Module Code Module Title Course Title NTU Assess	year of study Type (compulsory (full ECTS allog	cated Module content	Teaching Methods	Recommended / Required Reading	Mode of Language of Instruction	Pre and Co Requisites Module/Contact Leader	Module Leader contact
DESN22073 Interdisc Design Studies BArch (H) Architecture 20 100% courses	/ optional year/half year Compulsory Full year 10	A practice-based exploration of: 1. A range of creative disciplines beyond building construction. 2. Architectural understanding in relation to 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.		Face to Face English	none Lois Woods	lois.woods@ntu.ac.uk
Studio	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 ideas, 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 designs and ideas using appropriate communication techniques and language. 5. presenting architectural designs through visual, verbal, written and electronic techniques.	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	WHYTE, W.H., 1980. The social life of small urban spaces. New York: Project for Public Spaces. GREED, C., and ROBERTS, M., 1998. Introducing urban design: interventions and responses. Harlow: Longman. HALL, E.T., 1990. The hidden dimension. New York: Anchor. HOLL, S., 2006. Questions of perception: phenomenology of architecture. Tokyo/San Francisco: William Stout. LEFAIVRE, L., 2003. Critical regionalism: architecture and identity in a globalized world. Munich/London: Prestel. PALLASMAA, J., 2009. The thinking hand. Hoboken, N.J./Chichester: John Wiley. ROGERS, R.G., 1997. Cities for a small planet. London: Faber and Faber.		DESN22076 Architecture in Context 2 DESN22078 Technology and Environment in Architecture 2	Tom.Hughes@ntu.ac.uk; +44 115 84 82046
DESN22076 Architecture in Context 2 BArch (H) Architecture 20 100% p	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.		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.		Architecture in Context 1 Taghi Amirhosseini	Taghi.Amirhosseini@ntu.ac.uk; +441158486181
DESN22078 Tech & Env in Architecture 2 BArch (H) Architecture 20 100% courses	ework	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. Suitably 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.	tutorials, studio-based design workshops, a study-tour and site visits.	architectural design. London: Earthscan. BADEN-POWELL, C., 2011. Architect's pocket book [electronic resource]. Amsterdam/Boston: Elsevier/Architectural Press. CHUDLEY, R., 2006. Advanced construction technology [electronic resource]. Harlow: Pearson/Prentice Hall. EMMITT, S., 2010. Barry's advanced construction of buildings. Oxford: Wiley-Blackwell. HOLNESS, G., 2006. Building information modeling. ASHRAE Journal, 48 (8), 38-+.	Face to Face English	none Jeffrey Keays	j.keays@ntu.ac.uk; +44 115 84 85552
DESN22088 Contract Admin: Cont & Fin Echnology 20 50% coursew examina 20 100% coursew examina 20 20 20 20 20 20 20 2	Compulsory Full year 10	The implication and application of the legal principals 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. 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 challenge 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.	tutorials, studio sessions and workshops and may also include study and site visits.	Contract Practice for Surveyors – Ramus, Birchall, Griffiths JCT 05, Law and Administration – Ndekugri and Rycroft	Face to Face English Face to Face English	DESN22044 Technology and Design Studio 2 DESN22071 Construction Technology 2	Richard.Dundas@ntu.ac.uk; +44 115 84 84873 philip.shilton@ntu.ac.uk; +44 115 84 82842
DESN22044 Technology & Design Studio 2 Technology 40 50/50% courses		This module introduces you to design and technically explore a series of commercial projects within the built environment. Bringing together the content form the other modules covered within the 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.	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. Focal Press. Emmitt, S., Gorse, 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. Kwok, Alison G., 2011. The green studio handbook: environmental strategies for schematic design. Elsevier/Architectural Press. Onstott, Scott, 2011. Enhancing architectural drawings and models with photoshop. Wiley Pub. Onstott, Scott, 2005. Enhancing CAD drawings with photoshop. London: SYBEX. Riley, M., Cotgrave, 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. Silver, P., 2013. Introduction to architectural technology [eBook] 2nd ed. London: Laurence King Pub. Surhone, Lambert M., Timpledon, Miriam T., Marseken, Susan F., 2010. Sustainable landscape architecture: sustainable design, sustainable urban drainage systems, fauna, flora, green roof, roof garden, context theory. Beau	Face to Face English	DESN22087 Integrated Design and Communication 2 DESN22071 Construction Technology 2	vincent.conway@ntu.ac.uk; +44 115 84 86862
DESN22046 Planning, Development & Survey BSc(H) Architectural Technology Courses		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 from a technical, legal and planning perspective.	Lectures, tutorials, seminars, workshop sessions, study visits	Bassin, Mauritius: Betascript Publishing. Thomas, Randall, 2006. Environmental design: an introduction for architects and Baden-Powell, C., Hetreed, J., Ross, A., 2017. Architect's pocket book [eBook] Fifth edition. New York: Routledge, Taylor & Francis Group. Billington, M.J. et al., 2017. The building regulations: explained and illustrated [eBook] 14th edition. Chichester, West Sussex: Wiley Blackwell. Bussey, P., Scott Brownrigg, 2015. CDM 2015: a practical guide for architects and designers. Newcastle upon Tyne: RIBA Publishing. Douglas, J., 2006. Building adaptation [eBook] Second edition. Oxford: Elsevier Glover, P.V., 2013. Building surveys [eBook] Eighth edition. London: Routledge. Gorse, C.A., Highfield, D., ProQuest (Firm), 2009. Refurbishment and upgrading of buildings [eBook] 2nd ed. New York: Taylor & Francis. Holland, M., ebrary, Inc, 2012. A practical guide to diagnosing structural movement in buildings [eBook]. Ames, Iowa: Wiley-Blackwell. Irvine, W.H., Mclennan, F., 2006. Surveying for construction 5th ed. Maidenhead: McGraw-Hill Education. Riley, M., Cotgrave, A., 2011. Construction technology 3: the technology of refurbishment and maintenance 2nd ed. Basingstoke: Palgrave Macmillan. Roaf, S. et al., 2009. Adapting buildings and cities for climate change: a 21st century survival guide [eBook] 2nd ed. Oxford, UK: Elsevier/Architectural Press. Syms, P.M., 2010. Land, development and design [eBook] 2nd ed. Chichester, West Sussex, U.K.: Wiley-Blackwell. Tricker, R., Alford, S., 2018. Building regulations in brief [eBook] Ninth edition. London, [England]: Routledge. Wood, D., 2011. Law and the built environment 2nd ed. Chichester, West Sussex: Wiley-Blackwell.	Face to Face English	DESN22044 Technology & Vince Conway Design Studio 2	vincent.conway@ntu.ac.uk; +44 115 84 86862
DESN22071 Construction Technology 2 Technology 2 Technology 2 Technology 2 Technology		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 projects of this scale. The module will be closely aligned to Technology and Design Studio 2 allowing you the opportunity to explore the above thought a studio based environment.		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., 2018. Metric Handbook: Planning and Design Data [eBook] Sixth edition. London: Taylor and Francis. Chudley, R., Greeno, 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 pay: design, productivity and ecology [eBook] Third edition. London: Routledge. Emmitt, S., Gorse, 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. Reid, Esmond, 2013. Understanding buildings: a multidisciplinary approach [eBook]. London: Routledge Watts, A., 2014. Modern construction envelopes [eBook] Second edition. Vienna: Ambra V. Watts, A., 2016. Modern Construction Handbook [eBook] 4th ed. Basel/Berlin/Boston: Birkhäuser.	Face to Face English	DESN22044 Technology & Richard McHarg Design Studio 2 DESN22087 Integrated Design & Communication 2	richard.mcharg@ntu.ac.uk; +44 115 84 82277
DESN22064 Design Communication 2 BA(H) Interior 20 100% courses DESN22081 IAD Design Studio 2 BA(H) Interior 60 100%	ework	This module further develops your learning from year 1 of two and three dimensional visual tools and the range of professional conventions used to communicate design intentions, to introduce orthographic drawing using specific CAD software and visualisation techniques using digital media. 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 languag 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 obtainment of a Professional Practice Placement This module extends the studio teaching developed within year one in order to engage with a range of building types and	seminars, workshop sessions,	Baden-Powell, C., Hetreed, J., Ross, A., 2017. Architect's pocket book [eBoo	Face to Face English Face to Face English	DESN22081 IAD Design Studio 2 DESN22080 Interior Architecture in Context 2 DESN22082 Technical Studies 2 DESN22064 Professional Studies Douglas Gittens	manuel.angelmacia@ntu.ac.uk k douglas.gittens@ntu.ac.uk;
