UNITED INTERNATIONAL UNIVERSITY

Department of Computer Science and Engineering (CSE)

Course Outline

1	**Course Title**	**Project Management**
2	**Course Code**	**PMG 4101**
3	**Trimester and Year**	**Fall 2024**
4	**Pre-requisites**	CSE 3411
5	**Credit Hours**	**3.0**
6	**Section**	**C**
7	**Class Hours**	**Sunday – Wednesday, 12:30 PM - 1:50 PM**
8	**Class Room**	**Room 604**
9	**Instructor's Name**	**Dr. Suman Ahmmed**
10	**Email**	suman@cse.uiu.ac.bd (any time, best option) 01765049901 (**WhatsApp/SMS** preferred)
11	**Office**	**CDIP Office, Room: 1035 (10th floor)**
12	**Counselling Hours**	**Sunday, Wednesday: 09.00 AM – 11.00 AM** **Tuesday: 9.00 AM – 1.00 PM**
13	**Text Book**	**Applied Software Project Management - Andrew Stellman and Jennifer Greene**
14	**Reference**	Academic Slides, Research paper and online materials
15	**Course Contents (approved by UGC)**	Triple Constraint in Project Management: Time, Scope and Cost; Process methodology, Requirement Collection, Plan, schedule a project including risk assessment with proper documentation and presentation. Cost Estimation, Optimization, and performance calculation, Change management, Quality improvement, Use of Modern tools in project planning, resource allocation and estimation.
16	**Course Outcomes (COs)**	

COs	Description
CO1	Able to understand project, project management / process methodology for software project management
CO2	Able to Collect Requirement, Plan and Schedule a project including risk assessment with proper documentation, presentation, and design
CO3	Estimation, Optimization and Process improvement
CO4	Change management, Review Techniques
CO5	Able to use modern tools in project planning, resource allocation and estimation.

17	**Teaching Methods**	Lecture, Lecture Slides, Research works, Online materials, Project Management tools

18 CO with Assessment Methods

CO	Assessment Method	(%)
--	Attendance	5%
CO1 – CO5	Class Test	20%
CO1 – CO5	Assignment	5%
CO1, CO2, CO3	Mid Term (25+5)	30%
CO2, CO3, CO4, CO5	Final exam (35 + 5)	40%

19 Mapping of COs and Program Outcomes

COs	Program Outcomes (POs)											
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	X	X									X	
CO2	X	X	X							X	X	
CO3			X	X			X			X	X	
CO4	X		X									
CO5				X	X		X				X	
CO6							X			X		

20 Lecture Outline

Week	Topics/Assignments	COs	Instruments	Assessment Method
1 – 2	Project management, Different methodology of project management. Inception on Research work and group formation	CO1 CO6	- Slides - Book - Research Materials	- Assignment - Group-wise Presentation
3 – 4	Project Planning and schedule on SRS documents. Study and consider Risk planning	CO2	- Slides - Online Materials - Case Study/Project - Book	- Assignment - Group-wise project's presentation - Final Exam
5 – 6	Estimation through WBS method, Delphi method	CO3	- Slides - Online Materials - Case Study/Project - Book	- Assignment - Group-wise project's presentation - Final Exam - Demonstration Research progress
7 – 8	Estimation through COCOMO method	CO3	- Slides - Online Materials - Book	- Assignment - Group-wise project's presentation

		Quality/process improvement CMMI, six sigma etc.			- Final Exam
	09 - 10	Change management methods, Review Techniques	CO4	- Slides - Online Materials - Book	- Assignment - Group-wise project's presentation - Final Exam - Demonstration Research progress
	11 – 12	Study on contemporary PM tools. Managing the Software project through modern PM tools Project Closing	C05	- PM Tools - Slides - Online Materials	- Assignment - Group-wise project's presentation - Research work demonstration and evaluation

Appendix 1: Grading Policy

Letter Grade	Marks %	Grade Point	Letter Grade	Marks%	Grade Point
A (Plain)	90-100	4.00	C+ (Plus)	70-73	2.33
A- (Minus)	86-89	3.67	C (Plain)	66-69	2.00
B+ (Plus)	82-85	3.33	C- (Minus)	62-65	1.67
B (Plain)	78-81	3.00	D+ (Plus)	58-61	1.33
B- (Minus)	74-77	2.67	D (Plain)	55-57	1.00
			F (Fail)	<55	0.00

Appendix 2: Program outcomes

POs	Program Outcomes
PO1	An ability to apply knowledge of mathematics, science, and engineering
PO2	An ability to identify, formulate, and solve engineering problems
PO3	An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
PO4	An ability to design and conduct experiments, as well as to analyze and interpret data
PO5	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
PO6	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
PO7	A knowledge of contemporary issues
PO8	An understanding of professional and ethical responsibility
PO9	An ability to function on multidisciplinary teams
PO10	An ability to communicate effectively
PO11	Project Management, risk management concepts and Finance
PO12	A recognition of the need for, and an ability to engage in life-long learning