



AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)

Faculty of Science and Technology (FST)

Department of Computer Science (CS)

Undergraduate Program

COURSE PLAN

Summer 2021-2022 SEMESTER

<p>I. Course Core and Title</p> <p>CSC 3215: Web Technologies</p> <p>II. Credit</p> <p>3 credit hours (2 hours of theory + 3 hours of lab per week)</p> <p>III. Nature</p> <p>Core Course for CS, CSE, CSSE, CIS</p> <p>IV. Prerequisite</p> <p>CSC 3112: Software Engineering</p>	<p>V. Vision:</p> <p>Our vision is to be the preeminent Department of Computer Science through creating recognized professionals who will provide innovative solutions by leveraging contemporary research methods and development techniques of computing that is in line with the national and global context.</p> <p>VI. Mission:</p> <p>The mission of the Department of Computer Science of AIUB is to educate students in a student-centric dynamic learning environment; to provide advanced facilities for conducting innovative research and development to meet the challenges of the modern era of computing, and to motivate them towards a life-long learning process.</p>
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VII - Course Description:

- Appreciate the increasing importance of Web technologies and how it is changing the role of the information technology.
- Understand what strategic web development is and apply a framework to help identify strategic uses of Internet.
- Compare the fundamental types of web technologies and how they can be used to provide real business benefit.
- Explore new technologies and issues affecting the web development.
- Apply a web development approach in analyzing the role of web technology in organizations.
- Describe the process used in developing information systems and the concepts of web engineering and web process reengineering.
- Analyze the skills needed for web development professionals.
- Develop real life and society targeted Web Applications.

VIII – Course outcomes (CO) Matrix:

By the end of this course, students should be able to:

COs *	CO Description	Level of Domain**				PO Assessed** *
		C	P	A	S	
CO1	Design professional engineering solutions in societal and environmental contexts		6			PO-c-1
CO2	Explain the flow of process for sustainable digital solution.		6			PO-c-1
CO3	Create a multi-tier web application for targeted society.		6			PO-c-2
CO4	Explain the technical and soft skills of client-server based solution.		6			PO-c-2

C: Cognitive; P: Psychomotor; A: Affective; S: Soft-skills (CT: Critical Thinking, TS: Teamwork)

* CO assessment method and rubric of COs assessment is provided in Appendix section

** The numbers under the 'Level of Domain' columns represent the level of Bloom's Taxonomy each CO corresponds to.

*** The numbers under the 'PO Assessed' column represent the PO (appendix) each CO corresponds.

IX – Topics to be covered in Theory class*:

TOPICS	Specific Objective(s)	Time Frame	Teaching Activities	Assessment Strategy(s)	CO mapped
HTML, HTTP, XML and XHTML	Introduce the students to web technologies and how they can help in the business world.	Week 1	Lecture notes, question	Homework	CO1
PHP Basics and PHP validation	Discussing the advantage and importance of PHP. Generate dynamic HTML with PHP, working with HTML form elements i.e., input validations with PHP	Week 2	Lecture notes, question	Lab work, Assignments	CO1, CO2
Data Access using PHP Object	Discussing the techniques to read and write text files, XML files and parsing JSON data with PHP	Week 3	Lecture notes, question	Homework, Mini-project, Quiz	CO1
PHP Session and Cookie	Working with Session & Cookie in PHP	Week 4	Lecture notes, question	Homework, Mini-project	CO2, CO3
PHP & MySQL	Discussing the use and importance of Database, SQL and PHP.	Week 5	Lecture notes, question	Homework, Quiz	CO4
MVC using PHP	Discussing the advantages and importance of MVC architecture	Week 6	Lecture notes, question	Homework, Mini-project, Assignments	CO3
Midterm Week Week 7					
PHP & MySQL Extended	Further extended practice with SQL Database & PHP.	Week 8	Lecture notes, question	Homework, Mini-project	CO3, CO4
CSS, Introduction to JavaScript	Discussing the use of CSS to apply style to a HTML document., JS history & Execution environment, Discussing the use and importance of JavaScript.	Week 9	Lecture notes, question	Lab work, Quiz	CO3
JavaScript, HTML Form & JavaScript Continued	Applying JavaScript as a client-side execution tool, Client-side form validation using JavaScript	Week 10	Lecture notes, question	Lab work, Assignments	CO2, CO3, CO4
AJAX	Discussing advantages of using JavaScript through AJAX	Week 11	Lecture notes, question	Homework, Mini-project	CO2, CO3, CO4
jQuery	Discussing advantages of using jQuery, Implementing jQuery Ajax	Week 12	Lecture notes, question	Homework, Quiz	CO3, CO4
Project Discussion	Project Discussion	Week 13	Lecture		
Final term Week Week 14					

