

UNITED INTERNATIONAL UNIVERSITY

Department of Computer Science and Engineering (CSE) Course Syllabus

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1	Course Title	Object Oriented Programming Laboratory					
2	Course Code	CSE 1116					
3	Trimester and Year	Fall2024					
4	Pre-requisites	CSE 1112 Structured Programming Language Laboratory					
5	Credit Hours	1.0					
6	Section	B, C					
7	Class Hours	Tuesday 11:10 AM – 01:40 PM, Saturday 11:10 AM – 01:40 PM					
8	Class Room	522, 523					
9	Instructor's Name	Mir Moynuddin Ahmed Shibly					
10	Email	moynuddin@cse.uiu.ac.bd					
11	Office	536(C)					
12	Counselling Hours	United International University School of Science & Engineering (SoSE)					
		TUE CnH CnH CSE 1116 (B) - 522 CSE 1116 (B) - 522 CnH CSE 4783 (A) - 301 WED CSE 4531 (D) - 325 CnH CSE 4165 (E) - 422 CSE 4165 (E) - 422					
13	Text Book	Java The Complete Reference, Herbert Schildt Course Materials: Course Materials					
14	Reference	Head First Java(O'Reilly – Kathy Sierra & Bert Bates) Java: How to Program, 9th Edition (Deitel)					
15	Course Contents (approved by UGC)	Laboratory work based on CSE 1115					

16 Course Outcomes (COs)

COs	Statement	Bloom's Domain	Program Outcome	Knowledge Profile	Comple x Problem	Engine ering Activit
		Domain			Troblem	ies
CO1	Understand and apply the	С	A	K3	P1	
	Object Oriented		Engineering	Engineering	Depth of	
	Programming Features in		Knowledge	Fundamentals	Knowled	-
	solving programming				ge	
	problems.			K6		
CO2	Use a modern/popular	С	Е	Engineering		
	IDE to develop the		Modern	Practice		-
	application.		Tool Usage			
CO3	Able to efficiently use the	C	E			
	standard framework		Modern			-
	specific libraries		Tool Usage			

17 Teaching Methods | Lecture, Case Studies, Project Developments.

18 CO with Assessment Methods

СО	Assessment Method	(%)
-	Attendance	10
-	Online	20
CO1, CO2, CO3	Offline (Assignments)	20
CO1, CO2	Mid Term	25
CO1, CO2, CO3	Final Exam	25

19 Mapping of COs and Program outcomes

		Program Outcomes(POs)										
COs	PO a	PO b	PO c	PO d	PO e	PO f	PO g	PO h	PO i	PO j	PO k	PO l
CO1			X									
CO2					X							
CO3	·	·			X							·

	Lab Ou	tline			
		Class	Topics/Assignments	COs	Lab Outcomes/Activities
		Lab1	Introduction to Java, Tool Set up, Hello World program	CO1, CO2	Able to Use the tool to develop application using OOP features.
		Lab2	Array, Control Statement, Introduce the concept of Class and Object, class members. Show how to create object and access members of the class.	CO1, CO2	Able to create class, object and use the member of the class via reference variable.
		Lab3	Class and Object continued. Introduce taking user input using scanner & JOptionPane	CO1, CO2	Make the student comfortable with Class and Object. Explain how to take user input and develop code involving user input.
		Lab4	Inheritance and Method Overriding	CO1	Explain what inheritance and method overriding are and where to use these features. Able to develop code using inheritance and overriding.
		Lab5	Method Overloading, Abstract Class	CO1	Explain what abstraction and overloading are and where to use these features. Able to develop application using these features.
		Lab6	Mid Exa	n	
		Lab7	GUI	CO1, CO2, CO3	Explain different components of GUI. Able to develop GUI application with proper event handling code.
		Lab8	IO and Exception	CO1, CO2, CO3	Explain IO model. Explain Exception Handling process. Able to develop application with IO and

			proper Exception handling code.
Lab9	Collections Framework	CO1, CO2 CO3	Explain ArrayList, HashSet, HashMap and use those to create collections of java objects.
Lab10	Thread	CO1, CO3	Explain what Thread is and how to create/run multiple Threads. Able to develop a simple multi threaded application.
Lab11	Game development using GUI Graphics	CO1, CO2, CO3	Able to develop a simple gaming application using Graphics and Timer/Thread.
Lab12	Final Exa	m	

Appendix 1: Assessment Methods

Assessment Method	(%
)
Attendance	10
Lab Performance	20
Assignments	20
Mid Exam	25
Final Exam	25

Appendix 2: Grading Policy

Letter	Marks %	Grade	Letter	Marks	Grade
Grade		Point	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-3: Program outcomes

POs	Program Outcomes
P01	An ability to apply knowledge of mathematics, science, and engineering
P02	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
P04	An ability to design and conduct experiments, as well as to analyze and interpret data
P05	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
P06	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
P07	A knowledge of contemporary issues
P08	An understanding of professional and ethical responsibility
P09	An ability to function on multidisciplinary teams
P010	An ability to communicate effectively
P011	Project Management and Finance
P012	A recognition of the need for, and an ability to engage in life-long learning