1. Course Profile

1.1 Course Summary

Course ID:	Course Title:	Credit Hours:	Year: 3st
CSE 3100	Web Programming	1.5	Term: 1st

1.2 Rationale

This course involves an overview of Internet communications and information services as well as technologies on which the Internet and the Web are built. It focuses on Web design, development, and scripting and learning the latest tools and techniques for building professional, dynamic, and interactive web pages and sites.

1.3 Course Content

Internet communication protocols such as TCP/IP, FTP, SMTP and HTTP, Basic networking concepts, Advanced Web page development with dynamic HTML, JavaScript, AJAX, jQuery and Cascading Style Sheets, Server-side development technologies such as Perl, PHP, Laravel-PHP Framework, ASP.net, MVC Framework, Java Servlets, JSP and JSP.net, Basic SQL for database interaction.

1.4 CLO to PLO mapping

Course Learning Outcome (CLO) Matrix								
CLOs	CLO Description	Bloom's Learning Levels			PLO Assessed	CLO-PLO Correlation		
			A	P	S			
CLO1	Explain modern communication protocols and systems used on the Web.	2				PLO1	3	
CLO2	Demonstrate the functions of clients and servers on the Web, and describe the strengths and weaknesses of the client-server internet.	3	3			PLO1, PLO2	2, 3	
CLO3	State, access, and manipulate data through the adoption of accepted standards, mark-up languages, client and server-side programming.	4		2		PLO3, PLO5	3, 3	
CLO4	Construct a client-server internet application that accommodates specific requirements based on analysis and modelling.	6		4		PLO4, PLO11	3, 2	

1.5 Lesson Planning with Mapping of CLO, Teaching and Assessment Strategies

	Week	Торіс	Teaching- Learning Strategy	Assessment Strategy	Corresponding CLOs	
С	1	Environment Setup, Internet				
S		Communication Protocols, HTML Basics				
Е	2	CSS and JavaScript Basics		Viva-Voce	CLO1, CLO2, CLO3, CLO4	
3	3	Project Presentation (Front-end)		conducted in		
1	4	Basic PHP and C# (ASP.NET)	Lab (2.5h) x	Lab Class,		
0	5	PHP and ASP.NET Environment Setup,	13 weeks	Regular Lab		
Ô		IDE, Server Setup, PHP/ASP.NET Basics		Work		
0	6	MVC Design Pattern	1	WOIK		
L						

a	7	Header, Session, Cookie, Client-side		
b		Validation		
0	8	Database Connections and Queries		
r	9	Web Service, API		
at	10	XML, JSON		
0	11	Web Deployment		
r	12	Final Project Presentation		
1	13	Final Evaluation	Final Lab Test,	
))			and Quiz, etc.	

1.6 References

- Chris Aquino & Todd Gandee, "Front-End Web Development: The Big Nerd Ranch Guide".
- https://www.w3schools.com/
- https://www.tutorialspoint.com/
- https://laravel.com/
- https://learn.microsoft.com/aspnet/core/
- Lecture slides and notes available during class lecture.

1.7 Tools

- Visual Studio Code
- Visual Studio
- XAMPP
- Microsoft SQL Server Management Studio

1.8 Assessment and Evaluation

	Assessm ent Type	Assessment Tools	Allotted Marks	Assessment No	CLO Assessed	Blooms Category	Sub Total
	Contin uous Assess ment	Class participation, Attendance	10%		CLO1, CLO2, CLO3, CLO4	Understan d, Apply, Analyze, Create	20%
CSE 3100		Quizzes, Viva-Voce conducted in Lab Class, Regular Lab Work	10%				
(Labo ratory	Summ ative Assess ment	Final Project	40%				
)		Viva-Voce Conducted Centrally	10%				80%
		Performance (Final Lab Test, and Quiz, etc.), Report	30%				
Total							