* The faculty reserves the right to change, amend, add, or delete any of the contents.

XI- Course Requirements

1. Attending at least 80% of the class.
2. Submission of projects in due time

XII – Evaluation & Grading System

The following grading system will be strictly followed in this class

1. Attendance - - - - - 5%
2. Quizzes - - - - - 10%
3. Lab Performance - - - - - 10%
4. Term Project - - - - - 25%
- Total - - - - - 50*2=100%**
- Grand Total - - - - - 40% of Midterm + 60% of Final Term**

The evaluation system will be strictly followed as per the AIUB grading policy.

Letter	Grade Point	Numerical %
A+	4.00	94-100
A	3.75	90-93.99
A-	3.50	86-89.99
B+	3.25	82-85.99
B	3.00	78-81.99
B-	2.75	74-77.99
C+	2.50	70-73.99
C	2.25	66-69.99
C-	2.00	62-65.99
D+	1.75	58-61.99
D	1.50	54-57.99
D-	1.00	50-53.99
F	0.00	<50(Failed)


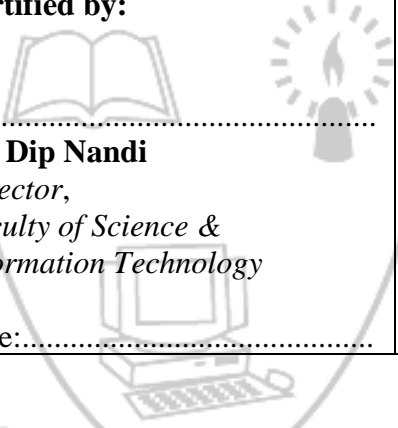
XV – Textbook/ References

1. W3Schools Online Web Tutorials; URL: <http://www.w3schools.com>
2. PHP Documentation; URL: <http://www.php.net/docs.php>
3. Sams Teach Yourself Ajax JavaScript and PHP All in One; Phil Ballard and Michael Moncur; Sams Publishing; 2010
4. JavaScript Phrasebook; Christian Wenz; Sams Publishing; 2007
5. PHP and MySQL Web Development, 4/E; Luke Welling and Laura Thomson; Addison- Wesley Professional; 2009
6. JavaScript for Programmers Paul J. Deitel and Harvey M. Deitel; Prentice Hall; 2009
7. Beginning PHP5, Apache, and MySQL Web Development; Elizabeth Narmore, Jason Gerner, Yann Le Scouarnec, Jeremy Stolz and Michael K. Glass; Wiley Publishing; 2005
8. XML in a Nutshell, 3/E; Elliotte Rusty Harold and W. Scott Means; O'Reilly Media; 2004

XV - List of Faculties Teaching the Course

1. Md. Al-Amin
3. Rashidul Hasan Nabil
4. Kazi Sadia
5. Mir Md. Kawsar
6. Sazzad Hossain (Convener)

XVI – Verification:

