



INSTITUTE OF HIGHER EDUCATION AND RESEARCH



Date:

11.10.2021

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Requisition Letter

From Dr. K.P.Kaliyamurthie, Professor & Head, Department of CSE, Bharath Institute of Higher Education and Research, Chennai

To The Dean Engineering, Bharath Institute of Higher Education and Research, Chennai

Respected sir

Subject: Request of Permission to conduct a value added course on "Course on Java Skills and Java Certification" -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on "Course on Java Skills and Java Certification" in our campus premises on 17/10/2021.

55 students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

Timing: 9 am to 4.30 pm

Submitted to Principal for approval to organize this value added course.

DEAN ENGIN

Bharath Institute of Higher Education & Research (Declared as Deemed to be University U/S 3 of UGC Act, 1956) Chennai-600 073. INDIA



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

CIRCULAR

13.10.2021

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on "Course on Core Java Skills and Java Certification" for the benefit of II, III and IV year students. This course is scheduled from 17.10.2021 for 30 hours which includes theory and practical. The timings are 01:30 PM to 04:30 PM

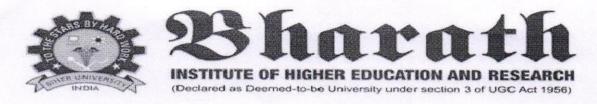
All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr.C.Nalini	Professor
2	S.Pothumani	Assistant Professor

Head of Department

To

Copy to CSE

Copy to IT



COURSE ONCORE JAVA SKILLS AND JAVA CERTIFICATION

Date of Introduction of the Course: 17.10.2021

COURSE SYLLABUS

1. BASICS OF JAVA

History and Features of Java, C++ vs Java, Hello Java Program, Internal How to set the path?, JDK, JRE, and JVM (Java Virtual Machine), JVM Memory Management, Internal details of JVM, Unicode System, Operators, Keywords, and Control Statements like if-else, switch, For loop, while loop, etc.

2. CLASS, OBJECT, AND TYPES OF CLASSES

Classes, Objects, and Features, Object declaration and initialization, Life cycle of an object, Anonymous object in Java, Classes and Objects in java with Realtime examples

3. PACKAGES IN JAVA

Package naming conventions, Sub packages, Types of packages such as user-defined packages, built-in packages, Importing packages in Java

4. DATA TYPES IN JAVA

Data types in Java - Primitive data types, Non-primitive data types, Memory allocation of primitive and non-primitive data types, etc.

5. VARIABLES, CONSTANTS, AND LITERALS

Variable declaration & initialization - Naming convention, Types of variables such as local variables, instance variables, and static variables, Scope and memory allocation of variables.

6. METHODS IN JAVA

Methods in Java - Use of method in Java, Method declaration, method signature, Types of methods in Java: predefined method, user-defined methods: instance method, static method, Calling of method, Java main method, Return type in Java.

7. CONSTRUCTOR IN JAVA

What is Constructor in Java? ,Types of constructors: Default and Parameterized constructors, Java constructor overloading, Constructor chaining in java, Copy constructor in Java

8. INNER CLASSES AND WRAPPER CLASSES

Introduction, Member Inner Class, Static Inner Class, Local Inner Class, Anonymous Inner Class, Introduction, Byte, Short, Integer, Long, Float, Double, Character, Boolean classes

9. COLLECTION FRAME WORK

Introduction, Util Package interfaces, List, Set, Map, List Interface 7 Its Classes, Set Interface & Its Classes, Map Interface & Is Classes

10. AWT

Introduction, Components, Event-Delegation-Model, Listeners, Layouts, Individual Components Lable, Button, Check Box, Radio Button, Choice, List, Menu, Text Field, Text Area

11. SWING (JFC)

Understanding Session Hijacking, Phases involved in Session Hijacking, Types of Session Hijacking, Session Hijacking Tools -Introduction Diff B/W AWT and SWING, Hierarchy, Individual Swings components J Label, JButton, JTextField, JTextAres

