SENG2021 - Requirements and Design Workshop

Created: 20 Mar 2017

Offering Details:

Proposal Last Updated: 22 Mar 2017

Key Details and Contacts					
Key Course Details					
Course Name (Official)	Requirements an	d Design Workshop			
Standard Name (SIMS)	Reqts & Design V	Reqts & Design Workshop			
Course Code	SENG2021				
Inits of Credit (UOC)	6				
Career	Undergraduate				
evel	Value not found				
First semester and year the revised shanges will take effect	2018 Semester 1				
Contact Details					
Proposal Proponent	Name	Email	Role		
	Fethi Rabhi	f.rabhi@unsw.edu.au	Professor, School of Computer Science and Engineering		
Proposal Author(s)	Not specified				
Proposal Contact	Name	Email	Role		
	Boualem Benatallah	boualem@cse.unsw.edu			
	Fethi Rabhi	f.rabhi@unsw.edu.au	Professor, School of Computer Science and Engineering		
	John Shepherd	jas@cse.unsw.edu.au	Deputy Head of School (Education), School of Computer Science and Engineering		
Optional Additional Endorsers	Not specified				
Academic Unit responsible for course	· ·	Iter Science and Engineering			
Parent Academic Unit	Faculty of Engine	eering			
Proposal Concept					
Summary of Proposal					
Summary of Proposal	introducing the ne	ew CSE core syllabus) with th	NG1031 (used to be in semester 2 year 1 and now deleted as a result of he previous content of SENG202, which used to be offered in semester 2 ove this course to semester 1 year 2.		
		changes came as a result o	f the Software Engineering degree revision exercise which took place		
Justification for proposal					
Justification for Proposal		nge, students will not be getti part of SENG1031.	ng experience in conducting requirements gathering in a practical fashion		
Attachments					
Attach documentation to this proposal	None attached				
Learning and Teaching					
Learning & Teaching development ar	nd support				
Are there Learning & Teaching space requirements for the course beyond those that can be accommodated by					

CATS spaces?

Have you discussed with the Learning Centre and Learning and Teaching what language and/or academic skills development resources and/or which teaching and learning strategies might be suited to this course?	No
Are many students in this course at a key transition point where their academic skills are likely to need development, e.g. from one kind of educational institution or type of program to another or into education after a significant break?	No

Consultation

Internal consultation				
Internal Consultation	Consultants	None specified		
	Details	This proposal is as a result of a review of the Software Engineering degree which was conducted between July and October. A steering group comprising academics from the School as well as external people was formed and met on a regular basis.		
	Attachments	None specified		
External consultation				
External Consultation	Consultants	None specified		
	Details	An industry advisory committee was formed and took part in the revision exercise.		
	Attachments	None specified		
Interested Parties	Not specified			

Related Proposals

Related Proposals	Code	Proposal Name	Туре	Date	Status
	COMP21 11	System Modelling and Design	Course Revision (UG)	Mar 2017	Draft Proposal
	SENG20 11	Workshop on Reasoning about Programs: from Specification to Implementation	Course Revision (UG)	Mar 2017	Draft Proposal

Endorsements and Comments				
Endorsement history	No endorsements have been recorded for this proposal (yet).			
Comments	No comments posted			

Administration:

Key Admin Details				
Course Name (Official)	Requirements	and Design Workshop		
Student System ID	00063059	00063059		
Can course be taken as General Education elective?	No	No		
Field of Education		020103 – Programming Effective 27 Nov 2017: 020103 – Programming		
Course Review				
Next course review date	January 01, 2	020		
Provide details of any particular factors that need to be considered at that review.	CATEI feedba	ick from students during first two off	erings of the course.	
Delivery and Attendance				
Campus administering the Course	Sydney			
Teaching Shares by School/Faculty	School			Teaching Share (%)
	School of Co	mputer Science and Engineering		100
	Total Share			
Semesters the course is offered		Summer Semester	Semester 1	Semester 2
	2017	No	No	No
	2018	No	Yes	No
	2019	No	Yes	No
	2020	No	Yes	No
Feaching mode and contact hours	Standard Offe	ring Mode		
Standard offering contact hours per	Learning Activity			Hours/Week
week	Lecture			0.5
	Tutorial/Labo	ratory		1
	Tutorial			0
	Laboratory			0
	Web-based C	Online Learning Activity		0.5
	Clinical/Field	work		0
	Distance Lea	rning		0
	Seminar			0
	Studio			0
	Meeting/Con:	sultation		3
	Total Hours	per week		5
	Classroom			
Primary delivery mode		Directed Research		
Primary delivery mode Secondary delivery modes	Directed Rese	earch		

Staff associated with course					
Course Convenor	Name	Email	Role		
	Fethi Rabhi	f.rabhi@unsw.edu.au	Professor, School of Computer Science and Engineering		

Administrative Contact	Name	Email	Role
	Cassandra Nock	cassandra@CSE.UNSW.EDU.A U	Administration Manager, School of Computer Science and Engineering

Supplementary Information:

Student Resources			
Prescribed Resources	1.	SENG2021 Website	Website
	URL	http://www.cse.unsw.edu.au/~se2021/	
	Publisher	CSE	
	Additional Details	Not specified	
Recommended Resources	None specified		

