

The UNIVERSITY of OKLAHOMA GALLOGLY COLLEGE OF ENGINEERING SCHOOL OF COMPUTER SCIENCE

1 Course Syllabus

1	Course Code	CS-5213									
2	Course Name										
3	Version	Software Engineering Processes									
	Version	Instructor Mansoor Abdulhak Fmail m bak@ou.edu									
4	Name(s) of			Ma	nsoor Abdu	ilnak	Email				
4	Academic		Teaching Assistant Teaching Assistant				Email				
	Staff					Email					
5	Semester	Spring									
6	Year	2024									
7	Level	MS									
8	Course	C S 3113 or C S 3823 or C S 5005									
		Delive	ry Methods	Hour per week		Implementation		Date	Time	Lo	cation
			Lecture		units	(0 hour(s) per week)				
			Tutorial		units	(0 hour(s) per week)				
			Laboratory		units	(0 hour(s) per week)				
		ing	Supervision	0	units	(0 hour(s) per week)				
9		arni	Online Learning	3		(3 hour(s) per week)				Online	
·		r Le	Out Class	6	units	(6 hour(s) per week)					
		nte							11:00 am -	Devan Fr	nergy Hall
		e e	Student Hours	1	units	(1 hour/s) per week)	TR	12:00 am -	234 or Vi	
		n-Person (Student Center Learning) Activities	Otadent Hours		ui iito	(111001(3) per week)		12.00 p	234 01 VI	ircually
	Contact Hours				.,						
	riours	± ⊕ ∢	Final Exam	U	units	(2 Hour(S) per Sem)				
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2 Topics

Week	Topic	Chapters-Reading	Weekly Activity	SWEBOK v4.0	Assessment Method	Total Marks
TTOOK	Торіс	Chapters-reading	1: Discussion on Canvas (introduction)	OWEDOR V4.0	Assessment metriou	Total marks
			2: Group Forming (Contact others)			
		2.1 Challenges of System Development	3: Form a group of SEVEN students 4: SET YOURS GROUPS IN CANVAS			
		23 Software Project Management	5: Go to 3.2 Student List	Software Engineering	Participation	
		23.1 Project Organization	6: Select the weeks you will be in charge as a leader	Professional Practice		
1		23.2 Effort Estimation Method	5: Do the Chapters-Reading	(KA)		
		23.3 Project Planning and Scheduling			Ticket 1	
		23.4 Risk Management	1: Do the Chapters-Reading	Software Engineering	Software Development	
		23.5 Process Improvement	2: Complete (Ticket 1)	Professional Practice	Plan (SDP)	
2	Project Management	23.6 Applying Agile Principles Scrum	3: Do the PeerReview (Evaluation Form)	(KA)	` ′	1
		19.2 Software Quality Attributes 19.4 Software Verification and Validation Techniques				
		19.5 Verification and Validation in the Life Cycle		Software Quality (KA)	Ticket 2	
	Software Quality	19.6 Software Quality Functions	1: Do the Chapters-Reading	Software Engineering	Software Quality Assurance	
		22.1 The Baselines of Software Life Cycle	2: Complete (Ticket 2)	Professional Practice	Plan (SQAP)	
3	Management	22.4 Software Configuration Management Functions	3: Do the PeerReview (Evaluation Form)	(KA)		1
		4.3 Types of Requirements		Software		
		4.4 Challenges of Requirements Elicitation		Requirements (KA)	Ticket 3	
		4.5 Steps for Requirements Elicitation	1: Do the Chapters-Reading	Software Engineering	SRS Standard	
	Software Requirements	4.6 Applying Agile Principles	2: Complete (Ticket 3)	Professional Practice	JNJ Standard	
4	Specification	4.7 Requirements Management and Tools	3: Do the PeerReview (Evaluation Form)	(KA)		1
		7.1 What is an Actor		_		
		7.2 What is a Use Case		Software		
		7.3 Business Process, Operation and Action 7.4 Steps for Driving Use Cases from Requirements	1: Do the Chapters-Reading	Requirements (KA) Software Engineering	Ticket 4	
		7.4 Steps for Driving Use Cases from Requirements 7.5 Applying Agile Principles	1: Do the Chapters-Reading 2: Complete (Ticket 4)	Professional Practice	Use Case	
5	Use Case	7.5 Applying Agile Principles 7.6 Tool support for Use Case Modeling	3: Do the PeerReview (Evaluation Form)	(KA)		1
_		18.1 Coding Standard		(
		18.2 Organizing the Implementation Artifacts				
		18.3 Generating Code from Design			Ticket 5	
		18.5 Parin Programming	1: Do the Chapters-Reading		Software Testing Plan (STP)	
6	Implementation	18.6 Test-Driven Development 18.7 Applying Agile Principles	2: Complete (Ticket 5) 3: Do the PeerReview (Evaluation Form)			1
		20.1 What is Software Testing	3. Do the Feet Neview (Evaluation Form)			-
		20.2 Why Software Testing				
		20.5 Test Coverage		Software Quality (KA)	Ticket 6	
		20.6 A Generic Software Testing Process	1: Do the Chapters-Reading	Software Engineering	Test Case	
7	Software Testing	20.7 Object Oriented Software Testing 20.10 Software Testing In The Life Cycle	2: Complete (Ticket 6) 3: Do the PeerReview (Evaluation Form)	Professional Practice (KA)		1
'	Outware resuing	20.10 Software Testing III The Life Cycle	3. Do the PeerReview (Evaluation Form)	(NA)		
		6.3 Software Design Principles			Ticket 7	
		6.5 Architectural Styles		Software Design (KA)	Architectural Design	
		6.6 Architectural Design Process	1: Do the Chapters-Reading	Software Engineering	SDD Standard	
8	Software Architecture	6.7 Architectural Style and Package Diagram 6.9 Applying Agile Principles	2: Complete (Ticket 7) 3: Do the PeerReview (Evaluation Form)	Professional Practice (KA)		1
	COLUMNIC / HOHIGOGUIG	9.2 UML Sequence Diagram	5. 55 the recineview (Evaluation rotti)	1.03		
		9.3 Steps for Object Interaction Modeling		1		
		11.3 Steps for Deriving a Design Class Diagram		Software Design (KA)		
		11.4 Organize Classes with Package Diagram	1: Do the Chapters-Reading	Software Engineering		
9	Modeling and Design	12.3 Graphical User Interface Widget	2: Complete (Ticket 8)	Professional Practice		
-	Modeling and Design Spring Break	12.4 User Interface Design Process Spring Break	3: Do the PeerReview (Evaluation Form) Spring Break	(KA) Spring Break	Spring Break	Spring Break
		24.2 Security Requirement	g broan	-pinig Drouk	apining broant	zpinig broak
		24.3 Secure Software Design Principles		1	Ticket 8	
		24.4 Secure Software Design Pattern		1	Setup Environment	
	0-4	24.5 Seven Best Practices of Software Security	1: Do the Chapters-Reading	1	octup Environment	
11	Software Security	24.6 Software Security in the Life Cycle	2: Prepare for Sprint Execution		Ticket 9	1
12	Sprint 1	Research or Industry Project	Sprint Execution		Sprint 1 Execution	
	•				Ticket 9	
13	Sprint 2	Research or Industry Project	Sprint Execution		Sprint 2 Execution	
14	Sprint 3	Posearch or Industry Project	Sprint Execution		Ticket 9	
14	Sprint 3	Research or Industry Project	Sprint Execution	 	Sprint 3 Execution Ticket 9	
15	Sprint 4	Research or Industry Project	Sprint Execution		Sprint 4 Execution	
			PeerReview/ Demo			
16					Total Marks	10