Prepared by:  ----- Sazzad Hossain <i>Course Convener</i> Date: 27/01/2022.	Moderated by: ----- Dr. M.M. Mahbubul Syeed <i>Point Of Contact</i> <i>OBE Implementation Committee for CS</i> Date:	
Checked by: ----- Dr. Mahbub Chowdhury <i>Head,</i> <i>Department of Computer</i> <i>Science</i> Date:	Certified by:  ----- Dr. Dip Nandi <i>Director,</i> <i>Faculty of Science &</i> <i>Information Technology</i> Date:	Approved by: ----- Mr. Mashiour Rahman <i>Associate Dean,</i> <i>Faculty of Science &</i> <i>Information Technology</i> Date:

APPENDIX

Table 1: Knowledge Profile (WK / K)

Curriculum		
Indicator		Attribute
K1	Theory based natural science	A systematic, theory-based understanding of the natural sciences applicable to the discipline
K2	Conceptual based mathematics	Conceptually based mathematics, numerical analysis, statistics and the formal aspects of computer and information science to support analysis and modeling applicable to the discipline
K3	Theory based engineering fundamentals	A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline
K4	Forefront specialist knowledge for practice	Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline
K5	Engineering Design	Knowledge that supports engineering design in a practice area
K6	Engineering Practice (Technology)	Knowledge of engineering practice (technology) in the practice areas in the engineering discipline
K7	Comprehension of engineering in society	Comprehension of the role of engineering in society and identified issues in engineering practice in the discipline: ethics and the engineer's professional responsibility to public safety; the impacts of engineering activity; economic, social, cultural, environmental and sustainability
K8	Research Literature	Engagement with selected knowledge in the research literature of the discipline

Table 2: Range of Complex Engineering Problem Solving (WP / P)

Complex Engineering Problems have characteristic P1 and some or all of P2 to P7

Indicator	Title	Description
P1	Depth of knowledge required	Cannot be resolved without in-depth engineering knowledge at the level of one or more of K3, K4, K5, K6 or K8 which allows a fundamentals-based, first principles analytical approach
P2	Range of conflicting requirements	Involve wide-ranging or conflicting technical, engineering and other issues
P3	Depth of analysis required	Have no obvious solution and require abstract thinking, originality in analysis to formulate suitable models
P4	Familiarity of issues	Involve infrequently encountered issues
P5	Extent of applicable codes	Are outside problems encompassed by standards and codes of practice for professional engineering
P6	Extent of stakeholder involvement and conflicting requirements	Involve diverse groups of stakeholders with widely varying needs
P7	Interdependence	Are high level problems including many component parts or sub-problems

Table 3: Range of Complex Engineering Activities (A)

Complex activities means (engineering) activities or projects that have some or all of the following characteristics

Indicator	Title	Description
A1	Range of resources	Involve the use of diverse resources (and for this purpose resources include people, money, equipment, materials, information and technologies)
A2	Level of interaction	Require resolution of significant problems arising from interactions between wide-ranging or conflicting technical, engineering or other issues
A3	Innovation	Involve creative use of engineering principles and research-based knowledge in novel ways
A4	Consequences for society and the environment	Have significant consequences in a range of contexts, characterized by difficulty of prediction and mitigation
A5	Familiarity	Can extend beyond previous experiences by applying principles-based approaches

