

General Information						
Course Code	ITEC-4**(4BB)	Level/Year	7 th /4 th	Required (R) /Selected Elective (SE)		SE
Credit Hours	Theory	2	Lab	1	Total	3
Prerequisites	ITEC342	Course Coordinator		Ms.Naziya Parveen		
Corequisites	-	Track Leader		Dr. Nadim Rana		
Course Description						
<p>This course is designed to give students the opportunity to enhance and enrich their skills in Web programming. Students will learn to develop Web applications that use three-tier architecture, session and cookies management, object-oriented techniques, and advance database interactions. Concepts such as advanced PHP concepts, rich interactive Web environments, authentication, and security will also be explored. The main objective of the Applied Web Programming course is to discuss state of the art technologies in Web Programming and some open research issues of the domain. It represents the next generation of Internet applications, business strategy and technologies that supports contribution to the online community.</p>						
Course Objectives : On completion of the course, the student will be able to:						
<ul style="list-style-type: none"> ◆ Use PHP to add dynamic content to websites. ◆ Use variables, constants, and operators in PHP script. ◆ Incorporate statements, expressions and arrays in PHP script. ◆ Create functions & files PHP script. ◆ Apply conditional statements in PHP script. ◆ Use HTML code to create server-side scripts (using PHP) for interactive databases (using Mysql) 						
Course Contents						
List of Topics					Weeks	
CH 1: Introduction to Server side programming using PHP					1,2	
CH 2: PHP control structures & arrays					3, 4, 5	
CH 3: PHP functions & files					5, 6, 7	
CH 4: PHP with HTML forms					8, 9, 10	
CH 5: Cookies & Sessions					10, 11, 12	
CH6: Errors & Exception Handling					13, 14, 15	
Textbook						
<ul style="list-style-type: none"> ◆ Luke Welling and Laura Thomson, PHP and MySQL Web Development (5th Edition), 2014, Pearson education Inc. ISBN-10: 0321833899. 						

Reference Materials						
<ul style="list-style-type: none">Marty Matthews and John Cronan, Dynamic Web Programming, McGrawHill, 2009, ISBN: 978-0-07-163344-4						
Course Learning Outcomes						
CLO	Description					Mapped PI
CLO#01	Define the basic concepts of Server Side Scripting, PHP environment like, constants, operators, characteristics, functions, files, arrays, expressions, control structures etc.					PI 1.1
CLO#02	Analyze the use of control structures, file functions, error handling, cookies & sessions, HTML forms in PHP script.					PI 1.2
CLO#03	Identify various regular expressions functions, control statements and exception handling techniques to solve error handling problems in php script and HTML code.					PI 1.3
CLO#04	Apply functions, arrays, different conditional statements, regular expressions, control structures, and file functions and exception handling to code a website.					PI 2.2
CLO#05	Design and Implement an application with PHP script and HTML code by using database security and mysql.					PI 2.1, PI 2.3
CLO#06	Draft professional documentation that clearly represents technical topics.					PI 3.1
CLO#07	Deliver effective oral presentations on technical topics using appropriate visuals aids.					PI 3.2
CLO-SO-PI Mapping						
	SO1	SO2	SO3	SO4	SO5	SO6
CLO#01	PI 1.1	-	-	-	-	-
CLO#02	PI 1.2	-	-	-	-	-
CLO#03	PI 1.3	-	-	-	-	-
CLO#04	-	PI 2.2	-	-	-	-
CLO#05	-	PI 2.1,PI 2.3	-	-	-	-
CLO#06	-	-	PI 3.1	-	-	-
CLO#07	-	-	PI 3.2	-	-	-