

## Requisition letter

Date: 18.02.2021

#### 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

Sub: Request of permission to conduct a value - added course on "Microsoft Cloud Application" (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 "Microsoft Cloud Application" - reg in our campus premises on 22.02.2021, 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)

Chennal - 600 073, INDIA

DEAN ENGINEERING **DEAN** (Engineering)

Bharath Institute of Science & Technology BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH (Declared as Deemed to be University U/S 3 of UGC Act. 19ab) Selaiyur, Chennai-600 073.



## CIRCULAR

20.02.2021

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course of Microsoft Cloud Application for the benefit of students. This course is scheduled from 22.02.2021 to 03.03.2021. 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.c. Rajaboostem	Professor
2	Mr. R. Sridhar	Assistant Profesion

To

Copy to CSE

Copy to IT

CI DERTMENT H Marment Of Computer Science & Engg. Bharath Institute Of Higher Education & Research (Declared as Deemed to be University U/S 3 O(UGC Act, 1956)

Head of Department

Chennal - 600 073, INDIA



# CERTIFICATE COURSE ON MICROSOFT CLOUD APPLICATION

Date of Introduction of the Course: 07.03.2021

# **COURSE SYLLABUS**

#### 1. Introduction of cloud computing

General Benefits and Architecture, Business Drivers, Main players in the Field, Overview of Security Issues, XaaS Cloud Based Service Offerings

#### 2. Key Amazon offerings

EC2, Simple DB, S3, Simple Queue, Simple Relational Database, Elastic Map Reduce, Virtual Amazon Cloud. S3 Command Line tool

#### 3. Bundling Amazon instances

We will learn how to create and manipulate Amazon instances with command line tools, transfer application software to instances and bundle them into new AMI-s that could be offered to the public.

#### 4. Amazon's Elastic Block Storage

(EBS) provides persistence storage in the cloud. We will learn how to move application code and data from non-EBS instance into EBS volumes, and create our own EBS based AMI-

#### 5 Amazon's AWS Identity

Management and Security in the Cloud

# 6. Amazon's Virtual Private Cloud

Amazon's Virtual Private Cloud (VPC) and Directory Service

## 7. Java AWS SDK, S3 API

Java AWS SDK, S3 API, Relational Database Service, SimlpeDB Service, NoSQL Databases

### 8. Amazon's Messaging in the Cloud

We will review details of AWS Simple Notification and Simple Queuing Service.

# 9. Amazon's Restful Web Services

AWS APIs are sufficiently rich to allow you easy interaction with AWS service. However, in order to establish connectivity between your own modules in the Cloud you should use Restful Web Services

#### 10. Elastic Load Balancing and Auto Scaling

allow automation of resource manipulation

## 11. Introduction to Microsoft Cloud

Microsoft offers a set of resources and features that are of great utility to those who are restricted to programming in .Net Environment

## 12. Map Reduce

Performs large distributed computation as a set of distributed operations on data sets composed of key-value pairs producing a reduced set of key-value pairs. We will learn the basics of Hadoop, an open-source implementation of Map Reduce, and its Java API. Hadoop Distributed File System (HDFS) features.

# **COURSE OBJECTIVES**

To learn and analyse the Cloud Computing has transformed the IT industry by opening the possibility for infinite or at least highly elastic scalability in the delivery of enterprise applications and software as a service (SaaS).

## Specifically, the course has the following objectives:

#### Students will learn

- 1. Understanding cloud concepts
- 2. Understanding key amazon offerings.
- 3. Analyse bundling amazon instances.
- 4. Create amazon messaging in the cloud,
- 5. Demonstrate a conceptual understanding of the unified nature of map reduce.
- 6. Understanding about amazon virtual private cloud.