Mapping of PO / PLOs to CS Courses and K, P, A

PO-a: Engineering Knowledge Apply knowledge of mathematics, natural science, engineering fundamentals and an engineering specialization as specified in K1 to K4 respectively to the solution of complex engineering problems								
PO Indicator ID	PO Indicators Definition (As per the requirement of WKS)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-a-1	Apply information and concepts in natural science with the familiarity of issues.	Cognitive Level 3 (Applying)	CSC 4125 Computer Science Mathematics	CSC 1101 Introduction to Computer Studies		K1 Theory based natural science	P1	
PO-a-2	Apply information and concepts of mathematics with the familiarity of issues.	Cognitive Level 3 (Applying)	CSC 2211: Algorithms	CSC 1204: Discrete Mathematics	CSC 4233 Natural Language Processing	K2 Conceptual based mathematics	P1	
PO-a-3	Apply information and concepts in engineering fundamentals to solve complex engineering problems with a range of conflicting requirements.	Cognitive Level 3 (Applying)	CSC 3113: Theory of Computation	CSC 4232 Machine Learning		K3 Theory based engineering fundamentals	P1, P2, P3	
PO-a-4	Apply information and concepts in specialized engineering sciences with the in-depth of analysis of a complex engineering problem.	Cognitive Level 3 (Applying)	CSC 3220: Compiler Design	CSC 4231 Parallel Computing	CSC 4251 Image Processing	K4 Forefront specialist knowledge for practice	P1, P2, P3	

PO-b: Problem Analysis

Identify, formulate, research literature and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences. (K1 to K4).

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-b-1	Identify first principles of natural sciences and engineering sciences in practical applications.	Cognitive Level 2 (Understanding)	CSC 4230 Bioinformatics	CSC 1204: Discrete Mathematics		K1 Theory based natural science	P1	
PO-b-2	Formulate solutions, procedures, and methods using first principles of mathematics for engineering sciences.	Cognitive Level 4 (Analyzing)	CSC 2105: Data Structure	CSC 4126 Basic Graph Theory	CSC 4233 Natural Language Processing	K2 Conceptual based mathematics	P1	
PO-b-3	Analyze solutions for complex engineering problem reaching substantiated conclusion.	Cognitive Level 5 (Evaluating)	CSC 3214 Operating Systems	CSC 4128 Linear Programming	CSC 4127 Advanced Algorithm Techniques	K3 Theory based engineering fundamentals	P1, P3	
PO-b-4	Research literature of engineering science and analyze the validity and accuracy of existing solution for complex engineering problems.	Cognitive Level 4 (Analysis)	CSC 2209 Object Oriented Analysis and Design	CSC 3214 Operating Systems		K4 Forefront specialist knowledge for practice	P1, P3, P7	

PO-c: Design/ development of solutions

Design solutions for complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations. (K5).

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-c-1	Design solutions for a complex engineering problem	Psychomotor Level 6 (Create)	CSC 3215 Web Technologies	CSC 4264 Advanced Programming with .NET	CSC 1205 Object Oriented Programming 1	K5 Engineering Design	P1, P3, P5, P6	A3, A4

	considering public health and safety.							
PO-c-2	Develop system or components that meets specific needs considering health, safety and environment.	Psychomotor Level 6 (Create)	CSC 4262 Programming in Python	CSC 4263 Advanced Programming with JAVA	CSC 3215 Web Technologies	K5 Engineering Design	P1, P3, P7	A3, A4

PO-d: Investigation

Conduct investigations of complex problems using research-based knowledge (K8) and research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-d-1	Conduct investigations of complex problems using research-based knowledge	Cognitive Level 5 (Evaluating)	CSC 4180 Introduction to Data Science	CSC 4298 Thesis/Project	CSC 4285 Data Warehouse and Data Mining	K8 Research Literature	P1, P2, P3, P4, P7	
PO-d-2	Use appropriate research methods including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.	Psychomotor Level 6 (Create)	CSC 4180 Introduction to Data Science	CSC 4298 Thesis/Project	CSC 4285 Data Warehouse and Data Mining	K8 Research Literature	P1, P4, P5, P6	A2, A3

PO-e: Modern Tool Usage

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modelling, to complex engineering problems, with an understanding of the limitations. (K6).

