



RATH INSTITUTE OF SCIENCE AND TECHNO No.173, Agharam Road, Selsiyur, Chennal , T.N - 600 073.

UTE OF HIGH

Requisition Letter

Date:25.05.2015

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 "Statistics with R Specialization" -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 "Statistics with R Specialization" in our campus premises on 02-06-2015, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

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

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research [Declared as Deemed to be University 1950 Of UGC Act, 1956], Channel - 6 (





CIRCULAR

29.05.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Statistics with R Specialization** for the benefit of students. This course is scheduled from 02.06.2015 to 13.06.2015 which includes theory and practical. 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.S.Sadagopan | Professor |
| 2 | Ms.C.Geetha | Assistant Professor |

Head of 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, no...) Chennai - 600 073. INDIA

То

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CERTIFICATE COURSE ON STATISTICS WITH R SPECIALIZATION

Date of Introduction of the Course: 02.07.2015

COURSE SYLLABUS

1. Introduction of Statistics with R Specialization

To learn and analyse and visualize data in R and create reproducible data analysis reports

2. Statistical Inference Fundamentals -1

Demonstrates a conceptual understanding of the unified nature of statistical inference.

3. Bayesian Statistical Inference Based Decisions

Performs frequentist and Bayesian statistical inference and modelling to understand natural phenomena and make data-based decisions.

4. Statistical Results

Explains the communication of statistical results correctly.

5. Statistical Jargon

Describes effectively, and in context without relying on statistical jargon

6. Data-Based Decisions

Explains the critique data-based claims and evaluated data-based decisions, and wrangle and visualize data with R packages for data analysis.

7. Statistical Data Analysis

Demonstrates mastery of statistical data analysis from exploratory analysis to inference to modelling, suitable for applying for statistical analysis or data scientist positions.

8. Bayesian Regression

Explains the Bayesian linear regressions and model averaging, which allows to make inferences and predictions using several models.

9. Perspectives on Bayesian Applications

Describes statisticians on how Applications use Bayesian statistics in various stages.

10. Bayesian Comparisons Techniques

Demonstrates Bayesian comparisons of means and proportions.

11. Bayesian regression Techniques

Explains the Bayesian regression and inference using multiple models.

12. Implementation in R Programming

Describes eliciting prior probabilities to implementing in R (free statistical software) the final posterior distribution.

COURSE OBJECTIVES

To learn and analyse and visualize data in R and learn to perform frequentist and Bayesian statistical inference and modelling to understand natural phenomena and make data-based decisions.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding Bayesian Statistics
- 2. Understanding linear regression.
- 3. Analyse and visualize data in R
- 4. Create reproducible data analysis reports,
- 5. Demonstrate a conceptual understanding of the unified nature of statistical inference
- 6. Perform frequentist and Bayesian statistical inference and modelling to understand natural phenomena

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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 U/S Act, 1950 Chennal - 600 073, INDIA



CERTIFICATE COURSE ON STATISTICS WITH R SPECIALIZATION

Date of Introduction of the Course: 02.07.2015

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 | 02-06-2015(FN) | 1. Introduction of Statistics with R Specialization To learn and analyse and visualize data in R and create reproducible data analysis reports |
| 2 | 03-06-2015 (FN) | 2. Statistical Inference Fundamentals -1 Demonstrates a conceptual understanding of the unified nature of statistical inference |
| 3 | 04-06-2015 (FN) | 3. Bayesian Statistical Inference Based Decisions Performs frequentist and Bayesian statistical inference and modelling to understand natural phenomena and make data-based decisions. |
| 4 | 05-06-2015 (FN) | 4. Statistical Results Explains the communication of statistical results correctly |
| 5,6 | 06-06-2015 (FN & AN) | 5. Statistical Jargon Describes effectively, and in context without relying on statistical jargon |
| 7 | 08-06-2015 (FN) | 6. Data-Based Decisions Explains the critique data-based claims and evaluated data-based decisions, and wrangle and visualize data with R packages for data analysis. |
| 8 | 09-06-2015 (FN) | 7. Statistical Data Analysis Demonstrates mastery of statistical data analysis from exploratory analysis to inference to modelling, suitable for applying for statistical analysis or data scientist positions. |
| 9 | 10-06-2015 (FN) | 8. Bayesian Regression Explains the Bayesian linear regressions and model averaging, which allows to make inferences and predictions using several models. |
| 10 | 11-06-2015 (FN) | 9. Perspectives on Bayesian Applications Describes statisticians on how Applications use Bayesian statistics in various stages. |
| 11 | 12-06-2015 (FN) | 10. Bayesian Comparisons Techniques Demonstrates Bayesian comparisons of means and proportions. |

| 12 | 13-06-2015 (FN) | 11. Bayesian regression Techniques Explains the Bayesian regression and inference using multiple models. |
|----|-----------------|---|
| 13 | 13-06-2015 (AN) | 12. Implementation in R Programming Describes eliciting prior probabilities to implementing in R (free statistical software) the final posterior distribution. |

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COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Commuter Control Commuter Bearath Institute Of Provide Control Control Departor 33 Deemed to be understand to a control Control Offenna: - 600 073, INDIA



Statistics with R Specialization Date of Introduction of the Course: 02.07.2015

School of Computing Registered Students Name List

| S.NO | REG.NO | NAME OF THE STUDENT |
|------|----------|------------------------------|
| 1 | U15CS001 | ABHIJEET KUMAR |
| 2 | U15CS002 | АВНІЛТ KUMAR GUPTA |
| 3 | U15CS003 | ABHISHEK KUMAR SINGH |
| 4 | U15CS004 | ALLU SAI SIVA PRIYANKA NAIDU |
| 5 | U15CS005 | AMBIKE KUMAR SINGH |
| 6 | U15CS006 | ANBUMANI S |
| 7 | U15CS007 | ANJAR ALI |
| 8 | U15CS008 | ANKAM MANJUNATH |
| 9 | U15CS009 | ANNADI DHANUSH |
| 10 | U15CS010 | ANNAVARAPU DIVYA |
| 11 | U15CS011 | ANUMOLU YESWANTH |
| 12 | U15CS012 | ARAVAPALLI SIVA VINAYA |
| 13 | U15CS013 | ARAVINDHAN K R |
| 14 | U15CS014 | ARVIND KUMAR YADAV |
| 15 | U15CS015 | ARYAN SAHU |
| 16 | U15CS016 | ASHISH AGARWAL |
| 17 | U15CS017 | ASHISH RANJAN |
| 18 | U15CS018 | ATTANTI RAVIKANTH |
| 19 | U15CS019 | BANAVATH SUNIL NAIK |
| 20 | U15CS020 | BANDARU RAMESH |
| 21 | U15CS021 | BATTA SIVA PRASAD |
| 22 | U15CS022 | BHARATH K |
| 23 | U15CS023 | BHARATHI V |
| 24 | U15CS024 | BIKKI KUMAR SHA |

| 25 | U15CS025 | BINGEWAR SAISHARAN |
|----|----------|--|
| 26 | U15CS026 | BIRADAVOLU SUCHARITHA |
| 27 | U15CS027 | BODA AKHIL WESLEY |
| 28 | U15CS028 | BONALA SRIDHAR RAO |
| 29 | U15CS029 | BRYAN STEVE PUSHPARAJ I |
| 30 | U15CS030 | CHAKKA KSHITHIJA |
| 31 | U15CS031 | CHAMARTHI LAKSHMI NARAYANA AVINASH |
| 32 | U15CS032 | CHANDRA KANT CHOUDHARY |
| 33 | U15CS033 | CHAPPIDI LAKSHMIKANTH REDDY |
| 34 | U15CS034 | CHIDIPOTHU PRATHYUSHA |
| 35 | U15CS035 | CHINTAGINJALA VENKATA SRI SAI SRAVYA |
| 36 | U15CS036 | CHOWDHARY PRASANNA KUMAR |
| 37 | U15CS037 | CHUNDI VENKATA SESHASAI RAMANAPATANJALI |
| 38 | U15CS038 | CILLA SAI KISHORE |
| 39 | U15CS039 | D N S HRUDAY BHARADWAJ |
| 40 | U15CS040 | DADAM CHAITHRA |
| 41 | U15CS041 | DEEPAK KUMAR SINGH |
| 42 | U15CS042 | DILLIGANESH V |
| 43 | U15CS043 | DIVAKAR M |
| 44 | U15CS044 | DIVYA VANI T |
| 45 | U15CS045 | DODDI PUJITHA |
| 46 | U15CS046 | DOOLIGANTI AKHIL REDDY |
| 47 | U15CS047 | DUPUGUNTLA BHANU SIVA KASINADH |
| 48 | U15CS048 | GANDLUR REDDY GREESHMA |

COURSE COORDINATOR

HEAD OF THE DEPAR

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Rosearch (Declared as Deemed to be University U/S 3 Of UGC Act, 12) Chennai - 600 073. INDIA

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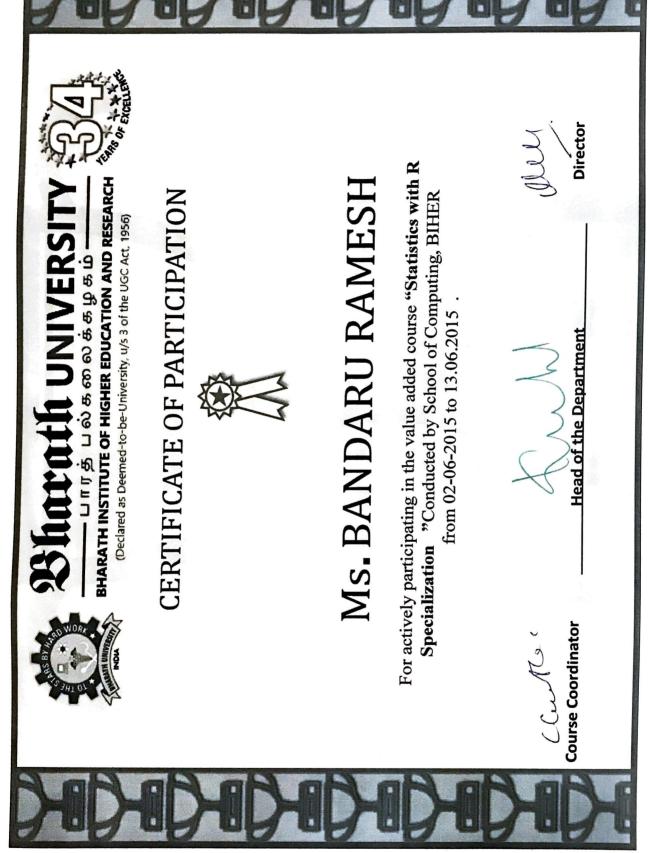
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| | (c) | Curiosity | | | | Yes | | | |
| | (d) | Better Employment | Opportu | nity | | Yes | | | |
| | (e) | Complete Course re | quiremer | nts | | Yes | | | |
| | (f) | To Improve CGPA | | | | Yes | | | |
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HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Doclared as Deemed to be University U/S 3 Of UGC Act, 1955) Chennai - 600 073, INDtA

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| (iii) | Ha | to pickup releva | ant add | itional top | ics throug | gh conci | irrent s | tudy No | | | |
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<u>CERTIFICATE COURSE ON STATISTICS WITH R SPECIALIZATION</u> <u>Introduction of the Course: 02.07.2015</u>



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Course Coordinator

Head of the Department HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Doclared as Deemed to be University U/S 3 Of UGC Act, 1956) Chennai - 500 073, INDIA



BHARATH INSTITUTE OF SCIENCE AND TECHNOL(No.173, Agharem Road, Selalyur, Chennal , T.N - 600 073.

Requisition Letter

Date: 26.05.2015

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 "Training on CCNA Routing and Switching"-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 "Training on CCNA Routing and Switching" in our campus premises on 02.06.2015, students would be participating in this course. We request you kindly to give permission to organize this event.

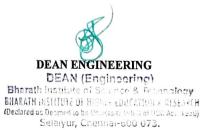
Venue: CSE Smart Room

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





CIRCULAR

29.05.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Training on CCNA Routing and Switching** for the benefit of students. This course is scheduled from 02.06.2015 to 11.06.2015 which includes theory and practical. 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. G. Michael. | Professor |
| 2 | Mrs. N. Priva | Assistant Professor |

Head of Department

HEAD OF DEPARTMENT

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CERTIFICATE COURSE ON Training on CCNA Routing and Switching

Date of Introduction of the Course: 02.07.2015

COURSE SYLLABUS

1. Network Fundamentals

To learn the role and function of network components (Routers, Switches, Bridges and Hubs). OSI and TCP/IP models Data flow between two hosts across a network

2. Characteristics of network topology architectures

Learn about 2 tier, 3 tier, Spine-leaf, WAN, Small office/home office (SOHO), On-premises and cloud

3. LAN Switching Technologies

Configure and verify initial switch configuration. Switch operation (ping, telnet), Identify enhanced switching technologies

4. Switching concepts

MAC learning and aging, Frame switching, Frame flooding, MAC address table

5. IP Routing Technologies

Basic routing concepts, describe the boot process of Cisco IOS routers, Configure and verify basic Router configuration

6. IP Connectivity

Interpret the components of routing table

7. IP Services

Configure and verify DHCP (IOS Router), ACL (Types, Features & Applications of ACLs), and Identify the basic operation of NAT, Describe SNMP v2 & v3

8. WAN Technologies

Identifying different WAN Technologies

9. IP addressing (IPv4 / IPv6)

Private and public IP addresses for IPv4, IPv6 addressing scheme, IPv4 addressing scheme using VLSM and summarization

10. Network Device Security

Define key security concepts, Describe security program elements, and Describe security password policies elements, such as management, complexity, and password alternatives

11. Troubleshooting

Utilize net flow data, Troubleshoot and Resolve VLAN problems, Identify and correct common network problems

12. Automation and programmability

How automation impacts network management, traditional networks with controller-based networking

COURSE OBJECTIVES

This course is designed to impart knowledge about detailed knowledge of Computer Networks, various protocols used in Communication, Managing and configuring Switches and Routers and various WAN technologies.