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3 Policies

	٦			SCHOOL OF COMPUTER SCIENCE				
	1	1	About Instructor	Mansoor Abdulhak				
1	Instructor	2	Teaching Philosophy	My teaching methods include a variety of up-to-date techniques including active participation via an inverted classroom and experiential learning through project-based instruction and assessment. Through these methods, I seek to make courses imitate the work environment as much as possible in order to best prepare students for their careers.				
<u>'</u>	Instructor	1	Home Page	This class will use Canvas software for our home page. The URL for the home page is http://canvas.ou.edu. Login with your 4+4 using your standard OU password. If you have difficulty logging in, call 325-HELP. This software provides a number of useful features, including a list of assignments and announcements, an electronic mailing list, and grade book. The Canvas course site will be used for all updates. You should check the site regularly.				
		2	Grade Checking	Canvas is equipped with a grade book that preserves the raw data utilized for computing your course grade. It is crucial that you routinely verify the accuracy of your recorded grades. In the event of any identified discrepancies or disagreement, promptly notify me via email (follow the policy of Communication), and I shall promptly address and rectify the matter. Keep in mind Notifications must be submitted within the same week as the grade release; otherwise, changes w not be processed.				
2	Course	3	Deadlines	Unless explicitly stated otherwise specified in writing, please ensure all assignments are subly the designated date in the Ticket instructions. In the event of a delay, a 10% deduction wapplied for each day beyond the specified deadline. This policy is in place to maintain fairne consistency. It's worth noting that, as software engineering professionals, it's our responsible ensure timely submission, avoiding any delays that may result in fines for our workplace.				
		4	Al Tools	In recognizing the lasting impact of AI tools, I encourage their use to improve your skills on using them. However, given that AI tools are not fully matured, it is the responsibility of the student to evaluate the content generated and learn how to effectively work with AI tools to achieve optimal results. This approach reflects our commitment to adapting and utilizing emerging technologies responsibly in the learning environment. It is essential to note that any direct copy-pasting without reading, understanding, analyzing, and actively working to enhance your skills will be considered academic misconduct.				
		5	5 Exams Follow the University Final Exam Policies					
		6	Ownership of Course Materials	All original content used in this course is owned by Mansoor Abdulhak. This includes but i limited to exams, lectures, quizzes, handouts, protocols, electronic documents, and syllab or transcribed content may not be copied, recorded, retransmitted, posted online, or sold wher and/or her expressed, written consent.				
		1	Communication	1.The primary method of communication will be through Discussion threads in Canvas. All general questions related to the learning outcomes, Tickets or reference are encouraged to be discussed openly within. 2.Urgent announcements will be communicated through Canvas. It is your responsibility to regularly check Canvas for updates. 3.For formal communication, please use email to contact me. To facilitate this communication PLEASE, Ensure that you include the semester, the course code ID, the group ID and your Soone ID (e.g. Spring24-CS3032-GroupA-123456789) before the subject in your email. Without this information, your message may not be noticed or entertained.				
				As part of our commitment to student success, I offer two attendance tracks to accommodate diverse circumstances. The first track follows a traditional attendance policy. The second track, known as the double exam policy, is designed to support students who may face challenges in regular attendance. This alternative option allows students to demonstrate their understanding through exams, providing flexibility for those who may have commitments that prevent consistent attendance. Our aim is to ensure that all students have an opportunity to succeed, regardless of their individual circumstances. It's important to note that the cut-off for selecting your attendance track will be in week one, and switching tracks won't be allowed unless exceptional circumstances arise.				
3	Class	2		This course follows a synchronous format, requiring your attendance all scheduled class sessions and labs in person. Exceptions are made for illness, unforeseen caretaking duties, or if you feel uncomfortable being in group settings at the moment. In addition to the aforementioned policy, you have the option to opt for the Double Exam (Track 2) policy. Attendance to classes and participation in group activities are not mandatory and won't be calculated. However, your final grade will be determined by a combination of an individual assignments scores and wice the exam score. This calculation will contribute to your overall assessment for the course, with the maximum achievable grade				
			Class Attendance	capped at a 'C'. As you will only be evaluated based on the ASO 4 & ASO 6 outcomes				

