



Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



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

Requisition Letter

Date: 04.07.2021

From
Dr. K.P.Kaliyamurthi,
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 “**Spring framework**” -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course “**Spring framework**” -Reg in our campus premises on **11.07.2021**, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **CSE Smart Room**

Timing: 1:30 PM to 4:30 PM(AN)

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

HOD

DEAN ENGINEERING

HEAD OF DEPARTMENT
Department of Computer Science & Engg.,
Bharath Institute of Higher Education & Research
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Chennai-600 073. INDIA



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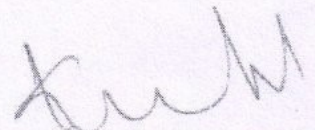
CIRCULAR

04.07.2021

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on "Spring Framework" for the benefit of II, III and IV year students. This course is scheduled from 11.07.2021 for 30 hours which includes theory and practical. The timings are 11:30PM to 4:30 PM

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course

SNO	Name of the Faculty	Designation
1	Mr.K.Sivaraman	Assistant Professor
2	Mr,B.Sundarrajan	Assistant Professor


HEAD OF DEPARTMENT

To

Copy to CSE

Copy to IT

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CERTIFICATE COURSE ON SPRING FRAMEWORK

Date of Introduction of the Course: 11.07.2021

COURSE SYLLABUS

1. Basics of Spring

What is Spring–Spring Modules –Spring Application –Spring with IDE –Spring in Myeclipse–Spring in Eclipse.

2. Understanding IOC and Dependency Injection

Constructor Injection –CI Dependent object-CI with collection –CI with Map-CI Inheriting Bean –Setter Injection-SI Dependent Object-SI with Collection –SI with Map-CI vs SI Auto wiring –Factory Method.

3. Spring AOP

AOP Terminology –AOP Implementations –Pointcut-Advices.

4. Spring JDBC

Jdbc Template Example –Prepared Statement –Result Set Extractor –Row Mapper –Name Parameter –Simple Jdbc template.

5. Spring with ORM

Spring with Hibernate –Spring with JPA.

6. SpEL

SpEL Examples –operators in SpEL- Variable in SpEL.

7. Spring 3 MVC Remoting with Spring

Spring with RMI –Http Invoker –Hessian –Burlap – Spring with JMS.

8. OXM Frameworks

Spring with JAXB- Spring with Xstream –Spring with Castor.

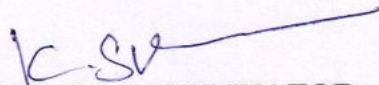
COURSE OBJECTIVES

Getting the student to be well trained in JAVA Programming skills for an easy entry in the IT industry

Specifically, the course has the following objectives:

Students will learn

- 1) Make J2EE easier to use
- 2) Eliminate need for middle tier "glue"
- 3) Provide the best Inversion of Control solution
- 4) Provide a pure Java AOP implementation, focused on solving common problems in J2EE
- 5) Fully portable across application servers


COURSE COORDINATOR


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CERTIFICATE COURSE ON SPRING FRAMEWORK

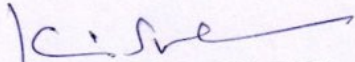
Date of Introduction of the Course: 11.07.2021

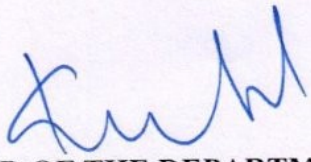
The timings are 1:30 PM to 4:30 PM

Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	11-07-2021(AN)	1. Basics of Spring What is Spring –Spring Modules –Spring Application
3,4	15-07-2021(FN)	2. IDE Spring with IDE –Spring in Myeclipse –Spring in Eclipse.
5,6	16-07-2021(AN)	3. Understanding IOC Constructor Injection –CI Dependent object-CI with collection –CI with Map-CI Inheriting.
7,8	16-07-2021(AN)	4. Dependency Injection SI Dependent Object-SI with Collection –SI with Map-CI vs SI Auto wiring –Factory Method..
9,10	22-07-2021(AN)	5. Spring AOP AOP Terminology –AOP Implementations –Pointcut-Advices.
11,12	23-07-2021(FN)	6. Spring JDBC Jdbc Template Example –Prepared Statement
13,14	23-07-2021(AN)	7. Extractor Result Set Extractor –Row Mapper –NameParameter –Simple Jdbc template.
15,16	29-07-2021(AN)	8. Spring with ORM Spring with Hibernate –Spring with JPA.
17,18	30-07-2021(AN)	9. SpEL SpEL Examples –operators in SpEL- Variable in SpEL.
19,20	30-07-2021(FN)	10. Spring 3 MVC Spring with RMI –Http Invoker
21,22	05-08-2021(AN)	11. Remoting with Spring Hessian –Burlap – Spring with JMS.
23,24	06-08-2021(AN)	12. OXM Frameworks Spring with JAXB- Spring with Xstream –Spring with Castor.
25,26	06-08-2021(AN)	13. Dependency Injection SI Dependent Object-SI with Collection –SI with Map-CI vs SI Auto wiring –Factory Method..