Students will learn

- 1. Understanding Network Fundamentals
- 2. Understanding LAN Switching Technologies
- 3. Analyse IP Routing Technologies
- 4. Understanding different WAN Technologies
- 5. Demonstrate Private and public IP addresses for IPv4, IPv6 addressing scheme
- 6. Knowing to resolve VLAN problems

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COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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CERTIFICATE COURSE ON STATISTICS WITH R SPECIALIZATION

Date of Introduction of the Course: 02.07.2015

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

<u>Time Table & Lesson plan</u>

| OT ACC | DATE | TOPIC |
|--------|-----------------|--|
| CLASS | DATE | 1.Network Fundamentals |
| 1 | 02-06-2015(FN) | To learn the role and function of network components (Routers, Switches, Bridges and Hubs). OSI and TCP/IP models Data flow between two hosts across a network |
| 2 | 03-06-2015 (FN) | 2.Characteristics of network topology architectures Learn about 2 tier, 3 tier, Spine-leaf, WAN, Small office/home office (SOHO), On-premises and cloud |
| 3 | 04-06-2015 (FN) | 3. LAN Switching Technologies |
| | | Configure and verify initial switch configuration. Switch operation (ping, telnet), Identify enhanced switching technologies |
| 4 | 05-06-2015 (FN) | 4. Switching concepts |
| | | MAC learning and aging, Frame switching, Frame flooding, MAC address table |
| 5 | 06-06-2015 (FN) | 5. IP Routing Technologies |
| | | Basic routing concepts, describe the boot process of Cisco IOS routers, Configure and verify basic Router configuration |
| 6,7 | 06-06-2015 (FN | 6. IP Connectivity |
| | & AN) | Interpret the components of routing table |
| | | 7. IP Services |
| | | Configure and verify DHCP (IOS Router), ACL (Types, Features & Applications of ACLs), and Identify the basic operation of NAT, Describe SNMP v2 & v3 |

| | 08-06-2015 (FN) | 8. WAN Technologies |
|-------|-------------------------|--|
| 8 | 08-00-2013 (111) | Identifying different WAN Technologies |
| 9 | 09-06-2015 (FN) | 9. IP addressing (IPv4 / IPv6) |
| 9 | | Private and public IP addresses for IPv4, IPv6 addressing scheme, IPv4 addressing scheme using VLSM and summarization |
| 10 | 10-06-2015 (FN) | 10. Network Device Security |
| | | Define key security concepts, Describe security program elements, and Describe security password policies elements, such as management, complexity, and password alternatives |
| 11,12 | 11-06-2015 (FN & AN) | 11. Troubleshooting Utilize net flow data, Troubleshoot and Resolve VLAN problems, Identify and correct common network |
| | | problems |
| | | 12. Automation and programmability |
| | | How automation impacts network management, traditional networks with controller-based networking |

N. Priya COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Declared as Deemod-to-be University under section 3 of UGC Act. 1956) (Vide Notification No. F9-5/2000 - U.3. Ministry of Human Resource Development, Govt of India, dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date of Introduction of the Course: 02.07.2015

B.Tech Computer Science and Engineering

Traning on CCNA Routing and Switching

| | Traning on CCNA Routing and Switching | | | | | | |
|-------|---------------------------------------|--------------------------------|--|--|--|--|--|
| S. No | REG.NO | NAME OF THE CANDIDATE | | | | | |
| 1 | U15CS042 | DILLIGANESH V | | | | | |
| 2 | U15CS043 | DIVAKAR M | | | | | |
| 3 | U15CS044 | DIVYA VANI T | | | | | |
| 4 | U15CS045 | DODDI PUJITHA | | | | | |
| 5 | U15CS046 | DOOLIGANTI AKHIL REDDY | | | | | |
| 6 | U15CS047 | DUPUGUNTLA BHANU SIVA KASINADH | | | | | |
| 7 | U15CS048 | GANDLUR REDDY GREESHMA | | | | | |
| 8 | U15CS049 | GANESH BAG | | | | | |
| 9 | U15CS050 | GANGARAJU RAHUL | | | | | |
| 10 | U15CS051 | GANGARAPU UKESH | | | | | |
| 11 | U15CS052 | GANGU BHAGYA | | | | | |
| 12 | U15CS053 | GLADSON J | | | | | |
| 13 | U15CS054 | GOLI SUDEEP KRISHNA | | | | | |
| 14 | U15CS055 | GOLLAPUDI KALYAN KUMAR | | | | | |
| 15 | U15CS056 | GORRE THIRUPATHI REDDY | | | | | |
| 16 | U15CS057 | GUJJETI MAHESH | | | | | |
| 17 | U15CS058 | GUNDA VINAY KUMAR | | | | | |
| 18 | U15CS059 | HANUMAN B | | | | | |
| 19 | U15CS060 | HARI HARAN M | | | | | |
| 20 | U15CS061 | HASTHI RUCHITHA | | | | | |
| 21 | U15CS062 | HEMA NARAYANAN R | | | | | |
| 22 | U15CS063 | INAPARTHI RAGHAVA | | | | | |
| 23 | U15CS064 | INJE RAVI TEJA | | | | | |
| 24 | U15CS065 | INNURU SWATHI | | | | | |
| 25 | U15CS066 | JAGADEESH K | | | | | |
| 26 | U15CS067 | JAGADEESWARA RAO JADDU | | | | | |
| 27 | U15CS068 | JAICHAND KUMAR | | | | | |
| 28 | U15CS069 | JANAKI RAMAN V | | | | | |
| 29 | U15CS070 | JHA ABHISHEK AJAY | | | | | |
| 30 | U15CS071 | JOHN PARAM JYOTHI JYOTHULA | | | | | |
| 31 | U15CS072 | JOTHI R | | | | | |
| 32 | U15CS073 | K THULASIRAM | | | | | |
| 33 | U15CS074 | KADALI VINAY NARASIMHA | | | | | |

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| 38U15CS079KANCHARLAPALLI LOKESHWAR RAO39U15CS080KANCHUMARTHI BHUVANESWAR VINAY40U15CS081KANCHUPATI JAGANMOHAN RAO41U15CS082KANDI ASHOKA REDDY42U15CS083KANDI MOUNIKA43U15CS084KANDUKURI JESHWANTH44U15CS085KANDULA SRINATH45U15CS086KARAPAREDDY BHARGAVI46U15CS087KARTHEESWARAN P47U15CS088KARTHICK S48U15CS090KATTA NARENDRA50U15CS091KHALYAN S N51U15CS092KISHORE VENKAT | 36 | U15CS077 | KALYANAM JASWANTH NAIDU |
| 39U15CS080KANCHUMARTHI BHUVANESWAR VINAY40U15CS081KANCHUPATI JAGANMOHAN RAO41U15CS082KANDI ASHOKA REDDY42U15CS083KANDI MOUNIKA43U15CS084KANDUKURI JESHWANTH44U15CS085KANDULA SRINATH45U15CS086KARAPAREDDY BHARGAVI46U15CS087KARTHEESWARAN P47U15CS088KARTHICK S48U15CS090KATTA NARENDRA50U15CS091KHALYAN S N51U15CS092KISHORE VENKAT | 37 | U15CS078 | KAMBLE NIKHIL KUMAR |
| 40U15CS081KANCHUPATI JAGANMOHAN RAO41U15CS082KANDI ASHOKA REDDY42U15CS083KANDI MOUNIKA43U15CS084KANDUKURI JESHWANTH44U15CS085KANDULA SRINATH45U15CS086KARAPAREDDY BHARGAVI46U15CS087KARTHEESWARAN P47U15CS088KARTHICK S48U15CS099KARUTURI SREE RAM49U15CS091KHALYAN S N50U15CS092KISHORE VENKAT | 38 | U15CS079 | KANCHARLAPALLI LOKESHWAR RAO |
| 41U15CS082KANDI ASHOKA REDDY42U15CS083KANDI MOUNIKA43U15CS084KANDUKURI JESHWANTH44U15CS085KANDULA SRINATH45U15CS086KARAPAREDDY BHARGAVI46U15CS087KARTHEESWARAN P47U15CS088KARTHICK S48U15CS089KARUTURI SREE RAM49U15CS090KATTA NARENDRA50U15CS091KHALYAN S N51U15CS092KISHORE VENKAT | 39 | U15CS080 | KANCHUMARTHI BHUVANESWAR VINAY |
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| 44U15CS085KANDULA SRINATH45U15CS086KARAPAREDDY BHARGAVI46U15CS087KARTHEESWARAN P47U15CS088KARTHICK S48U15CS089KARUTURI SREE RAM49U15CS090KATTA NARENDRA50U15CS091KHALYAN S N51U15CS092KISHORE VENKAT | 42 | U15CS083 | KANDI MOUNIKA |
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| 49 U15CS090 KATTA NARENDRA 50 U15CS091 KHALYAN S N 51 U15CS092 KISHORE VENKAT | 47 | U15CS088 | KARTHICK S |
| 50 U15CS091 KHALYAN S N 51 U15CS092 KISHORE VENKAT | 48 | U15CS089 | KARUTURI SREE RAM |
| 51 U15CS092 KISHORE VENKAT | 49 | U15CS090 | KATTA NARENDRA |
| | 50 | U15CS091 | KHALYAN S N |
| 52 U15CS093 KM AYUSHI JAISWAL | 51 | U15CS092 | KISHORE VENKAT |
| | 52 | U15CS093 | KM AYUSHI JAISWAL |

N. Priye

COURSE CO. ORDINATOR

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top

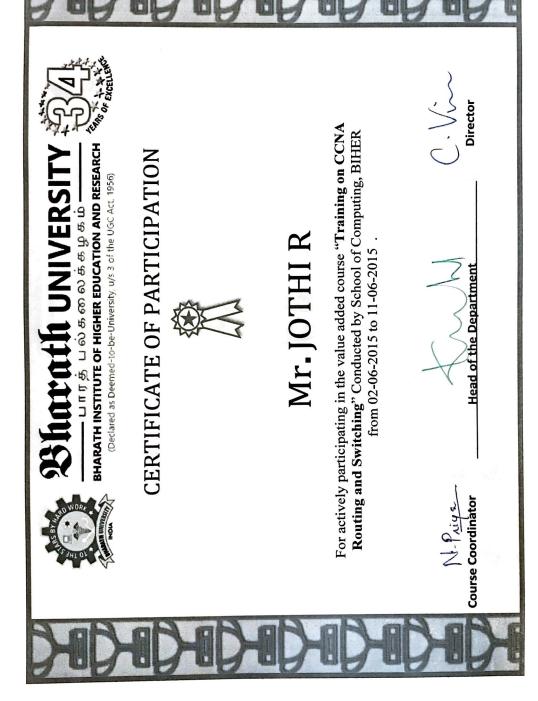
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| erm | | | | | | | | | | | | | | |
| Cours | se Number | | | | | | | | | | | | | |
| Cours | se Title | | Training | on CCNA Routin | g and Switchi | ing | | | | | | | | |
| Numl | ber of Crea | lits | | | | | | | / | | | | | |
| Гуре | of Course | Regula | r | Elective | | | Add-on | | | | | | | |
| | | | | | | | | | | | | | | |
| • | Informa | tion on the | Respondent: (Tic | k (√) Appropriat | ely) | | | | | | | | | |
| | Dercent | age of class | es attended | | | | | | | | | | | |
| | 0-20 | age of class | 20-40 | 40- | 50 | 60-80 | | 80-100 | V | | | | | |
| | 0-20 | | 20 10 | | | | | | | | | | | |
| 2. | Number | r of hours p | er week spent on t | the course (Other | r than lecture | e hours) | | | | | | | | |
| | 0-2 | | 2-4 | 4-6 | | 6-8 | | 8-10 | V | | | | | |
| | 1 | | 1 | J 4. | | | | - | | | | | | |
| 3. | | reparation for the course by the student: | | | | | | | | | | | | |
| | (i) | | ate prior exposure to | | 2 | | | 6 | | | | | | |
| | (ii) (iii) | | kup relevant additio | | | tudy | 6 | es | | | | | | |
| | (iii) | - | posure to the back | | | | | 10 | | | | | | |
| | (1V) | Have no ex | sposure to the outer, | Biodard material | | | | 10 | | | | | | |
| 4. | The exp | expectations for taking the course by the student are: | | | | | | | | | | | | |
| | (a) | Enhance by skill base in the area of specializations 405 | | | | | | | | | | | | |
| | (b) | Get expose | ed to a relevant subj | ject | | | 1 Y | 28 | | | | | | |
| | (c) | Curiosity | | | | | Ab | > | | | | | | |
| | (d) | | ployment Opportun | | | | | S | | | | | | |
| | (e) | Complete | Course requirement | ts | | | 70 | 5 | | | | | | |
| | (f) | To Improv | | | | | - Je | 5 | | | | | | |
| Abo | ut the Ins | tructor: Inf | formation on the R | | | | | | Е | | | | | |
| | | | | A | В | С | | , | L | | | | | |
| 1. | 100000000 | the Teachin | | V | | | | | | | | | | |
| 2. | | ent of the Su | - | | V | | | | | | | | | |
| 3. | | of expressio | | ~ | | | | | | | | | | |
| 4. | | f preparation | | | | | | | | | | | | |
| 5. | | finteraction | | 10 | | | | | | | | | | |
| 6. | | bility outsid | | | | | | | | | | | | |
| 7. | Others | (please spec | ity | | | | | | | | | | | |
| | | | | | | D: Satisfa | | E: Po | | | | | | |