12. WEB SERVER AND APPLICATION SERVER

Tomcat-Introduction, Overview, installation, Configuring Tomcat, Jboss server-Introduction, Overview, Installation and Configuration, Comparison

13. SQL and JDBC

Basics of SQL queries, SQL Joins, JDBC Introduction, JDBC Architecture, Types of Drivers, Statement, Result Set, Read Only Result Set, Updatable Result Set, Forward Only Result Set, Scrollable Result Set, Prepared Statement

14. SERVLETS

Introduction, Web application Architecture, HTTP Protocol & HTTP Methods, Web Server & Web Container, Servlet Interface, HTTPServlet, GenericServlet, Servlet Life Cycle, Servlet Config, Servlet Context, Servlet Communication

15. JSP

Introduction, JSP LifeCycle, JSP Implicit Objects & Scopes, JSP Directives
COURSE OBJECTIVES

This course enables programmers to develop a single application that can run across multiple platforms seamlessly and reliably. In this hands-on course, students gain extensive experience with Java and its object-oriented features. Students learn to create robust console and GUI applications and store and retrieve data from relational databases. Upon completion of the course students should be able to:

- · Build robust applications using Java's object-oriented features
- Create robust applications using Java class libraries
- Develop platform-independent GUIs
- · Read and write data using Java streams
- · Retrieve data from a relational database with JDBC

COURSE CO-ORDINATOR

HEAD OF THE DEPARTMENT

Department of Computer Scie & EnggBharath Institute of Higher Education & Research
Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chemnal-600 073. INDIA



COURSE ON CORE JAVA SKILLS AND JAVA CERTIFICATION

Date of Introduction of the Course:17.10.2021

Time Table& Lesson plan

CLASS	DATE	TOPIC
1,2	17-10-2021(AN)	1. BASICS OF JAVA
		History and Features of Java, C++ vs Java, Hello Java
		Program, Internal How to set the path?, JDK, JRE, and
		JVM (Java Virtual Machine),JVM Memory
		Management, Internal details of JVM, Unicode System
		Operators, Keywords, and Control Statements like if-else
		For loop, while loop, etc.
3,4	21-10-2021(AN)	2. CLASS, OBJECT, AND TYPES OF CLASSES
		Classes, Objects, and Features, Object declaration and
		initialization, Life cycle of an object, Anonymous object
		in Java, Classes and Objects in java with Realtime
		examples
5,6	22-10-2021(FN&AN)	3.PACKAGES IN JAVA
		Package naming conventions, Sub packages, Types of
		packages such as user-defined packages, built-in
		packages, Importing packages in Java
7,8	28-10-2021(AN)	4. DATA TYPES IN JAVA
		Data types in Java - Primitive data types, Non-primitive
		data types, Memory allocation of primitive and non-
		primitive data types, etc.
9,10	29-10-2021(FN)	5.VARIABLES, CONSTANTS, AND LITERALS
		Variable declaration & initialization - Naming
		convention, Types of variables such as local variables,
		instance variables, and static variables, Scope and
		memory allocation of variables.
11,12	29-10-2021(AN)	6. METHODS IN JAVA
	04-11-2021(AN)	Methods in Java - Use of method in Java, Method
		declaration, method signature, Types of methods in Java
		predefined method, user-defined methods: instance
		method, static method, Calling of method, Java main
		method, Return type in Java.
13,14	04-11-2021(AN)	7. CONSTRUCTOR IN JAVA
	05-11-2021(FN)	What is Constructor in Java? ,Types of constructors:
		Default and Parameterized constructors, Java constructor
		overloading, Constructor chaining in java, Copy
		constructor in Java

