross, A., 2017. Architect's pocket book [eBook] Fifth edition. London: Routledge. Taylor & Francis Group.	Face to Face	English	DES22064 Professional Studies & Design Communications 2	Douglas Giffens	douglas.giffens@ntu.ac.uk; +44 115 84 84158
DES22080	Interior Arch in Context 2	BArch (H) Interior Architecture and Design	20	100% coursework	Compulsory	Full year	10	The module aims to develop your critical responses to and knowledge of theories related to 20th century contemporary and emerging architecture, interiors and urban design, globally and locally. This is investigated through the exploration of emerging diverse cultures and different communities and the influences these have on design ideas and architectural legions. The module provides an important underpinning for the final year contextual studies and design thinking in studio & research projects.	Lectures and seminar debates	Baden-Powell, C., Hetreed, J., Ross, A., 2017. Architect's pocket book [eBook] Fifth edition. London: Routledge. Taylor & Francis Group.	Face to Face	English	DES22081 IAD Design Studio 2	Harry Foley	Harry.Foley@ntu.ac.uk; +44 115 84 82559
DES22082	Technical Studies 2	BArch (H) Interior Architecture and Design	20	100% coursework	Compulsory	Full year	10	This module extends your knowledge from year 1 of the range of technical, practical and environmental principles and the impact that buildings and their construction make on human experience, so further develop your understanding of the principles and terminology of building construction and the consequences of the application of materials. It will introduce issues of sustainability and develop your awareness that design decisions have consequences at a cultural, financial and practical level. It will also give you the opportunity to understand and apply regulatory issues and implications and develop your ability to communicate technical design recommendations with your tutors, peer group and industry professionals.	Lectures, presentations, seminars, studio and workshop sessions, and may also include student and peer support sessions, study and site visits	Baden-Powell, C., Hetreed, J., Ross, A., 2017. Architect's pocket book [eBook] Fifth edition. London: Routledge. Taylor & Francis Group.	Face to Face	English	DES22081 IAD Design Studio 2	Harry Foley	Harry.Foley@ntu.ac.uk; +44 115 84 82559
CON20017	Construction Management Practice & Procedures	BSc (H) Construction Management	20	50% coursework/50% examination	Compulsory	Full year	10	This module introduces you to the principles and practice of a small/medium construction company, its behavioural management system and the operation of its projects.	Lectures and workshops/tutorials.	Chudley, R., Greno, R., 2016. Building construction handbook [eBook] 11th ed. Taylor and Francis.	Face to Face	English	None	Dr. Mukesh Kashyap	Mkesh.kashyap@ntu.ac.uk
CON20013	Construction Technology	BSc (H) Construction Management	20	100% coursework	Compulsory	Full year	10	The aim of this module is to explore the technological and philosophical aspects of modern construction techniques and processes. Supported by case studies and laboratory work, it is anticipated that you will be enthused and stimulated into continuing your own further self-development and studies in this field. You will be encouraged to undertake research in relevant topic areas to enhance and improve upon the direct contact learning experience provided. This module will primarily focus on industrial and commercial buildings. It will also consider international construction methods and materials. Sustainability is an intrinsic driver in all construction matters and its consideration will be an overriding requirement in this module. The key aim of the module is for you to understand modern and traditional technologies as applied to construction matters and its consideration will be an overriding requirement in this module. The key aim of the module is for you to understand modern and traditional technologies as applied to building work.	Lectures, seminars and laboratories	Cooke, B., 2011. Construction practice. Oxford: Wiley-Blackwell.	Face to Face	English	None	Dave Jones	dave.jones@ntu.ac.uk
