



Bharath

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

Requisition letter

Date: 18.05.2020

From

Dr.Kaliyamurthy M.E.,PH.D,
Professor & Head,
Department of CSE,
Bharath Institute of Higher Education and Research,
Chennai.

To

Dean Engineering,
Bharath Institute of Higher Education and Research,
Chennai.

Respected Sir

Sub: Request of permission to conduct a value – added course on “IBM AI Enterprise workflow specialization” (online) -Reg

With reference to above subject, I would like to bring to your kind notice that , our department interested to organize value added course “**IBM AI enterprise workflow specialization**”-Reg in our campus premises on 28.05.2020 students would be participating in this course. We request you kindly to give permission to organize this event.

Timing: 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN)

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

HOD

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

DEAN ENGINEERING

DEAN (Engineering)

Bharath Institute of Science & Techno
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Selaiyur, Chennai-600 073.



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CIRCULAR

21.05.2020

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of IBM AI Enterprise Workflow Specialization** for the benefit of students. This course is scheduled from 28.05.2020 to 09.06.2020. The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN) and Saturday (FN&AN).

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 A.R. Arunachalam	Professor
2	Mrs C. Kavitha	Assistant Professor


Head of Department

To

Copy to CSE

Copy to IT



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

CERTIFICATE COURSE ON IBM AI ENTERPRISE WORKFLOW SPECIALIZATION

Date of Introduction of the Course: 02.07.2020

COURSE SYLLABUS

1. IBM AI Enterprise Workflow Introduction

The goal of this first module is to introduce you to the overall specialization requirements, evaluate your understanding of some key prerequisite knowledge, and familiarize you with several process models commonly used .

2. Technical essentials for AI

Describe and explain the key terms in the field of artificial intelligence (Analytics, Data Science, Machine Learning, Deep Learning, Artificial Intelligence etc.)

3. Application of AI in business

Identify use cases where artificial intelligence solutions can address business opportunities. Demonstrate knowledge of scenarios for application of machine learning.

4. Data understanding techniques in AI.

Demonstrate knowledge of data collection practices. Explain characteristics of different data types.

5. Data Preparation technique in data science

Demonstrate expertise cleaning data and addressing data anomalies. Show knowledge of feature engineering and dimensionality reduction techniques.

6. Data Preparation technique in AI

Demonstrate mastery preparing and cleaning unstructured text data.

7. Application of data science and models

Explain machine learning algorithms and the theoretical basis behind them.

8. Application of AI techniques and models.

Demonstrate practical experience building machine learning models and using different machine learning algorithms.

9. Evaluation of AI models

Identify different evaluation metrics for machine learning algorithms and how to use them in the evaluation of model performance

10. Deployment of AI models

Demonstrate knowledge of requirements for model monitoring, management and maintenance. Identify IBM technology capabilities for building, deploying, and managing AI models.

11. Technical stack of Data science

Describe the differences between traditional programming and machine learning. Demonstrate foundational knowledge of using python as a tool for building AI solutions.

12. Technical stack of AI

Describe the differences between traditional programming and machine learning. Demonstrate foundational knowledge of using python as a tool for building AI solutions

COURSE OBJECTIVES

This six-course specialization is designed to prepare you to take the certification examination for IBM AI Enterprise Workflow Specialist. IBM AI Enterprise Workflow is a comprehensive, end-to-end process that enables data scientists to build AI solutions, starting with business priorities and working through to taking AI into production.

Specifically, the course has the following objectives:

Students will learn

1. The fundamental terms and concepts of design thinking.
2. The different types of fundamental Data Science
3. The general properties of common probability distributions.
4. Basic understanding of computer vision
5. Demonstrate basic understanding of IBM Watson AI services



COURSE COORDINATOR



HEAD OF THE DEPARTMENT



Sharath

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

CERTIFICATE COURSE ON IBM AI ENTERPRISE WORKFLOW SPECIALIZATION

Date of Introduction of the Course: 02.07.2020

The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM (AN)
Saturday (FN&AN).

Time Table & Lesson plan

CLASS	DATE	TOPIC
1	28-05-2020 (FN)	1. IBM AI Enterprise Workflow Introduction The goal of this first module is to introduce you to the overall specialization requirements, evaluate your understanding of some key prerequisite knowledge, and familiarize you with several process models commonly used today.
2	29-01-2020 (FN)	2. Technical essentials for AI Describe and explain the key terms in the field of artificial intelligence (Analytics, Data Science, Machine Learning, Deep Learning, Artificial Intelligence etc.)
3,4	30-05-2020 (FN & AN)	3. Application of AI in business Identify use cases where artificial intelligence solutions can address business opportunities. Demonstrate knowledge of scenarios for application of machine learning.
5	01-06-2020 (FN)	4. Data understanding techniques in AI. Demonstrate knowledge of data collection practices. Explain characteristics of different data types.
6	02-06-2020 (FN)	5. Data Preparation technique in data science Demonstrate expertise cleaning data and addressing data anomalies. Show knowledge of feature engineering and dimensionality reduction techniques.
7	03-06-2020 (FN)	7. Application of data science and models Explain machine learning algorithms and the theoretical basis behind them.