DESN22080 Interior Arch in BA(H) Interior 20 100%	ework	sizes. The organisation and configuration of given spaces is developed through to detail specification with consideration give to structural, material, environmental and experiential issues. The projects also require you to integrate knowledge and skills from other modules in the execution of your design assignments. The 20 credit modules are designed to integrate into the main design studio project. This connectivity allows you to develop holistic approach, highlighting how knowledge from every modules contributes in 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. The module aims to develop your critical response to and knowledge of theories related to 20th century contemporary and	drawing and model making, study and site visits	Bell, V.B., Rand, P., 2006. Materials for design. New York: Princeton Archite	Face to Face English	& Design Communications 2 DESN22080 Interior Architecture in Context 2 DESN22082 Technical studies 2 DESN22081 IAD Design Studio 2 Harry Foley	+44 115 84 84158 Harry.Foley@ntu.ac.uk; +44
DESN22082 Technical Studies 2 BA(H) Interior 20 100% courses	Compulsory Full year 10	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 legacie. The module provides an important underpinning for the final year contextual studies and design thinking in studio & research projects. 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, to 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 political levels. It will also give you the opportunity to understand and apply regulatory issues and implications	Lectures, presentations, seminars, studio and workshop sessions, and may also include student and peer	Bell, V.B., Rand, P., 2014. Materials for design 2 [eBook] First edition. New Buxton, P.ed., 2018. Metric Handbook: Planning and Design Data [eBook]	Face to Face English	DESN20064 Professional Studies & Design Communication 2 DESN22082 Technical Studies 2 DESN10039 Interior Architecture in Context 1 DESN22081 IAD Design Studio 2 DESN22080 Interior Architecture in Context 2 DESN22064 Professional Studies & Design Communication 2	Harry.Foley@ntu.ac.uk; +44 115 84 82959
	ework/50 amination Compulsory Full year 10	and develop your ability to communicate technical design recommendations with your tutors, peer group and industry professionals The module introduces you to the principles and practice of a small/medium construction company, its behavioural management system and the operation of its projects.	tutorials.	Chudley, R., Greeno, R., 2016. Building construction handbook [eBook] 11t	Face to English Face	None Dr Mukesh Kashayp	Mukesh.kashayp@ntu.ac.uk
	ework	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 topi 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 Contract Administration is 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	lectures and seminars	Cooke, B., 2011. Construction practice. Oxford: Wiley-Blackwell.	Face to English Face to English Face to English Face to English	None Dave Jones None Dr Anthony Ward	anthony.ward@ntu.ac.uk
	Compulsory Full year 10	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. 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 wi	Lectures and tutorials	Edwards, Brian, d1944-, Edwards, Brian, Naboni, Emanuele, 2013. Green b	Face to English Face	None Clive Wright	clive.wright@ntu.ac.uk
CONM20025 Law BSc (H) Construction 20 50% Course	Compulsory Full year 10 ework/50 amination	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. 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 manager's duties in employment and business law. To encourage ownership of manager's duties and responsibilities you will be expected to undertake a more independent study approach to learning. One example of this	Lectures and Seminars	Emmitt, S., Gorse, C.A., Barry, R., 2014. Barry's advanced construction of be	Face to English Face	None Chris Coffey	chris.coffey@ntu.ac.uk
CONM20016 Sustainable Technology with Environmental Control CONM20013 Construction BSc (H) Quantity 20 100% Course Surveying & Course Course Course Course Surveying & Course Co	Compulsory Full year 10	approach is that you will receive key information in lectures and you will then undertake some independent reading and thinking about the material and cominars will be used to consolidate learning. This module aims to explore: The techniques of sustainability in the fields of building technology and environmental engineering. The provision of a satisfactory internal environment within building using both active and passive control methods. The material presented in this module will be supported be case studies and laboratory work. You will be encouraged to undertake independent research to enhance and consolidate your learning experience. The aim of this module is to explore the technological and philosophical aspects of modern	lectures, workshops and laboratory sessions	Orton, A., 2013. The Way We Build Now: Form, Scale and Technique [eBoo	Face to English Face to English	none Hua Zhong none Dave Jones	hua.zhong@ntu.ac.uk dave.jones@ntu.ac.uk
Technology Surveying & course Commercial Management	EWUI K	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.		Reid, Esmond, 2013. Understanding buildings: a multidisciplinary approact	r aue		

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CONM20014 Contract Admin: Control & Financ		C	50% Cor coursework/50 % examination	ompulsory	Full year 10	Contract Administration is 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			Face to Engl Face	ish	Dr Anthony Ward	anthony.ward@ntu.ac.uk
						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		Watts, A., 2014. Modern construction envelopes [eBook] Second edition.				
CONM20024 Cost Planning an	nd BSc (H) Quantity Surveying &	1	100% Cor	ompulsory	Full year 10	blocks of a relationship between a client and a contractor, and will form a daily part of a future professional career in This module aims to develop your understanding of how construction costs occur, your ability to prepare estimates of cost and to manage the occurrence of cost during the construction process.	lectures and seminars		Face to Engl	ish none	Dr Anthony Ward	anthony.ward@ntu.ac.uk
CONM20020 Measurement	Commercial Management BSc (H) Quantity			ompulsory	Full year 10	The ability to produce residual valuations, life cycle costing and cost plans is very important as a quantity surveyor. This module will cover most of the pre tender stage estimating techniques. The ability to measure quantities is a very important and much sought after skill for a quantity	lectures, seminars and	Watts, A., 2016. Modern Construction Handbook [eBook] 4th ed. Basel/Bo	Face to Engl	ish none	Nik Mustapha	nik.mustapha@ntu.ac.uk
COMM20020 IMeasurement	Surveying & Commercial Management	1	coursework	mpuisor y	ruii yeai 10	surveyor. This module will cover measurement of building works and civil engineering works on a wide variety of projects. The module is designed to demonstrate the fundamental principles involved with construction related measurement, the various principles and techniques associated with it,	workshops.	Woudhuysen, James, Abley, Ian, 2004. Why is construction so backward?	Face	isii lione	Nik Mustapha	mk.mustapna@ntu.ac.uk
CONM20025 Law	BSc (H) Quantity Surveying &	C	coursework/50	ompulsory	Full year 10	and to develop your understanding of these principles and your ability to apply them to real life projects. 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	n	Wild, C. et al., 2013. Smith & Keenan's English law: text and cases. 17th edition. / Charles Wild, Stuart Weinstein, Pearson.	Face to Engl	ish None	Chris Coffey	chris.coffey@ntu.ac.uk
	Commercial Management		% examination			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 manager's duties in		Richards, P., 2015. Law of contract Twelfth., Pearson. Murphy, J. et al., 2012. Street on torts 13th ed., Oxford: Oxford University Press. Stranks, J.W. & MyiLibrary, 2005. Health and safety law 5th ed.,				
CONM20016 Sustainable Technology with Environmental	BSc (H) Quantity Surveying & Commercial	1	100% Cor coursework	ompulsory	Full year 10	employment and business law. To encourage ownership of manager's duties and responsibilities you This module aims to explore: The techniques of sustainability in the fields of building technology and environmental engineering. The provision of a satisfactory internal environment within buildings using	lectures, workshops and laboratory sessions	Harlow: Pearson/Prentice Hall. Hall, K., 2008. The green building bible. Vol.1 4th ed., Llandysul: Green Building Press. Malina, Mike, Malina, Mike, author & ebrary, Inc, 2013. Delivering	Face to Engl Face	ish none	Hua Zhong	hua.zhong@ntu.ac.uk
Control	Management					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.		sustainable buildings [electronic resource]: an industry insider's view, Chichester: Wiley-Blackwell. Nicholls, R. & Hall, Keith, 2008. The green building bible. Vol. 2, Low energy design technical reference 4th ed., Llandysul: Green Building				
DESN22051 Const Practice & th Environment	he BEng(H) Civil Engineering	1	100% Cor coursework	ompulsory	Full year 10	The aim of the module is to improve your knowledge of practice within the construction industry. One of the attractions of construction is that every project poses unique challenges, so underlying engineering and management fundamentals need to be understood but applied appropriately to meet requirements. The Construction	discussion/seminar sessions	INSTITUTION OF CIVIL ENGINEERS, 2009. Civil Engineering Procedure. (6th	Face to Face Englis	h none	Richard Humphries	Richard.Humphries@ntu.ac.u k; +44 115 84 84364
						Practice and the Environment module is designed to build upon your appreciation of the construction industry and the roles and responsibilities that you may undertake during placement, upon graduation and as you progress in your career.						
