MODULE SPECIFICATION

Module Title: Principles of Disaster Mitigation and Reconstruction			University module code: N/A	
Level[i]: **PhD**	Credit Value[ii]: **30**	ECTS Value[iii]: **15**	Length (in Semesters)[iv] **1**	Semester(s) in which to be offered: **1**
Existing/new module[v]: **New**	Title of Module being replaced *(if any):* **N/A**			With effect from[vi]: **September 2014**
Originating School: **School of the Built Environment, University of Salford, UK**	Module Co-ordinator(s): **Prof. Dilanthi Amaratunga & Prof. Richard Haigh**			
Programme(s) in which to be offered: **PhD in Resilience Management**				
Pre-requisites *(between levels):* **N/A**			Co-requisites *(within a level):* **N/A**	
Indicative learning hours: **150 Hours**	Percentage taught by School(s) other than originating School[vii] *:* **None**			

Aims of Module:
The module aims to develop the skills and knowledge of the built environment professions and other professions working in disaster mitigation and reconstruction, so that they may reflect on and strengthen their capacity in strategic and practical aspects of disaster risk reduction and disaster resilience to mitigate the effects of disasters nationally and internationally.

Intended Learning Outcomes

Knowledge and Understanding

On successful completion of this module, a student will be able to:

- Critically examine existing theories and practices of disaster risk reduction and disaster resilience to assess problems and evaluate alternative solutions
- Apply in a systematic and creative manner participatory and socially responsible approaches to disaster risk reduction in the built environment
- Manage effectively knowledge transfer and integration practices between relevant stakeholders
- Apply recognised research strategies and techniques to produce sustained and logical arguments in order to address real world problems in disaster affected regions
- Apply judiciously a broad array of analytical and problem solving skills to focus on resolving complex problems or issues in the practice of disaster mitigation and reconstruction in the built environment
- Recognise and appreciate the professional and ethical responsibilities of the practising built environment professional in a disaster situation

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Transferable/Key Skills and other attributes

On completion of the module a student will have had the opportunity to:

- Think critically and creatively through argument and peer debate, and reflect critically on current practice and research on disaster mitigation and reconstruction of the built environment
- Synthesise information from a number of sources in order to gain a coherent understanding of relevant theory and practice
- Communicate effectively with non-specialist as well as built environment professionals at a range of levels
- Consider user interaction with the built environment
- Prepare and deliver coherent and structured verbal and written strategies, plans and reports
- Apply problem solving and lateral thinking in a variety of disaster situations
- Adopt a methodological approach to problem solving
- Collect, analyse and record data, and present findings of research
- Use web technology for research and on-line discussion boards in a synchronous and asynchronous way

Module mark calculation:[viii]

More details on assessments

Assessment components (in chronological order of submission/examination date)

Type of assessment[ix]	Weighting%	Duration *(if exam)*	Word count *(if essay/dissertation):*	Component pass required[x]
Module is assessed by a 5,000 word written assignment	100%	NA	5000 words	50%

Learning and teaching strategies[xi]:

Full-time study:

Full-time study is delivered by a variety of learning and teaching methods. Lectures introduce new material and provide the core knowledge base for each module. Tutorials offer the opportunity for discussion and debate with personalised instruction from tutors. Throughout the course expert guest lecturers in various fields are invited to deliver lectures.

Distance Learning:

Distance Learning uses an internet-based learning environment backed up by intensive tutor support. Weekly online tutorials are led by tutors with student interaction. University's online repository of learning material enables the student to undertake self-directed study at their own convenience. Learning is driven by real-world problems aligned to students' workplace and job role.

Syllabus outline:

- Understanding disaster resilience
- Phases of the disaster management cycle
- Reducing risk and continuity management
- Reinstating and supplying temporary services and shelter
- Restoring major infrastructure and rehabilitating communities

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- Linking reconstruction to sustainable economic development

Indicative texts and/or other learning materials/resources:

Recommended text:

Amaratunga D. and Haigh, R. (eds) (2011) Post-Disaster Reconstruction of the Built Environment: Rebuilding for Resilience, West Sussex: Blackwell Publishing Limited
Barakat, S. (ed) (2005) After the Conflict: Reconstructions and Redevelopment in the Aftermath of War, London: I.B.Tauris and Company
Bosher, L. (ed) (2008) Hazards and the built environment: Attaining built-in resilience. London: Taylor and Francis.
Business Continuity Institute, Good Practice Guidelines 2013- Global Edition- A Guide to Global Good Practice in Business Continuity.
Dasgupta, R. (2007) Disaster Management and Rehabilitation, New Delhi: Mittal Publications
Duyne Barenstein J. E. and Leemann, E. (eds) (2013) Post-Disaster Reconstruction and Change: Communities' Perspectives, Boca Raton: Taylor and Francis Group
Gonsalves, J. and Mohan, P. (ed) Strengthening Resilience in Post-Disaster Situations: Stories, Experience and Lessons from South Asia, New Delhi: Academic Foundation.
Haigh, R. and Amaratunga, D. (2010), "An integrative review of the built environment discipline's role in the development of society's resilience to disasters", International Journal of Disaster Resilience in the Built Environment, Vol. 1 No. 1, pp. 11-24.
Jha A.K. and Duyne J. E (2010) Safer Homes, Stronger Communities: A Handbook for Reconstructing After Natural Disasters, The World Bank
Karim, N. (2004) Options for cyclone protection: Bangladesh context, Proceedings of the Second International Conference on Post-disaster Reconstruction: Improving post-disaster reconstruction in developing countries, April 22-23, 2004, Coventry, UK.
Saunders, W. (2008) Urban Design and Natural Hazard Mitigation, Proceedings of the Fourth International Conference on Post-disaster Reconstruction: Building resilience: Achieving effective post-disaster reconstruction, April 30-May 1, 2008, Canterbury, New Zealand.
Wisner, B., Gaillard, J.C. and Kelman, I. (2012) Handbook of Hazards and Disaster Risk Reduction, Routledge.

Journals:

International Journal of Disaster Resilience in the Built Environment
Disaster prevention and Management
Disasters

Date of completion of this version of Module Specification …….....

Date of approval by the Faculty Programme Approval and Review Sub-committee: ……

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[i] *indicate level (e.g. first, second or third cycle; sub-level if applicable). All qualifications in the European Higher Education Area are located within three cycles - undergraduate; graduate and doctoral studies*
[ii] *permissible credit values as set out in Institution's Academic Regulations*
[iii] *European Credit Transfer System*
[iv] *indicate 0.5, 1, 1.5 or 2*
[v] *delete as applicable*
[vi] *insert month and year of first/next delivery of module*
[vii] *identify all participating Schools other than Originating School*
[viii] *To be defined*
[ix] *please indicate, in chronological order of submission date, each assessment component by type, e.g. examination, oral, coursework, project, dissertation*
[x] *indicate* Yes *to specify the assessment component(s) to be passed in order to pass the module*
[xi] *please note the requirement to give full consideration to issues of equality, diversity and accessibility*

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