9	04-06-2020 (FN)	8. Application of AI techniques and models. Demonstrate practical experience building machine learning models and using different machine learning algorithms.
10	05-06-2020 (FN)	9. Evaluation of AI models Identify different evaluation metrics for machine learning algorithms and how to use them in the evaluation of model performance.
11	06-06-2020 (FN)	10. Deployment of AI models Demonstrate knowledge of requirements for model monitoring, management and maintenance. Identify IBM technology capabilities for building, deploying, and managing AI models.
12	08-06-2020 (FN)	11. Technical stack of Data science Describe the differences between traditional programming and machine learning. Demonstrate foundational knowledge of using python as a tool for building AI solutions
13	09-06-2020 (FN)	10. Technical stack of AI Describe the differences between traditional programming and machine learning. Demonstrate foundational knowledge of using python as a tool for building AI solutions


COURSE COORDINATOR


HEAD OF THE DEPARTMENT



Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be University under section 3 of UGC Act, 1956)
(Vide Notification No. F.9-5/2000 - U.3 Ministry of Human Resource Development, Govt. of India, dated 4th July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.Tech Computer Science and Engineering

Academic year 2020-21

IBM AI Enterprise Workflow Specialization

DATE OF INTRODUCTION:02.07.2020

S. No	REG.NO	NAME OF THE CANDIDATE
1	U15CS071	JOHN PARAM JYOTHI JYOTHULA
2	U15CS072	JOTHI R
3	U15CS073	K THULASIRAM
4	U15CS074	KADALI VINAY NARASIMHA
5	U15CS075	KADUMU MOUNIKA
6	U15CS076	KAIPU PRANAY REDDY
7	U15CS077	KALYANAM JASWANTH NAIDU
8	U15CS078	KAMBLE NIKHIL KUMAR
9	U15CS079	KANCHARLAPALLI LOKESHWAR RAO
10	U15CS080	KANCHUMARTHI BHUVANESWAR VINAY
11	U15CS081	KANCHUPATI JAGANMOHAN RAO
12	U15CS082	KANDI ASHOKA REDDY
13	U15CS083	KANDI MOUNIKA
14	U15CS084	KANDUKURI JESHWANTH
15	U15CS085	KANDULA SRINATH
16	U15CS086	KARAPAREDDY BHARGAVI
17	U15CS087	KARTHEESWARAN P
18	U15CS088	KARTHICK S
19	U15CS089	KARUTURI SREE RAM
20	U15CS090	KATTA NARENDRA
21	U15CS091	KHALYAN S N
22	U15CS092	KISHORE VENKAT
23	U15CS093	KM AYUSHI JAISWAL
24	U15CS094	KOLUKULURI ADITHYA RAGHAV VARMA
25	U15CS095	KONATALA PUSHPA
26	U15CS096	KONDURU PREM KUMAR
27	U15CS097	KONGARA KIRAN KUMAR
28	U15CS098	KOPPA SEKHAR SAI VISWAM
29	U15CS099	KOTHAPALLI ARYAN VARMA
30	U15CS100	KOTIPALLI SRI SAI SURYA PRASANTH

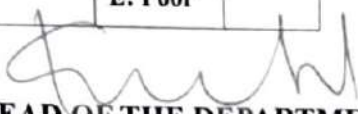
31	U15CS101	KOTNANI KRISHNA VAMSI
32	U15CS102	KRISHNA KUMAR YADAV
33	U15CS103	KUMMETA SAI VAMSI KRISHNA REDDY


COURSE COORDINATOR


HOD

COURSE FEEDBACK FORM

Academic Year		2020-21					
Term							
Course Number							
Course Title		IBM AI ENTERPRISE WORKFLOW SPECIALIZATION					
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	80-100 <input checked="" type="checkbox"/>
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)	<input checked="" type="checkbox"/>					
A: Excellent		<input checked="" type="checkbox"/>	B: Very Good			C: Good	
					D: Satisfactory		E: Poor


HEAD OF THE DEPARTMENT

COURSE FEEDBACK FORM

Academic Year		2020-21		
Term				
Course Number				
Course Title		IBM AI ENTERPRISE WORKFLOW SPECIALIZATION		
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	
(ii)	Has adequate prior exposure to the prerequisites	yes no
(iii)	Had to pickup relevant additional topics through concurrent study	yes no
(iv)	Have no exposure to the background material	no

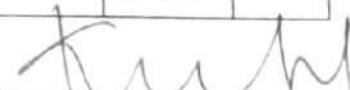
4. The expectations for taking the course by the student are:

(a)	Enhance by skill base in the area of specializations	
(b)	Get exposed to a relevant subject	yes yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	no
(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)	<input checked="" type="checkbox"/>				

A: Excellent		B: Very Good	<input checked="" type="checkbox"/>	C: Good		D: Satisfactory		E: Poor
--------------	--	--------------	-------------------------------------	---------	--	-----------------	--	---------


HEAD OF THE DEPARTMENT

COURSE FEEDBACK FORM

Academic Year		2020- 21								
Term *										
Course Number										
Course Title		IBM AI ENTERPRISE WORKFLOW SPECIALIZATION								
Number of Credits										
Type of Course	Regular		Elective		Add-on	✓				
I. Information on the Respondent: (Tick (✓) Appropriately)										
1. Percentage of classes attended										
0-20		20-40		40-60		60-80	✓	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		
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					No				
(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



Bharath UNIVERSITY

பாரத பல்கலைக்கழகம்

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-Be University, Ins 3 of the UGC Act, 1956)



CERTIFICATE OF PARTICIPATION



Mr. THULASIRAM

For actively participating in the value added course "**IBM AI Enterprise Workflow Specialization**" Conducted by School of Computing, BIHER from 28-05-2020 to 09.06.2020 .

Kavitha

Course Coordinator

K. S. S. S.

Head of the Department

C. Vin

Director