CON20014	Contract Admin: Control & Finance	BSc (H) Construction Management	20	50% coursework/50% examination	Compulsory	Full year	10	Contract administration: the study of construction contracts and practice. Construction related contracts are widely used in the industry and play an important role in your working practices. This module will develop your knowledge and understanding of this area of your chosen discipline by studying key topics related to the administration of construction related contracts, and applying the practices and procedures to industry related scenarios. The very nature of the subject material is such that a large amount of independent reading is required to gain a detailed understanding of the various complex topics and scenarios. These topics are crucial to any construction related project and represent the fundamental building blocks of a relationship between a client and a contractor, and will form a daily part of a future professional career in construction.	Lectures and seminars	Edwards, Brian, d1944., Edwards, Brian, Naboni, Emanuele, 2013. Green buildings: design, productivity and ecology [eBook] Third edition. London: Routledge.	Face to Face	English	None	Dr Anthony Ward	anthony.ward@ntu.ac.uk
CON20009	Engineering Surveying	BSc (H) Construction Management	20	50% coursework/50% examination	Compulsory	Full year	10	The aim of the module is to introduce and develop your understanding of the principles and procedures of engineering surveying within the context of the construction industry. The module will provide experience and develop your skills in the use of standard surveying instrumentation together with associated field and office procedures for the preparation of site plans, setting out and control of construction works and the measurement of existing buildings. Using simulated work situations the module will also allow for the development of key skills.	Lectures and tutorials	Emmett, S., Goran, C.A., Barry, R., 2014. Barry's advanced construction of buildings [eBook] Third edition. Chichester: John Wiley & Sons.	Face to Face	English	None	Clive Wright	clive.wright@ntu.ac.uk
CON20025	Law	BSc (H) Construction Management	20	50% coursework/50% examination	Compulsory	Full year	10	You will study the English Legal System to help you understand how law is made, administered and enforced. You will also study health and safety, negligence, occupier's liability and other construction related legal topics that have relevance to the construction and property environment. The aim of this module is to develop your understanding of legal duties and responsibilities. One particular theme is effective decision making for construction professionals and in particular managers' duties in employment and business law. To encourage ownership of your duties and responsibilities you will be expected to undertake a more independent study approach to learning. One example of this approach is that you will receive key information in lectures and you will then undertake some independent reading and thinking.	Lectures and Seminars	Hunt, Tony, 2003. Tony Hunt's structures notebook [eBook] 2nd ed. Amst	Face to Face	English	None	Chris Coffey	chris.coffey@ntu.ac.uk
CON20016	Sustainable Technology with Environmental Control	BSc (H) Construction Management	20	100% coursework	Compulsory	Full year	10	This module aims to explore the technological and philosophical aspects of modern construction techniques and environmental engineering. The provision of a satisfactory internal environment within buildings using both active and passive control methods. The material presented in this module will be supported by case studies and laboratory work. You will be encouraged to undertake independent research to enhance and consolidate your learning experience.	Lectures, workshops and laboratory sessions	Orton, A., 2013. The Way We Build Now: Form, Scale and Technique [eBook]. Florence: Taylor and Francis.	Face to Face	English	None	Hua Zhong	hua.zhong@ntu.ac.uk
CON20013	Construction Technology	BSc (H) Quantity Surveying & Commercial Management	20	100% coursework	Compulsory	Full year	10	The aim of this module is to explore the technological and philosophical aspects of modern construction techniques and processes. Supported by case studies and laboratory work, it is anticipated that you will be enthused and stimulated into continuing your own further self-development and studies in this field. You will be encouraged to undertake research in relevant topic areas to enhance and improve upon the direct contact learning experience provided. This module will primarily focus on industrial and commercial buildings. It will also consider international construction methods and materials. Sustainability is an intrinsic driver in all construction matters and its consideration will be an overriding requirement in this module. The key aim of the module is for you to understand modern and traditional technologies as applied to building work.	Lectures, seminars and laboratories.	Reed, Ermond, 2013. Understanding buildings: a multidisciplinary approach [eBook]. London: Routledge.	Face to Face	English	None	Dave Jones	dave.jones@ntu.ac.uk