15,16	05-11-2021(AN)	8. INNER CLASSES AND WRAPPER CLASSES Introduction, Member Inner Class, Static Inner Class, Local Inner Class, Anonymous Inner Class, Introduction, Byte, Short, Integer, Long, Float, Double, Character, Boolean classes
17,18	11-11-2021(AN)	9. COLLECTION FRAME WORK Introduction, Util Package interfaces, List, Set, Map, List Interface 7 Its Classes, Set Interface & Its Classes, Map Interface & Is Classes
19,20	12-11-2021(FN)	10. AWT Introduction, Components, Event-Delegation-Model, Listeners, Layouts, Individual Components Lable, Button, Check Box, Radio Button, Choice, List, Menu, Text Field, Text Area
21,22	12-11-2021(AN) 18-11-2021(AN)	11. SWING (JFC) Understanding Session Hijacking, Phases involved in Session Hijacking, Types of Session Hijacking, Session Hijacking Tools - Introduction Diff B/W AWT and SWING, Hierarchy, Individual Swings components J Label, JButton, JTextField, JTextAres
23,24	19-11-2021(FN)	12. WEB SERVER AND APPLICATION SERVER Tomcat-Introduction, Overview, installation, Configuring Tomcat, Jboss server-Introduction, Overview, Installation and Configuration, Comparison
25,26	19-11-2021(AN)	13. SQL and JDBC Basics of SQL queries, SQL Joins, JDBC Introduction, JDBC Architecture, Types of Drivers, Statement, Result Set, Read Only Result Set, Updatable Result Set, Forward Only Result Set, Scrollable Result Set, Prepared Statement
27,28	25-11-2021 (AN) 26-11-2021 (FN)	14. SERVLETS Introduction, Web application Architecture, HTTP Protocol & HTTP Methods, Web Server & Web Container, Servlet Interface, HTTPServlet, GenericServlet, Servlet Life Cycle, Servlet Config, Servlet Context, Servlet Communication
29,30	26-11-2021(AN)	15. JSP Introduction, JSP Life Cycle, JSP Implicit Objects & Scopes, JSP Directives

Creal COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Scir. 4 Engg...
Bharath Institute of Higher Education 4 Research
(Declared as Deamed to be University U.S.3 of UGC Act, 1956)
(Chennal-600 073. INDIA



COURSE ON CORE JAVA SKILLS AND JAVA CERTIFICATION Date of Introduction of the Course: 17.10.2021 School of Computing

Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS038	CHIDIRALA.SAI SHANKAR
2	U14CS039	CHINTAGUNTA MARUTHI VENKATESWARA REDDY
3	U14CS040	CHINTAPANTI SRIKANTH
4	U14CS041	CHINTLA VENKATESH
5	U14CS042	CHUDAAMANI.V
6	U14CS044	DARA DEEPTHI
7	U14CS045	DEEPAKSANKAR REDDY.M
8	U14CS046	DEVARAPALLI HIMAKAR
9	U14CS047	DEVULAPALLY NAGARAJU
10	U14CS052	GARLAPATI HEMA SAI KRISHNA
11	U14CS053	GODJSELA SRINATH
12	U14CS054	GONTLA KARTHIK
13	U14CS055	GOTTIPATI KARTHIK
14	U14CS102	MOHAMMED AABID
15	U14CS104	MOLUGURI PRADEEP CHANDRA
16	U14CS105	MOOTHI LAKSHMI PRASANNA
17	U14CS106	MUGANTH.R.
18	U14CS107	MUGUNTHANATHAN.G
19	U14CS108	MURALI .S
20	U14CS156	SAGI AKSHAY KUMAR
21	U14CS157	SAJJA. SURENDRA PRASAD
22	U14CS158	SAMPA PARH
23	U14CS159	SANASAM VEDRAJ SINGH
24	U14CS160	SANDEEP INGUVA
25	U14CS161	SANJAY KUMAR YADAV
26	U14CS162	SANTHOSH KUMAR.N
27	U14CS163	SASHAANK.S