| A anda | mic Yea | r | 2015-20 | 016 | | | | | | | | | |
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| Term | | | | | | | | | | | | | |
| | e Numb | 0 F | | | | | | | | | | | |
| | | | Trainin | g on CCNA R | outing and | Swite | hing | | | | | | |
| Course | er of Cr | adita | | g on centra R | | | | | | | | | |
| | of Cours | | | Fla | ctive | | | Add-on | | / | | | |
| Type o | or Cours | e Regular | | EIC | cuve | | | | | | | | |
| . | 1-6 | ation on the Res | and anti (T | | nuintalu) | | | | | | | | |
| • | Illiorin | anon on the Kes | pondent: (1 | ick (V) Appro | priately) | | | | | | | | |
| | Percen | tage of classes at | tended | | | | | | | | | | |
| F | 0-20 | | 20-40 | | 40-60 | | 60-80 | ./ | 80-100 | | | | |
| | | | | | | | | · V | | | | | |
| L | | r of hours per w | · · | the course (C | | lectu | | | | | | | |
| | 0-2 | | 2-4 | | 4-6 | | 6-8 | | 8-10 | ~ | | | |
| J. | Prenam | ation for the cou | rea by the st | udent: | | | | | | | | | |
| | (i) | Have done part | | | | | | 1 | | | | | |
| L | (i) (ii) | Has adequate pr | | | icitec | | | No | | | | | |
| L | (ii) | | | | | irrant | etudu | No | | | | | |
| L | (iii) (iv) | Had to pickup relevant additional topics through concurrent study 705 Have no exposure to the background material | | | | | | | | | | | |
| | (1V) | nave no exposu | | kground mater | iai | | | No | | | | | |
| | The expectations for taking the course by the student are: | | | | | | | | | | | | |
| | (a) | Enhance by skil | base in the a | area of speciali | izations | | | VaC | | | | | |
| T | (b) | Get exposed to a | a relevant sub | oject | | | | Tes | | | | | |
| | (c) | Curiosity | | | | | | GOC | | | | | |
| h | (d) | Better Employm | ent Opportur | nity | | | | 60 | | | | | |
| | (e) | Complete Cours | e requiremen | nts | | | | Tes | | | | | |
| | (f) | To Improve CG | PA | | | | | Tes | | | | | |
| bout | the Ins | tructor: Informa | tion on the I | Respondent: (| Tick (√) Aj | prop | riately) | 101 | | | | | |
| | | | | A | I | 3 | C | D | | Е | | | |
| . 1 | Pace of | the Teaching/lect | ure | V | - | | | | | | | | |
| 2. | Comme | nt of the Subject | | | 1 | / | | | | | | | |
| | Clarity of | of expression | | L | - | | | | | | | | |
| | | f preparation | | V | - | | | | | | | | |
| | | finteraction | | | L | / | | | | | | | |
| | | bility outside the | class | U | | | | | | | | | |
| 7. | Others (| please specify | | V | | | | | | | | | |
| A: Exe | ellent | D. V. | ery Good | | | | | | | | | | |
| | - ient | D: V6 | ay Good | C: Goo | od C | - | D: Satisfacto | ry | E: Poor | | | | |

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| ade | mic Year | | 2015 | -2016 | , | | | | | | | |
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| rm | | | | | | | | | | | | |
| ourse | e Number | | | | | | | | | | | |
| ours | e Title | | Trai | ning o | n CCN | NA Routing | and Switch | 1 | | | | |
| lumb | er of Cred | its | | | | | and Switch | ling | | | | |
| уре | of Course | Regula | ır | | | Elective | | | | | | |
| | | | | | | Licetive | | | Add-on | | / | |
| | Information | ion on the | Respondent | (Ticl | (V) A | nnronriste | ly) | | | | | |
| | | | | | | -pp: oprime | | | | | | |
| • | | ge of class | es attended | | | | | | | | | |
| | 0-20 | | 20-40 | | | 40-6 | 0 | 60-80 | | 80-100 | | / |
| | Number | of hours r | or week anot | | | | | | | | | |
| | 0-2 | I nours t | per week sper | it on t | he cou | | than lectur | | | | | |
| | | | 2-4 | | | 4-6 | | 6-8 | 1/ | 8-10 | | |
| 3. | Prepara | tion for th | e course by t | he stu | dent: | | | | | | | |
| | (i) | | part of this c | | | | | | | | | |
| | (ii) | | ate prior expo | | | | | | | NO | | |
| | (iii) | | kup relevant | | | | | study | | yes | | |
| | (iv) | | xposure to the | | | | | | | 705 | | |
| | | | | | | | | | | ALO. | | |
| 4. | | | for taking the | | | | | | | | | |
| | (a) | | by skill base in | | | specializatio | ons | | yes | | | |
| | (b) | | ed to a releva | nt sub | ject | | | | Yes | | | |
| | (c) | Curiosity | | | | | | | YAS | | | |
| | (d) | | ployment Op | | | | | | No | | | |
| | (e) | | Course requi | remen | ts | | | | Yes | | | |
| | (f) | To Impro | | | | | | | yes | | | |
| Abo | ut the Ins | tructor: In | formation of | the H | Respor | | ., | | | | | |
| | 1.2 | | | | | A | B | C | | D | 1 | £ |
| 1. | | the Teachi | | | | V | | | | | | |
| 2. | | ent of the S | | | | | V | | | | | |
| 3. 4. | | of expression | | | | K | | | | | | |
| 4. | | of interaction | | | | V | | | | | | |
| 5. 6. | | | ide the class | | | V | | | | | | |
| 0. 7. | | (please spe | | | | | V | | | | | |
| <u> </u> | | (prease spe | | | | V | | | | | | |
| | Excellent | 1 | B: Very Go | bod | 17 | C: Good | | D: Satisfa | actory | E: | Poor | 1 |



CERTIFICATE COURSE ON Training on CCNA Routing and Switching Introduction of the Course: 02.07.2015



NI. Prige Course Coordinator

Head of the Department





Requisition letter

Date: 18.05.2015

From

Dr.Kaliyamurthy M.E., Ph.D.,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

То

Dean Engineering,

Bharath Institute of Higher Education and Research,

Chennai.

Respected Sir

Sub: Request of permission to conduct a value – added course on "Core java for android programming"-Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Core java for android programming" - Reg in our campus premises on 28.05.2015, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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



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. 1956) Selaiyur, Chennai-600 073.

HEAD OF DEPARTMENT Department Of Computer Science & Engg., GC Act, 1995)



CIRCULAR

21.05.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of CORE JAVA FOR ANDROID PROGRAMMING** for the benefit of students. This course is scheduled from 28.05.2015 to 09.06.2015 which includes theory and practical. 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. Gr. Michael | Professor |
| 2 | Mas. R. Kavitha | Assistant Professor |

Head of Department

То

Copy to CSE

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CERTIFICATE COURSE ON CORE JAVA FOR ANDROID PROGRAMMING

Date of Introduction of the Course: 02.07.2015

COURSE SYLLABUS

1. Introduction of Core Java

To learn and analyse Core java for android

2. Introduction to android studio

Provides an overview of Android Studio, explaining how to install it and apply it to develop a simple app using basic Java and Android features presented in this MOO

3. MOOC Overview

organization of the MOOC and the topics it covers. It also discusses the MOOC prerequisites, workload, and learning strategies needed to complete the MOOC successfully. It then presents an overview of key features in the Java language, outlining its support for object-oriented programming concepts that guide the development of Android apps.

4. Writing a Simple Android App Using Basic Java Features

Explains how to write a simple Android app that defines variables using primitive Java data types, shows how to assign values to those variables, and output them to the Android display using Java classes and methods

5. Control Flow

Covers Java's looping constructs (e.g., for loops, while loops, and do/while loops), as well as its conditional statements (e.g., if/else statements)

6. Structured Data

Provides more detail on common data structures supported by Java, including built-in arrays, as well as core classes in the Java Collections Framework, such as ArrayList and HashMap.

7. Classes and Interfaces

overs Java classes and interfaces, focusing on data types, fields, methods, generic parameters, and exceptions.

8. Inheritance

Explains the inheritance and its view towards android programming

9. Polymorphism

Examines Java's polymorphism features (e.g., extending classes and virtual methods).

10. Android Calculator App

Guides learners through the creation of an Android app that implements a simple calculator, which provides features for adding, subtracting, multiplying, and dividing numbers input by various means (e.g., via numbers and buttons on the Android user interface).

COURSE OBJECTIVES

This Specialization enables learners to successfully apply core Java programming languages features & software patterns needed to develop maintainable mobile apps comprised of core Android components, as well as fundamental Java I/O & persistence mechanisms.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding Core java
- 2. Understanding Android app.
- 3. Analyse and inherit java in android
- 4. Create Android programming with java.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT



CERTIFICATE COURSE ON CORE JAVA FOR ANDROID PROGRAMMING

Date of Introduction of the Course: 02.07.2015

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

<u>Time Table & Lesson plan</u>

| CLASS | DATE | TOPIC |
|-------|-------------------------|--|
| 1 | 28-05-2015(FN) | 1. Introduction of Core Java To learn and analyse Core java for android |
| 2 | 29-05-2015 (FN) | 2. Introduction to android studio Provides an overview of Android Studio, explaining how to install it and apply it to develop a simple app using basic Java and Android features presented in this MOO. |
| 3,4 | 30-05-2015 (FN & AN) | 3. MOOC Overview organization of the MOOC and the topics it covers. It then presents an overview of key features in the Java language, outlining its support for object-oriented programming concepts that guide the development of Android apps. |
| 5 | 01-06-2015 (FN) | 4. Writing a Simple Android App Using Basic Java Features Explains how to write a simple Android app that defines variables using primitive Java data types |
| 6 | 02-06-2015 (FN) | 5. Control Flow Covers Java's looping constructs (e.g., for loops, while loops, and do/while loops), as well as its conditional statements (e.g., if/else statements) |

| 03-06-2015 (FN) | 6.Structured Data Provides more detail on common data structures supported by Java, including built-in arrays, as well as core classes in the Java Collections Framework, such as ArrayList and HashMap. |
|------------------------|--|
| 05-06-2015 (FN) | 7. Classes and Interfaces Provide overs Java classes and interfaces, focusing on data types, fields, methods, generic parameters, and exceptions. |
| 06-06-2015 (FN &AN) | 8. Inheritance Explains the inheritance and its view towards android programming. |
| 08-06-2015 (AN) | 9. Polymorphism Examines Java's polymorphism features (e.g., extending classes and virtual methods). |
| 09-06-2015 (FN) | 10.Android Calculator App Guides learners through the creation of an Android app that implements a simple calculator, which provides features for adding, subtracting, multiplying, and dividing numbers input by various means (e.g., via numbers and buttons on the Android user interface). |
| | (FN) 05-06-2015 (FN) 06-06-2015 (FN &AN) 08-06-2015 (AN) 09-06-2015 |

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Declared as Deomed-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) (Declared as Deemed-to loation No. F.9-5/2000 - U.3, Min

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

. -. .

| | B.Tech Computer Sc | ience and Engineering | | | | | | | | | | |
|-------|---|--------------------------------|--|--|--|--|--|--|--|--|--|--|
| | Academic | year 2015-16 | | | | | | | | | | |
| | CORE JAVA FOR AND | DROID PROGRAMMING | | | | | | | | | | |
| | DATE OF INTRODUCTION: 02.07.2015 | | | | | | | | | | | |
| S. No | REG.NO | NAME OF THE CANDIDATE | | | | | | | | | | |
| 1 | U15CS039 | D N S HRUDAY BHARADWAJ | | | | | | | | | | |
| 2 | U15CS040 | DADAM CHAITHRA | | | | | | | | | | |
| 3 | U15CS041 | DEEPAK KUMAR SINGH | | | | | | | | | | |
| 4 | U15CS042 | DILLIGANESH V | | | | | | | | | | |
| 5 | U15CS043 | DIVAKAR M | | | | | | | | | | |
| 6 | U15CS044 | DIVYA VANI T | | | | | | | | | | |
| 7 | U15CS045 | DODDI PUJITHA | | | | | | | | | | |
| 8 | U15CS046 | DOOLIGANTI AKHIL REDDY | | | | | | | | | | |
| 9 | U15CS047 | DUPUGUNTLA BHANU SIVA KASINADH | | | | | | | | | | |
| 10 | U15CS048 | GANDLUR REDDY GREESHMA | | | | | | | | | | |
| 11 | U15CS049 | GANESH BAG | | | | | | | | | | |
| 12 | U15CS050 | GANGARAJU RAHUL | | | | | | | | | | |
| 13 | U15CS051 | GANGARAPU UKESH | | | | | | | | | | |
| 14 | U15CS052 | GANGU BHAGYA | | | | | | | | | | |
| 15 | U15CS053 | GLADSON J | | | | | | | | | | |
| 16 | U15CS054 | GOLI SUDEEP KRISHNA | | | | | | | | | | |
| 17 | U15CS055 | GOLLAPUDI KALYAN KUMAR | | | | | | | | | | |
| 18 | U15CS056 | GORRE THIRUPATHI REDDY | | | | | | | | | | |
| 19 | U15CS057 | GUJJETI MAHESH | | | | | | | | | | |
| 20 | U15CS058 | GUNDA VINAY KUMAR | | | | | | | | | | |
| 21 | U15CS059 | HANUMAN B | | | | | | | | | | |
| 22 | U15CS060 | HARI HARAN M | | | | | | | | | | |
| 23 | U15CS061 | HASTHI RUCHITHA | | | | | | | | | | |
| 24 | U15CS062 | HEMA NARAYANAN R | | | | | | | | | | |
| 25 | U15CS063 | INAPARTHI RAGHAVA | | | | | | | | | | |
| 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 | U15CS070 | JHA ABHISHEK AJAY | | | | | | | | | | |
| | Annual and an entropy of the second | | | | | | | | | | | |

