

Department of Liberal Education Era University, Lucknow Course Outline

Effective From: 2023-24

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Name of the	B.A. / B.Sc. (LIBERA	AL EDUCA	TION)	Year/ Semester:	2 nd /4 th	2 nd /4 th			
Program	I D	C	CC202D	Т	D42	_1			
Course	Java Programming Lab	Course	CS202P	Type:	Practical				
Name Credits		Code:		Total Practical Hours	_	20			
Evaluation	Internal	01 10 Marks		End Term Exam:		30 Marks			
Spread	Continuous	10 IV	Tarks	End Term Exam:	15	Marks			
Spread	Assesment:								
Type of	Assesment.								
Course	C Compulsory	Core	;	C Creative	C Life Skill				
Course	To learn the	object orie	ented concer	ots and apply them in sol	ving proble	ms in iava			
Objectives				ee, Interfaces and Polymo		ms m java.			
				handling, Multithreadin	•	rages			
				•	•	•			
	To learn the concepts of Graphical User Interface using Applets and AWT Controls.								
Course Outo		the succes	sful course	completion, learners	will devel	op following			
attributes:	(00)(11)(0.		sym com se	compression, realisters		op jouening			
Course									
Outcome	Attributes								
(CO)									
CO1	Able to implement classes, objects, members of a class and relationships among them								
	needed for a specific problem.								
CO2	Able to implement programs using concepts of Inheritance, Interfaces, and Polymorphism.								
CO3	Able to develop Java Programs using the concepts of Exception Handling Multithreading,								
	and Packages.								
CO4	Able to develop the GUI based web applications using Applets and various AWT controls.								
Pedagogy	Interactive, discussion-based, student-centered, program outputs.								
Internal	Experiment-Writing and Conductance								
Evaluation	File Maintenance/ Laboratory Record								
Mode	Continuous Attendance and Participation								
Practical		Expo	Contact	Mapped					
No.	_				Hours	CO			
1.	Program illu	4	CO1, CO2						
	Write a Java Program to define a class, describe its								
	constructor, overload the Constructors, and instantiate its								
2		object.							
2.	• Write a Java Program to implement inheritance. 6 CO2								
	Program illustrating Method Overloading and Method								
2	Overriding.								
3.	• Program illustrating concept of Interface. 6 CO3								
	Program illustrating use of Final and Super keyword.								
4.				tice using the String	6	CO2, CO4			
	class and its methods.								
		Write a Java program to implement the concept of							
	importing classes from user-defined packages and								
	creating pa								

5.		•	The	progra	m illus	strates	the follo	owing				8	CO3	, CO4
		 The program illustrates the following a) Handling predefined exceptions. 												
		b) Handling user-defined exceptions.												
		_	,		_		ıltiple tl							
		•	_	•		_	impie u	meaus						
a) Using Thread class.														
			b) U	sing R	unnabl	le Inter	face.							
CO-P	O and I	PSO M	apping											
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	1	1	2	1	1	1	2	3	3	1	2	2	2	2
CO2 CO3	2	3	3	1	1	3	2	1	2	2 2	1	1	2	3
CO4	1	2	2	1	1	1	3	1	2	3	1	2	1	1
Strong contribution-3, Average contribution-2, Low contribution-1,														
Suggested Readings:														
Refere	Reference 1. Java The Complete Reference, Herbert Schildt, TMH,9 th Edition,2014.													
		Norton, "Peter Norton Guide to Java Programming", Techmedia												
	Publications.													
E -	https://onlinecourses.nptel.ac.in/noc22_cs47													
1111551		//archive.nptel.ac.in/courses/106/106/106106220/												
<u>nttps://archive.nptof.ac.ni/courses/100/100/100220/</u>														
Internal Practical Evaluation: Component Marks														
Component				KS										
Experiment-Writing and			5											
Conductance														
File Maintenance/			2											
Laboratory Record														
Continuous Attendance and			1											
Participation														
Partici	panon			1										
Viva-V				2										

Course created by: Dr. Mohd Haleem	Approved by: Prof. Mansaf Alam					
Signature:	Signature:					