# TISHK INTERNATIONAL UNIVERSITY FACULTY OF SCIENCE

# Department of INFORMATION TECHNOLOGY, 2020-2021 Fall

#### **Course Information for IT 350 WEB TECHNOLOGIES**

	Course	Name: WEE	TECHNOLOGIES						
Code Course type		rse type	Regular Semester	Theoretical	Practical	Credits	ECTS		
IT 35	50	2	7	2	2	3			
N	lame of Lect Academ	urer(s)- ic Title:	Rebin M. Ahmed – Assistant Lecturer.						
1	Teaching As	sistant: Islan	n AbdulAziz						
	Course Lar	<b>iguage:</b> Engl	ish						
	Cours	e Type: Non-	area Elective						
	Office	Hours Thur	sday 10:00 – 12:00 (264)						
	C	ontact: Ema	Email: rebin.mohammed@tiu.edu.iq						
7	Гeacher's ас		BSc. Computer Engineering – Tishk International University MSc. Software Engineering – University of Kurdistan-Hawler						
Course Objectives:  The main objective of the course is to present the basic web technology concepts are required for developing web applications. The key technology components are La as an MVC Framework, PHP as a server-side programming language, and Bootstrap framework for client-side programming elements. Besides, the course gives specific countries that is beneficial for developing web-based solutions, like relational database communic basics and information security principles and approaches.					e Laravel trap as a c content				
	Course Des (Course ove	erview): Mode deve	On completion of this course, a student will be familiar with client-server architecture, Model–view–controller patterns, and the Lifecycle of a complete web application, and able to develop a web application using PHP. Students will gain the skills and project-based experience needed for entry into a web application and development career.						
			COURSE C	ONTENT					
Week	Hour	Date	Topic						
1	2	8-12/10/201	7 Overview and Introd	uction to MVC and L	aravel.				
2	2	15_10/10/201	7 Laravel Directory Str	ructure (Root and An	n Directory)				

COURSE CONTENT						
Week	Hour	Date	Торіс			
1	2	8-12/10/2017	Overview and Introduction to MVC and Laravel.			
2	2	15-19/10/2017	Laravel Directory Structure (Root and App Directory).			
3	2	22-26/10/2017	Architecture Concepts, Request Lifecycle.			
4	4 2 29/10-2/11/2017 Routing and Controllers: A Quick Introduction to HTTP Verbs, and REST					
5	2	2 5-9/11/2017 Routing and Controllers: Route Definitions, Route Groups, Views				
6	2	12-16/11/2017	Routing and Controllers: Controllers, Resource Controllers			
7	2	19-23/11/2017	Midterm Exam			
8	2	26-30/11/2017	Blade Templating: Echoing Data, Control Structures, Template Inheritance, Binding Data.			
9	2	3-7/12/2017	Databases and Eloquent: Configuration and Connection, Migrations.			
10	2	10-14/12/2017	Databases and Eloquent: Introduction to Eloquent, Creating, and Defining Eloquent Models.			
11	2	17-21/12/2017	Databases and Eloquent: Retrieving Data with Eloquent, Inserts, and Updates with Eloquent, Deleting with Eloquent.			
12	2	24-28/12/2017	Collecting and Handling User Data: Route Data, Validation, Form Requests			
13	2	31/12/2017-4/1/2018	User Authentication and Authorization: The User Model and Migration, The Auth Controllers( Register, Login, Reset Password, Forget Password, Email Verification), Auth routes.			
14	2	7-11/1/2018	Testing: The Testing Environment, Simple Unit Tests, HTTP Tests, Database Tests			
15	2	14-18/1/2018	Final Exam			
16	2	21-25/1/2018	Final Exam			

#### **COURSE/STUDENT LEARNING OUTCOMES**

- 1 Students can convert a static website into dynamic website
- 2 Students can change the content of website via collected information from user
- 3 Students can collect multiple pages into one united structure via URL encoding
- 4 Students can connect a website to a database and build a simple database for the need
- 5 Students can perform four essential progresses (Create/Read/Update/Delete) on the database

COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES							
(Blank : no contribution, I: Introduction, P: Proficient, A: Advanced )  Program Learning Outcomes  Cont.							
1	An ability to analyze a problem, and identify and define the computing requirem				the computing requirements appropriate to its	A	
2	An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs				Α		
3	An ability to function effectively on teams to accomplish a common goal					Р	
4	An understanding of professional, ethical, legal, security, social, and economic issues and				•		
4	responsibilities					•	
5	-	An ability to analyze the local and global impact of computing on individuals, organizations, and society			-	A	
6	An ability to use current techniques, skills, and tools necessary for computing practice				ı		
7	technologies of hu	An ability to use and apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, web systems and technologies					
8				user needs and take th computer-based systen	em into account in the selection, creation, ns	Α	
9	An ability to effective	vely inte	egrate	IT-based solutions into	the user environment	Р	
10	An ability apply protechnologies	blem s	olving	skills, core IT concepts,	best practices, and standards to information	I	
11	An ability to identify	y and e	valuate	e organizational require	ments and current and emerging technologies	Р	
12	An ability to select environment	, design	ı, integi	rate and administer IT-b	pased solutions into the organizational	Α	
Prer	requisites (Course Reading List and References):	IT 240 PROG	- Web RAMM	design, IT 326 - Web P ING I	rogramming, IT 311- OBJECT ORIENTED		
	udent's obligation ial Requirements):	Studen	nts are	required to join the rela	ted Edmodo class and follow all the updates fron	n there.	
1 -14	Weekly	Week	Hour	Date	Topics		
Laborat	tory/Practice Plan:	1	2	8-12/10/2017	Setting Up a Laravel Development Environment	i.	
		2	2	15-19/10/2017	Laravel Directory Structure (Root and App Directory), Configurations, the .env File, Up and Running.		
		3	2	22-26/10/2017	Request Lifecycle		
		4	2	29/10-2/11/2017	Quick Introduction to HTTP Verbs, and REST		
5 2		2	5-9/11/2017	Routing and Controllers: Route Definitions, Route Groups, Views.			
		6	2	12-16/11/2017	Routing and Controllers: Controllers, Resource Controllers		
		7	2	19-23/11/2017	Midterm		
		8	2	26-30/11/2017	Blade Templating: Echoing Data, Control Struct Template Inheritance, Binding Data.	ures,	
		9	2	3-7/12/2017	Databases and Eloquent: Configuration and Connection, Migrations.		
		10	2	10-14/12/2017	Databases and Eloquent: Introduction to Eloque Creating, and Defining Eloquent Models.	ent,	
		11	2	17-21/12/2017	Databases and Eloquent: Retrieving Data with Eloquent, Inserts, and Updates with Eloquent, Eloquent	Deleting	
		12	2	24-28/12/2017	Collecting and Handling User Data: Route Data Validation, Form Requests.	,	
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		14	2	7-11/1/2018	Testing: The Testing Environment, Simple Unit Test HTTP Tests, Database Tests.		
		15	2	14-18/1/2018	Final Exam		
		16	2	21-25/1/2018	Final Exam		

Course Book/Textbook:	<ul> <li>Matt Stauffer, 2019. Laravel: Up &amp; Running: A Framework for Building Modern PHP Apps. O'Reilly Media.</li> <li>Dayle Rees, 2016. Laravel: Code Smart.</li> </ul>	
Other Course Materials/References:	Laravel.com, Laracasts.com, Php.net, W3schools.com  Lectures, Practical Sessions, Presentation, Project	
Teaching Methods (Forms of Teaching):		

COURSE EVALUATION CRITERIA					
Method	Quantity	Percentage (%)			
Attendance and Participation	1	5			
Quiz	5	10			
Assignment	10	10			
Project	1	15			
Midterm Exam(s)	1	20			
Lab/Practical Exam(s)					
Final Exam	1	40			
Total		100			

**Examinations:** True-False, Multiple Choices, Short Answers

## Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD							
Activities	Quantity	Duration (Hour)	Total Work Load				
Course Duration (Including the exam week: 16x Total course hours)			0				
Hours for off-the-classroom study (Pre-study, practice)	2	hours	0				
Assignments Mid-terms	1		0				
Final examination	1		0				
Other			0				
Total Workload			0				
ECTS Credit (Total workload/25)			0				

## Peer review

Signature:Signature:Signature:Name:Name:Name:LecturerHead of DepartmentDean