COURSE COORDINATOR

| cade | mic Year | | 2015-16 | | | | | | | | | | |
|------------|--|---|-------------------|----------------------------|---------------|------------|------------|--------|--------|------|--|--|--|
| erm | | | | | | | | | | | | | |
| ours | e Number | | | | | | | | | | | | |
| ours | e Title | | CORE J | AVA FO | OR ANDRO | ID PROC | GRAMMING | ł | | | | | |
| lumb | oer of Cred | its | | | | | | | | | | | |
| ype | of Course | Regular | | | Elective | | I | Add-on | L | / | | | |
| | | | | | | | | | | | | | |
| | Informat | tion on the Res | pondent: (Tic | k (√) A | ppropriately |) | | | | | | | |
| | Percentage of classes attended | | | | | | | | | | | | |
| | 0-20 | ge of classes at | 20-40 | | 40-60 | | 60-80 | 1 | 80-100 | N | | | |
| | 0-20 | | 20-40 | | | | | | | | | | |
| | Number | of hours per w | veek spent on | the cou | rse (Other th | nan lectur | e hours) | | | | | | |
| | 0-2 | | 2-4 | | 4-6 | | 6-8 | | 8-10 | | | | |
| | 1 | | | | | | | | | | | | |
| 3 . | Preparation for the course by the student: (i) Have done part of this course earlier | | | | | | | | | | | | |
| | | - | | | | | | NO | | | | | |
| | | Has adequate prior exposure to the prerequisites Yes | | | | | | | | | | | |
| | | Had to pickup relevant additional topics through concurrent study | | | | | | | | | | | |
| | (iv) | Have no exposure to the background material | | | | | | | | | | | |
| 4. | The exp | expectations for taking the course by the student are: | | | | | | | | | | | |
| | (a) | | | | | | | | | | | | |
| | (b) | Get exposed to a relevant subject | | | | | | | | | | | |
| | (c) | Curiosity | | YPS | | | | | | | | | |
| | (d) | Better Employ | yment Opportu | ent Opportunity <u>Jes</u> | | | | | | | | | |
| | (e) | Complete Con | urse requireme | e requirements 40S | | | | | | | | | |
| | (f) | To Improve C | | | | | | | JOS | | | | |
| Ab | out the Ins | structor: Infor | mation on the | Respo | ndent: (Tick | (√) Appro | priately) | | l | | | | |
| | | | | | A | В | C | | D | E | | | |
| 1. | Pace of | f the Teaching/l | ecture | | ~ | | | | | | | | |
| 2. | Comm | ent of the Subje | ect | | ~ | | | | | | | | |
| 3. | Clarity | of expression | | | | / | | | | | | | |
| 4. | | of preparation | | | | | | | | | | | |
| | Level | of interaction | | | ~ | | | | | | | | |
| 5. | | sibility outside t | the class | | ~ | | | | | | | | |
| 5. 6. | | | | | 6 | | | | | | | | |
| | | (please specify | / | | | | | | | | | | |
| 6. 7. | | | / B: Very Good | | C: Good | | D: Satisfa | ctory |) E: | Poor | | | |

| cad | lemic Year | ſ | 2015-16 | | | | | | | | | |
|------|--|------------------------|-------------------------------|----------|---------------|--------------|--------------|-------|--------|-----|--|--|
| erm | | | | | | | | | | | | |
| Cour | se Numbe | r | | | | | | | | | | |
| Cour | se Title | | CORE | JAVA F | OR ANDR | OID PROC | GRAMMING | | | | | |
| Num | ber of Cre | edits | | | | | | | | / | | |
| Туре | of Course | e Regular | | | Elective | | A | dd-on | V | / | | |
| | | | | | | | | | | | | |
| Ι. | Inform | ation on the Respon | dent: (Ti | ck (√) A | ppropriate | y) | | | | | | |
| | Percent | age of classes atten | ded | | | | | | | | | |
| | 0-20 | - | -40 | | 40-60 |) | 60-80 | | 80-100 | | | |
| | | | | | | | | ~ | | | | |
| 2. | Number | r of hours per week | spent on | the cou | rse (Other | than lectur | e hours) | | | | | |
| | 0-2 | 2 | 4 | | 4-6 | | 6-8 | | 8-10 | | | |
| | 1 | | | | | | | | | | | |
| 3. | | ation for the course | | | | | | | 1 | | | |
| | (i) | Have done part of t | | | | | | | 10 | | | |
| | (ii) | | exposure to the prerequisites | | | | | | | | | |
| | (iii) | | | | | | | | | | | |
| | (iv) | Have no exposure | to the bac | kground | material | | | | NO | | | |
| l. | The expectations for taking the course by the student are: | | | | | | | | | | | |
| | (a) | Enhance by skill ba | ase in the | area of | specializatio | ns | | YQ | 3 | | | |
| | (b) | Get exposed to a re | elevant su | bject | | | | | | | | |
| | (c) | Curiosity | | | | | | N | 0 | | | |
| | (d) | Better Employmen | t Opportu | inity | | | | YO | S | | | |
| | (e) | Complete Course r | equireme | nts | | | | 40 | .8 | | | |
| | (f) | To Improve CGPA | | | | | | 40 | S | | | |
| Abo | ut the Ins | tructor: Informatio | on on the | Respon | dent: (Tick | (√) Approp | riately) | 1 | | | | |
| | | | | | A | В | C | D | | E | | |
| 1. | Pace of | the Teaching/lecture | ; | | \checkmark | | | | | | | |
| 2. | Comme | ent of the Subject | | | | \checkmark | | | | | | |
| 3. | Clarity | of expression | | | ~ | | | | | | | |
| 4. | Level o | f preparation | | | ~ | | | | | | | |
| 5. | Level o | f interaction | | | | - | | | | | | |
| 6. | Accessi | bility outside the cla | ISS | | ~ | | | | | | | |
| 7. | Others | (please specify | | | ~ | | | | | | | |
| | | m 17 | Card | | C. Cood | | D. Satisfant | 0 22 | E. D. | | | |
| A: E | Excellent | B: Ver | y Good | | C: Good | 11 | D: Satisfact | Ury | E: Po | TOT | | |

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| cade | mic Year | r | | 2015-1 | 6 | | | | | | |
|-------|-----------|-------------|----------------|---------|------------|------------|-------------|------------|-------------|--------|---|
| erm | | | | | | | | | | | |
| Cours | e Numbe | r | | | | | | | | | |
| Cours | e Title | | | CORE | JAVA FO | OR AND | ROID PRO | OGRAMMIN | G | | |
| lumb | er of Cre | dits | | | | | | | | | , |
| уре | of Course | e Reg | gular | | | Elective | | | Add-on | ~ | / |
| | | | | | | | | | | | |
| | Informa | ation on t | the Respond | ent: (T | ïck (√) Aj | ppropriat | ely) | | | | |
| . | Percenta | age of cla | asses attend | ed | | | | | | | |
| ł | 0-20 | | 20-4 | | | 40-0 | 50 | 60-80 | | 80-100 | |
| | | 1 | | | | | | | | | l |
| | Number | of hour | s per week s | pent or | 1 the cour | rse (Other | than lectu | ure hours) | | | |
| | 0-2 | | 2-4 | | | 4-6 | | 6-8 | | 8-10 | |
| . 1 | D | | | | | | | I | | L | |
| L | | | the course b | - | | | | | | | |
| L | | | ne part of th | | | | | | | Yes | |
| | | | quate prior e | - | - | • | | | | No | |
| L | | | oickup releva | | - | • | n concurren | nt study | | Yes | |
| | (iv) | Have no | exposure to | the bac | kground | material | | | | Ales. | |
| T | The exp | ectation | s for taking | the cou | rse by th | e student | are | | | | |
| + | | | by skill bas | | - | | | ······ | | | |
| ł | (b) | | osed to a rele | | - | | | | Yes | 7 > | |
| ŀ | (c) | Curiosit | | | | | | | yes | | |
| ł | (d) | | mployment | Opporti | inity | | | | <u> 405</u> | | |
| - | (e) | | te Course red | | | | | | yes | | |
| + | (f) | | ove CGPA | | | | | | NO | ? | |
| bout | | | Information | on the | Respond | ent: (Tick | | opriately) | 709 | | |
| | | | | | - | A | B | C | D | | E |
| | Pace of t | the Teach | ing/lecture | | | V | | | | | |
| | Commer | nt of the S | Subject | | | - | ~ | | | | |
| | Clarity o | of express | sion | | | - | | | | | |
| | | preparat | | | | | | | | | |
| . | | interaction | | | | - | | | | | |
| | Accessit | oility outs | side the class | | | | 1 | | | | |
| | Others (| please sp | ecify | | | ~ | 0 | | | | |
| . | | | - | | | - | | | | | |
| | cellent | | B: Very | | | | | | tory | | |

HEAD OF DEPARTMENT







CERTIFICATE OF PARTICIPATION

(Declared as Deemed-to-be-University, u/s 3 of the UGC Act, 1956)



Ms. HEMA NARAYANAN

For actively participating in the value added course **"core java for Android Programming** "Conducted by School of Computing, BIHER

from 28-05-2015 to 09.06.2015

oordinator

Department Head of the

C. V. Director

CERTIFICATE COURSE ON CORE JAVA FOR ANDROID PROGRAMMING

Introduction of the Course: 02.07.2015



Course Coordinator

Head of the Department

For of the first f





Requisition letter

Date: 18.05.2015

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"-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 28.05.2015, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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.

HÒD

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) Chonnal - 660 not 11014



DEAN ENGINEERING DEAN (Engineering) Bharath Institute of Science & Technolo BHARATH INSTITUTE OF HIGHER EDUCATION & Ri (Declared as Deemed to be University U/S 3 of UGC Actional Selaiyur, Chennal-600 073.



CIRCULAR

21.05.2015

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 28.05.2015 to 09.06.2015 which includes theory and practical. 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 | Da A. R. Arunachalam | Professor |
| 2 | Mas Cr. Kavitha | Assistant Professor |

Head of Department

То

Copy to CSE

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CERTIFICATE COURSE ON IBM AI ENTERPRISE WORKFLOW SPECIALIZATION

Date of Introduction of the Course: 02.07.2015

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 Al

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. Thr 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



CERTIFICATE COURSE ON IBM AI ENTERPRISE WORKFLOW SPECIALIZATION

Date of Introduction of the Course: 02.07.2015

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

<u>Time Table & Lesson plan</u>

| CLASS | DATE | TOPIC |
|--------|-------------------------|--|
| CLIROD | 22 | 1. IBM AI Enterprise Workflow Introduction |
| 1 | 28-05-2015 (FN) | 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. |
| | 29-01-2015 | 2. Technical essentials for AI |
| 2 | (FN) | 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 |
| 3,4 | 30-05-2015 (FN & AN) | Identify use cases where artificial intelligence solutions can address business opportunities. Demonstrate knowledge of scenarios for application of machine learning. |
| | 01-06-2015 | 4. Data understanding techniques in AI. |
| 5 | (FN) | Demonstrate knowledge of data collection practices. Explain characteristics of different data types. |
| | | 5. Data Preparation technique in data science |
| 6 | 02-06-2015 (FN) | Demonstrate expertise cleaning data and addressing data anomalies. Show knowledge of feature engineering and dimensionality reduction techniques. |
| | 03-06-2015 | 7. Application of data science and models |
| 7 | (FN) | Explain machine learning algorithms and the theoretical basis behind them. |

| 9 | 04-06-2015 (FN) | 8. Application of AI techniques and models. Demonstrate practical experience building machine learning models and using different machine learning algorithms. |
|----|-----------------------------|--|
| 10 | 05-06-2015 (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 | 06-06-2015 (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 | 08-0 6-2 015 (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 | 09-0 ይ- 2015 (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 |

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COURSE COORDINATOR

HEAD OF THE DEPARTMENT



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(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)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.Tech Computer Science and Engineering