28	U14CS164	SAURAV KUMAR	
29	U14CS165	SAURAV SINGH	
30	U14CS224	R.SINDHU	
31	U14CS234	DANDU MOHAN RAJENDRA VARMA	
32	U14CS706	RAFTEN WANCHU	
33	U14CS166	SHAFAN HASIM.N	
34	U14CS167	SHAIK AATIKA	
35	U14CS168	SHAIK MEERA SHARIF	
36	U14CS169	SHAIK YASMIN	
37	U14CS170	SHANKAR KUMAR GUPTA	
38	U14CS171	SHARSHI KANT PRASAD	
39	U14CS192	THARIGOPULA LOKESH	
40	U14CS193	THEJA.T	
41	U14CS194	THEJAVARMA.B	
42	U15CS018	ATTANTI RAVIKANTH	
43	U15CS019	BANAVATH SUNIL NAIK	
44	U15CS020	BANDARU RAMESH	
45	U15CS021	BATTA SIVA PRASAD	
46	U15CS022	BHARATH K	
47	U15CS167	PULUKURI SASIDHAR	
48	U15CS168	PUPPALLA SANDEEP KUMAR	
49	U15CS169	PUTLURI ANURADHA	
50	U15CS170	RAAVI NARENDRA	
51	U15CS171	RAGILLA SANTHOSH KUMAR	
52	U15CS172	RAJULA SREEVANI	
53	U15CS173	RAKESH RATHI	
54	U15CS174	RAMACHANDRAN J	
55	U15CS175	RAMIREDDY LAKSHMAN AJAY	

Course coordinator

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT
Department of Computer Scic. & Engg.,
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Chennal-600 073, INDIA

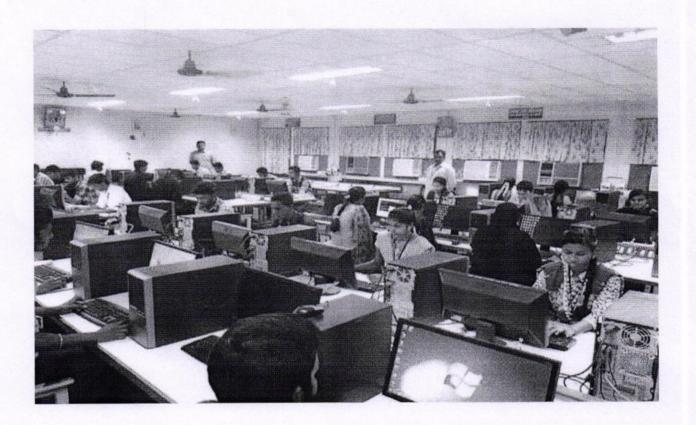


arat

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

COURSE ON CORE JAVA SKILLS AND JAVA CERTIFICATION



Creali COURSE COORDINATOR

HEAD OF THE DEPARTMENT

Chennal-600 073. INDIA



CERTIFICATE OF PARTICIPATION

This certificate is presented to

R.SINDHU

For actively participating in the value added course "Core Java Skills and Java Certification"

Conducted by School of Computing, BIHER from 17.10.2021 to 26.11.2021.

