Course Number	CS 435	Course Title	Softwa	re Engineering	5	
Semester Hours	3	Course Coordinator	Koush	ik Sinha		
Catalog Description	Principles, practices and methodology for development of large software systems. Object-oriented principles, design notations, design patterns and coping with changing requirements in the software process. Experiences with modern development tools and methodologies. A team project is an integral part of this course.					
	<u> </u>	Text	oooks			SP18
Pressman, R.S. & McGraw Hill	Maxim, B.R. (2	BN: 978-12598	0	ring: A Practii	tioner's Appro	oach,
Various references	to tool and langu	age documentation		_	principles, etc.	
 To become fan To be able to a collaboratively 	and develop expendiliar with concept pply modern deve basic principles o	ts of software de	velopment	methodologies s to create softw	s and notations. ware both indiv	idually and
	Assessmen	t of the Contrib	ution to S	tudent Outcon	nes	SP20
Outcome →	1	2	3	4	5	6
Assessed \rightarrow	X	X	Х		Х	Х
		Prerequisit	es by Top	ic		
CS 330 with a grad	le of <i>C</i> or better o	r graduate standi	ng; CS 30	6 with a grade of	of C or better re	ecommended.

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	Major Topics Covered in the Course	
1. Introd	uction to software development {2 classes}	
2. Persp	ectives on software process {3 classes}	
3. Introd	uction to software best practices {3 classes}	
4. Comm	nunication, collaboration and teamwork {6 classes}	
5. Softw	are development tools & environment IDE, testing framework, build scripts {3 cla	sses}
6. Codin	g style and conventions {2 classes}	
7. Objec	t oriented principles {5 classes}	
8. Practi	ces and process in depth {6 classes}	
9. Desig	n notations {3 classes}	
10. Softw	are design patterns {5 classes}	
11. Anti-j	atterns {2 classes}	