Academic year 2015-16

IBM AI Enterprise Workflow Specialization

DATE OF INTRODUCTION:02.07.2015

| 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

| | nic Year | | 2015-16 | | | | | | |
|---|--|---|---|---|--|-------------|---------------------------------|--------|---|
| rm . | | | | | | | | | |
| ourse | Number | | | | | | | | |
| ourse | Title | | IBM AI | ENTERPRIS | E WORKFL | OW SPECIAI | IZATION | | |
| umb | er of Cred | its | | | | | | | |
| pe o | of Course | Regular | | Electi | ive | | Add-on | | |
| | | | | | | | | | |
| | Informa | tion on the Res | pondent: (Tie | ck (√) Appropr | iately) | | | | |
| | | | | | | | | | |
| | | age of classes at | | | | 1000 | T | 80.100 | T |
| | 0-20 | | 20-40 | 4 | 40-60 | 60-80 | | 80-100 | - |
| | Number | of hours per w | eek spent on | the course (Ot | her than lect | ure hours) | | | |
| | 0-2 | | 2-4 | | 4-6 | 6-8 | | 8-10 | |
| | | | | | | | | | |
| s. | Prepara | tion for the cou | arse by the st | udent: | | | | | |
| | (i) | Have done part | of this course | e earlier | | | A | 0 | |
| | (ii) | Has adequate p | rior exposure | to the prerequis | sites | | A | Jo | |
| | (iii) | Had to pickup | relevant addit | ional topics thro | ough concurre | nt study | C | IRS | |
| | (iv) | Have no expos | 4 41 1 | | | | 1 | 6 | |
| | | nave no expos | ure to the bac | kground materia | al | | | RO | |
| | | | | | | | | alo | |
| 4. | The exp | pectations for ta | aking the cou | rse by the stud | ent are: | | | Alo' | |
| 4. | The exp (a) | pectations for ta Enhance by sk | aking the cou ill base in the | rse by the stud area of specializ | ent are: | | Ye | slo- | |
| 4. | The exp (a) (b) | ectations for ta Enhance by sk Get exposed to | aking the cou ill base in the | rse by the stud area of specializ | ent are: | | 4e 7es | s | |
| 4. | The exp (a) (b) (c) | Enhance by sk Get exposed to Curiosity | aking the cou ill base in the a relevant su | rse by the stud area of speciali: bject | ent are: | | yes yes | s | |
| 4. | The exp (a) (b) (c) (d) | Enhance by sk Get exposed to Curiosity Better Employ | aking the cou ill base in the a relevant su ment Opportu | rse by the stud area of specializ bject unity | ent are: | | 7es 705 7es | | |
| 4. | The exp (a) (b) (c) (d) (e) | Enhance by sk Get exposed to Curiosity Better Employ Complete Cou | aking the cou ill base in the a relevant su rment Opportu rse requireme | rse by the stud area of specializ bject unity | ent are: | | 705 705 705 705 705 | | |
| | The exp (a) (b) (c) (d) (e) (f) | Enhance by sk Get exposed to Curiosity Better Employ Complete Cou To Improve Co | aking the cou ill base in the a relevant su rment Opportu rse requireme GPA | rse by the stud area of specializ bject unity nts | ent are: zations | ropriately) | 7es 705 7es | | |
| | The exp (a) (b) (c) (d) (e) (f) | Enhance by sk Get exposed to Curiosity Better Employ Complete Cou | aking the cou ill base in the a relevant su rment Opportu rse requireme GPA | rse by the stud area of specializ bject unity nts | ent are: zations | ropriately) | 705 705 705 705 705 | S | |
| | The exp (a) (b) (c) (d) (e) (f) put the Inset | Enhance by sk Get exposed to Curiosity Better Employ Complete Cou To Improve Co | aking the cou ill base in the o a relevant su ment Opportu rse requireme GPA nation on the | rse by the stud area of specializ bject inity nts Respondent: (A | ent are: zations Tick (√) App B | | 725 705 725 725 72 | S | E |
| Abo | The exp (a) (b) (c) (d) (e) (f) pace of | Enhance by sk Get exposed to Curiosity Better Employ Complete Cou To Improve Co structor: Inform | aking the cou ill base in the o a relevant su rment Opportu rse requireme GPA nation on the | rse by the stud area of specializ bject inity nts Respondent: (A | ent are: zations Tick (√) App B | | 725 705 725 725 72 | S | E |
| Abo 1. | The exp (a) (b) (c) (d) (e) (f) Pace of Comm | Enhance by sk Get exposed to Curiosity Better Employ Complete Cou To Improve Co structor: Inform | aking the cou ill base in the o a relevant su rment Opportu rse requireme GPA nation on the | rse by the stud area of specializ bject inity nts Respondent: (A | ent are: zations Tick (√) App B | | 725 705 725 725 72 | S | E |
| Abo 1. 2. | The exp(a)(b)(c)(d)(e)(f)put the InstPace ofCommClarity | Enhance by sk Get exposed to Curiosity Better Employ Complete Cou To Improve Co structor: Inform | aking the cou ill base in the o a relevant su rment Opportu rse requireme GPA nation on the | rse by the stud area of specializ bject inity nts Respondent: (A | ent are: zations Tick (√) App B | | 725 705 725 725 72 | S | E |
| Abo 1. 2. 3. | The exp(a)(b)(c)(d)(e)(f)Dut the InstPace ofCommClarityLevel of | Enhance by sk Get exposed to Curiosity Better Employ Complete Cou To Improve Co structor: Inform f the Teaching/le ent of the Subject of expression | aking the cou ill base in the o a relevant su rment Opportu rse requireme GPA nation on the | rse by the stud area of specializ bject inity nts Respondent: (A | ent are: zations Tick (√) App B | | 725 705 725 725 72 | S | E |
| Abo 1. 2. 3. 4. | The exp (a) (b) (c) (d) (e) (f) pace of Comm Clarity Level | ectations for ta Enhance by sk Get exposed to Curiosity Better Employ Complete Cou To Improve Co structor: Inform f the Teaching/le ent of the Subject of expression | aking the cou ill base in the o a relevant su ment Opportu rise requireme GPA nation on the ecture | rse by the stud area of specializ bject inity nts Respondent: (A | ent are: zations Tick (√) App B | | 725 705 725 725 72 | S | E |
| Abo 1. 2. 3. 4. 5. | The exp (a) (b) (c) (d) (c) (f) (f) Pace of Comm Clarity Level of Level of Access | Enhance by sk Get exposed to Curiosity Better Employ Complete Cou To Improve Co structor: Inform f the Teaching/le ent of the Subject of expression of preparation | aking the cou ill base in the o a relevant su ment Opportu rise requireme GPA nation on the ecture | rse by the stud area of specializ bject inity nts Respondent: (A | ent are: zations Tick (√) App B | | 725 705 725 725 72 | S | E |
| Abo 1. 2. 3. 4. 5. 6. 7. | The exp (a) (b) (c) (d) (c) (f) (f) Pace of Comm Clarity Level of Level of Access | ectations for ta Enhance by sk Get exposed to Curiosity Better Employ Complete Cou To Improve Co structor: Inform f the Teaching/le ent of the Subject of expression of preparation of interaction sibility outside the copease specify | aking the cou ill base in the o a relevant su ment Opportu rise requireme GPA nation on the ecture | rse by the stud area of specializ bject inity nts Respondent: (A | ent are: zations | | 725 705 725 72 72 | S | E |

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| cader | nic Year | | 2015 1 | e e e e e e e e e e e e e e e e e e e | | | | | | |
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| | nic Year | | 2015-16 | > | | | | | | |
| erm | | | | | | | | | | |
| | Number | | | | | | | | | |
| Course | | | IBM A | I ENTE | RPRISE | WORKFLO | OW SPECIA | LIZATION | | |
| | er of Cred | its | | | | | | | | |
| Гуре о | f Course | Regular | | | Elective | | | Add-on | | 7 |
| | | | | | | | | | | |
| • | Informa | tion on the Res | pondent: (T | `ick (√) A | ppropriat | tely) | | | | |
| | Percenta | ge of classes at | tondod | | | | | | | |
| | 0-20 | ige of classes at | 20-40 | 1 | 40- | 60 | 60.80 | | 80.100 | |
| | . 20 | | 20-40 | | 40- | 00 | 60-80 | V | 80-100 | |
| 2. | Number | of hours per w | eek spent o | n the cou | urse (Othe | r than lectu | re hours) | | | |
| | 0-2 | | 2-4 | | 4-6 | | 6-8 | | 8-10 | V |
| 2 | D | | | | | | | | | |
| 3. | | tion for the cou | | | | | | | | |
| | (i) | Have done part | | | | | | 46 | 28 | |
| | (ii) (iii) | Has adequate p | | - | | | | Λ. | 10 | |
| | <u> </u> | Had to pickup r | | - | | h concurren | t study | 4 | es | |
| | (iv) | Have no exposi | are to the ba | ckground | i material | | | A | 10 | |
| 4. | The exp | ectations for ta | king the co | urse by t | the studen | t are: | | | | |
| | (a) | Enhance by ski | ll base in the | e area of | specializat | ions | | 40 | C | |
| | (b) | Get exposed to | a relevant s | ubject | | | . ⁴ | - le | 2 | |
| | (c) | Curiosity | | | | | | (e | 105 | |
| | (d) | Better Employ | ment Oppor | tunity | | | | - t | to | |
| | (e) | Complete Cour | rse requirem | ents | | | | | ies | |
| | (f) | To Improve CO | GPA | | | | | / | ies | |
| Abou | it the Ins | tructor: Inform | ation on th | e Respor | ndent: (Tic | ck (√) Appro | priately) | / | 0 | |
| | | | | | Α | В | С | D | | E |
| 1. | Pace of | the Teaching/lea | cture | | V | | | | | |
| 2. | Comme | ent of the Subjec | t | | | V | | | | |
| 3. | Clarity | of expression | | | V | | | | | |
| 4. | | f preparation | | | V | | | | | |
| 5. | Level o | f interaction | | | | ~ | | | | |
| 6. | Access | ibility outside the | e class | | V | | | | | |
| 7. | Others | (please specify | | | V | | | | | |
| A . F | voollant | | Very Good | | C: Good | | D: Satisfa | octory | F. D. | 0 F |
| A . H | xcellent | B: | very Good | \checkmark | 0.000 | | D. Satisia | ictory | E: Po | or |

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| erm . | | | | | | | | | |
| ourse | Number | | | | | | | | |
| ourse | Title | | IBM AI EI | NTERPRISE W | ORKFLO | W SPECIA | LIZATION | | |
| lumbo | er of Credit | s | | | | | | | |
| Гуре о | of Course | Regular | | Elective | | | Add-on | / | <i>/</i> |
| | | | | | | | | \bigvee | |
| • | Informati | on on the Resp | ondent: (Tick | (√) Appropriate | ly) | | | | |
| | Percentag | e of classes atte | ended | | | | | | |
| | 0-20 | | 20-40 | 40-6 | 0 | 60-80 | | 80-100 | |
| | | | 20-40 | 40-0 | 0 | 00-80 | | 80-100 | |
| 2. | Number o | of hours per we | ek spent on th | e course (Other | than lectur | re hours) | | | |
| | 0-2 | | 2-4 | 4-6 | | 6-8 | V | 8-10 | |
| | | | | | | | V | | |
| 3. | | on for the cour | | | | | | | |
| | | lave done part of | | | | | No | | |
| | | | | the prerequisites | | | NO | | |
| | | | | nal topics through | concurrent | study | Yes | | |
| | (iv) I | Have no exposu | re to the backg | round material | | | NO | | |
| 4. | The expe | ctations for tak | ing the course | e by the student | are: | | | | |
| | (a) 1 | Enhance by skill | base in the are | ea of specializatio | ons | | 14.0 | | |
| | | Get exposed to a | | | | | - 405 | | |
| | | Curiosity | | | | | Yes | | |
| | (d) | Better Employm | ent Opportunit | ty | | | 1 | , | |
| | (e) | Complete Cours | e requirements | 5 | | | yes tes | | |
| | (f) | To Improve CG | PA | | | | 425 | | |
| Abou | it the Instr | uctor: Informa | tion on the R | espondent: (Ticl | (√) Appro | priately) | | | |
| | | | | A | В | C | D | | E |
| 1. | Pace of t | he Teaching/lect | ure | | \checkmark | | | | |
| 2. | Commen | t of the Subject | | | | | | | |
| 3. | Clarity o | f expression | | | 1/ | | | | |
| 4. | Level of | preparation | | | | | | | |
| 5. | Level of | interaction | | V | | | | | |
| 6. | Accessib | ility outside the | class | V | | | | | |
| 7. | Others (J | please specify | | V | | | | | |
| | Excellent | B: V | ery Good | C: Good | | D: Satisfa | ctory | E: Poo | |
| A: F | xcellent | | | 0.000 | | D. Gausia | L'unit | L; r00 | r |

HEAD OF THE DEPARTMENT





(Declared as Deemed-to be University, u/s 3 of the UGC Act. 1956)







Mr. THULASIRAM

Workflow Specialization "Conducted by School of Computing, BIHER For actively participating in the value added course "IBM AI Enterprise from 28-05-2015 to 09.06.2015

Kavelae

Course Coordinator

Head of the Department

C. Kur Director

CERTIFICATE COURSE ON IBM AI ENTERPRISE WORKFLOW SPECIALIZATION

Introduction of the Course: 02.07.2015



Canul

Course Coordinator

Head of the Department



Requisition Letter

Date:03.08.2015

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 "Short term course on Fuzzy Sets And its Application "-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 "Short term course on Fuzzy Sets And its Application" in our campus premises on 11.08.2015, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

Timing : 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN) and Saturday (FN&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 UGU.co., 1910 Channai - 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. 1956) Selaiyur, Chennai-600 073.



CIRCULAR

05.08.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Short term course on Fuzzy Sets And its Application for the benefit of students. This course is scheduled from 11.08.2015 to 18.08.2015 which includes theory and practical. 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. Rayabhushanam | Professor |
| 2 | Mrs. C. Anwradha | Assistant Professor |

Head of Department

То

Copy to CSE

Copy to IT

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Charath Institute Of Higher Education & Research Declared as Decement to be University UIS 3 Of USC Act, 1956) Chennai - 600 073. INDIA



CERTIFICATE COURSE ON Short term course on Fuzzy Sets And its Application

Date of Introduction of the Course: 03.09.2015

COURSE SYLLABUS

1. Introduction and Fuzzy Sets Theory

Fuzzy set theory permits membership function valued

2. Membership Functions

Fuzzy sets theory is an extension of classical set theory

3. Set Theoretic Operations

The symbol U is employed to denote the union of two sets. Thus, the set A U B-read "A union B" or "the union.

4. Fuzzy Arithmetic

Explains the communication of statistical results correctly.

5. Fuzzy Relations

A fuzzy relation is the Cartesian product of mathematical fuzzy sets.

6. Fuzzy Inference Systems I

Fuzzy Inference System is the key unit of a fuzzy logic system having decision making as its primary work. It uses the "IF ... THEN" rules along with connectors ...

7. Fuzzy Inference Systems II

Fuzzy inference systems, input values are fuzzified by finding the corresponding degree of membership in both the UMFs and LMFs from the rule

8 Wang and Mendel Model

The Wang-Mendel (WM) modelling method is capable of extracting fuzzy rules from data directly without any prior knowledge

9. TSK Model

We propose to generalize TSK fuzzy model applying nonlinear functions in the rule consequences.

10. Fusiliers and Defuzzifiers

Fuzzification is the process of converting a clear input to a fuzzy value. It converts a clear point price of the process state variable

11 ANFIS Architecture

Inference system corresponds to a set of fuzzy IF-THEN rules that have learning capability to approximate nonlinear functions

12. Fuzzy Systems and Machine Learning

Fuzzy logic is used in Natural language processing and various intensive applications.

COURSE OBJECTIVES

To learn and analyse and visualize data in Understand the concept of fuzziness involved in various systems and fuzzy set theory. Specifically, the course has the following objectives:

Students will learn

- 1. Understanding Fuzzy Inference Systems I
- 2. Understanding Fuzzy Inference Systems II.
- 3. Fuzzy Relations
- 4. Create Set Theoretic Operations
- 5. Fuzzy logic system is capable of providing the most effective solution to complex issues
- 6. Fuzzy system helps in dealing engineering uncertainties.