DESN22052 Further Engineerin Math & Fluid Mechanic	ng BEng(H) Civil Engineering	6	60% Cor examination/40% coursework	ompulsory	Full year 10	To provide you with the mathematical and fluid mechanics knowledge and techniques required to support the quantitative aspects of the programme.		Anon, Referencing and plagiarism [online]. Nottingham Trent University. Asawa, G.L., ebrary, Inc, 2006. Laboratory work in hydraulic engineering [eBook]. New Delhi: New Age International (P) Ltd., Publishers. Chadwick, A.J., Morfett, J.C., Borthwick, M., 2013. Hydraulics in civil and environmental	Face to Face Englis	in		shatirah.akib@ntu.ac.uk
								engineering [eBook] Fifth edition. Boca Raton, Florida: CRC Press. Hamill, L., 2011. Understanding hydraulics [eBook] 3rd ed. Basingstoke: Palgrave Macmillan. James, G., 2015. Modern engineering mathematics [eBook] Fifth edition. Harlow, United		DESN10042 Engineering		
								Kingdom: Pearson Education. Kay, M., Kay, M., 2017. Practical hydraulics and water resources engineering [eBook] Third edition. New York, N.Y.: Routledge. Stroud, K.A., Booth, D.J., 2013. Engineering mathematics [eBook] Seventh edition.		DESN10042 Engineering Mathematics & Mechanics	Shatirah Akib	
								Basingstoke, Hampshire: Palgrave Macmillan. Taalman, L., Kohn, P., 2014. Calculus. New York: W.H. Freeman and Company.				
DESN22053 Ground Engineerin	ng BEng(H) Civil Engineering	1	50% Cor coursework/50%	ompulsory	Full year 10	To develop an appreciation of fundamental soil and geological properties, their measurement and testing allowing students to recognise and investigate ground related problems and hazards.	lectures, seminars	Barnes, G., 2016. Soil mechanics Fourth edition. Basingstoke, Hampshire: Palgrave Macmillan.	Face to Face Englis	h none	Rob Evans	robert.evans@ntu.ac.uk; +44 115 84 86568
			examination					Knappett, J., Craig, R.F., 2012. Craig's soil mechanics [eBook] 8th ed. Abingdon: Spon Press. Waltham, T., 2009. Foundations of engineering geology [eBook] 3rd ed. London: Spon Press.				
CIVE20201 Integration of Engineering Applications	BEng(H) Civil Engineering	l l	100% Cor coursework	ompulsory	Full year 10	To introduce you to new and emerging technologies as used in the construction industry in relation to Engineering Surveying, CAD and BIM To enable you to further develop an appreciation of the importance of teamwork, communication and time management in the context of civil engineering projects by participating fully in, and contributing to, the production of a civil engineering		Engineering Surveying Schofield W & Breach M (2007) Engineering Surveying, 6th Edition, Butterworth Heinemann Uren J (2010) Surveying for Engineers 5th Edition, Palgrave MacMillan	Face to Face Englis	h none	Phil Sargent	phil.sargent@ntu.ac.uk; +44 115 84 82609
						related scheme from an initial design brief. Using simulated work situations through a group project run with final year students the module will also allow for the development of wider skills that will be of value in the world of work.		Sadgrove B & Danson E (2007) Setting Out Procedures for the Modern Built Environment, CIRIA AutoCAD/BIM				
CIVE20202 Structural Analysis Design & Detailing		1	50% Cor examination/50% coursework	ompulsory	Full year 20	To provide you with an introduction to the qualitative and quantitative elastic and plastic behaviour of statically indeterminate skeletal structures. To provide an introduction to the structural behaviour of elements in reinforced concrete and steelwork and their design and detailing to the relevant codes of practice. To introduce you to new and emerging technologies as used in the construction industry and to develop the principles	activities	P Bhatt & H M Nelson (2005) Structures, Prentice Hall. Extracts from BS for students of Structural Design PP 7312:2002 Chanakya Arya (2009) Design of Structural Elements, 3rd Edition, Spon press	Face to Face Englis	DESN10044 Introduction		hynda.klalib@ntu.ac.uk; +44 115 84 84873
						underlying the construction of the superstructure of buildings for commercial, industrial and institutional use and of the technological and legislative influences upon building design and construction methods.		D Brohn (2005) Understanding Structural Analysis, Hodder Arnold. D Johnson (2004) Linear Analysis of Skeletal Structures, Thomas Telford. S S J Moy (1996) Plastic Methods for Steel and Concrete Structures, Macmillan. T H G Megson (2005), Structural and Stress Analysis, Arnold.		to Structural Analysis & Design	Hynda Klalib	
DESN22051 Const Practice & the Environ	he BSc(H) Civil Engineering	1	100% Cor coursework	ompulsory	Full year 10	The aim of the module is to improve your knowledge of practice within the construction industry. One of the attractions of construction is that every project poses unique challenges, so underlying engineering and management fundamentals need to be understood but applied appropriately to meet requirements. The Construction	discussion/seminar sessions	INSTITUTION OF CIVIL ENGINEERS, 2009. Civil Engineering Procedure. (6th Edition). London: Telford.	Face to Face Englis	none none	Richard Humphries	Richard.Humphries@ntu.ac.u k; +44 115 84 84364
DECNISSORS	og De-Will St. T.	20	509/		D.11 -	Practice and the Environment module is designed to build upon your appreciation of the construction industry and the roles and responsibilities that you may undertake during placement, upon graduation and as you progress in your career. To develop an appreciation of fundamental soil and geological properties, their measurement and testing allowing students.		Rarnes G. 2016 Sail mashesis Facult. III.	Face to Face Englis	ih.	Poh Evers	rahart au
DESN22053 Ground Engineerin	ng BSc(H) Civil Engineering	c	50% Cor coursework/50% examination	ompulsory	Full year 10	To develop an appreciation of fundamental soil and geological properties, their measurement and testing allowing students to recognise and investigate ground related problems and hazards.	and laboratory sessions.	Barnes, G., 2016. Soil mechanics Fourth edition. Basingstoke, Hampshire: Palgrave Macmillan. Knappett, J., Craig, R.F., 2012. Craig's soil mechanics [eBook] 8th ed. Abingdon: Spon Press.	Face to Face Englis	none	Rob Evans	robert.evans@ntu.ac.uk; +44 115 84 86568
DESN22057 Engineering Skills	BSc(H) Civil Engineering	1	100% Corcoursework	ompulsory	Full year 10	To further develop your information technology and computing skills relevant to the field of civil engineering To develop and consolidate your knowledge and skills in the use of engineering surveying instrumentation and associated field and office	Lectures seminars and workshops	Waltham, T., 2009. Foundations of engineering geology [eBook] 3rd ed. London: Spon Press. Information Technology B.S. Gottfried (c2010), Spreadsheet Tools for Engineers using Excel ® 2007,	Face to Face Englis	h none	Phil Sargent	phil.sargent@ntu.ac.uk; +44 115 84 82609
						procedures. To introduce new and emerging technologies as used in the construction industry. Using simulated work situations to allow for the development of wider skills that will be of value in the world of work.		McGraw-Hill R.W. Larson (c2009), Engineering with Excel, 3rd Ed, Prentice Hall A. Yarwood (2009), Introduction to AutoCAD 2010, Newnes G. Omura (2009), Introducing AutoCAD 2010 and AutoCAD LT 2010, (e-book),				
DESN22058 Further Engineerin Mathematic	ng BSc(H) Civil Engineering	l l	100% Cor examination	ompulsory	Full year 10	To develop your mathematical and statistical skills appropriate for civil engineering at IEng level. To improve your confidence in the application of mathematical skills in typical civil engineering tasks.	Lectures and tutorials	Stroud, K A, Booth, Dexter J, (2007) Engineering Mathematics (6th edition), Palgrave Macmillan	Face to Face Englis	h none	Syed Mohyuddin	syed.mohyuddin@ntu.ac.uk; +44 115 84 82271