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-e-1	Select and apply appropriate techniques, tools and resources (e.g., prediction & modeling) to solve complex engineering problems considering their limitations.	Cognitive Level 3 (Applying)	CSC 2210 Object Oriented Programming 2	CSC 2107: Introduction to Database	CSC 4271 Software Quality and Testing	K6 Engineering Practice (Technology)	P1, P4	A1, A2, A3

PO-e-2	Create appropriate techniques, tools or resources (e.g., prediction & modeling) to solve complex engineering problems considering their limitations.	Psychomotor Level 6 (Create)	CSC 2209: Object Oriented Analysis and Design	CSC 2210 Object Oriented Programming 2	CSC 4272 Mobile Application Development	K6 Engineering Practice (Technology)	P1, P4, P7	A1, A2, A3
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PO-f: The Engineer and Society

Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problems (K7)

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-f-1	Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues in relation to professional engineering practice and solution.	Cognitive Level 5 (Evaluate)	CSC4226: Artificial Intelligence and Expert System	CSC 3114: Software Engineering		K7 Comprehension of engineering in society	P1, P4, P5	
PO-f-2	Assess the consequent responsibilities relevant to professional engineering practice and solutions to complex engineering problems.	Cognitive Level 4 (Analyze)	CSC4226: Artificial Intelligence and Expert System	CSC 3114: Software Engineering		K7 Comprehension of engineering in society	P1, P6	

PO-g: Environment and Sustainability

Understand and evaluate the sustainability and impact of professional engineering work in the solution of complex engineering problems in societal and environmental contexts. (K7)

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-g-1	Understand the sustainability and impact of professional engineering work in the solution of complex engineering problems in societal and environmental contexts.	Cognitive Level 5 (Evaluate)	CSC 4273 Software Architecture & Design Patterns	CSC 4118 Computer Graphics		K7 Comprehension of engineering in society	P1, P3, P4	

PO-g-2	Evaluate the sustainability and impact of professional engineering work in the solution of complex engineering problems in societal and environmental contexts.	Cognitive Level 5 (Evaluate)	CSC 3216 Compiler Design	CSC 4251 Image Processing	CSC 4270 Software Development Project Management	K7 Comprehension of engineering in society	P1, P5, P7	
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PO-h: Ethics

Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice. (K7)

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-h-1	Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.	Psychomotor Level 3 (Apply)	CSC 4195: Research Methodology	CSC 4183 Cyber Laws & Information Security		K7 Comprehension of engineering in society		

PO-i: Individual and Team work

Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-i-1	Function effectively as an individual in diverse teams and in multi-disciplinary settings.	Affective Level 5 (Evaluate)	CSC 4298 Thesis/Project	CSC 1102 Introduction to Programming Language	CSC 4254 Computer Vision & Pattern Recognition	X		
PO-i-2	Function effectively as a member or leader in diverse teams and in multi-disciplinary settings.	Affective Level 5 (Evaluate)	CSC 4298 Thesis/Project	CSC 1102 Introduction to Programming Language	CSC 4254 Computer Vision & Pattern Recognition	X		

PO-j: Communication
 Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-j-1	Comprehend and write effective reports and design documentation for effective communication on complex engineering activities.	Psychomotor Level 5 (Evaluate)	CSC 4195: Research Methodology	CSC 2210 Object Oriented Programming 2		X	P1, P2, P3	A1, A3, A5
PO-j-2	Make effective presentations to exchange clear instructions with engineering community and the society at large.	Psychomotor Level 6 (Create)	CSC 4299 Internship	CSC 4298 Thesis/Project		X		A1, A4

PO-k: Project Management and Finance
 Demonstrate knowledge and understanding of engineering management principles and economic decision making and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-k-1	Apply engineering management principles and economic decision to manage project as a team member / team leader.	Psychomotor Level 3 (Apply)	CSC 4298 Thesis/Project	CSC 4261 Advanced Programming in Web Technologies	CSC 4160 Software Requirement Engineering	X		A2, A3, A5