C. Anweller. **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, 1950, Chennai - 600 073. INDIA



CERTIFICATE COURSE Short term course on Fuzzy Sets And its Application

Date of Introduction of the Course: 03.09.2015

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 | 11-08-2015(FN) | Introduction and Fuzzy Sets Theory Fuzzy set theory permits membership function valued |
| 2 | 12-08-2015 (FN) | Membership Functions Fuzzy sets theory is an extension of classical set theory |
| 3 | 12-08-2015 (FN) | Set Theoretic Operation The symbol \cup is employed to denote the union of two sets. Thus, the set A \cup B—read "A union B" or "the union. |
| 4 | 13-08-2015 (FN) | Fuzzy Arithmetic Explains the communication of statistical results correctly. |
| 5 | 13-08-2015 (FN) | Fuzzy Relations A fuzzy relation is the Cartesian product of mathematical fuzzy sets. |
| 6 | 14-08-2015 (FN) | Fuzzy Inference Systems I Fuzzy Inference System is the key unit of a fuzzy logic system having decision making as its primary work. It uses the "IFTHEN" rules along with connectors |
| 7,8 | 15-08-2015 (FN&AN) | Fuzzy Inference Systems II Fuzzy inference systems, input values are fuzzified by finding the corresponding degree of membership in both the UMFs and LMFs from the rule |
| 9 | 17-08-2015 (FN) | Wang and Mendel Model The Wang-Mendel (WM) modelling method is capable of extracting fuzzy rules from data directly without any prior knowledge. |
| 10 | 17-08-2015 (FN) | TSK Model Generalize TSK fuzzy model applying nonlinear functions in the rule consequences. |

| 11 | 17-08-2015 (FN) 18-08-2015 (FN) | Fusiliers and Defuzzifiers Fuzzification is the process of converting a clear input to a fuzzy value. It converts a clear point price of the process state variable ANFIS Architecture Inference system corresponds to a set of fuzzy IF- |
|----|------------------------------------|--|
| | | THEN rules that have learning capability to approximate nonlinear functions |
| 13 | 18-08-2015 (FN) | Fuzzy Systems and Machine Learning Fuzzy logic is used in Natural language processing and various intensive applications. |

C. Anneadha. COURSE COORDINATOR

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HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT

Department Of Omputer Science & Engg., Bharath Institute Of Higher Education & Research (Doclared as Deemed to be University UIS ? Of USC Act, 1960) Chennal - 650, 372, 1801A





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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Date of Introduction of the Course: 03.09.2015 B.Tech Computer Science and Engineering Introduction to Short term course on fuzzy Sets And its Applications NAME OF THE CANDIDATE **REG.NO** S. No CHANDRA KANT CHOUDHARY U15CS032 CHAPPIDI LAKSHMIKANTH REDDY 1 U15CS033 2 CHIDIPOTHU PRATHYUSHA CHINTAGINJALA VENKATA SRI SAI SRAVYA U15CS034 3 U15CS035 4 CHOWDHARY PRASANNA KUMAR CHUNDI VENKATA SESHASAI RAMANAPATANJALI U15CS036 5 U15CS037 6 CILLA SAI KISHORE U15CS038 7 D N S HRUDAY BHARADWAJ U15CS039 8 DADAM CHAITHRA U15CS040 9 DEEPAK KUMAR SINGH U15CS041 10 DILLIGANESH V U15CS042 11 DIVAKAR M U15CS043 12 DIVYA VANI T U15CS044 13 DODDI PUJITHA U15CS045 14 ARYAN SAHU U15CS015 DUPUGUNTLA BHANU SIVA KASINADH 15 U15CS047 16 GANDLUR REDDY GREESHMA U15CS048 17 GANESH BAG U15CS049 18 GANGARAJU RAHUL U15CS050 19 GANGARAPU UKESH U15CS051 20 GANGU BHAGYA U15CS052 21 GLADSON J U15CS053 22 GOLI SUDEEP KRISHNA U15CS054 GOLLAPUDI KALYAN KUMAR 23 U15CS055 GORRE THIRUPATHI REDDY 24 U15CS056 25 GUJJETI MAHESH U15CS057 26 GUNDA VINAY KUMAR U15CS058 27 HANUMAN B U15CS059 28 HARI HARAN M U15CS060 29 HASTHI RUCHITHA U15CS061 30 HEMA NARAYANAN R U15CS062 31 INAPARTHI RAGHAVA U15CS063 32 INJE RAVI TEJA U15CS064 33

| 34 | U15CS238 | VATHADI SWAMYVENKATESH | |
|----|----------|------------------------|----|
| 35 | U15CS239 | AVINASH KUMAR | |
| 36 | U15CS240 | YUGESH S | |
| | ١ | 1 | 10 |

Course coordinator

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HEAD OF DEPARTMENT Department Cf Computer Science & Engg., Pharath Institute Of Higher Education & Research Pharath Institute Of Higher Education & Research Chennai - 600 073, INDIA

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| | rse Numbe | er | | | | | | | | | |
| | rse Title | | Short | Short term course on Fuzzy Sets And its Application | | | | | | | |
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| Туре | of Course | e Regular | | Ele | ective | | | Ad | ld-on | V | |
| | | | | | | | | | | | |
| I. | Inform | ation on the Re | espondent: (T | ïck (√) Appro | priately) | | | | | | |
| 1. | Percent | age of classes a | attended | | | | | | | | |
| | 0-20 | | 20-40 | | 40-60 | 1 | 60- | 30 | $ \rightarrow $ | 80-100 | Γ |
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| 2. | Numbe | r of hours per | week spent o | n the course (| Other tha | n lectu | ure hours) | | | | |
| | 0-2 | | 2-4 | | 4-6 | | 6-8 | Τ | | 8-10 | |
| 2 | | | | | | L | | | | | |
| 3. | | ation for the co | | | | | | | | | |
| | (i) | Have done par | | | | | | | yes | | |
| | (ii) | | | exposure to the prerequisites NO | | | | | | | |
| | (iii) | | | ant additional topics through concurrent study | | | | | | | |
| | (iv) | Have no expo | sure to the bac | kground mate | rial | | | | NO | | |
| 4. | The exp | pectations for t | aking the cou | irse by the stu | dent are: | | | | | | |
| | (a) | | | area of special | | | | | Val | | |
| | (b) | Get exposed to | o a relevant su | - ICS | | | | | | | |
| | (c) | Curiosity | 1.00 | | | | 41 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / | | No | | |
| | (d) | Better Employ | ment Opportu | | | | | | | | |
| | (e) | Complete Cou | irse requireme | equirements | | | | | | | |
| | (f) | To Improve C | GPA | No No | | | | | | | |
| Abou | ut the Ins | tructor: Inform | nation on the | Respondent: | (Tick (√). | Appro | priately) | | 100 | | |
| | | | | A | | B | C | | D | | Е |
| 1. | Pace of | the Teaching/le | cture | N | | | | | | | |
| 2. | Comme | nt of the Subjec | xt | | | | | | | | |
| 3. | Clarity | of expression | | ~ | / | | | | | | |
| 4. | Level o | f preparation | | ~ | ~ | / | | | | | |
| 5. | | f interaction | | V | / | | | | | | |
| 6. | Accessibility outside the class | | | ~ | 1 | | | | | | |
| 7. | Others | please specify | | | | | | | | | |
| A . F | voollast | . / n. | Very Cood | | | | D.C.C.C | | | | |
| A: E | xcellent | ✓ B: | Very Good | C: Ge | bod | | D: Satisfa | ctory | X | E: Poor | N |
| | | | | | | | | | 4 | | N |

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| Acad | emic Yea | r | 2015-20 | 16 | | | | | | | |
|-------|---------------------------------|---|--------------------|---|------------|--------|--------------|--------|---------|---|--|
| Тегт | | | | | | | | | | | |
| Cour | se Numbe | er | | | | | | | | | |
| Cour | se Title | | Short te | Short term course on Fuzzy Sets And its Application | | | | | | | |
| Num | ber of Cre | edits | | | | | | | | | |
| Туре | of Course | e Regular | | Elec | tive | | | Add-on | | | |
| | | | | | | | | | | | |
| l. | Inform | ation on the Re | espondent: (Tio | ck (√) Approp | riately) | | | | | | |
| | | | | | | | | | | | |
| 1. | | age of classes a | | T | 40-60 | | 60-80 | 1 | 80-100 | | |
| | 0-20 | | 20-40 | | 40-00 | | 00-80 | | 00-100 | - | |
| 2. | Numbe | r of hours per | week spent on | the course (O | ther that | lectur | e hours) | | | | |
| | 0-2 | T | 2-4 | | 4-6 | | 6-8 | | 8-10 | | |
| | | | | | | | | | | | |
| 3. | Prepara | ation for the co | ourse by the stu | ident: | | | | | | | |
| | (i) | Have done par | rt of this course | earlier | | | | Ye | 5 | | |
| | (ii) | Has adequate | prior exposure t | r exposure to the prerequisites | | | | | | | |
| | (iii) | Had to pickup relevant additional topics through concurrent study | | | | | | | | | |
| | (iv) | Have no expos | sure to the back | ground materi | al | | | N | | | |
| | | | | | | | | 1 | | | |
| 4. | The exp | | aking the cour | • | | | | | | | |
| | (a) | Enhance by sk | till base in the a | rea of speciali | zations | | | · Ye | yes | | |
| | (b) | Get exposed to | o a relevant sub | evant subject Yes | | | | | | | |
| | (c) | Curiosity | | | | | | N | No | | |
| | (d) | Better Employ | ment Opportun | ity | | No | | | | | |
| | (e) | Complete Cou | irse requirement | quirements No | | | | | | | |
| | (f) | To Improve Co | | | | | | Γ | GC | | |
| Abou | t the Inst | ructor: Inform | nation on the R | lespondent: (| Γick (√) A | ppropr | riately) | | | | |
| | | | | A | | B | C | D | | E | |
| 1. | Pace of | the Teaching/le | cture | | r | | | | | | |
| 2. | Comment of the Subject | | | | | | | | | | |
| 3. | Clarity of expression | | | | | | | | | | |
| 4. | Level of | preparation | | | | | | | | | |
| 5. | Level of | finteraction | | | | | | | | | |
| 6. | Accessibility outside the class | | | ~ | | | | | | | |
| 7. | Others (please specify | | | | | | | | | | |
| A . F | alle t | -/ 1. | | | | | D. G. 41 6 | | | | |
| A: E) | cellent | У В: | Very Good | C: Go | DC | | D: Satisfact | ory | 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 US & GLUC COLL (201) Chennal - 600 C75, U, 201)

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| Acad | lemic Year | | 2015-20 | 016 | | | | | | | |
|------|--|---|---------------|---|-------------|----------|-------------|--------|--------|----|--|
| Term | 1 | | | | | | | | | | |
| Cour | se Number | ſ | | | | | | | | | |
| Cour | se Title | | Short to | Short term course on Fuzzy Sets And its Application | | | | | | | |
| Num | ber of Cree | dits | - | | | | | | | 1 | |
| Туре | of Course | Regular | | E | lective | | | Add-on | | | |
| | | | | | | | | | | | |
| I. | Information on the Respondent: (Tick ($$) Appropriately) | | | | | | | | | | |
| 1. | Percenta | age of classes at | tended | | | | | | / | | |
| | 0-20 | | 20-40 | | 40-60 | 1 | 60-80 | | 80-100 | | |
| | 1 | | | | 1 | | | | | | |
| 2. | Number | of hours per w | eek spent on | the course | (Other the | an lectu | re hours) | | | / | |
| | 0-2 | | 2-4 | | 4-6 | | 6-8 | | 8-10 | - | |
| 3. | Prenara | tion for the cou | rse by the st | udent: | | | | | | | |
| 5. | | Have done part | | | | | | NO | | | |
| | (i) (ii) | - | | | misites | | | | | | |
| | | | • | exposure to the prerequisites NO | | | | | | | |
| | | Had to pickup relevant additional topics through concurrent study | | | | | | | | | |
| | (iv) | Have no exposure to the background material | | | | | | | | | |
| 4. | The exp | ectations for ta | king the cou | ng the course by the student are: | | | | | | | |
| | (a) | Enhance by ski | l base in the | se in the area of specializations YCS | | | | | | | |
| | (b) | Get exposed to | a relevant su | bject | | | | 4 | 0 | | |
| | (c) | Curiosity | | Opportunity NO | | | | | | | |
| | (d) | Better Employn | nent Opportu | | | | | | | | |
| | (e) | Complete Cour | se requireme | | | | | | | | |
| | (f) | To Improve CG | PA | | | | | | SO | | |
| Abou | ut the Inst | ructor: Inform | ation on the | Respondent | : (Tick (√) | Appro | priately) | | | | |
| | | | | A | | B | C | D | | Е | |
| 1. | Pace of | the Teaching/lect | ture | ~ | | | | | | | |
| 2. | | nt of the Subject | | N | / | | | | | | |
| 3. | | | | | / | | - | - | | | |
| 4. | | | | | | / | | | | | |
| 5. | Level of interaction | | | | 1 | / | | | | | |
| 6. | | | | | | 1 | | | | | |
| 7. | | please specify | | V | | | | | | | |
| A: F | xcellent | B:V | ery Good | C: (| Good | | D: Satisfac | tory | E: Poo | or | |
| | Accient | \vee | | | | | | | | | |

HEAD OF THE DEPARTMENT



<u>CERTIFICATE COURSE ON Short term course on Fuzzy Sets And its</u> <u>Application</u>

Introduction of the Course: 03.09.2015



C. Anwredha 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 UIS 3 of UGC Act, 1950) Channai - 600 070, NDIA





Requisition letter

Date: 1.08.2015

From

Dr.Kaliyamurthy M.E., PH.D,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

To

Pro.VC Academics,

Bharath Institute of Higher Education and Research,

Chennai.