	ering BSc(H) Civil Engineering to BSc(H) Civil Engineering	ϵ	examination/40%		Full year 10 Full year 10	The module aims to provide you with an introduction into the structural behaviour of elements in reinforced concrete and steelwork and their design relative to the relevant guidance In this module you will explore a range of techniques, materials, equipment and processes that are used in the design and	Lectures, Seminars, Tutorials, laboratories Lectures, seminars, site visits	Seward, Derek, (2009) Understanding Structures: analysis, materials, design (4th British Standards BS5950-1:2000 Structural Use of Steelwork in building – Part 1: Code of practice for Arya, C. (2009). Design of structural elements: concrete, steelwork, masonry and	Face to Face Englis		Hynda Klalib David Russhard	hynda.klalib@ntu.ac.uk; +44 115 84 84873 david.russhard@ntu.ac.uk;
Civil Eng		l l	coursework			construction of civil engineering projects, in the UK and in other countries, to meet stakeholder, client and end user requirements. Site and project constraints will initially be considered on a project, before evaluating possible solutions in terms of efficiency cost, practicality, aesthetics, risk, time, quality, safety, the environment and sustainability.		timber designs to British standards and Eurocodes. London: Spon press. Audus, I., Charles, P., Evans, S., & Construction Industry Research and				+44 115 84 82491
						Consideration will also be given to how components fix together, and in what sequence, all within the relevant regulatory controls. Through a combination of interactive lectures and seminars, and site visits, you will have the opportunity to examine a range	÷	Information Association. (2010). Environmental good practice on site. London: CIRIA. Bhatt, P., MacGinley, T. J., Choo, B. S. (2014). Reinforced concrete design to				
						of techniques and technologies which, supplemented by your own study and research, will allow you to effectively propose and evaluate a range of possible solutions. The aim of this module is for you to understand construction technologies, as applied to a wide range of civil engineering work.		eurocodes: design theory and examples. 4th Ed. Boca Raton: CRC Press. Bielby, S., Gilbertson, A. & Construction Industry Research and Information Association. (2008). Site safety handbook. London: CIRIA.				
PROD20001 Professional Practi	cice BSc(H) Product Design SW/FT BA (H) Product Design		100% Cor coursework	ompulsory	Half year 30	You will be introduced to and taught the following subjects: . Design Processes and Practices . Design, Product and Quality Management and Marketing	Industry-based design projects, briefings, context and process workshops, critiques and	Best, K (2015) Design Management: Managing Design Strategy, Process and Implementation. Ashby M and Johnson K (2014) Materials and Design Butterworth Heinemann	Face to Face Englis	PROD10001 The Developing Product Designer (BA) PROD10002 Applied Product	lan Campbell-Cole/ Rebecca Gamble	ian.campbellcole@ntu.ac.uk +44 115 84 84187 rebecca.gamble@ntu.ac.uk +44
	SW/FT BA (H) Furniture & Product Design		40%/30%/30%			 . Management definitions and tools, . Relationships between the designer, client and manufacturer, . Methods of effectively working in a team, . Industry-led projects 	reflective sessions, lectures, guest programme, and contextual studies lectures, contextual workshops and seminar support,	Parsons T (2009) Thinking: Objects - Contemporary Approaches to Product Design AVA Academia Eissen K and Steur R (2013) Sketching drawing techniques for Product Designers Bis Publishers		Design Practice (BA) PROD10003 Design Fundamentals (All) PROD10004 The Developing		115 84 82146
						. Portfolio Building and Industry Skills . Advanced communication techniques . Career opportunities;	digital communication and core skills seminars, materials, processes and technology lectures	Perkins S (2010) Talent is Not Enough: Business Secrets for Designers New Riders Lefteri C (2012) Making It: Manufacturing Techniques for Product Design Laurence King Laurel B Design Research: Methods and Perspectives MIT Press		Furniture & Product Designer (FPD) PROD10005 Applied Furniture &		
						 . Business awareness and entrepreneurship; . Project management techniques and methods. . Preparation for dissertation/thesis Where appropriate content developed by the Placement Office will be included to assist students looking to undertake an 	and workshops	McCormack, L (2005) Designers are wankers About Face publishing Jobber D & Fahy J (2012) Foundations of Marketing McGraw Hill		Product Design Practice Practice (FPD) PROD10006 The Developing Design Technologist (BSc)		
						industrial placement				PROD10007 Applied Design Technologist (BSc)		
PROD20002 Product Design: Context & Identity	BA (H) Product Design SW/FT		100% Cor coursework	ompulsory	Half year 30	You will be introduced to and taught the following subjects: . Design Processes and Practices . Design cultures and global influencers	and process workshops, critiques	· ·	Face to Face Englis	PROD20001 Professional Practice	Grant Baker	grant.baker@ntu.ac.uk +44 115 84 82544
						. Sustainable design . Ergonomics and human factors . User centred design and user experience	guest programme, and contextual studies lectures, contextual workshops and seminar support,	Parsons T (2009) Thinking: Objects - Contemporary Approaches to Product Design AVA Academia Eissen K and Steur R (2013) Sketching drawing techniques for Product Designers Bis Publishers				
						 Contemporary and historic designers' practices Further preparation for dissertation/thesis Relationships between the designer, client and users Methods of effectively working in a team and individually 	processes and technology lectures and workshops.	Perkins S (2010) Talent is Not Enough: Business Secrets for Designers New Riders Lefteri C (2012) Making It: Manufacturing Techniques for Product Design Laurence King Laurel B Design Research: Methods and Perspectives MIT Press				
								McCormack, L (2005) Designers are wankers About Face publishing Jobber D & Fahy J (2012) Foundations of Marketing McGraw Hill				
I	nct BA(H) Furniture & Product Design SW/FT		100% Cor	ompulsory	Half year 30	You will be introduced to and taught the following subjects . Design Processes and Practices		Postell, J. Postell J. (2012) Furniture Design John Wiley and Sons Lidwell W, Holden K, Butler J (2010) Universal Principles of Design Rockport	Face to Face Englis	PROD20001 Professional Practice	Fiona Davidson	fiona.davidson@ntu.ac.uk +44 115 84 82297
Identity						Design cultures and global influencers Sustainable design Ergonomics and human factors User centred design and user experience	briefings, context and process workshops, critiques and reflective sessions, lectures; guest	Sparke P (2013) An introduction to design and culture Routledge Hudson J (2011) Process 50 Product Designs from Concept to Manufacture Laurence King				
						. Contemporary and historic designers' practices . Further preparation for dissertation/thesis . Relationships between the designer, client and users,	studies lectures, contextual workshops and seminar support, digital communication and core	Buxton B (2007) Sketching User Experiences: Getting the Design Right and the Right Design Morgan Kaufmann				
						. Methods of effectively working in a team and individually	skills seminars, materials, processes and technology lectures and workshops.					
PROD20004 Product Design: Applied Materials 8	BSc (H) Product Design & SW/FT		100% Corcoursework	ompulsory	Half year 30	You will be introduced to and taught the following subjects . Design Processes and Practices	Teaching and learning will be delivered through design projects,	Ashby, Shercliffe, Cebon (2013) Materials: engineering, science, processing and design. Butterworth-Heinemann	Face to Face Englis	PROD20001 Professional Practice	Joe Stewart	joseph.stewart@ntu.ac.uk +44 115 84 82903
Technology		5	50%/25%/25%			 . Mechanisms, electronic and mechatronic systems . Programming and modelling to develop and test working prototypes. 	briefings, context and process workshops, critiques and	Basu, R (2011) Implementing Six Sigma and Lean: A practical guide to tools and				
						. Advanced Materials; selection, evaluation and suitability in design . Machinery relative to resistant materials and production		techniques. Routledge Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press; Bolton W, (2008) Mechatronics: A Multidisciplinary Approach, Prentice Hall.				
								Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press;				
						 . Machinery relative to resistant materials and production . Tooling . Systematic approaches to the selection of materials . Understanding failure and methods of failure prevention in products, 	programme, and contextual studies lectures, contextual workshops and seminar support, digital communication and core skills seminars, materials,	Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press; Bolton W, (2008) Mechatronics: A Multidisciplinary Approach, Prentice Hall. Hahn B, (2017) Essential MATLAB for engineers and scientists Wiley Groover M.P. (2013) Fundamentals of Modern Manufacturing: materials, processes and systems John Wiley & Sons				
PRMD20028 Building Design						 . Machinery relative to resistant materials and production . Tooling . Systematic approaches to the selection of materials . Understanding failure and methods of failure prevention in products, . Designing for manufacture, assembly and the environment . Innovative use of processes and materials property enhancement through processing. . Software tools to aid the selection of materials and processes for products and to promote eco-informed choices. . Manufacturing systems pertinent to design, including concurrent engineering, flexible manufacture, automation and 	programme, and contextual studies lectures, contextual workshops and seminar support, digital communication and core skills seminars, materials, processes and technology lectures	Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press; Bolton W, (2008) Mechatronics: A Multidisciplinary Approach, Prentice Hall. Hahn B, (2017) Essential MATLAB for engineers and scientists Wiley Groover M.P. (2013) Fundamentals of Modern Manufacturing: materials, processes and systems John Wiley & Sons Scherz P & Monk S (2013) Practical Electronics for Inventors Tab Electronics. Wilson S, 2010, Art + Science Now: How scientific research and technological innovation				
Project Project	BSc(H) Building Surveying SW	1	100% Cor coursework	ompulsory	Full year 20	. Machinery relative to resistant materials and production . Tooling . Systematic approaches to the selection of materials . Understanding failure and methods of failure prevention in products, . Designing for manufacture, assembly and the environment . Innovative use of processes and materials property enhancement through processing Software tools to aid the selection of materials and processes for products and to promote eco-informed choices Manufacturing systems pertinent to design, including concurrent engineering, flexible manufacture, automation and assembly Emerging materials and their application to products within specific fields, e.g. packaging, automotive, aerospace Current and emerging manufacturing processes and their potential to meet design solutions. Building materials, construction methods, environmental services, Construction Health & Safety, Introduction to Building Regulations and Statutory Inspection, Specification writing, Supervision of	programme, and contextual studies lectures, contextual workshops and seminar support, digital communication and core skills seminars, materials, processes and technology lectures and workshops This module will be delivered using a range of	Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press; Bolton W, (2008) Mechatronics: A Multidisciplinary Approach, Prentice Hall. Hahn B, (2017) Essential MATLAB for engineers and scientists Wiley Groover M.P. (2013) Fundamentals of Modern Manufacturing: materials, processes and systems John Wiley & Sons Scherz P & Monk S (2013) Practical Electronics for Inventors Tab Electronics. Wilson S, 2010, Art + Science Now: How scientific research and technological innovation are becoming key to 21st-century aesthetics, Thames & Hudson. Chudley, R. & Greeno, R. 2008. Building Construction Handbook: Incorporating Current Building and Construction Regulations. Oxford:	Face to Engl Face	ish None	Jim sallis	jim.sallis@ntu.ac.uk
PRMD20023 Contract	Surveying SW BSc(H) Building	20 5	coursework 50% Cor	ompulsory	Full year 20	. Machinery relative to resistant materials and production . Tooling . Systematic approaches to the selection of materials . Understanding failure and methods of failure prevention in products, . Designing for manufacture, assembly and the environment . Innovative use of processes and materials property enhancement through processing Software tools to aid the selection of materials and processes for products and to promote eco-informed choices Manufacturing systems pertinent to design, including concurrent engineering, flexible manufacture, automation and assembly Emerging materials and their application to products within specific fields, e.g. packaging, automotive, aerospace Current and emerging manufacturing processes and their potential to meet design solutions. Building materials, construction methods, environmental services, Construction Health & Safety, Introduction to Building Regulations and Statutory Inspection, Specification writing, Supervision of Works and Quality Control, Building Surveys and Reports, Architectural Communication Technology (digital and modelling communication methods) and presentation techniques, Problem identification and solving. The implications and application of the legal principles of contract and negligence within the	programme, and contextual studies lectures, contextual workshops and seminar support, digital communication and core skills seminars, materials, processes and technology lectures and workshops This module will be delivered using a range of methods which are intended to enable you to gain a level of This module will be	Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press; Bolton W, (2008) Mechatronics: A Multidisciplinary Approach, Prentice Hall. Hahn B, (2017) Essential MATLAB for engineers and scientists Wiley Groover M.P. (2013) Fundamentals of Modern Manufacturing: materials, processes and systems John Wiley & Sons Scherz P & Monk S (2013) Practical Electronics for Inventors Tab Electronics. Wilson S, 2010, Art + Science Now: How scientific research and technological innovation are becoming key to 21st-century aesthetics, Thames & Hudson. Chudley, R. & Greeno, R. 2008. Building Construction Handbook: Incorporating Current Building and Construction Regulations. Oxford: Butterworth Heinemann Emmitt, S. & Gorse, S. 2006 Barry's Advanced Construction of Buildings. Oxford: Blackwell Publishing Ltd The following is the latest information at the time of approval of this	Face to Engl		Jim sallis Danny Medcalf	jim.sallis@ntu.ac.uk danny.medcalf@ntu.ac.uk
PRMD20023 Contract Administration & Procurement	Surveying SW BSc(H) Building Surveying SW	20 5	50% examination/50 % coursework	ompulsory	Full year 10	. Machinery relative to resistant materials and production . Tooling . Systematic approaches to the selection of materials . Understanding failure and methods of failure prevention in products, . Designing for manufacture, assembly and the environment . Innovative use of processes and materials property enhancement through processing Software tools to aid the selection of materials and processes for products and to promote eco-informed choices Manufacturing systems pertinent to design, including concurrent engineering, flexible manufacture, automation and assembly Emerging materials and their application to products within specific fields, e.g. packaging, automotive, aerospace Current and emerging manufacturing processes and their potential to meet design solutions. Building materials, construction methods, environmental services, Construction Health & Safety, Introduction to Building Regulations and Statutory Inspection, Specification writing, Supervision of Works and Quality Control, Building Surveys and Reports, Architectural Communication Technology (digital and modelling communication methods) and presentation techniques, Problem identification and solving. The implications and application of the legal principles of contract and negligence within the construction industry. Landlord and Tenant. Rights and obligations of parties under standard forms of contract relating to the primary administration and control of building and civil engineering projects. The role of the Lead Consultant/Contract Administrator during pre and post contract stages of a construction project. Construction Procurement strategies & options. Construction Design and	programme, and contextual studies lectures, contextual workshops and seminar support, digital communication and core skills seminars, materials, processes and technology lectures and workshops This module will be delivered using a range of methods which are intended to enable you to gain a level of This module will be delivered using a range of methods which are intended to enable you to gain a level of	Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press; Bolton W, (2008) Mechatronics: A Multidisciplinary Approach, Prentice Hall. Hahn B, (2017) Essential MATLAB for engineers and scientists Wiley Groover M.P. (2013) Fundamentals of Modern Manufacturing: materials, processes and systems John Wiley & Sons Scherz P & Monk S (2013) Practical Electronics for Inventors Tab Electronics. Wilson S, 2010, Art + Science Now: How scientific research and technological innovation are becoming key to 21st-century aesthetics, Thames & Hudson. Chudley, R. & Greeno, R. 2008. Building Construction Handbook: Incorporating Current Building and Construction Regulations. Oxford: Butterworth Heinemann Emmitt, S. & Gorse, S. 2006 Barry's Advanced Construction of Buildings. Oxford: Blackwell Publishing Ltd The following is the latest information at the time of approval of this module specification. Students must check every year to ensure that the latest editions of the texts are consulted: RICS Building Surveying Pathway Guide, Procurement, tendering and contract administration (Aqua group), RICS Contract Administration Practice Note, JCT -	Face to Engl	ish none	Danny Medcalf	danny.medcalf@ntu.ac.uk