PRMD20013	Property Development Principles & Practice	BSc(H) Real Estate SW	20	100% coursework	Compulsory	Full year	10	<ul style="list-style-type: none"> <li>The module contains the following key components: <ul style="list-style-type: none"> <li>The property development process</li> <li>Applied aspects of land law: freehold and leasehold, easements, positive and restrictive covenants, nuisance</li> <li>Aspects of the planning, site appraisal and design process, including sustainability principles</li> <li>Introduction to mapping, site planning and layout, services and infrastructure provision</li> <li>Development appraisal including viability and risk analysis</li> <li>Financing property development</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This module will be delivered using a range of methods which are intended to enable students to gain a level of understanding in both the theory and practice of the development of land and property. The range of delivery methods used may include: <ul style="list-style-type: none"> <li>Lectures, seminars, workshops, field trips and site visits where appropriate</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Reed, R. and Sims, S. (2015) <i>Developing Property Sustainably</i>, Oxon: Routledge</li> <li>Howard, T. (2014) <i>Financial Feasibility Studies for Property Development: Theory and Practice</i>, Oxon: Routledge</li> <li>Wood, D. (2011) <i>Law and the Built Environment</i>, second edition: Chichester: Wiley-Blackwell.</li> </ul>	Face to Face	English	none	Stephanie Latham	<a href="mailto:stephanic.latham@ma.ac.uk">stephanic.latham@ma.ac.uk</a>
PRMD20021	Valuation	BSc(H) Real Estate SW	20	100% coursework	Compulsory	Full year	10	<ul style="list-style-type: none"> <li>The module covers the following principal areas of study: <ul style="list-style-type: none"> <li>Principles and methods of property valuation for different purposes</li> <li>Different interests in property and property types and characteristics and how these are taken into account in the valuation process</li> <li>Valuation methods relating to development and investment property</li> <li>The use of commercial valuation software packages</li> <li>The purpose, nature and application of national and international property valuation standards to property valuation practice</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This module will be delivered using a range of methods which are intended to enable you to gain a level of understanding in the subject area. The range of delivery methods used may include: <ul style="list-style-type: none"> <li>Lecture - Seminars - Tutorials - Workshops - Surgeries - Studios - Field Trips - Laboratories</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Baum, A., Mackmin, D., and Nunnington, N. 2011 <i>The Income Approach to Property Valuation</i>, (6th Edition), London: Routledge</li> <li>Blackledge, M. 2009 <i>Introducing Property Valuation</i>, London: Routledge</li> <li>Isaac, D. 2002 <i>Property Valuation Principles</i>, Basingstoke: Palgrave</li> <li>RICS, 1997 <i>Commercial Investment Property: Valuation Methods</i>, An Information Paper, May, London: RICS</li> <li>RICS 2011 <i>RICS Valuation Standards</i>, London: RICS</li> <li>Wyatt, P., 2007 <i>Property Valuation in an Economic Context</i> Oxford: Blackwell</li> </ul>	Face to Face	English	none	Rebecca Goodall	<a href="mailto:rebecca.goodall@ma.ac.uk">rebecca.goodall@ma.ac.uk</a>
PRMD20022	Real Estate Economics	BSc(H) Real Estate SW	20	100% coursework	Compulsory	Full year	10	<ul style="list-style-type: none"> <li>• Microeconomics and property</li> <li>• Economic and property cycles</li> <li>• Different property use types such as offices and industrial</li> <li>• Economic and property market research and analysis</li> <li>• Government intervention and its relevance to the property market</li> <li>• Institutional/political frameworks of regional economic policy and policy makers</li> </ul>	<ul style="list-style-type: none"> <li>This module will be delivered using a range of methods which are intended to enable you to gain a level of understanding in the subject area. The range of delivery methods used may include: <ul style="list-style-type: none"> <li>Lectures</li> <li>Seminars</li> <li>Workshops</li> <li>Surgeries</li> <li>Field trips as appropriate</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Sloman, J. Garrett, D. 2016, <i>Essentials of Economics</i>, Harlow: Pearson</li> <li>Ball, M., 2014, <i>Rebuilding construction: economic change in the British construction industry</i> Oxon: Routledge</li> <li>Joensy, E. 2011 <i>Real Estate Economics</i>, First Edition, Palgrave Macmillan, Hampshire</li> <li>Myers, D. 2011 <i>Economics &amp; Property</i>, Third Edition, EG Books, London</li> <li>Sloman, J. and Garratt, D. 2010 <i>Essentials of Economics</i>, Fifth Edition, Harlow, Essex: Pearson Education</li> </ul>	Face to Face	English	none	Dr Alla Kobzyakova	Alia.kobzyakova