COURSE COORDINATOR

R. Sride

HEAD OF THE DEPARTMENT

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Department Of Computer Science & Engg.,
Bharath Institute Of Higher Education & Research

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Chennai - 600 073. INDIA



# CERTIFICATE COURSE ON MICROSOFT COLUD APPLICATION

Date of Introduction of the Course: 07.03.2021

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	22-02-2021(FN)	1. Introduction of cloud computing				
2	23-02-2021 (FN)	2. Key Amazon offerings EC2, Simple DB, S3, Simple Queue, Simple Relational Database, Elastic Map Reduce, Virtual Amazon Cloud. S3 Command Line tool				
3	24-02-2021(FN)	3. Bundling Amazon instances				
		We will learn how to create and manipulate Amazon instances with command line tools, transfer application software to instances and bundle them into new AMI-s that could be offered to the public.				
4	25-02-2021(FN)	4. Amazon's Elastic Block Storage (EBS) provides persistence storage in the cloud. We will learn how to move application code and data from non-EBS instance into EBS volumes, and create our own EBS based AMI				
5	26-02-2021(FN)	5. Amazon's AWS Identity Management and Security in the Cloud				
6,7	27-02-2021 (FN&AN)	6. Amazon's Virtual Private Cloud 7. Java AWS SDK, S3 API Java AWS SDK, S3 API, Relational Database Service, Simple DB Service, NoSQL Databases				
8	29-02-2021(FN)	8. Amazon's Messaging in the Cloud We will review details of AWS Simple Notification and Simple Queuing Service.				
9	01-03-2021 (FN)	9. Amazon's RESTFul Web Services  AWS APIs are sufficiently rich to allow you easy interaction with AWS service. However, in order to establish connectivity between your own modules in the Cloud you should use RESTFul Web Services.				

10	02-03-2021 (FN)	10. Elastic Load Balancing and Auto Scaling Allow automation of resource manipulation  11. Introduction to Microsoft Cloud Microsoft offers a set of resources and features that ar of great utility to those who are restricted to programming in .Net Environment				
11	03-03-2021 (FN)					
12	03-03-2021 (FN)	12. MapReduce Performs large distributed computation as a set of distributed operations on data sets composed of keyvalue pairs producing a reduced set of keyvalue pairs. We will learn the basics of Hadoop, an open-source implementation of MapReduce, and its Java API. Hadoop Distributed File System (HDFS) features.				

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Bharath Institute Of Higher Education & Research
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Chennal - 600 073. INDIA



# 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 4" July 2002)

	DEP	ARTMENT OF COMPUTER SCIENCE AND ENGINEERING	
		Microsoft Cloud Application	
		3.Tech Computer Science and Engineering( 2020-2021)	_
S. No	REG.NO	NAME OF THE CANDIDATE	
1	U15CS101	KOTNANI KRISHNA VAMSI	
2	U15CS102	KRISHNA KUMAR YADAV	
3	U15CS103	KUMMETA SAI VAMSI KRISHNA REDDY	
4	U15CS104	KUNISETTY JYOTHSNA	
5	U15CS105	LALJEE	
6	U15CS106	LINGAMPELLY SANNITH REDDY	
7	U15CS107	LOHESH WARAN S	
8	U15CS108	M SHIVA PRAKASH	
9	U15CS109	M UTTEJ	
10	U15CS110	M. DINESH REDDY	
11	U15CS111	M.YESHWITHA REDDY	
12	U15CS112	MAILE ARUN KUMAR	
13	U15CS113	MAMUNDURU BHARATH KUMAR	
14	U15CS114	MANCHALA ROHITH	
15	U15CS115	MANCHIKANTI RAJITHA	
16	U15CS117	MANOJ KUMAR R	
17	U15CS118	MANUGUNTA BHARGAVI	
18	U15CS119	MARRIBOYINA GOVARDHAN YADAV	
	U15CS120	MARRIPUDI KRISHNA CHAITANYA	

- NAC-101		
20	U15CS121	MD MINHAZ RAZA HASHMI
21	U15CS122	MOHAMED SAJEEN N
22	U15CS123	MOHAMMAD ASLAM SHAREEF
23	U15CS124	MOHANKUMAR J
24	U15CS125	MOLAPANTI SIVA KALPANA
25	U15CS126	MOORABOINA NARESH
26	U15CS127	MUPPALLA SURENDRA
27	U15CS128	MURARI KUMAR CHAUDHARY
28	U15CS129	N SWAPNA RAAGA
29	U15CS130	NAGANNAGARI JAGADISH
30	U15CS132	NALLANALLI SATYA SANDEEP KUMAR
31	U15CS133	NALLURI AKHIL BABU
32	U15CS134	NAMBURI VIJAY KUMAR
33	U15CS135	NARENDULA NIREESHA
34	U15CS200	SITAROJ SRIKANTH
35	U15CS201	SMITHA C.S
36	U15CS202	SODISETTY SANDEEP
37	U15CS203	SUBASH CHANDRAN V
38	U15CS204	SUBHAM RAY
39	U15CS205	SUDALAGUNTA GOPI KRISHNA
40	U15CS206	SUJEETH KUMAR K
41	U15CS207	SWARNA LAKSHMI PRIYANKA
42	U15CS208	TAGORE S