PRMD20023 Contract Administration &	Surveying SW BSc(H) Building Surveying SW	20 5	50% examination/50 % coursework			. Machinery relative to resistant materials and production . Tooling . Systematic approaches to the selection of materials . Understanding failure and methods of failure prevention in products, . Designing for manufacture, assembly and the environment . Innovative use of processes and materials property enhancement through processing Software tools to aid the selection of materials and processes for products and to promote eco-informed choices Manufacturing systems pertinent to design, including concurrent engineering, flexible manufacture, automation and assembly Emerging materials and their application to products within specific fields, e.g. packaging, automotive, aerospace Current and emerging manufacturing processes and their potential to meet design solutions. Building materials, construction methods, environmental services, Construction Health & Safety, Introduction to Building Regulations and Statutory Inspection, Specification writing, Supervision of Works and Quality Control, Building Surveys and Reports, Architectural Communication Technology (digital and modelling communication methods) and presentation techniques, Problem identification and solving. The implications and application of the legal principles of contract and negligence within the construction industry. Landlord and Tenant. Rights and obligations of parties under standard forms of contract relating to the primary administration and control of building and civil engineering projects. The role of the Lead Consultant/Contract Administrator during pre and post contract stages of a construction project. Construction Procurement strategies & options. Construction Design and University procedures for administering placements and graduate employment. □ Curriculum Vitae preparation. □ Writing covering letters and completing application forms. □ Interview techniques and effective preparation.	programme, and contextual studies lectures, contextual workshops and seminar support, digital communication and core skills seminars, materials, processes and technology lectures and workshops This module will be delivered using a range of methods which are intended to enable you to gain a level of This module will be delivered using a range of methods which are intended to enable you to gain a level of This module will be delivered using a range of methods which are intended to enable you to gain a level of This module will be delivered using a range of methods which are intended to enable you to	Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press; Bolton W, (2008) Mechatronics: A Multidisciplinary Approach, Prentice Hall. Hahn B, (2017) Essential MATLAB for engineers and scientists Wiley Groover M.P. (2013) Fundamentals of Modern Manufacturing: materials, processes and systems John Wiley & Sons Scherz P & Monk S (2013) Practical Electronics for Inventors Tab Electronics. Wilson S, 2010, Art + Science Now: How scientific research and technological innovation are becoming key to 21st-century aesthetics, Thames & Hudson. Chudley, R. & Greeno, R. 2008. Building Construction Handbook: Incorporating Current Building and Construction Regulations. Oxford: Butterworth Heinemann Emmitt, S. & Gorse, S. 2006 Barry's Advanced Construction of Buildings. Oxford: Blackwell Publishing Ltd The following is the latest information at the time of approval of this module specification. Students must check every year to ensure that the latest editions of the texts are consulted: RICS Building Surveying Pathway Guide, Procurement, tendering and contract administration (Aqua group), RICS Contract Administration Practice Note, JCT - Hurst, C, 2010, APC 2010-11: Your Practical Guide to Success, RICS Books ISBN 9781842196045. Kaye, F, 2007, Snakes and ladders for Property Professionals: how to be a smooth operator in the property industry, EG Books, ISBN	Face to Engl	ish none		
PRMD20023 Contract Administration & Procurement PRMD20019 Employability & Commercial	BSc(H) Building Surveying SW BSc(H) Building	20 5	50% examination/50% coursework	ompulsory	Full year 10	. Machinery relative to resistant materials and production . Tooling . Systematic approaches to the selection of materials . Understanding failure and methods of failure prevention in products, . Designing for manufacture, assembly and the environment . Innovative use of processes and materials property enhancement through processing Software tools to aid the selection of materials and processes for products and to promote eco-informed choices Manufacturing systems pertinent to design, including concurrent engineering, flexible manufacture, automation and assembly Emerging materials and their application to products within specific fields, e.g. packaging, automotive, aerospace Current and emerging manufacturing processes and their potential to meet design solutions. Building materials, construction methods, environmental services, Construction Health & Safety, Introduction to Building Regulations and Statutory Inspection, Specification writing, Supervision of Works and Quality Control, Building Surveys and Reports, Architectural Communication Technology (digital and modelling communication methods) and presentation techniques, Problem identification and solving. The implications and application of the legal principles of contract and negligence within the construction industry. Landlord and Tenant. Rights and obligations of parties under standard forms of contract relating to the primary administration and control of building and civil engineering projects. The role of the Lead Consultant/Contract Administrator during pre and post contract stages of a construction project. Construction Procurement strategies & options. Construction Design and University procedures for administering placements and graduate employment. Curriculum Vitae preparation. Writing covering letters and completing application forms.	programme, and contextual studies lectures, contextual workshops and seminar support, digital communication and core skills seminars, materials, processes and technology lectures and workshops This module will be delivered using a range of methods which are intended to enable you to gain a level of This module will be delivered using a range of methods which are intended to enable you to gain a level of This module will be delivered using a range of methods which are intended to enable you to gain a level of 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	Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press; Bolton W, (2008) Mechatronics: A Multidisciplinary Approach, Prentice Hall. Hahn B, (2017) Essential MATLAB for engineers and scientists Wiley Groover M.P. (2013) Fundamentals of Modern Manufacturing: materials, processes and systems John Wiley & Sons Scherz P & Monk S (2013) Practical Electronics for Inventors Tab Electronics. Wilson S, 2010, Art + Science Now: How scientific research and technological innovation are becoming key to 21st-century aesthetics, Thames & Hudson. Chudley, R. & Greeno, R. 2008. Building Construction Handbook: Incorporating Current Building and Construction Regulations. Oxford: Butterworth Heinemann Emmitt, S. & Gorse, S. 2006 Barry's Advanced Construction of Buildings. Oxford: Blackwell Publishing Ltd The following is the latest information at the time of approval of this module specification. Students must check every year to ensure that the latest editions of the texts are consulted: RICS Building Surveying Pathway Guide, Procurement, tendering and contract administration (Aqua group), RICS Contract Administration Practice Note, JCT - Hurst, C, 2010, APC 2010-11: Your Practical Guide to Success, RICS Books ISBN 9781842196045. Kaye, F, 2007, Snakes and ladders for Property Professionals: how to be	Face to Engl Face to Engl Face to Engl	ish none	Danny Medcalf	danny.medcalf@ntu.ac.uk