PRMD20020	Property Management & Agency	BSc(H) Real Estate SW	40	50% examination/50% coursework	Compulsory	Full year	20	<ul style="list-style-type: none"> <li>The module contains the following principal components: <ul style="list-style-type: none"> <li>The history and development of estate practices in the UK and Continental Europe</li> <li>Client's authority, confidentiality, obligations</li> <li>Property inspection for agency and property management purposes</li> <li>Codes of conduct and regulatory controls in the agency and property management environments</li> <li>Principles of estate management with particular emphasis on commercial property. Structures and procedures in real estate management practice in the public and private sectors</li> <li>An introduction to property agency practice and procedures</li> <li>Comparison of residential and commercial agency</li> <li>Aquisitions and disposal by private treaty and competitive methods</li> <li>Sales and lettings procedures and practice, types of agency, particulars of sale</li> <li>Tenant selection, tenant mix and the importance of covenant strength</li> <li>Property management compared to Asset and Portfolio Management in the UK and wider field. Aims and objectives of each role</li> <li>Traditional modern UK and European leases, form, content, enforcement, management, notices and alienation. Operation and interpretation of lease clauses. Disputations and meaning of "repair", schedules of condition and yielding up</li> <li>Rent collection; remedies for default for non-payment of rent or breach of covenant</li> <li>Procedures for surrender and renewal of leases. Statutory protection of commercial and residential leases</li> <li>Procedures for tenants improvements and compensation</li> <li>Operation of service charges, procedures, best practice, apportionment, collection, records and accounts. Law and dispute resolution</li> <li>Operation of rent reviews, procedures, negotiation and dispute resolution.</li> <li>Information technology and computer use in the real estate environment.</li> <li>European traditions and cultures and real estate, occupation and tenure of real property in the UK and Europe</li> <li>Statutory valuations including local and national taxation, and compulsory purchase.</li> <li>Asset valuations.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This module will be delivered using a range of methods which are intended to enable you to gain a level of understanding in the subject area. The range of delivery methods used may include: <ul style="list-style-type: none"> <li>Lectures - Seminars - Tutorials - Workshops - Surgeries - Studios - Field Trips - Laboratories</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Bull, R. 2011 <i>Commercial Property Guidford</i>: College of Law Publishing</li> <li>Barnfield, A. 2005 <i>Stapletons Real Estate Management Practice</i>, 4th Ed. London: Estates Gazette</li> <li>Murdoch, J. 1993 <i>The Estate Agents &amp; Property Medscriptions Acts 3rd Ed.</i> London: Estates Gazette</li> <li>Rubin, V. 1997 <i>The Business Occupier's Handbook: a practical guide to acquiring, occupying and disposing of business premises</i> Taylor &amp; Francis</li> <li>Garner, S and Frith A 2010 <i>A Practical Approach to Landlord &amp; Tenant</i>, 4th Ed. Oxford: Oxford University Press Limited</li> <li>Baum, AE, Sams, G, Stevens, D, Ellis, J, Hampson, C. 2007. <i>Statutory Valuations</i>, 4th Edition, London: Estates Gazette.</li> </ul>	Face to Face	English	none	Keith Agar	<a href="mailto:kob.agar@ma.ac.uk">kob.agar@ma.ac.uk</a>
PRMD20019	Employability & Commercial Awareness	BSc(H) Prop Finance & Inves SW	20	100% coursework	Compulsory	Full Year	10	<ul style="list-style-type: none"> <li>University procedures for administering placements and graduate employment.</li> <li>Curriculum Vitae preparation.</li> <li>Writing covering letters and completing application forms.</li> <li>Interview techniques and effective preparation.</li> <li>Psychometric testing.</li> <li>Personal presentation skills and body language.</li> <li>Business organisation and structure, reading company financial reports, SWOT analysis, competition analysis.</li> <li>Effective business correspondence.</li> <li>Workplace dynamics.</li> <li>Property Industry Market Research.</li> <li>Marketing Strategies for Surveys.</li> <li>The requirements of the RICS Assessment of Professional Competence.</li> <li>An introduction to Employment Law.