COURSE COORDINATORS

HEAD OF THE DEPARTMENT

DIRECTOR

COURSE FEEDBACK FORM

Acad	emic Ye	ar			2021	- 20	22				
Term						SEM					
Cours	se Numb	er									
Cours	se Title			Cous	0016	4	core	Agya	8ki	lle a	Add-on
Numl	ber of Cr	edits			12	0		0 .11			ifich
Туре	of Cour	se	Regular			Elective	e				Add-on
I.	Inforn	nation on	the Respon	ndent: (Tick (√)	Appropri	ately)					
1.	Percer	itage of c	classes atter	ded							
	0-20			20-40		40-	-60		60	-80	
2.	Numb	er of hou	ırs per weel	spent on the co	urse (Oth	er than l	lecture l	hours)			
	0-2			2-4	/	4-6	5			6-8	
3.	Prepa	ration fo	r the course	by the student:							
	(i) Have done part of the		this course earlier	course earlier							
	(ii)	Has ad	lequate prior	exposure to the p	rerequisit	tes			Jes		
	(iii)	Had to	pickup rele	vant additional to	pics throu	gh concu	rrent stu	dy	ye		
	(iv)	Have n	no exposure	to the background	l material				ger		
4.	The ex	pectatio	ns for takin	g the course by t	he studer	nt are:			V		
	(a)	Enhand	ce by skill b	ase in the area of	specializa	tions			yeer		
	(b)	Get ex	posed to a re	elevant subject					Tier		
	(c)	Curios	ity						Jer		
	(d)	Better	Employmen	t Opportunity					yes	_	
	(e)	Compl	ete Course r	equirements					Ger	WILK DOS - HIS	
	(f)		prove CGPA						Jes		
Abou	it the In	structor:	Informatio	on on the Respon	dent: (Ti	ck (√) Ap	propri	ately)	0		
						A		В		C	
1.	Pace o	f the Tea	ching/lecture	•				/			
2.	Comm	ent of the	Subject				-	/			
3.	Clarity of expression										

A: I	Excellent	B: Very Good	C: Good	D: Satisfactory
7.	Others (please sp	pecify		
6.	Accessibility out			
5.	Level of interact			
4.	Level of prepara	tion		

HEAD OF THE DEPARTMENT

Denomina Computer Scie & Engg.,
Bhorath Institute of Impier Education & Research
(Declared as Decimed to be University U/S 3 of UGC Act, 1956)
Chennai-600 073. INDIA

COURSE FEEDBACK FORM

Acad	emic Ye	ar			20	21 -	2022					
Term					ODD SEW							
Cour	se Numb	er			-47	32						
Cour	se Title				COTE	A	ava	Oki	1k and	Java	Ce	artification
Num	ber of Cr	redits				-	444	0.4	(W -(I)			- 0
Туре	of Cour	se ·	Regular				Elective	e			A	add-on
I.	Inform	nation o	n the Respon	ndent: (Ti	ck (√) Ap	propri	iately)				-	1
1.	Percer	ntage of	classes atter	nded								
	0-20	ge or		20-40			40-	-60	V	60-8	30	
2.	Numb	er of ho	urs per weel	k spent on	the cours	se (Oth	ner than l	lecture	hours)			
	0-2			2-4			4-6	5			6-8	
3.	Prepa	ration fo	or the course	e by the st	udent:							
	(i) Have done part of this				course earlier							
	(ii)	Has ac	dequate prior	exposure	to the pre	requisi	tes			yer		
	(iii)	Had to	pickup rele	vant additi	onal topic	s throu	igh concu	rrent s	tudy	yer Lyer		
	(iv)	Have	no exposure	to the back	ground m	aterial				Jer		
4.	The ex	xpectatio	ons for takin	ig the cour	rse by the	stude	nt are:			U		
	(a)	Enhan	ce by skill b	ase in the a	rea of spe	ecializa	itions			yer		
	(b)	Get ex	sposed to a r	elevant sub	ject			To the		O.e.		
	(c)	Curio	sity							ayer		
	(d)	Better	Employmen	t Opportur	nity					ner		
	(e)	Comp	lete Course	requiremen	its					Mer		
	(f)		prove CGPA							Ger		
Abo	ut the In	structor	: Information	on on the l	Responde			ppropi		0		
							A		В		С	
1.	Pace o	of the Tea	aching/lectur	e								
2.	Comm	ent of th	e Subject						/			
3.	Clarity of expression											

	The state of the s		
 7. 	Accessibility ou Others (please s		
5.	Level of interact		
4.	Level of prepara	ation	

HEAD OF THE DEPARTMENT

Bhurut and Changler Education & Research (Declared as Deamed to be University U/S 3 of UGC Act, 1956)
Chennal-600 073. INDIA