Respected Sir

Sub: Request of permission to conduct a value – added course on "Google Android Application Development Training"-Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Google Android Application Development Training" in our campus premises on 08.08.2015, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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





CIRCULAR

4.8.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Google Android Application Development Training** for the benefit of students. This course is scheduled from 08.08.2015 to 19.08.2015 which includes theory and practical. 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 | Name of the Faculty | Designation |
|--|---------------------|---------------------|
| course. S.NO | | <u> </u> |
| 1- | Dr. C. Nalini | Professor |
| 2. | Nes. Cr. Karitha | Assistant prefersor |

Head of Department

HEAD OF DEFINITION OF AT Department of Computer Science and the Bharath Institute of Higher Education of the trin (Declared as Declared to be University IC 53 of 10792). IF Chennai-600 073. INDIA

То

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CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING

Date of Introduction of the Course: 12.09.2015

COURSE SYLLABUS

1. Creating Project Sunshine

To learn how to create and run a simple Android app, create simple layouts for Android, learn about the Android Studio IDE

2. Loading Data from the Internet

To connect to the Internet and communicate with web APIs, learn about threading and how to make requests without slowing down your app, learn how to add menus to your app

3. Recycler View

To learn about the components that convert a list of data into visual UI elements

4. Intents

To learn the difference between Explicit and Implicit Intents, learn how to navigate inside your apps using intents. To learn how to create Intents that apps outside your control can respond.

5. The Application Lifecycle

To understand the phases of the Android application lifecycle, learn how to persist data between orientation and other changes

6. Preferences

To allow users to customize some aspects of your app Consider when to omit or add a preference

7. Content Providers

To learn how Content Providers provide an interface to share data, consume data from an already existing Content Provider.

8. Android Architecture Components

To learn how to use Room, LiveData, ViewModel and Lifecycle components, understand how architecture components can help you build robust and efficient apps

9. Background Tasks

To run jobs in the background of an app and create notifications and schedule long-running background processes

10. Completing the UI

To build a well-organized, accessible UI for your app, try different layouts, views, viewgroups, and methods of databinding, design your UI for users who speak different languages

11. Polishing the UI

To add visual polish to your apps with different layouts, fonts, and colors, use design principles to create apps that look great across multiple form factors

COURSE OBJECTIVES

This course blends theory and practice to help you build great apps the right way. In this course, you'll work with instructors step-by-step to build a cloud-connected Android app, and learn best practices of mobile development, and Android development in particular.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding data loading.
- 2. Understanding Recycler view.
- 3. Analyse and visualize data in application life cycle.
- 4. Create reproducible data analysis reports.
- 5. Run jobs in the background of an app.
- 6. Create apps that look great across multiple form factors.

SE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department of Computer Scie Bharath Institute of Higher Education ((Declared as Deemed to be the versity this 3 of the Chempai-600 073, INDIA



CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION DEVELOPMENT TRAINING

Date of Introduction of the Course: 12.09.2015

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

<u>Time Table & Lesson plan</u>

| CLASS | DATE | TOPIC |
|--------|-----------------|---|
| | DATE | 1. Creating Project Sunshine |
| 1 | 08-08-2015(FN) | To learn how to create and run a simple Android app, |
| | | create simple layouts for Android, learn about the |
| | | Android Studio IDE |
| 2 | 10-08-2015 (FN) | 2. Loading Data from the Internet |
| 2 | | To connect to the Internet and communicate with web |
| | | APIs, learn about threading and how to make requests |
| | 4 | without slowing down your app, learn how to add menus |
| | | to your app |
| 3 | 10-08-2015 (FN) | 3. Recycler View To learn about the components that convert a list of data |
| | | into visual UI elements |
| | | |
| 4, 5 | 11-08-2015 (FN | 4. Intents To learn the difference between Explicit and Implicit |
| | & AN) | Intents, learn how to navigate inside your apps using |
| | | intents. |
| 6 | 12-08-2015 (FN) | 5. Intents |
| U U | | To learn how to create Intents that apps outside your |
| | | control can respond. |
| 7 | 13-08-2015 (FN) | 6. The Application Lifecycle |
| | | To understand the phases of the Android application lifecycle, learn how to persist data between orientation |
| | | and other changes |
| 8 | 14-08-2015 (FN) | 7. Preferences |
| | | To allow users to customize some aspects of your app |
| | | Consider when to omit or add a preference |
| 9 | 15-08-2015 (FN) | 8. Content Providers |
| | | To learn how Content Providers provide an interface to |
| | | share data, consume data from an already existing Content Provider. |
| 10 | 17-08-2015 (AN) | 9. Android Architecture Components |
| 1 | | To learn how to use Room, LiveData, ViewModel and |
| | | Lifecycle components, understand how architecture |
| | | components can help you build robust and efficient anns |
| 11, 12 | 18-08-2015 (FN) | 10. Background Tasks |
| L | L | To run jobs in the background of an app |

| 13 | 18-08-2015 (AN) | Create notifications and schedule long-running background processes 11. Completing the UI To build a well-organized, accessible UI for your app, try different layouts, views, viewgroups, and methods of databinding, design your UI for users who speak different |
|----|-----------------|---|
| 14 | 19-08-2015 (FN) | languages 12. Polishing the UI To add visual polish to your apps with different layouts, fonts, and colors, use design principles to create apps that look great across multiple form factors |

(Kati COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department of Oppington Box Bharaih Listic To of the State Charles (Bernich (Benared Departments (Bernich State)) Chenne 19603 073, ISBN 3

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Contraction 3 of UGC Act, 1950 (Vide Natification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Gort. of India, dated 4" July 2002)

| | DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING | | | | | | |
|-------|--|--|--|--|--|--|--|
| | Date of Introduction of the Course: 12.09.2015 | | | | | | |
| | B.Tech Computer Science and Engineering | | | | | | |
| | Goo | gle Android Application Development Training | | | | | |
| S. No | S. No REG.NO NAME OF THE CANDIDATE | | | | | | |
| 1 | U15CS001 | ABHIJEET KUMAR | | | | | |
| 2 | U15CS002 | ABHIJIT KUMAR GUPTA | | | | | |
| 3 | U15CS003 | ABHISHEK KUMAR SINGH | | | | | |
| 4 | U15CS004 | ALLU SAI SIVA PRIYANKA NAIDU | | | | | |
| 5 | U15CS005 | AMBIKE KUMAR SINGH | | | | | |
| 6 | U15CS006 | ANBUMANI S | | | | | |
| 7 | U15CS007 | ANJAR ALI | | | | | |
| 8 | U15CS008 | ANKAM MANJUNATH | | | | | |
| 9 | U15CS009 | ANNADI DHANUSH | | | | | |
| 10 | U15CS010 | ANNAVARAPU DIVYA | | | | | |
| 11 | U15CS011 | ANUMOLU YESWANTH | | | | | |
| 12 | U15CS012 | ARAVAPALLI SIVA VINAYA | | | | | |
| 13 | U15CS013 | ARAVINDHAN K R | | | | | |
| 14 | U15CS014 | ARVIND KUMAR YADAV | | | | | |
| 15 | U15CS015 | ARYAN SAHU | | | | | |
| 16 | U15CS016 | ASHISH AGARWAL | | | | | |
| 17 | U15CS017 | ASHISH RANJAN | | | | | |
| 18 | U15CS018 | ATTANTI RAVIKANTH | | | | | |
| 19 | U15CS019 | BANAVATH SUNIL NAIK | | | | | |
| 20 | U15CS020 | BANDARU RAMESH | | | | | |
| 21 | U15CS021 | BATTA SIVA PRASAD | | | | | |
| 22 | U15CS022 | BHARATH K | | | | | |
| 23 | U15CS023 | BHARATHI V | | | | | |
| 24 | U15CS024 | BIKKI KUMAR SHA | | | | | |
| 25 | U15CS025 | BINGEWAR SAISHARAN | | | | | |
| 26 | U15CS026 | BIRADAVOLU SUCHARITHA | | | | | |
| 27 | U15CS027 | BODA AKHIL WESLEY | | | | | |
| 28 | U15CS028 | BONALA SRIDHAR RAO | | | | | |
| 29 | U15CS029 | BRYAN STEVE PUSHPARAJ I | | | | | |
| 30 | U15CS030 | CHAKKA KSHITHIJA | | | | | |
| 31 | U15CS031 | CHAMARTHI LAKSHMI NARAYANA AVINASH | | | | | |
| 32 | U15CS032 | CHANDRA KANT CHOUDHARY | | | | | |
| 33 | U15CS033 | CHAPPIDI LAKSHMIKANTH REDDY | | | | | |

| 34 | U15CS034 | CHIDIPOTHU PRATHYUSHA |
|----|----------|---|
| 35 | U15CS035 | CHINTAGINJALA VENKATA SRI SAI SRAVYA |
| 36 | U15CS036 | CHOWDHARY PRASANNA KUMAR |
| 37 | U15CS037 | CHUNDI VENKATA SESHASAI RAMANAPATANJALI |
| 38 | U15CS038 | CILLA SAI KISHORE |
| 39 | U15CS039 | D N S HRUDAY BHARADWAJ |
| 40 | U15CS040 | DADAM CHAITHRA |
| 41 | U15CS041 | DEEPAK KUMAR SINGH |
| 42 | U15CS042 | DILLIGANESH V |
| 43 | U15CS043 | DIVAKAR M |
| 44 | U15CS044 | DIVYA VANI T |
| 45 | U15CS045 | DODDI PUJITHA |
| 46 | U15CS046 | DOOLIGANTI AKHIL REDDY |
| 47 | U15CS047 | DUPUGUNTLA BHANU SIVA KASINADH |
| 48 | U15CS048 | GANDLUR REDDY GREESHMA |
| 49 | U15CS049 | GANESH BAG |
| 50 | U15CS050 | GANGARAJU RAHUL |
| 51 | U15CS051 | GANGARAPU UKESH |
| 52 | U15CS052 | GANGU BHAGYA |
| 53 | U15CS053 | GLADSON J |
| 54 | U15CS054 | GOLI SUDEEP KRISHNA |
| 55 | U15CS055 | GOLLAPUDI KALYAN KUMAR |
| 56 | U15CS056 | GORRE THIRUPATHI REDDY |
| 57 | U15CS057 | GUJJETI MAHESH |

CODRSE COORDINATOR

Head of the Department

HEAD OF DEPARTMENT Demonstration Computer Scient Cherefords and the First for the Education Cherefords and the Science of the