Industrial Experience Component					
Industrial Experience Component	The students will also be getting experience on different aspects of designing a Web application with a majo focus on the front-end. The requirements for this course will be determined in collaboration with industry partners and will relate to developing a realistic application.				
Assumed Knowledge					
Assumed Knowledge	Before commencing this course, students should have:				
	The ability to develop requirements documents				
	The ability to design and implement general algorithms				
	· Basic knowledge of essential design concepts and techniques (equivalent to UML class diagrams and ER)				
	Basic knowledge of scripting and Web technologies				
	Writing and communication skills				

Academic Structure:

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Academic Structure					
Prerequisites					
Prerequisite courses	COMP1531 - Software Engineering Fundamentals (UG)				
Prerequisite programs	Not specified				
Prerequisite streams	SENGAH - Software Engineering (UG)				
Prerequisite conditions	COMP1531, enrolled in SENGAH				
Exclusions					
Excluded Courses	Not specified				
Excluded Programs	Not specified				
Excluded Streams	Not specified				
Equivalent					
Equivalent courses	Not specified				
Assessment					
Assessment					
Grading Basis	Standard UNSW grades (e.g. HD, DN, CR, PS, FL)				

Assessment items and their relationship to Course Learning Outcomes

Asse	essment Title	Assessment Type	Weight (%)
1	Requirements critique	Report	10%
	Assessment Description:	Not specified	
2	Design report	Report	10%
	Assessment Description:	Not specified	
3	Prototype demonstration	Presentation	20%
	Assessment Description:	Not specified	
4	Final report	Report	40%
	Assessment Description:	Not specified	
5	Mentor individual assessment	Other	10%
	Assessment Description:	Not specified	
6	Software Specification Artifacts	Report	10%
	Assessment Description:	Not specified	
Tota	l Weight		100%

Requirements critique

- Reinforce existing knowledge about the concepts and principles in the early stages of the software development
 life cycle
- Learn about the processes of converting requirements to design in a realistic context
- An appreciation of the many and varied issues involved in the development of software systems and the role
- and the importance that Software Engineering review processes play in producing quality systems

Design report

- · Learn about the processes of converting requirements to design in a realistic context
- Acquire practical design skills, particularly in architectural design and software component integration

Prototype demonstration

- · Learn about the processes of converting requirements to design in a realistic context
- Experience the process of implementing a prototype Web system by choosing appropriate languages, libraries
 and frameworks
- · Acquire additional skills involved in working as part of a project team working within strict time constraints

Final report

- Learn the process of writing reports and documentation for specific needs
- Acquire practical design skills, particularly in architectural design and software component integration
- Reinforce existing knowledge about the concepts and principles in the early stages of the software development
 life cycle

Mentor individual assessment

- Experience with the development of project plans, brainstorming, requirement documents, prototyping techniques, issues and tasks management, peer reviews
- An appreciation of the many and varied issues involved in the development of software systems and the role and the importance that Software Engineering review processes play in producing quality systems

Software Specification Artifacts

- Experience the process of implementing a prototype Web system by choosing appropriate languages, libraries and frameworks
- · Acquire practical design skills, particularly in architectural design and software component integration
- Reinforce existing knowledge about the concepts and principles in the early stages of the software development
 life cycle

Curriculum Mapping

Course Learning Outcomes	
Specify the learning outcomes that students should achieve upon successful completion of this course	1 Reinforce existing knowledge about the concepts and principles in the early stages of the software development life cycle
	2 Experience with the development of project plans, brainstorming, requirement documents, prototyping techniques, issues and tasks management, peer reviews
	3 Learn about the processes of converting requirements to design in a realistic context
	4 Acquire practical design skills, particularly in architectural design and software component integration
	5 Experience the process of implementing a prototype Web system by choosing appropriate languages, libraries and frameworks
	6 Acquire additional skills involved in working as part of a project team working within strict time constraints
	7 Learn the process of writing reports and documentation for specific needs
	8 An appreciation of the many and varied issues involved in the development of software systems and the role and the importance that Software Engineering review processes play in producing quality systems
Teaching strategies and Rationale	
Teaching Strategies and Rationale	The course uses lectures, project work, team work and mentoring to develop an understanding and experience of the process of translating a set of requirements and the related specification to a prototype implementation. This exposes students very strongly to the principles and foundation of their study of software engineering as a professional discipline.
Course Aims	
oourse Allins	
Course Aims	To develop:
	To develop: • a practical appreciation of the software requirements and design process;
	a practical appreciation of the software requirements and design process;
	 a practical appreciation of the software requirements and design process; an understanding of the relation between user requirements, design concepts and implementation considerations; an understanding of the quality of project management and the role of managers, users, designers, programmers and
	 a practical appreciation of the software requirements and design process; an understanding of the relation between user requirements, design concepts and implementation considerations; an understanding of the quality of project management and the role of managers, users, designers, programmers an analysts throughout the system's development process

Publications and Marketing:

Publications Course Description	
Key Search Terms	
List key search terms that might be used to search for this course (e.g. via the Handbook or Google searches).	requirements software design web application teamwork