PRMD20023 Contract Administration & Procurement PRMD20019 Employability & Commercial	BSc(H) Building Surveying SW BSc(H) Building Surveying SW	20 5	coursework 50% examination/50 % coursework 100% coursework	ompulsory	Full year 10	. Machinery relative to resistant materials and production . Tooling . Systematic approaches to the selection of materials . Understanding failure and methods of failure prevention in products, . Designing for manufacture, assembly and the environment . Innovative use of processes and materials property enhancement through processing Software tools to aid the selection of materials and processes for products and to promote eco-informed choices Manufacturing systems pertinent to design, including concurrent engineering, flexible manufacture, automation and assembly Emerging materials and their application to products within specific fields, e.g. packaging, automotive, aerospace Current and emerging manufacturing processes and their potential to meet design solutions. Building materials, construction methods, environmental services, Construction Health & Safety, Introduction to Building Regulations and Statutory Inspection, Specification writing, Supervision of Works and Quality Control, Building Surveys and Reports, Architectural Communication Technology (digital and modelling communication methods) and presentation techniques, Problem identification and solving. The implications and application of the legal principles of contract and negligence within the construction industry. Landlord and Tenant. Rights and obligations of parties under standard forms of contract relating to the primary administration and control of building and civil engineering projects. The role of the Lead Consultant/Contract Administrator during pre and post contract stages of a construction project. Construction Procurement strategies & options. Construction Design and University procedures for administering placements and graduate employment. Curriculum Vitae preparation. Psychometric testing. Personal presentation skills and body language. Business organisation and structures, reading company financial reports, SWOT analysis, competition analysis. Effective purpose and the diagnosis of cracking Durability of	programme, and contextual studies lectures, contextual workshops and seminar support, digital communication and core skills seminars, materials, processes and technology lectures and workshops This module will be delivered using a range of methods which are intended to enable you to gain a level of This module will be delivered using a range of methods which are intended to enable you to gain a level of This module will be delivered using a range of methods which are intended to enable you to gain a level of 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. This module will be delivered using a range of methods which are	Horowitz P & Hill W (2015) The Art of Electronics. Cambridge University Press; Bolton W, (2008) Mechatronics: A Multidisciplinary Approach, Prentice Hall. Hahn B, (2017) Essential MATLAB for engineers and scientists Wiley Groover M.P. (2013) Fundamentals of Modern Manufacturing: materials, processes and systems John Wiley & Sons Scherz P & Monk S (2013) Practical Electronics for Inventors Tab Electronics. Wilson S, 2010, Art + Science Now: How scientific research and technological innovation are becoming key to 21st-century aesthetics, Thames & Hudson. Chudley, R. & Greeno, R. 2008. Building Construction Handbook: Incorporating Current Building and Construction Regulations. Oxford: Butterworth Heinemann Emmitt, S. & Gorse, S. 2006 Barry's Advanced Construction of Buildings. Oxford: Blackwell Publishing Ltd The following is the latest information at the time of approval of this module specification. Students must check every year to ensure that the latest editions of the texts are consulted: RICS Building Surveying Pathway Guide, Procurement, tendering and contract administration (Aqua group), RICS Contract Administration Practice Note, JCT - Hurst, C, 2010, APC 2010-11: Your Practical Guide to Success, RICS Books ISBN 9781842196045. Kaye, F, 2007, Snakes and ladders for Property Professionals: how to be a smooth operator in the property industry, EG Books, ISBN 9780728205031. Adamson, R and Soule, M, 2009, Tough Interview Questions and How to Answer them, Which?, ISBN 97818449000695. Byron, M, 2010, The Graduate Psychometric Test Workbook, 2nd Edition Konan Page ISBN 97818449000695. Byron, M, 2010, The Graduate Psychometric Test Workbook, 2nd Edition Konan Page ISBN 978074454050. Al Nagelm H, Durka, F, Morgan, W, and Williams, D, 2010, Structural Mechanics, London: Pearson Education Breach, M, 2011, Fundamental Maths For Engineering and Science,	Face to Engl Face to Engl Face to Engl	ish none ish none	Danny Medcalf	danny.medcalf@ntu.ac.uk
PRMD20023 Contract Administration & Procurement PRMD20019 Employability & Commercial Awareness	BSc(H) Building Surveying SW BSc(H) Building Surveying SW BSc(H) Building Surveying SW	20 5	coursework 50% examination/50 % coursework 100% coursework Core 50% examination/50	ompulsory	Full year 10 Full Year 10	. Machinery relative to resistant materials and production . Tooling . Systematic approaches to the selection of materials . Understanding failure and methods of failure prevention in products, . Designing for manufacture, assembly and the environment . 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The implications and application of the legal principles of contract and negligence within the construction industry. Landlord and Tenant. Rights and obligations of parties under standard forms of contract relating to the primary administration and control of building and civil engineering projects. The role of the Lead Consultant/Contract Administrator during pre and post contract stages of a construction project. Construction Procurement strategies & options. Construction Design and University procedures for administering placements and graduate employment. Curriculum Vitae preparation. Writing covering letters and completing application forms. Interview techniques and effective preparation. Psychometric testing. Personal presentation skills and body language. 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Morgan, W. and Williams, D, 2010, Structural Mechanics, London: Plack Psychometric Test Workbook. 2nd Al Bagelim H, Durka, F. Morgan, W. and Williams, D, 2010, Structural Mechanics, London: Plack Psychometric Test Workbook. 2nd Seince, Basingstoke: Paragrave Macmillian Linchies.	Face to Engl	ish none	Danny Medcalf Danny Medcalf Jim sallis Danny Medcalf Ian Seymour Paul Collins Keith Agar	danny.medcalf@ntu.ac.uk danny.medcalf@ntu.ac.uk jim.sallis@ntu.ac.uk ian.seymour@ntu.ac.uk paul.collins@ntu.ac.uk keith.agar@ntu.ac.uk

PRMD20013	Property Development: Principles & Practice	SSc(H) Real Estate SW 20	100% coursework	Compulsory	Full year 10	The module contains the following key components: • The property development process • Applied aspects of land law: freehold and leasehold, easements, positive and restrictive covenants,	This module will be delivered using a range of methods which are	Reed, R. and Sims, S. (2015) <i>Developing Property Sustainably</i> , Oxon: Routledge Havard, T. (2014) Financial Feasibility Studies for Property	Face to Face	English	none	Stephanie Latham	stephanie.latham@ntu.ac.uk
						nuisance • Aspects of the planning, site appraisal and design process, including sustainability principles • Introduction to mapping, site planning and layout, services and infrastructure provision • Development appraisal including viability and risk analysis • Financing property development	intended to enable	Development: Theory and Practice, Oxon: Routledge Wood, D. (2011) Law and the Built Environment, second edition: Chichester: Wiley-Blackwell.					
PRMD20021	Valuation	SSc(H) Real Estate SW 20	100% coursework	Compulsory	Full year 10	The module covers the following principal areas of study: Principles and methods of property valuation for different purposes. Different interests in property and property types and characteristics and how these are taken into account in the valuation process. Valuation methods relating to development and investment property. The use of commercial valuation software packages The purpose, nature and application of national and international property valuation standards to property valuation practice.	methods which are intended to enable you to gain a level of understanding in the subject area. The range of	☐ RICS., 1997 Commercial Investment Property: Valuation Methods, An Information Paper, May, London: RICS	Face to Face	English	none	Rebecca Goodall	rebecca.goodall@ntu.ac.uk
PRMD20022	Real Estate Economics	SSc(H) Real Estate SW 20	100% coursework	Compulsory	Full year 10	 Microeconomics and property Macroeconomics and the property market Economic and property cycles Different property use types such as offices and industrial Economic and property market research and analysis Government intervention and its relevance to the property market Institutional/political frameworks of regional economic policy and policy makers 	methods which are intended to enable you to gain a level of understanding in the subject area. The range of	Sloman, J., Garrett, D., 2016, Essentials of Economics, Harlow: Pearsor Ball, M., 2014, Rebuilding construction: economic change in the British construction industry, Oxon: Routledge Jowsey, E., 2011 Real Estate Economics, First Edition, Palgrave Macmillan, Hampshire Myers, D., 2011 Economics & Property, Third Edition, EG Books, London Sloman, J., and Garratt, D. 2010 Essentials of Economics, Fifth Edition, Harlow, Essex: Pearson Education	Face	English	none	Dr Alla Koblyakova	Alla.kobyakova
