

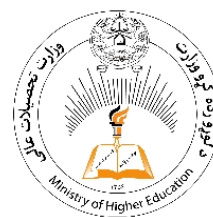


لوړو زده کړو وزارت

خراسان پوهنتون

کمپیوټر ساینس پوهنځي

کورس پالیسي



Software Engineering	مضمون
Ataulhaq Hilal	استاد
0783308595	د استاد اړیکه
3	سمستر
	د مضمون کود نمبر
3	کریډیتونو شمیر
	Prerequisite subjects
<p>1. This course will provide an introduction to the fundamental concepts and techniques underlying the construction of digital systems.</p> <p>After the successful completion of course, the students will be able to:</p> <p>CLO-1: Students should be able to apply the knowledge of number systems and Boolean logic used in the development of digital circuits.</p> <p>CLO-2: Student should be able to analyze Digital Circuits using Boolean Algebra, K-maps, and Binary Number systems.</p> <p>CLO-3: Students should be design the combinational and synchronous sequential circuits.</p>	د زده کړې هدفونه
The method of instruction will be lecture, class discussion, Quizzes / assignments and online activities.	د زده کړې او تدریس طریقي
د سهر ۸:۳۰ څخه تر ۱۱:۳۰ پورې او د ماښام ۴:۰۰ څخه تر ۷:۰۰ بجو پورې	د دايریدو وختونه
Internal assessments, includes assignments, seminars, case studies, quizzes, viva etc.	د کورس ارزیابي
<ol style="list-style-type: none"> Software Engineering (Roger S. Pressman) Software Engineering (Ian Somerville) 	منابع اوماخذ

د سمنتر په اوږدو کې د کورسونو د دايريدو د وختونو جدول

هفته	عنوان	اهداف	درسی او زده کړه ايز فعاليتونه	د ارزيايي طريقې
اوله هفته	<ul style="list-style-type: none"> ✓ Introduction to System ✓ Computer Programming ✓ Software ✓ Software Product ✓ 	Students will learn some basic about the Software	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Quizzes, assessment, exams, class group discussion, presentation, hot seat.
دوهم هفته	<ul style="list-style-type: none"> ✓ Attribute of good software ✓ Introduction to S/W Engineering ✓ Engineering ✓ Need of software Engineering ✓ 	Students will learn about the attribute of good S/W and need of software engineering	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Quizzes, assessment, exams, class group discussion, presentation, hot seat.
درېيمه هفته	<ul style="list-style-type: none"> ✓ Definition of S/O Engineering ✓ Who is software Engineer and has task and responsibility 	Students will learn about the definition of software engineering	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Quizzes, assessment, exams, class group discussion, presentation, hot seat.
څلورم هفته	<ul style="list-style-type: none"> ✓ Software Development Requirement ✓ Software Engineering Framework Activities ✓ 	Students will learn about the S/W framework activity	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Quizzes, assessment, exams, class group discussion, presentation, hot seat.
پنځه هفته	<ul style="list-style-type: none"> ✓ Umbrella Activity ✓ S/W Process Models ✓ Linear Sequential / Waterfall Model ✓ model 	Students will learn about the software process model	Lectures are provided through LCD screens, Group	Quizzes, assessment, exams, class group discussion,

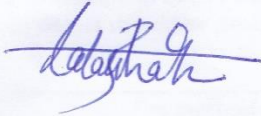
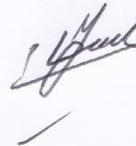
presentation, hot seat.	discussion, Question and answer method are used.		✓ Usage of spiral model	
Quizzes, assessment, exams, class group discussion, presentation, hot seat.	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Students will learn about the advantage of Waterfall model	<ul style="list-style-type: none"> ✓ Advantage and disadvantage of Linear Sequential Waterfall Model ✓ Incremental Model 	شپڙمه هفته
Quizzes, assessment, exams, class group discussion, presentation, hot seat.	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Students will learn about the spiral model	<ul style="list-style-type: none"> ✓ Spiral Model ✓ Advantage of Incremental ✓ Usage of spiral model 	اوومه هفته
Quizzes, assessment, exams, class group discussion, presentation, hot seat.	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Students will learn about the type of requirement	<ul style="list-style-type: none"> ✓ Functional requirement ✓ non-Functional Requirements. 	اتمه هفته
Quizzes, assessment, exams, class group discussion, presentation, hot seat.	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Students will learn about the Quality Assurance	<ul style="list-style-type: none"> ✓ Quality Concepts ✓ Quality Movements ✓ S/W Quality Assurance 	نهمه هفته
Quizzes, assessment, exams, class group discussion,	Lectures are provided through LCD screens, Group	Students will learn about the Element of ERD	<ul style="list-style-type: none"> ✓ Elements of Analysis Modeling ✓ Data Modeling ✓ Data Objects, Attributes, Relationships 	لسمه هفته

presentation, hot seat.	discussion, Question and answer method are used.		<ul style="list-style-type: none"> ✓ ERD ✓ Functional Modeling ✓ DFD 	
Quizzes, assessment, exams, class group discussion, presentation, hot seat.	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Students will learn about the principle of Software Design	<ul style="list-style-type: none"> ✓ Behavioral Modeling ✓ The Data Dictionary ✓ S/W Design ✓ The Design Principles 	یوولسمه هفته
Quizzes, assessment, exams, class group discussion, presentation, hot seat.	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Students will learn about the Architectural Style	<ul style="list-style-type: none"> ✓ Data Design ✓ Architectural Styles 	دولسمه هفته
Quizzes, assessment, exams, class group discussion, presentation, hot seat.	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Students will learn about the Graphic Design Notation	<ul style="list-style-type: none"> ✓ Component/Level ✓ Graphical Design Notation ✓ Tabular Design Notation ✓ Program Design Lang 	دیارلسمه هفته
Quizzes, assessment, exams, class group discussion, presentation, hot seat.	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Students will learn about the Testing Strategies	<ul style="list-style-type: none"> ✓ Software testing strategies: ✓ A Strategic Approach for Software Testing ✓ Unit Testing ✓ 	خوارلسمه هفته

presentation, hot seat.	discussion, Question and answer method are used.	testing		
Quizzes, assessment, exams, class group discussion, presentation, hot seat.	Lectures are provided through LCD screens, Group discussion, Question and answer method are used.	Students will learn about the validation and testing	<ul style="list-style-type: none"> ✓ Validation Testing ✓ Alpha/Beta Testing ✓ System Testing 	شیپارسمہ ہفتہ

پورتنی کورس پالیسی د کمپیوٹر سائنس پوهنخی د آی تی او نیتورک دیپارٹمنٹ شورا په
 ۱۴
 ۱۴۰۲/۱۱/۱۸

Sir Ataulhaq Hilal

Sir Yad Agha

