

UECS3294 ADVANCED WEB APPLICATION DEVELOPMENT CHAPTER 0 : INTRODUCTION

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TIMETABLE

Group	Day	Timing	Location (MS Teams Code)
Lecture			
1	Thursday	8:00am – 10:00am	o3ffwiz
Practicals			
P1	Wednesday	12:00pm – 3:00pm	2rxedg8 (Channel: Practical Group 1)
P3	Friday	2:30pm – 5:30pm	2rxedg8 (Channel: Practical Group 3)
P4	Monday	3:00pm – 6:00pm	2rxedg8 (Channel: Practical Group 4)
P5	Tuesday	12:00pm – 3:00pm	2rxedg8 (Channel: Practical Group 5)

TEACHING PLAN (I)

Week	Lecture Topic	Practical	Assessment
1	Topic 1: Overview of Web Application Frameworks	-	-
2	Topic 2: Routes, Controllers and Views	Practical 1: Developing a web application with a Web Application Framework	-
3	Topic 2: Routes, Controllers and Views	Practical 2: Building Views using a Templating Engine	Assignment: Release of question on 1 Feb 2020
4	Topic 3: Databases and Object-Relational Mapping (ORM)	Practical 3: Building Views using a Templating Engine	-
5	Topic 3: Databases and Object-Relational Mapping (ORM)	Practical 4: Working with Databases and Object-relational Mapping (ORM)	-
6	Topic 4: Forms	Practical 5: Working with Databases and Object-relational Mapping	-

TEACHING PLAN (II)

Week	Lecture Topic	Practical	Assessment
7	Topic 5: Maintaining State	Practical 6: Working with forms	-
8	Topic 6: User Authentication and Authorization	Practical 7: Maintaining state	Test: 11 March 2021 (Thursday) Time: 8am-10am
9	Topic 8: Managing Application Dependencies, Assets and Data Migration	Practical 8: Authentication and Authorization	-
10	Topic 7: Client-side Scripting with JavaScript Library	Practical 9: Practical Assessment	Practical Assessment 26 March 2021 (Friday) 3pm – 6pm
11	Topic 7: Client-side Scripting with JavaScript Library	Practical 10: Managing Application Dependencies, Assets and Data Migration	-
12	Topic 7: Client-side Scripting with JavaScript Library	Practical 11: Using JavaScript Library	Assignment deadline: 9th April 2021, Friday before 12pm
13	Assignment Presentation	Practical 12: Using JavaScript Library	-
14	Revision	-	-

COURSE SUMMARY

- 1)To introduce requirements for development and approach to implementation of wireless applications.**
- 2)To train students to recognize technical and development issues for wireless devices and examine different techniques in resolving such issues.**

COURSE LEARNING OBJECTIVES (CO/CLO)

CLO 1	Build interactive and database-driven web applications using a web application framework and model-view-controller (MVC) software architecture
CLO 2	Build web applications with user authentication and authorization using cookies, session and role-based access control (RBAC)
CLO 3	Use tools to manage application dependencies, assets and data migrations
CLO 4	Develop client-side scripts using a JavaScript library

COURSE ASSESSMENTS

Assessment	Marks (Total)
Continuous Assessment (CA)	60%
Test (CLO 1 and CLO2)	20%
Practical Assessment (CLO 1, CLO 3 and CLO4)	20%
Assignment (CLO 1 and CLO 2)	20%
FINAL ASSESSMENT (FA)	40%
CLO 1	10%
CLO 2	10%
CLO 4	20%

Compulsory Pass (**CA \geq 24% && FA \geq 16% && (CA+FA) \geq 50**)

COURSE MATERIALS/REFERENCES

1) Main References:

2) Stauffer, M. 2016. Laravel: Up and Running: A Framework for Building Modern PHP Apps. Sebastopol, CA: O'Reilly

3) Nutile, A. 2016. Laravel 5.x Cookbook. Birmingham, UK: Packt Publishing

4) Additional References:

5) Lockhart, J. (2015). Modern PHP: New Features and Good Practices. Sebastopol, CA: O'Reilly

6) Tatroe, K., MacIntyre, P., Lerdorf, R. (2013). Programming PHP. Sebastopol, CA: O'Reil

7) Duckett, J. (2014). JavaScript and JQuery: Interactive Front-End Web Development. Indianapolis, IN: Wiley

COURSE PLATFORMS AND TOOLS

- **WAMP Server (Pre-Requisite)**
- **Laravel Framework**
- **Composer (to install Laravel Framework)**
- **Postman (API)**

END OF LECTURE 01