PRMD20020	Property Management & Agency	SSC(H) Real Estate SW 40	50% examination/50% coursework	Compulsory	Full year 20	The module contains the following principal components: The history and development of estate practices in the UK and Continental Europe Clients authority, confidentiality, obligations Property inspection for agency and property management purposes Codes of conduct and regulatory controls in the agency and property management environments Principles of estate management with particular emphasis on commercial property. Structures and procedures in real estate management practice in the public and private sectors An introduction to property agency practice and procedures Comparison of residential and commercial agency Acquisitions and disposals by private treaty and competitive methods Sales and lettings procedures and practice, types of agency, particulars of sale Tenant selection, tenant mix and the importance of covenant strength Property management compared to Asset and Portfolio Management in the UK and wider field. Aims and objectives of each role Traditional modern UK and European leases, form, content, enforcement, management, notices and alienation. Operation and interpretation of lease clauses. Dilapidations and meaning of "repair", schedules of condition and yielding up Rent collection; remedies for default for non-payment of rent or breach of covenant Procedures for surrender and renewal of leases. Statutory protection of commercial and residential leases Procedures for tenants improvements and compensation Operation of service charges, procedures, best practice, apportionment, collection, records and accounts, law and dispute resolution Operation of rent reviews, procedures, negotiation and dispute resolution. Information technology and computer use in the real estate environment. European traditions and cultures and real estate, occupation and tenure of real property in the UK and Europe. Statutory valuations including local and national taxation, and compulsory purchase.	methods which are intended to enable you to gain a level of understanding in the subject area. The range of delivery methods used marinclude: Lecture · Seminars · Tutorials · Workshops · Surgeries · Studios · Field Trips · Laboratories	Butt, P, 2011 Commercial Property Guildford: College of Law Publishing Banfield, A, 2005 Stapletons Real Estate Management Practice, 4th Ed. London: Estates Gazette Murdoch, J, 1993 The Estate Agents & Property Misdescriptions Acts 3rd Ed. London: Estates Gazette Rubin, V, 1997 The Business Occupier's Handbook: a practical guide to acquiring, occupying and disposing of business premises Taylor & Francis Garner, S and Frith A 2010 A Practical Approach to Landlord & Tenant, 6th Ed. Oxford: Oxford University Press Limited Baum, AE, Sams, G, Stevens, D, Ellis, J, Hampson, C, 2007, Statutory Valuations, 4th Edition, London: Estates Gazette.	Face	English	none	Keith Agar	keith.agar@ntu.ac.uk
PRMD20019	. 5	SSc(H) Prop Finance & 20 nves SW	100% coursework	Compulsory	Full Year 10	University procedures for administering placements and graduate employment. Curriculum Vitae preparation. Writing covering letters and completing application forms. Interview techniques and effective preparation. Psychometric testing. Personal presentation skills and body language. Business organisation and structures, reading company financial reports, SWOT analysis, competition analysis. Effective business correspondence. Workplace dynamics. Property Industry Market Research. Marketing Strategies for Surveyors. The requirements of the RICS Assessment of Professional Competence. An introduction to Employment Law. International field trip (or alternative international case study) to explore property markets	methods which are intended to enable you to gain a level of understanding in the subject area. The range of	Hurst, C, 2010, APC 2010-11: Your Practical Guide to Success, RICS Books ISBN 9781842196045. Kaye, F, 2007, Snakes and ladders for Property Professionals: how to be a smooth operator in the property industry, EG Books, ISBN 9780728205031. Adamson, R and Soule, M, 2009, Tough Interview Questions and How t Answer them, Which?, ISBN 97818449000695. Byron, M, 2010, The Graduate Psychometric Test Workbook, 2nd Edition, Kogan Page, ISBN 9780749454050.		English	none	Dr Alla Koblyakova	Alla.kobyakova
PRMD20021		Sc(H) Prop Finance & 20 nves SW	100% coursework	Compulsory	Full year 10	The module covers the following principal areas of study: Principles and methods of property valuation for different purposes. Different interests in property and property types and characteristics and how these are taken into account in the valuation process. Valuation methods relating to development and investment property. The use of commercial valuation software packages The purpose, nature and application of national and international property valuation standards to property valuation practice.	methods which are intended to enable you to gain a level of understanding in the subject area. The range of	Baum, A., Mackmin, D., and Nunnington, N., 2011 The Income Approach to Property Valuation, (6th Edition), London: Routledge Blackledge, M. 2009 Introducing Property Valuation, London: Routledge Isaac, D; 2002 Property Valuation Principles, Basingstoke: Palgrave RICS., 1997 Commercial Investment Property: Valuation Methods, An Information Paper, May, London: RICS RICS 2011 RICS Valuation Standards, London: RICS Wyatt, P., 2007 Property Valuation in an Economic Context Oxford: Blackwell	Face to Face	English	none	Rebecca Goodall	rebecca.goodall@ntu.ac.uk
PRMD20022		SSc(H) Prop Finance & 20 nves SW	100% coursework	Compulsory	Full year 10	 Microeconomics and property Macroeconomics and the property market Economic and property cycles Different property use types such as offices and industrial Economic and property market research and analysis Government intervention and its relevance to the property market Institutional/political frameworks of regional economic policy and policy makers 	methods which are intended to enable you to gain a level of understanding in the subject area. The range of	Sloman, J., Garrett, D., 2016, Essentials of Economics, Harlow: Pearson Ball, M., 2014, Rebuilding construction: economic change in the British construction industry, Oxon: Routledge Jowsey, E., 2011 Real Estate Economics, First Edition, Palgrave Macmillan, Hampshire Myers, D., 2011 Economics & Property, Third Edition, EG Books, London Sloman, J., and Garratt, D. 2010 Essentials of Economics, Fifth Edition, Harlow, Essex: Pearson Education	Face	English	none	Dr Alla Koblyakova	Alla.kobyakova
PRMD20013		Sc(H) Prop Finance & 20 nves SW	100% coursework	Compulsory	Full year 10	The module contains the following key components: • The property development process • Applied aspects of land law: freehold and leasehold, easements, positive and restrictive covenants, nuisance • Aspects of the planning, site appraisal and design process, including sustainability principles • Introduction to mapping, site planning and layout, services and infrastructure provision • Development appraisal including viability and risk analysis • Financing property development	intended to enable students to gain a level of	Havard, T. (2014) Financial Feasibility Studies for Property Development: Theory and Practice, Oxon: Routledge Wood, D. (2011) Law and the Built Environment, second edition: Chichester: Wiley-Blackwell.	Face to Face	English	none	Dr Alla Koblyakova	Alla.kobyakova
PRMD20020		SSC(H) Prop Finance & 40 nves SW	50% examination/56 % coursework	Compulsory	Full year 20	The module contains the following principal components: The history and development of estate practices in the UK and Continental Europe Clients authority, confidentiality, obligations Property inspection for agency and property management purposes Codes of conduct and regulatory controls in the agency and property management environments Principles of estate management with particular emphasis on commercial property. Structures and procedures in real estate management practice in the public and private sectors An introduction to property agency practice and procedures Comparison of residential and commercial agency Acquisitions and disposals by private treaty and competitive methods Sales and lettings procedures and practice, types of agency, particulars of sale Tenant selection, tenant mix and the importance of covenant strength Property management compared to Asset and Portfolio Management in the UK and wider field. Aims and objectives of each role Traditional modern UK and European leases, form, content, enforcement, management, notices and alienation. Operation and interpretation of lease clauses. Dilapidations and meaning of "repair", schedules of condition and yielding up Rent collection; remedies for default for non-payment of rent or breach of covenant Procedures for surrender and renewal of leases. Statutory protection of commercial and residential leases Procedures for tenants improvements and compensation Operation of service charges, procedures, best practice, apportionment, collection, records and accounts, law and dispute resolution Operation of rent reviews, procedures, negotiation and dispute resolution. Information technology and computer use in the real estate environment. European traditions and cultures and real estate, occupation and tenure of real property in the UK and Europe. Statutory valuations including local and national taxation, and compulsory purchase.	methods which are intended to enable you to gain a level of understanding in the subject area. The range of delivery methods used marinclude: Lecture · Seminars · Tutorials · Workshops · Surgeries · Studios · Field Trips · Laboratories	Butt, P, 2011 Commercial Property Guildford: College of Law Publishing Banfield, A, 2005 Stapletons Real Estate Management Practice, 4th Ed. London: Estates Gazette Murdoch, J, 1993 The Estate Agents & Property Misdescriptions Acts 3rd Ed. London: Estates Gazette Rubin, V, 1997 The Business Occupier's Handbook: a practical guide to acquiring, occupying and disposing of business premises Taylor & Francis Garner, S and Frith A 2010 A Practical Approach to Landlord & Tenant, 6th Ed. Oxford: Oxford University Press Limited Baum, AE, Sams, G, Stevens, D, Ellis, J, Hampson, C, 2007, Statutory Valuations, 4th Edition, London: Estates Gazette.	Face	English	none	Keith Agar	keith.agar@ntu.ac.uk