</li> <li>International field trip (or alternative international case study) to explore property markets</li> </ul>	<ul style="list-style-type: none"> <li>This module will be delivered using a range of methods which are intended to enable you to gain a level of understanding in the subject area. The range of delivery methods used may include: <ul style="list-style-type: none"> <li>Lecture, seminar, tutorial, workshop, surgery, studio, field trip, laboratory</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Hurst, C. 2010, <i>APC 2010-11: Your Practical Guide to Success</i>, RICS Books ISBN 9781842196045</li> <li>Kay, J., 2007, <i>Signals and Leaders for Property Professionals: How to be a smooth operator in the property industry</i>, EG Books, ISBN 9780732000311</li> <li>Adamson, R and Soule, M. 2009, <i>Tough Interview Questions and How to Answer them</i>, Wiley, ISBN 9781844000095</li> <li>Byron, M. 2010, <i>The Graduate Psychometric Test Workbook</i>, 2nd Edition, Kogan Page, ISBN 9780749454050.</li> </ul>	Face to Face	English	none	Dr Alla Kobzyakova	Alia.kobzyakova
PRMD20021	Valuation	BSc(H) Prop Finance & Inves SW	20	100% coursework	Compulsory	Full year	10	<ul style="list-style-type: none"> <li>The module covers the following principal areas of study: <ul style="list-style-type: none"> <li>Principles and methods of property valuation for different purposes</li> <li>Different interests in property and property types and characteristics and how these are taken into account in the valuation process</li> <li>Valuation methods relating to development and investment property</li> <li>The use of commercial valuation software packages</li> <li>The purpose, nature and application of national and international property valuation standards to property valuation practice</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This module will be delivered using a range of methods which are intended to enable you to gain a level of understanding in the subject area. The range of delivery methods used may include: <ul style="list-style-type: none"> <li>Lecture - Seminars - Tutorials - Workshops - Surgeries - Studios - Field Trips - Laboratories</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Baum, A., Mackmin, D., and Nunnington, N. 2011 <i>The Income Approach to Property Valuation</i>, (6th Edition), London: Routledge</li> <li>Blackledge, M. 2009 <i>Introducing Property Valuation</i>, London: Routledge</li> <li>Isaac, D. 2002 <i>Property Valuation Principles</i>, Basingstoke: Palgrave</li> <li>RICS, 1997 <i>Commercial Investment Property: Valuation Methods</i>, An Information Paper, May, London: RICS</li> <li>RICS 2011 <i>RICS Valuation Standards</i>, London: RICS</li> <li>Wyatt, P., 2007 <i>Property Valuation in an Economic Context</i> Oxford: Blackwell</li> </ul>	Face to Face	English	none	Rebecca Goodall	<a href="mailto:rebecca.goodall@ma.ac.uk">rebecca.goodall@ma.ac.uk</a>
PRMD20022	Real Estate Economics	BSc(H) Prop Finance & Inves SW	20	100% coursework	Compulsory	Full year	10	<ul style="list-style-type: none"> <li>• Microeconomics and property</li> <li>• Economic and property cycles</li> <li>• Different property use types such as offices and industrial</li> <li>• Economic and property market research and analysis</li> <li>• Government intervention and its relevance to the property market</li> <li>• Institutional/political frameworks of regional economic policy and policy makers</li> </ul>	<ul style="list-style-type: none"> <li>This module will be delivered using a range of methods which are intended to enable you to gain a level of understanding in the subject area. The range of delivery methods used may include: <ul style="list-style-type: none"> <li>Lectures</li> <li>Seminars</li> <li>Workshops</li> <li>Surgeries</li> <li>Field trips as appropriate</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Sloman, J. Garrett, D. 2016, <i>Essentials of Economics</i>, Harlow: Pearson</li> <li>Ball, M., 2014, <i>Rebuilding construction: economic change in the British construction industry</i> Oxon: Routledge</li> <li>Joensy, E. 2011 <i>Real Estate Economics</i>, First Edition, Palgrave Macmillan, Hampshire</li> <li>Myers, D. 2011 <i>Economics &amp; Property</i>, Third Edition, EG Books, London</li> <li>Sloman, J. and Garratt, D. 2010 <i>Essentials of Economics</i>, Fifth Edition, Harlow, Essex: Pearson Education</li> </ul>	Face to Face	English	none	Dr Alla Kobzyakova	Alia.kobzyakova