R.Svide

COURSE CO-ORDINATOR

HEAD BHROPSRIMENT
Department Of Computer Science & Rusen

HEAD PHOPENTMENT
Ospartment Of Computer Science & Rusen
General Institute Of Higher Education
(Postared as Deemed to be University UIS
Chennal - 600 073. MU

# COURSE FEEDBACK FORM

	ademic Y	ear ear	2020-	2021										
Te	rm													
Co	urse Nun	nber												
Co	urse Title	<b>)</b>	Micro	Aicrosoft Cloud Application										
Nu	mber of (	Credits					Add-on	1,0						
Ty	e of Cou	irse Regular		Elec	ctive		Add-on							
I.	Infor	mation on the Re	espondent: (	Γick (√) Approp	oriately)									
1.	Percentage of classes attended													
	0-20	i	20-40		40-60	60-80		80-100	V					
					ul ul au lastu	me house)								
2.		er of hours per v	111	n the course (C		6-8	1.0	8-10						
	0-2		2-4		4-6	0-8	V .							
3.	Prens	ration for the co	urse by the	student:			No	)						
<i>J</i> .	(i)	Have done part					Yes							
	(ii)				sites		Ye	λ						
	(iii)					Has adequate prior exposure to the prerequisites  Had to pickup relevant additional topics through concurrent study								
	1 (111)	Have no exposure to the background material												
	(iv)	Have no exposi					1	-						
	(iv)		ure to the ba	ckground materi	al		1	-						
4.		spectations for ta	ure to the backing the cou	ekground materi	al lent are:		1	-						
4.			ure to the backing the cou	ekground materi	al lent are:		Yes	-						
1.	The ex	spectations for ta	king the could base in the	ekground materi arse by the stude area of speciali	al lent are:			-						
4.	The ex	Enhance by ski	king the could base in the	ekground materi arse by the stude area of speciali	al lent are:		Yes Yes Yes	-						
4.	(a) (b)	Enhance by ski	iking the could base in the a relevant su	urse by the stud area of speciali	al lent are:		Yes Yes Yes	-						
4.	(a) (b) (c)	Enhance by ski Get exposed to Curiosity	iking the could base in the a relevant sument Opportu	urse by the stud area of speciali abject	al lent are:		Yes Yes Yes Yes Yes	-						
	(a) (b) (c) (d) (e)	Enhance by ski Get exposed to Curiosity Better Employe Complete Cours	king the could base in the a relevant sument Opportuse requirement	urse by the stude area of specialidities	al lent are: zations		Yes Yes Yes	-						
	(a) (b) (c) (d) (e)	Enhance by ski Get exposed to Curiosity Better Employe Complete Cours	king the could base in the a relevant sument Opportuse requirement	urse by the stude area of specialidities	al lent are: zations Fick (√) Appro	oriately)	Yes Yes Yes Yes Yes	-						
4.	(a) (b) (c) (d) (e)	Enhance by ski Get exposed to Curiosity Better Employn Complete Cours	king the could base in the a relevant sument Opportuse requirement	ekground materi	al lent are: zations		Yes Yes Yes Yes Yes	-	E					
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bou	(a) (b) (c) (d) (e) (f)  Pace of Comme	Enhance by ski Get exposed to Curiosity Better Employn Complete Cours To Improve CG structor: Informa The Teaching/lect ent of the Subject of expression	king the could be a relevant sument Opportuse requirement PA	ekground materi	ent are: zations  Fick (\(  \) Appropriate B	oriately)	Yes Yes Yes Yes Yes	-	E					
bou	The end (a) (b) (c) (d) (e) (f) (f) (c) (c) (d) (d) (e) (d) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Enhance by ski Get exposed to Curiosity Better Employn Complete Cours To Improve CG structor: Informs The Teaching/lect ent of the Subject of expression f preparation	iking the could base in the a relevant sument Opportuse requirement PA	ekground materi	ent are: zations  Fick (\(  \) Appropriate B	oriately)	Yes Yes Yes Yes Yes	-	E					
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Chennal - 600 073, INDIA