PO-k-2	Apply engineering management principles and economic decision to manage project in multidisciplinary environments.	Psychomotor Level 3 (Apply)	CSC 4298 Thesis/Project	CSC 4181 Advance Database Management Systems	CSC 4251 Image Processing	X	A2, A3, A5
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PO-I: Lifelong learning								
Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.								
PO Indicator ID	PO Indicators Definition (As per the requirement of Wks)	Domain	Course 1	Course 2	Course 3	K	P	A
PO-I-1	Identify the need and prepare accordingly for independent learning in solving complex engineering problems and change of technologies.	Affective Level 5 (Evaluate)	CSC 4298 Thesis/Project	CSC 4160 Software Requirement Engineering		X		A1, A2, A3
PO-I-2	Demonstrate the ability to engage in independent and life-long learning in the broadest context of technological change.	Psychomotor Level 6 (Create)	CSC 4299 Internship	CSC 4182 Human Computer Interaction		X		A1, A3, A5

Mapping of CO Assessment Method and Rubric

The mapping between Course Outcome(s) (COs) and The Selected Assessment method(s) and the mapping between Assessment method(s) and Evaluation Rubric(s) is shown below:

CO	Description	Learning Domain	Assessment Method	Assessment Rubric
CO1	Design professional engineering solutions in societal and environmental contexts	Psychomotor	Project Report	Rubric for Project Report

CO2	Explain the flow of process for sustainable digital solution.	Psychomotor	Project and Presentation	Rubric for Project and Presentation
CO3	Create a multi-tier web application for targeted society.	Psychomotor	Project Report	Rubric for Project Report
CO4	Explain the technical and soft skills of client-server based solution.	Psychomotor	Project and Viva	Rubric for Project and Viva

Rubric for Project Report (CO1)

Evaluation Criteria:

Category	Evaluation Definition
Project Proposal	Identify, formulate, and give an overview of the problem for the targeted society. Describe internal and external objective of the project with motivation behind it.
Background Study	Finding works that provided solutions for the related problem and a review of the area being researched, current information surrounding the issue.
Requirement Analysis	Determine and envisage different analytical artifacts to illustrate the system behavior and events occurrence during user activity.

Assessment Criteria:

Criteria	Assessment Criteria				
	Not Attended (0)	Inadequate (1)	Satisfactory (2)	Good (3-4)	Excellent (5)
Project Proposal					
Background Study					
Requirement Analysis					

Rubric for Project Report and Presentation (CO2)

Evaluation Criteria:

Category	Evaluation Definition
Entity Diagram	Designing the proper database model diagram to reflect the system functionalities and roles in between users.
System Images against the Specification	Proper UI designs for the engineering solution to adapt to interactive and user-friendly experiences. Evaluating how well the UI is designed

Assessment Criteria:

Criteria	Assessment Criteria				
	Not Attended (0)	Inadequate (1)	Satisfactory (2)	Good (3-4)	Excellent (5)
Entity Diagram					
System Images against the					

Specification					
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Rubric for Project Report (CO3)

Evaluation Criteria:

Category	Evaluation Definition
Completeness	Complete the project with implementing all the given requirements
Validation	Validate all inputs taken from user through html forms. Use php code for validation.
Feature Implementation against the Requirements	Implement relevant features based on the project nature and description. Core features could be login, registration, forget password and so on.

Assessment Criteria:

Criteria	Assessment Criteria				
	Not Attended (0)	Inadequate (1)	Satisfactory (2)	Good (3-4)	Excellent (5)
Completeness					
Validation					
Feature Implementation against the Requirements					

Rubric for Project and Viva (CO4)

Evaluation Criteria:

Category	Evaluation Definition
Concept Understanding	Student's ability to explain usefulness of different modules integrated in multiple components of the application
Promptness	Compose a well-structured report that indicates efficacy of overall project completion with vital implementation details.

Assessment Criteria:

Criteria	Assessment Criteria				
	Not Attended (0)	Inadequate (1)	Satisfactory (2)	Good (3-4)	Excellent (5)
Concept Understanding					
Promptness					