PRMD20013	Property Development Principles & Practice	BSc(H) Prop Finance & Inves SW	20	100% coursework	Compulsory	Full year	10	<ul style="list-style-type: none"> <li>The module contains the following key components: <ul style="list-style-type: none"> <li>The property development process</li> <li>Applied aspects of land law: freehold and leasehold, easements, positive and restrictive covenants, nuisance</li> <li>Aspects of the planning, site appraisal and design process, including sustainability principles</li> <li>Introduction to mapping, site planning and layout, services and infrastructure provision</li> <li>Development appraisal including viability and risk analysis</li> <li>Financing property development</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This module will be delivered using a range of methods which are intended to enable students to gain a level of understanding in both the theory and practice of the development of land and property. The range of delivery methods used may include: <ul style="list-style-type: none"> <li>Lectures, seminars, workshops, field trips and site visits where appropriate</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Reed, R. and Sims, S. (2015) <i>Developing Property Sustainably</i>, Oxon: Routledge</li> <li>Howard, T. (2014) <i>Financial Feasibility Studies for Property Development: Theory and Practice</i>, Oxon: Routledge</li> <li>Wood, D. (2011) <i>Law and the Built Environment</i>, second edition: Chichester: Wiley-Blackwell.</li> </ul>	Face to Face	English	none	Dr Alla Kobzyakova	Alia.kobzyakova
PRMD20020	Property Management & Agency	BSc(H) Prop Finance & Inves SW	40	50% examination/50% coursework	Compulsory	Full year	20	<ul style="list-style-type: none"> <li>The module contains the following principal components: <ul style="list-style-type: none"> <li>The history and development of estate practices in the UK and Continental Europe</li> <li>Client's authority, confidentiality, obligations</li> <li>Property inspection for agency and property management purposes</li> <li>Codes of conduct and regulatory controls in the agency and property management environments</li> <li>Principles of estate management with particular emphasis on commercial property. Structures and procedures in real estate management practice in the public and private sectors</li> <li>An introduction to property agency practice and procedures</li> <li>Comparison of residential and commercial agency</li> <li>Aquisitions and disposal by private treaty and competitive methods</li> <li>Sales and lettings procedures and practice, types of agency, particulars of sale</li> <li>Tenant selection, tenant mix and the importance of covenant strength</li> <li>Property management compared to Asset and Portfolio Management in the UK and wider field. Aims and objectives of each role</li> <li>Traditional modern UK and European leases, form, content, enforcement, management, notices and alienation. Operation and interpretation of lease clauses. Disputations and meaning of "repair", schedules of condition and yielding up</li> <li>Rent collection; remedies for default for non-payment of rent or breach of covenant</li> <li>Procedures for surrender and renewal of leases. Statutory protection of commercial and residential leases</li> <li>Procedures for tenants improvements and compensation</li> <li>Operation of service charges, procedures, best practice, apportionment, collection, records and accounts. Law and dispute resolution</li> <li>Operation of rent reviews, procedures, negotiation and dispute resolution.</li> <li>Information technology and computer use in the real estate environment.</li> <li>European traditions and cultures and real estate, occupation and tenure of real property in the UK and Europe</li> <li>Statutory valuations including local and national taxation, and compulsory purchase.</li> <li>Asset valuations.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>This module will be delivered using a range of methods which are intended to enable you to gain a level of understanding in the subject area. The range of delivery methods used may include: <ul style="list-style-type: none"> <li>Lectures - Seminars - Tutorials - Workshops - Surgeries - Studios - Field Trips - Laboratories</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Bull, R. 2011 <i>Commercial Property Guidford</i>: College of Law Publishing</li> <li>Barnfield, A. 2005 <i>Stapletons Real Estate Management Practice</i>, 4th Ed. London: Estates Gazette</li> <li>Murdoch, J. 1993 <i>The Estate Agents &amp; Property Medscriptions Acts 3rd Ed.</i> London: Estates Gazette</li> <li>Rubin, V. 1997 <i>The Business Occupier's Handbook: a practical guide to acquiring, occupying and disposing of business premises</i> Taylor &amp; Francis</li> <li>Garner, S and Frith A 2010 <i>A Practical Approach to Landlord &amp; Tenant</i>, 4th Ed. Oxford: Oxford University Press Limited</li> <li>Baum, AE, Sams, G, Stevens, D, Ellis, J, Hampson, C. 2007. <i>Statutory Valuations</i>, 4th Edition, London: Estates Gazette.</li> </ul>	Face to Face	English	none	Keith Agar	<a href="mailto:kob.agar@ma.ac.uk">kob.agar@ma.ac.uk</a>