# COURSE FEEDBACK FORM

Acad	emic Year	7	2020-2	021						
Term										
Cour	se Numbe	er								
Cour	se Title		Micro	soft Cle	oud Applica	ation				
Num	ber of Cre	edits			*					
Туре	of Course	Regu	lar		Elective			Add-on		
I.	Inform	ation on th	e Respondent: (T	ick (√)	Appropriat	ely)				
1.	. Percentage of classes attended									
1.	0-20	age of clas	20-40		40-	60	60-80	T	80-100	90
	0-20		20-10							yo
2.	Numbe	r of hours	per week spent o	n the co	ourse (Other	r than lectu	re hours)			
	0-2		2-4		4-6		6-8		8-10	
				_					N/2	
3.	7	THE RESERVE AND THE	ne course by the s						1800	
	(i)		e part of this cours						No	
	(ii)		ate prior exposure						No	
	(iii)		ckup relevant addi			n concurrent	t study		Yes	
	(iv)	Have no e	exposure to the bac	ekgroun	d material				No	
4.	The exp	pectations	for taking the co	irse by	the student	are:				
	(a)	Enhance by skill base in the area of specializations								
	(b)	Get expos	sed to a relevant su	ibject					No	
	(c)	Curiosity							Yes	
	(d)	Better Employment Opportunity								
	(e)	Complete Course requirements								
	(f)	To Improve CGPA								
Abou	t the Ins	tructor: In	formation on the	Respo	ndent: (Tick	(√) Appro				
					A	В	С	D	ii .	E
1.	Pace of	the Teachin	ng/lecture		~					
2.	Comme	mment of the Subject								
3.	Clarity	ity of expression								
4.	A STATE OF THE STA	f preparatio	N			~				
5.		f interaction			V					
6.			de the class		$\checkmark$					
7.	Others	(please spec	cify		✓					
A . F	vaallant		Pa Vorm Cood		C. Cood		D: Satisfac	tory	E: Poo	- 1
A; E	xcellent		B: Very Good	V'	C: Good		D. Satisfac	tory	E: 100	1

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Department of Computer Science & Engg.,

Bharath Institute of Higher Education & Research

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Chennai - 600 073, NDIA

# COURSE FEEDBACK FORM

cade	mic Year		2020-2021							
erm										
ourse	Number									
ourse	Title		Microsoft Cl	loud Application	n					
lumb	er of Cre	dits								
	of Course			Elective		Ad	d-on	~		
Jpo					-	10-				
. 1	Informs	ntion on the Resp	ondent: (Tick (V	) Appropriately	)					
	Percent	Percentage of classes attended								
Ì	0-20		20-40	40-60	~	60-80		80-100	'	
.		r of hours per we			an lecture			8-10	1.0	
	0-2		2-4	4-6		6-8		8-10	10	
	Danner	ation for the cou	ree by the studen	ıt.						
•			of this course earl				-	Yes		
	(i)		ior exposure to th					No		
	(ii)	Andread and the second	elevant additional		oncurrent st	ndv		11		
	(iii)	107			Olicarent st			Val		
	(iv)	Have no exposu	re to the background	und material				Yes		
4.	The ex	pectations for ta	king the course b	y the student a	re:					
7.	(a)		I base in the area					Yes		
	(b)	Control of the Contro			Ves					
	(c)	Get exposed to a relevant subject  Curiosity  Very								
	(d)	Season to the se	nent Opportunity	7, 375						
	(e)		se requirements							
	(f)	To Improve CC			Yes					
Abo	(1)	structor: Inform	ation on the Res	pondent: (Tick	√) Appropr	iately)				
Abu	ut the in	Structor, Inform		A	В	C	D		E	
1.	Dage	of the Teaching/lea	ture							
2.	Pace of the Teaching/lecture  Comment of the Subject				V					
3.		y of expression		V						
4.		of preparation		V						
5.		of interaction		V	$\checkmark$					
6.		sibility outside the	e class	1.0						
1000	The second second	s (please specify		1 3					76	
7.	1 3 761101	a (piedae apeent)		V /						

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