



# Bharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

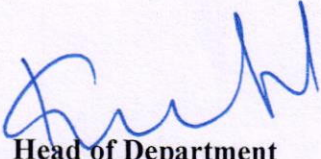
(Declared as Deemed-to-be University under section 3 of UGC Act 1956)

## CIRCULAR

27.10.2017

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL** for the benefit of II, III and IV year students. This course is scheduled from 01.11.2017 for 30 hours which includes theory and practical. The timings are 4:00 PM to 5:00 PM from Monday to Friday

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	Mrs.R.Velvizhi	Professor
2	Dr.G.Michael	Professor



Head of Department

To

Copy to CSE

Copy to IT

HEAD OF DEPARTMENT  
Department of Computer Science & Engg.,  
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)

## CERTIFICATE COURSE ON IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL

**Date of Introduction of the Course: 1.11.2017**

The timings are

### Time Table & Lesson plan

CLASS	DATE	TOPIC
1,2	1.11.2017, 2.11.2017	<b>1. Introduction to Enterprise Computing</b> Large Scale Enterprise Computing powers all major transactions-Mainframes are fundamental on how we do business-introduction to the hardware- operating systems,-security, and features
3,4	3.11.2017, 6.11.2017	<b>2.Functions of Operating System</b> Different architectural families- enhancements for each architecture family- functions of an operating system- concept of a Sysplex and describe methods available for z/OS security
5,6	7.11.2017, 8.11.2017	<b>3. Introduction to IBM Mainframe</b> Getting Started with the IBM Mainframe with z/OS Commands and Panels – IBM Mainframe z/OS Environment
7,8	9.11.2017, 10.11.2017	<b>4.IBM Mainframe with z/OS Commands and Panels</b> labs will provide live access to an IBM Z server-fundamental practical skills to navigate and work in a z/OS environment-use of ISPF/PDF dialogs, and TSO/E commands.
9,10	13.11.2017, 14.11.2017	<b>5. z/OS Mainframe Practitioner</b> foundational skills in IBM Z hardware and software, especially around z/OS and System Administration-mainframe application developer, system programmer, system administrator, or a DBA Practitioner
11,12	15.11.2017, 16.11.2017	<b>6. basic-system-programming-on-ibm-z</b> z/OS tasks with JCL, JES, ISHELL and HFS, and z/OSMF-VSAM, z/OS System Libraries- the Language Environment- Generation Data Groups- RAIM-DB2-UNIX System Services- and USS File System



13,14	17.11.2017, 20.11.2017	<b>7. IBM System</b> z/OS tasks with JCL, JES, ISHELL and HFS, and z/OSMF-submit and view JCL output
15,16	21.11.2017, 22.11.2017	<b>8. Basic System Programming on IBM Z</b> Language Environment, Generation Data Groups, RAIM, DB2, UNIX System Services
17,18	23.11.2017, 24.11.2017	<b>9. Introduction to JES and JCL</b> System programming-JES-JCL-JCL Procedure-JCL tidbits
19,20	27.11.2017, 28.11.2017	<b>10. IBM z/OS System Programmer and System Administrator</b> application services provided in UNIX-use of applications such as CICS, IMS, and DB2 on z/OS
21,22	29.11.2017, 30.11.2017	<b>11. System Programming Components</b> Vsam-z/OS Components-z/OS System Libraries-Application Infrastructure-Language Environment-Generation data groups-RAIM-Networking-Utilities
23,24,25	1.12.2017, 4.12.2017, 5.12.2017	<b>12. Practical Session</b>
26,27	6.12.2017, 7.12.2017,	<b>13. z/OSMF and UNIX System Services</b> <u>Introduction to z/OSMF-UNIX System Services- USS File System- ISHELL and hierarchical file system – USS processes and permissions</u>
28,29,30	8.12.2017, 11.12.2017, 12.12.2017	<b>14. Practical session</b>

*R. Velupillai*  
COURSE COORDINATOR

*[Signature]*  
HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT  
Department of Computer Science & Engg.,  
Bharathi 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)

## **CERTIFICATE COURSE ON IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL**

**Date of Introduction of the Course: 1.11.2017**

### **COURSE SYLLABUS**

#### **1. Introduction to Enterprise Computing**

Large Scale Enterprise Computing powers all major transactions-Mainframes are fundamental on how we do business-introduction to the hardware- operating systems,- security, and features

#### **2.Functions of Operating System**

Different architectural families- enhancements for each architecture family- functions of an operating system- concept of a Sysplex and describe methods available for z/OS security.

#### **3. Introduction to IBM Mainframe**

Getting Started with the IBM Mainframe with z/OS Commands and Panels – IBM Mainframe z/OS Environment

#### **4.IBM Mainframe with z/OS Commands and Panels**

labs will provide live access to an IBM Z server-fundamental practical skills to navigate and work in a z/OS environment-use of ISPF/PDF dialogs, and TSO/E commands.