27,28	12-08-2021(FN)	14.Spring AOP AOP Terminology –AOP Implementations –Pointcut-Advices.
29,30	13-08-2021(AN)	15. OXM Frameworks Spring with JAXB- Spring with Xstream –Spring with Castor.


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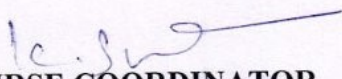
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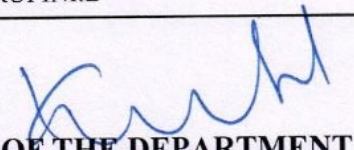
School of Computing

Registered Students Name List

S.NO	REG.NO	NAME OF THE STUDENT
1	U14CS001	AADHITYA MALLIKA ARJUN
2	U14CS003	ABDUL RAHIM.M
3	U14CS004	ABDUL RAZVI .M.K
4	U14CS006	ABHIKAMALI .A
5	U14CS007	ABHISHEK MANDURI
6	U14CS008	AJAY.D
7	U14CS009	AKASH CHANDRA AMBASTHA
8	U14CS010	AKHIL REDDY.G
9	U14CS012	AMAR BASUMATARY
10	U14CS013	ANDREW JOSEPH.V
11	U14CS015	ANKITA
12	U14CS016	ANNILKRISHNAN .K
13	U14CS017	ASHUTOSH SRIVASTAVA
14	U14CS019	ARAMBAKAM,YASWANTH
15	U14CS021	AREEF SYED
16	U14CS022	ARUN KUMAR SINGH
17	U14CS023	ASIF NAZIR WANI
18	U14CS024	ATUL ANAND
19	U14CS025	BACHU HARISH
20	U14CS027	BALAJI SINGH. T
21	U14CS029	BALAKRISHNAN.T
22	U14CS031	BISHAL BANIK
23	U14CS033	BOORAGADDA VAMSI KRISHNA
24	U14CS034	BOYAPATI VINAY
25	U14CS035	BYSANI VENKAT SANDEEP

26	U14CS038	CHIDIRALA.SAI SHANKAR
27	U14CS040	CHINTAPANTI SRIKANTH
28	U14CS041	CHINTLA VENKATESH
29	U14CS042	CHUDAAMANI.V
30	U14CS045	DEEPAKSANKAR REDDY.M
31	U14CS046	DEVARAPALLI HIMAKAR
32	U14CS047	DEVULAPALLY NAGARAJU
33	U14CS048	DIVYA RUPINI.B


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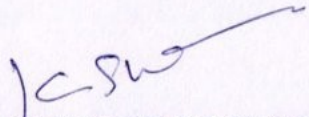
CERTIFICATE OF PARTICIPATION

This certificate is presented to

DIVYA RUPINI.B

For actively participating in the value added course on “ **Spring Framework** ”

Conducted by School of Computing, BIHER from 11.07.2021 to 13.08.2021.


COURSE COORDINATORS
DIRECTOR


HEAD OF THE DEPARTMENT

COURSE FEEDBACK FORM

Academic Year		2021-2022								
Term										
Course Number										
Course Title		Spring Framework								
Number of Credits										
Type of Course	Regular		Elective		Add-on	<input checked="" type="checkbox"/>				
I. Information on the Respondent: (Tick (✓) Appropriately)										
1. Percentage of classes attended										
0-20		20-40		40-60		60-80	<input checked="" type="checkbox"/>	80-100		
2. Number of hours per week spent on the course (Other than lecture hours)										
0-2		2-4		4-6		6-8		8-10	<input checked="" type="checkbox"/>	
3. Preparation for the course by the student:										
(i)	Have done part of this course earlier						NO			
(ii)	Has adequate prior exposure to the prerequisites						NO			
(iii)	Had to pickup relevant additional topics through concurrent study						YES			
(iv)	Have no exposure to the background material						NO			
4. The expectations for taking the course by the student are:										
(a)	Enhance by skill base in the area of specializations						YES			
(b)	Get exposed to a relevant subject						YES			
(c)	Curiosity						YES			
(d)	Better Employment Opportunity						YES			
(e)	Complete Course requirements						YES			
(f)	To Improve CGPA						YES			
About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)										
		A		B		C		D	E	
1.	Pace of the Teaching/lecture	<input checked="" type="checkbox"/>								
2.	Comment of the Subject	<input checked="" type="checkbox"/>								
3.	Clarity of expression	<input checked="" type="checkbox"/>								
4.	Level of preparation			<input checked="" type="checkbox"/>						
5.	Level of interaction	<input checked="" type="checkbox"/>								
6.	Accessibility outside the class			<input checked="" type="checkbox"/>						
7.	Others (please specify)									
A: Excellent			B: Very Good			C: Good		<input checked="" type="checkbox"/>	D: Satisfactory	
									E: Poor	


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		A		B		C		D	E	
1.	Pace of the Teaching/lecture	<input checked="" type="checkbox"/>								
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