		3	Classroom Conduct	Disruptions of class will not be permitted. In the case of disruptive behavior, You will be asked to leave the classroom and may charge you with a violation of the Student Code of Responsibilities and Conduct.				
		4	Grade	Your grade will be determined through 1: The assessment method detailed in the 1. Course Syllabus 2: Peer evaluations of teamwork • your contributions to the team homework • your enabling others to make contributions • may significantly impact your letter grade				
		5	Online Class	See the Online Learning at OU				
		1	Land Acknowledgement	The University of Oklahoma recognizes the historical connection our university has with its indigenous community.				
		2	Academic Integrity	See Academic Integrity Policy				
		3	Religious Observance	See Faculty Handbook 3.15.2				
		4	Accommodation of Disabilities	To discuss potential accommodations, please contact the ADRC at 730 College Avenue, (ph.) 405.325.3852, or adrc@ou.edu.				
		5	Title IX	See Resources and Reporting Requirement				
	University	6	Adjustments for Pregnancy/Childbirth Related Issues	Contact me or the Accessibility and Disability Resource Center at 405/325-3852 as soon as possible. Also, see the Institutional Equity Office FAQ on Pregnant and Parenting Students' Rights for answers to commonly asked questions.				
		7	Final Exam Preparation Period	See Faculty Handbook 4.10				
		8	Weather Safety Information	See Information				
		9	Emergency Protocol	See Procedures				
4		10		 Look for severe weather refuge location maps located inside most OU buildings near the entrances Seek refuge inside a building. Do not leave one building to seek shelter in another building that you deem safer. If outside, get into the nearest building. Go to the building's severe weather refuge location. If you do not know where that is, go to the lowest level possible and seek refuge in an innermost room. Avoid outside doors and windows. Get in, Get Down, Cover Up Wait for official notice to resume normal activities. 				
			Severe Weather	Weather Safety Information				
		11	Armed Subject/Campus	1. Avoid: If you believe you can get out of the area WITHOUT encountering the armed individual, move quickly towards the nearest building exit, move away from the building, and call 911. 2. Deny: If you cannot flee, move to an area that can be locked or barricaded, turn off lights, silence devices, spread out, and formulate a plan of attack if the shooter enters the room. 3. Defend: As a last resort fight to defend yourself.				
			Intruder	visit OU's Active Shooter page				
		12	Fire Alarm/General	 LEAVE the building. Do not use the elevators. KNOW at least two building exits ASSIST those that may need help PROCEED to the emergency assembly area ONCE safely outside, NOTIFY first responders of anyone that may still be inside building due to mobility issues. WAIT for official notice before attempting to re-enter the building. OU Fire Safety on Campus 				
		13	Emergency Mental Health Support Services	If you are experiencing any mental health issues that are impacting your academic performance, counseling is available at the University Counseling Center (UCC). The Center is located on the second floor of the Goddard Health Center, at 620 Elm Rm. 201, Norman, OK 73019. To schedule an appointment call (405) 325-2911. For more information, please visit University Counseling Center University Counseling Center				
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