#### **5. z/OS Mainframe Practitioner**

foundational skills in IBM Z hardware and software, especially around z/OS and System Administration-mainframe application developer, system programmer, system administrator, or a DBA Practitioner.

#### **6. basic-system-programming-on-ibm-z**

z/OS tasks with JCL, JES, ISHELL and HFS, and z/OSMF-VSAM, z/OS System Libraries-the Language Environment- Generation Data Groups- RAIM-DB2-UNIX System Services- and USS File System.

#### **7. IBM System**

z/OS tasks with JCL, JES, ISHELL and HFS, and z/OSMF-submit and view JCL output

#### **8.Basic System Programming on IBM Z**

Language Environment, Generation Data Groups, RAIM, DB2, UNIX System Services

#### **9.. Introduction to JES and JCL**

System programming-JES-JCL-JCL Procedure-JCL tidbits



## 10. IBM z/OS System Programmer and System Administrator

application services provided in UNIX-use of applications such as CICS, IMS, and DB2 on z/OS

## 11. System Programming Components

Vsam-z/OS Components-z/OS System Libraries-Application Infrastructure-Language Environment-Generation data groups-RAIM-Networking-Utilities

## 12. z/OSMF and UNIX System Services

Introduction to z/OSMF-UNIX System Services-USS File System- ISHELL and hierarchical file system – USS processes and permissions

### **COURSE OBJECTIVES**

In this course we plan to give students an overview of the field IBM and an in-depth study into its enabling technologies and main building blocks. Students will gain hands-on experience solving relevant problems through projects that will utilize existing an wide range of technology and consulting services; a broad portfolio of middleware for collaboration, predictive analytics, software development and systems management; and the world's most advanced servers and supercomputers. Utilizing its business consulting, technology and R&D expertise, IBM helps clients become "smarter" as the planet becomes more digitally interconnected. It is our objective that students will develop the skills needed to become a practitioner or carry out research projects in this domain.

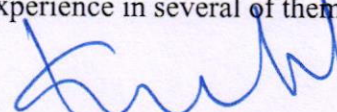
**Specifically, the course has the following objectives:**

**Students will learn**

- 1) The fundamental ideas behind **Enterprise Computing**, its applicability; Benefits, as well as current and future challenges;
- 2) The basic ideas and principles in Computer Architecture, Mainframe Architecture, Virtualization;  
Software deployment considerations;
- 3) Mainframe Infrastructure, IBM Z Hardware Components, HMC and SE, Sysplex
- 4) IBM Input/Output Configuration Program User's Guide for ICP IOCP, z/OS Security
- 5) The variety of programming models and develop working experience in several of them.

*R. Veluigchi*

**COURSE COORDINATOR**



**HEAD OF THE DEPARTMENT**

HEAD OF DEPARTMENT  
Department of Computer Science & Engg.,  
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)

**CERTIFICATE COURSE ON IBM/OS MAINFRAME PRACTITIONER**  
**Date of Introduction of the Course: 01.11.20217**

## **School of Computing** **Registered Students Name List**

S.NO	REG.NO	NAME OF THE STUDENT
1	U16CS001	SANTOSH B
2	U16CS002	APARNA V M
3	U16CS003	NALAMOTHU SRIKANTH
4	U16CS004	ABDUL KHADIR L
5	U16CS006	SARAVANAN R
6	U16CS059	SRAVANI GADIPARTHI
7	U16CS060	PARUCHURU JYOTHI SATYA SIVA NAGA SWAROOP
8	U16CS061	NAGIREDDY GARI SANJUNATH REDDY
9	U16CS062	NALLAMOTHU TARUN KUMAR
10	U16CS063	GANNAMANI PRAVEEN
11	U16CS131	MAGULURI PAVAN
12	U16CS132	GAIKOTI MADHAVA RAO
13	U16CS133	NAVULURI RAJENDRA MOHAN
14	U16CS134	HEMA S
15	U16CS135	HARI S
16	U16CS191	SHAIK AFRIDI
17	U16CS192	GANTLA VASU
18	U16CS193	MUNAGANURU SAI ANUDEEP
19	U16CS194	GADDAM AMARA HARSHAVARDHAN REDDY
20	U16CS195	BOLLAM MANINDRA
21	U15CS001	ABHIJEET KUMAR
22	U15CS002	ABHIJIT KUMAR GUPTA
23	U15CS003	ABHISHEK KUMAR SINGH
24	U15CS004	ALLU SAI SIVA PRIYANKA NAIDU
25	U15CS005	AMBIKE KUMAR SINGH
26	U15CS064	INJE RAVI TEJA
27	U15CS065	INNURU SWATHI
28	U15CS066	JAGADEESH K
29	U15CS067	JAGADEESWARA RAO JADDU



30	U15CS068	JAICHAND KUMAR
31	U15CS069	JANAKI RAMAN V
32	U15CS156	PERURI V S V KRISHNA MOHAN
33	U15CS157	POORVISHA M
34	U15CS159	PRADEEP YADAV
35	U15CS160	PRASAD ABHISHEK KUMAR
36	U15CS161	PRASHANT PATHAK
37	U15CS212	UTTAM KUMAR
38	U15CS213	VADLAMUDI HARISH KUMAR
39	U15CS214	VEERELLA RUPAS CHOWDARY
40	U15CS215	VEESA SUDDEP
41	U15CS216	VEMSETTY ARUN SAHADEV
42	U14CS051	GANESH RAJ .L
43	U14CS052	GARLAPATI HEMA SAI KRISHNA
44	U14CS053	GODJSELA SRINATH
45	U14CS054	GONTLA KARTHIK
46	U14CS055	GOTTIPATI KARTHIK
47	U14CS101	MOHAMMAD AADIL SHANHREYAR.
48	U14CS102	MOHAMMED AABID
49	U14CS104	MOLUGURI PRADEEP CHANDRA
50	U14CS105	MOOTHI LAKSHMI PRASANNA
51	U14CS106	MUGANTH.R.
52	U14CS161	SANJAY KUMAR YADAV
53	U14CS162	SANTHOSH KUMAR.N
54	U14CS163	SASHAANK.S
55	U14CS164	SAURAV KUMAR
56	U14CS501	ARUN
57	U14CS504	SARAVANAN.B
58	U14CS506	I.SUKAPATLA AVINASH

*R. Velupillai*  
COURSE COORDINATOR

*[Signature]*  
HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT  
Department of Computer Science & Engg.,  
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)

## CERTIFICATE OF PARTICIPATION

**This certificate is presented to**

APARNA V M

For actively participating in the value added course "IBM/OS MAINFRAME PRACTITIONER"  
Conducted by School of Computing, BIHER from 01.11.2017 to 12.12.2017.

*R. Velu Singh*

COURSE COORDINATORS

*[Signature]*

HEAD OF THE DEPARTMENT

*[Signature]*

DIRECTOR



## COURSE FEEDBACK FORM

Academic Year		2017 - 2018					
Term		ODD SEM					
Course Number							
Course Title		IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL					
Number of Credits							
Type of Course	Regular		Elective		Add-on	✓	
<b>I. Information on the Respondent: (Tick (✓) Appropriately)</b>							
<b>1. Percentage of classes attended</b>							
0-20		20-40		40-60		60-80	✓
						80-100	
<b>2. Number of hours per week spent on the course (Other than lecture hours)</b>							
0-2		2-4		4-6		6-8	
						8-10	✓
<b>3. Preparation for the course by the student:</b>							
(i)	Have done part of this course earlier						YES
(ii)	Has adequate prior exposure to the prerequisites						YES
(iii)	Had to pickup relevant additional topics through concurrent study						YES
(iv)	Have no exposure to the background material						YES
<b>4. The expectations for taking the course by the student are:</b>							
(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
<b>About the Instructor: Information on the Respondent: (Tick (✓) Appropriately)</b>							
		A	B	C	D	E	
1.	Pace of the Teaching/lecture		✓				
2.	Comment of the Subject			✓			
3.	Clarity of expression		✓				
4.	Level of preparation		✓				
5.	Level of interaction		✓				
6.	Accessibility outside the class			✓			
7.	Others (please specify)						
<b>A: Excellent</b>		<b>B: Very Good</b>		<b>C: Good</b>	<b>D: Satisfactory</b>	<b>E: Poor</b>	

  
HEAD OF THE DEPARTMENT

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



# COURSE FEEDBACK FORM

Academic Year		2017-2018			
Term		Odd Sem			
Course Number					
Course Title		IBM Z/OS MAINFRAME PRACTITIONER PROFESSIONAL			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

**I. Information on the Respondent: (Tick (✓) Appropriately)**

<b>1. Percentage of classes attended</b>									
0-20	<input type="checkbox"/>	20-40	<input type="checkbox"/>	40-60	<input type="checkbox"/>	60-80	<input checked="" type="checkbox"/>	80-100	<input type="checkbox"/>

<b>2. Number of hours per week spent on the course (Other than lecture hours)</b>									
0-2	<input type="checkbox"/>	2-4	<input type="checkbox"/>	4-6	<input type="checkbox"/>	6-8	<input type="checkbox"/>	8-10	<input checked="" type="checkbox"/>

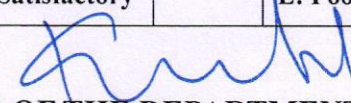
<b>3. Preparation for the course by the student:</b>		
(i)	Have done part of this course earlier	✓
(ii)	Has adequate prior exposure to the prerequisites	✓
(iii)	Had to pickup relevant additional topics through concurrent study	✓
(iv)	Have no exposure to the background material	✓

<b>4. The expectations for taking the course by the student are:</b>		
(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	✓				
2.	Comment of the Subject		✓			
3.	Clarity of expression	✓				
4.	Level of preparation	✓				
5.	Level of interaction	✓				
6.	Accessibility outside the class		✓			
7.	Others (please specify)					

A: Excellent	B: Very Good	C: Good	D: Satisfactory	E: Poor
--------------	--------------	---------	-----------------	---------

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