| Academic Year | 2015 - 2016 | | | | | | |
|--|-------------------|--------------|--------------------|--------------|--------|--------|----------|
| Term | | | | | | | |
| Course Number | | | | | | | |
| Course Title | Google Andr | oid Applica | tion Develo | opment Train | ing | | |
| Number of Credits | | | | | | | |
| Type of Course Regular | | Elective | ; | | Add-on | V | / |
| | 1 | | | | | | |
| I. Information on the Respo | ondent: (Tick (\) | Appropriat | telv) | | | | |
| | , | | | | | | |
| 1. Percentage of classes atten | nded | | | | / | | |
| 0-20 2 | 0-40 | 40- | 60 | 60-80 | - | 80-100 | |
| | | | | | | | |
| 2. Number of hours per wee | - | | | | | | |
| 0-2 2 | .4 | 4-6 | | 6-8 | | 8-10 | / |
| 3. Preparation for the course | e by the student | • | | | | | |
| (i) Have done part of | - | | | | . 1 | | |
| (ii) Has adequate prio | | | 6 | | NO | | |
| (iii) Had to pickup rele | - | | | etudu | | | |
| (iv) Have no exposure | | | ii concurrent | study | ter | | |
| (iv) Have no exposure | to the backgroun | nd material | | ****** | pc) | | |
| 4. The expectations for takin | ng the course by | the student | are: | | | | |
| (a) Enhance by skill t | • | | | | - ps | | |
| (b) Get exposed to a r | | | | | - per | | |
| (c) Curiosity | · · · · · · | | | | pe) | | |
| (d) Better Employme | nt Opportunity | | 1990 - 1890 - 1990 | | Yes | | |
| (e) Complete Course | | | | | - yez | | |
| (f) To Improve CGPA | | | | | for | | |
| About the Instructor: Informati | | ondent: (Tic | k (v) Appro | oriately) | Ter |) | |
| About the instructor information | | A | B | C | D | | E |
| 1. Pace of the Teaching/lectur | re | -/ | | | | | |
| 2. Comment of the Subject | | | | | | | |
| 3. Clarity of expression | | | | | | | |
| 4. Level of preparation | | | | | | | |
| 5. Level of interaction | | | | | | | |
| Accessibility outside the cl | 1955 | -4- | | | | | |
| 7. Others (please specify | 1455 | | | | | | |
| . Others (please specify | | / | | | | | |
| A: Excellent B: Ver | ry Good | C: Good | | D: Satisfac | tory | E: Po | or |
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| er Title ber of Cr of Cours Inform Percent 0-20 Numbe 0-2 Prepara (i) (ii) (iii) | edits e Regular ation on the Respon tage of classes atten 20 r of hours per week 2- ation for the course Have done part of t Has adequate prior Had to pickup relev | ded 0-40 2 spent on th 4 by the stud his course ea | Electi (\frac{1}{2} Appropri- 4 the course (Oth 4 4 the course (Oth 4 1 1 1 1 1 1 1 1 1 1 1 1 1 | ve iately) 0-60 her than lectu | 60-80 | | | / |
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| Inform Percent 0-20 Numbe 0-2 Prepart (i) (ii) (iii) | e Regular ation on the Respon tage of classes atten classe | ded -40 s spent on th 4 by the stude his course ea | a (√) Appropri 4 te course (Ott 4 ent: | 0-60 | re hours) | Add-on | | |
| Inform Percen 0-20 Numbe 0-2 Prepara (i) (ii) (iii) | ation on the Respon- tage of classes atten 20 r of hours per week 2- ation for the course Have done part of t Has adequate prior Had to pickup relev | ded -40 s spent on th 4 by the stude his course ea | a (√) Appropri 4 te course (Ott 4 ent: | 0-60 | re hours) | Add-on | | |
| Percent 0-20 Numbe 0-2 Prepara (i) (ii) (iii) | tage of classes atten 20 r of hours per week 2- ation for the course Have done part of the Has adequate prior Had to pickup relevance | ded -40 s spent on th 4 by the stude his course ea | 4 ne course (Oth 4 ent: | 0-60 her than lectu | re hours) | | | |
| Percent 0-20 Numbe 0-2 Prepara (i) (ii) (iii) | tage of classes atten 20 r of hours per week 2- ation for the course Have done part of the Has adequate prior Had to pickup relevance | ded -40 s spent on th 4 by the stude his course ea | 4 ne course (Oth 4 ent: | 0-60 her than lectu | re hours) | | | |
| 0-20 Numbe 0-2 (i) (ii) (iii) | r of hours per week 2- ation for the course Have done part of t Has adequate prior Had to pickup relev | b-40 a spent on th 4 by the stud his course ea | e course (Oth | ier than lectu | re hours) | | | |
| Numbe 0-2 Prepara (i) (ii) (iii) | r of hours per week 2- ation for the course Have done part of t Has adequate prior Had to pickup relev | spent on th 4 by the stude | e course (Oth | ier than lectu | re hours) | | | |
| 0-2 Prepara (i) (ii) (iii) | ation for the course Have done part of t Has adequate prior Had to pickup relev | 4 by the stud | ent: | | | | 8-10 | |
| 0-2 Prepara (i) (ii) (iii) | ation for the course Have done part of t Has adequate prior Had to pickup relev | 4 by the stud | ent: | | | | 8-10 | |
| Prepara (i) (ii) (iii) | ation for the course Have done part of t Has adequate prior Had to pickup relev | by the stud | ent: | -6 | 6-8 | | 8-10 | / |
| (i) (ii) (iii) | Have done part of t Has adequate prior Had to pickup relev | his course ea | | | | | | |
| (i) (ii) (iii) | Have done part of t Has adequate prior Had to pickup relev | his course ea | | | | | | |
| (iii) | Had to pickup relev | exposure to | arlier | | | N | 0 | |
| | Had to pickup relev | | the prerequisi | tes | | N | | |
| (iv) | | ant addition | | | t study | | | |
| | Have no exposure t | o the backgr | ound material | | | -NC Ve | | |
| | | | | | | P ^e , | / | |
| The exp | ectations for taking | | | | | | | |
| (a) | Enhance by skill ba | | - | tions | | Ye | > | |
| (b) | | levant subjec | ct | | | yes | | |
| (c) | | | | | | yes | | |
| (d) | | | у | | | ues | | |
| (e) | | equirements | | | | J. | D | |
| (f) | | | | | | Y | n | |
| the Inst | tructor: Informatio | n on the Res | | | | | | |
| D | 1 77 1 4 | | A | B | C | D | | E |
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| | - | | | | | | | |
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| | | 26 | $+ \leq$ | | | | | |
| | | | | - | | | | |
| 5 | Prease speerry | | | | | | | |
| cellent | B: Very | Good | C: Good | | D: Satisfact | orv | E: Poor | |
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| Course N | Number | | - | | | | | | | |
| Course T | itle | | Goog | le Android A | pplication | Deve | lopment Train | ning | | |
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| I. In | formati | on on the Res | pondent: (1 | fick (√) Appr | ropriately) | | | | | |
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| 2. Nu | umber o | f hours per w | eek spent o | n the course | (Other tha | n lectu | re hours) | | | |
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| (i) | | ave done part | | | | | / | 20 | | |
| (ii) | | as adequate pr | - | - | | | • | NO | | |
| (iii | i) H | ad to pickup r | elevant addi | tional topics t | hrough con | current | study | yes | | |
| (iv | /) H | ave no exposu | re to the bac | kground mate | erial | | L | por. | | |
| 4 | | | | | | | | | | |
| | The expectations for taking the course by the student are: (a) Enhance by skill base in the area of specializations | | | | | | | | | |
| (a) | | • | | | alizations | | , L | ys | | |
| (b) | | et exposed to | a relevant su | ibject | | | L | er | | |
| (c) | | uriosity | | | | | ~ | | | |
| (d) | | etter Employn | | | | | U | V | | |
| (e) | | complete Cours | - | ents | | | r | D | | |
| (f) | | o Improve CG | | | | | L | m | | |
| About th | ie Instru | ictor: Informa | ation on the | Respondent | : (Tick (√) A | | | U | | |
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| | | ity outside the | class | | | | | | | |
| 7. Ot | thers (pl | ease specify | | | | | | | | |
| A: Excel | llent | B: V | ery Good | C: G | Good | | D: Satisfacto | ry | E: Poor | N |
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Mr. GANESH BAG

Application Development Training"Conducted by School of Computing, For actively participating in the value added course "Google Android BIHER from 08-08-2015 to 19.08.2015

Course Coordinator

Head of the Department

Director

<u>CERTIFICATE COURSE ON GOOGLE ANDROID APPLICATION</u> <u>DEVELOPMENT TRAINING</u>

Introduction of the Course: 12.09.2015



Course Coordinator

Head of the Department



Requisition letter

Date: 3.08.2015

From

Dr.Kaliyamurthy M.E., PH.D,

Professor & Head,

Department of CSE,

Bharath Institute of Higher Education and Research,

Chennai.

То

Pro.VC Academics,

Bharath Institute of Higher Education and Research,

Chennai.

Respected Sir

Sub: Request of permission to conduct a value – added course on "Introduction to Microsoft-Cloud Application"-Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Introduction to Microsoft-Cloud Application" in our campus premises on 10.08.2015, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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.

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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 - 500 073, INDIA



DEAN (Engineering) Bharath Institute of Science & Technology BHARATH INSTITUTE OF HIGHER EDUCATION & Toto, and (Declared as Deemed to be University UKS 3 of the Act, 1999) Selaiyur, Cherinai-odu 073.



CIRCULAR

7.08.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Introduction to Microsoft-Cloud Application** for the benefit of students. This course is scheduled from 10.08.2015 to 21.08.2015 which includes theory and practical. 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. Rajabhushanan | Professor. |
| 2. | Hy. R-Selichars | Sul-Asst pred |

Head of Department

HEAD OF DEPARTMENT Department of Computer Sciu Bhorath Institute of Higher Educate (Declared to Ducate Bernard 1999) Chemp. 16000 0000, Junear

То

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CERTIFICATE COURSE ON INTRODUCTION TO MICROSOFT-CLOUD APPLICATION

Date of Introduction of the Course: 12.09.2015

COURSE SYLLABUS

1. Introduction to Microsoft Cloud Services

Describe and understand the types of Cloud Infrastructure and Types of Cloud Services. Compare Private, Public and Hybrid cloud deployments and scenarios. Understand how to evaluate products based on their type of service, IaaS, PaaS and SaaS.

2. Understanding Cloud Systems

Explain how to look at cloud systems and analyze how they can be used to benefit an organization. Understand common analogies used to describe Cloud systems. Describe the Cloud housing model.

3. Utilizing Cloud Systems

Compare On-Premieis and Cloud models. Compare Cloud adoption by industry. Describe the advantage Clouds systems have with connecting to and configuring mobile devices.

4. Cloud Infrastructure Technologies

Describe the key features, of LDAP and why they are important. Understand what X.500 systems are and how they relate to Active Directory and Cloud systems. Describe X.509 certificate services and now PKI is used with Directories and Cloud services for Authentication and Encryption.

5. Cloud Infrastructure Technologies

Understand why SSO is important and to be able to distinguish between Same and Single Sign On.

Describe the common Microsoft implementations of Same and Single Sign On.

6. Control of Data and Continuity of Services

Describe the key features, of a Service Level Agreement for typical Cloud systems.

Understand the meaning of 99.9% uptime and how it relates to an SLA.

Describe how Change Management is often very different in the Cloud then On-Premises.

7. Security & Privacy Considerations

Describe security concerns and mitigations in cloud systems.

Understand how regulatory compliance and auditing is handled in a cloud environment.

Answer critical questions about long term systems management and viability.

8. Comprehension of Cloud Applications

Show a firm understanding and comprehension of the principle topics of this course.

9. PKI Fundamentals

Describe the key features, and functions of PKI.

Understand the importance of underlying cloud technologies.

Describe how PKI Authentication, Encryption and Digital Signing works.

10. Understanding Cloud Authentication and Authorization

Describe the key features used in traditional systems and how new claims biased systems have an advantage in the cloud.

11. Azure Availability Evaluation

Evaluate Microsoft Azure Cloud Services

12. Office 365 Simulation Walkthrough

Describe the key features for evaluating Microsoft Azure availability. Perform walkthrough of Office 365 management environments.

COURSE OBJECTIVES

This course is intended for both novice and experienced IT professionals and managers of IT professionals who have basic Windows navigation skills and want to get started using cloud resources and products.

Specifically, the course has the following objectives:

Students will learn

- 1. Describe and understand the types of Cloud Infrastructure and Types of Cloud Services.
- 2. Understand how to utilize Cloud systems.
- 3. Describe Cloud infrastructure technologies such as LDAP, X.500, E.509 and SSO in Microsoft environments.
- 4. Understand SLA agreements and change management in the cloud.
- 5. Describe security and Privacy considerations, Privileged User Access, Regulatory Compliance,
- 6. Investigative Support, Data Segregation, Recovery, Long-Term Viability and Transfer of Data.
- 7. Understand the fundamentals of PKI and Digital Signing.
- 8. Describe Cloud authentication and Authorization techniques.
- 9. Understand the roles of Microsoft Azure, Office 365, One Drive and InTune.

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COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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CERTIFICATE COURSE ON INTRODUCTION TO MICROSOFT-CLOUD APPLICATION

Date of Introduction of the Course: 12.09.2015

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 | 10-08-2015(FN) | 1. Introduction to Microsoft Cloud Services Describe and understand the types of Cloud Infrastructure and Types of Cloud Services. Compare Private, Public and Hybrid cloud deployments and scenarios. Understand how to evaluate products based on their type of service, IaaS, PaaS and SaaS. |
| 2 | 11-08-2015 (FN) | 2. Understanding Cloud Systems Explain how to look at cloud systems and analyze how they can be used to benefit an organization. Understand common analogies used to describe Cloud systems. Describe the Cloud housing model. |
| 3 | 12-08-2015 (FN) | 3. Utilizing Cloud Systems Compare On-Premieis and Cloud models. Compare Cloud adoption by industry. Describe the advantage Clouds systems have with connecting to and configuring mobile devices. |
| 4, 5 | 13-08-2015 (FN & AN) | 4. Cloud Infrastructure Technologies Describe the key features, of LDAP and why they are important. Understand what X.500 systems are and how they relate to Active Directory and Cloud systems. Describe X.509 certificate services and now PKI is used with Directories and Cloud services for Authentication and Encryption. |
| 6 | 14-08-2015 (FN) | 5. Cloud Infrastructure Technologies Understand why SSO is important and to be able to distinguish between Same and Single Sign On. Describe the common Microsoft implementations of Same and Single Sign On. |
| 7 | 15-08-2015 (FN) | 6. Control of Data and Continuity of Services Describe the key features, of a Service Level Agreement for typical Cloud systems. Understand the meaning of 99.9% uptime and how it relates to an SLA. Describe how Change Management is often very different in the Cloud then On-Premises. |
| 8 | 17-08-2015 (FN) | 7. Security & Privacy Considerations Describe security concerns and mitigations in cloud |

| 9 | 18-08-2015 (FN) | systems. Understand how regulatory compliance and auditing is handled in a cloud environment. Answer critical questions about long term systems management and viability. 8. Comprehension of Cloud Applications Show a firm understanding and comprehension of the principle topics of this course. |
|----|-----------------|--|
| 10 | 19-08-2015 (FN) | 9. PKI Fundamentals Describe the key features, and functions of PKI. Understand the importance of underlying cloud technologies. Describe how PKI Authentication, Encryption and Digital Signing works. |
| 11 | 20-08-2015 (FN) | 10. Understanding Cloud Authentication and Authorization Describe the key features used in traditional systems and how new claims biased systems have an advantage in the cloud. |
| 12 | 20-08-2015 (AN) | 11. Azure Availability Evaluation Evaluate Microsoft Azure Cloud Services |
| 13 | 21-08-2015 (FN) | 12. Office 365 Simulation Walkthrough Describe the key features for evaluating Microsoft Azure availability. Perform walkthrough of Office 365 management environments. |

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COURSE COORDINATOR

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| Department of Annual Sectors Cluster the Bharath Institute of an annual Sector Sector (Declared as Diring Cluster Sector Cluster Sector |
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| | DEPART | MENT OF COMPUTER SCIENCE AND ENGINEERING |
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| | Da | ate of Introduction of the Course: 12.09.2015 |
| | | B.Tech Computer Science and Engineering |
| | I | ntroduction to Microsoft-Cloud Application |
| S. No | REG.NO | NAME OF THE CANDIDATE |
| 1 | U15CS204 | SUBHAM RAY |
| 2 | U15CS205 | SUDALAGUNTA GOPI KRISHNA |
| 3 | U15CS206 | SUJEETH KUMAR K |
| 4 | U15CS207 | SWARNA LAKSHMI PRIYANKA |
| 5 | U15CS208 | TAGORE S |
| 6 | U15CS209 | TAKKELLA AJITH CHOWDARY |
| 7 | U15CS210 | TANGELLAPALLY KRANTHIKUMAR CHARY |
| 8 | U15CS211 | THARUN PRANAV K S |
| 9 | U15CS212 | UTTAM KUMAR |
| 10 | U15CS213 | VADLAMUDI HARISH KUMAR |
| 11 | U15CS214 | VEERELLA RUPAS CHOWDARY |
| 12 | U15CS215 | VEESA SUDEEP |
| 13 | U15CS216 | YENISETTY ARUN SAHADEV |
| 14 | U15CS217 | VERISETTY SUBBARAO |
| 15 | U15CS218 | VETCHA VENKATA KRISHNA TEJA |
| 16 | U15CS219 | VIGNESH B |
| 17 | U15CS220 | VIGNESH KUMAR R J |
| 18 | U15CS221 | VIGNESWARAN M |
| 19 | U15CS222 | VIJAYARAJ V |
| 20 | U15CS223 | VIKAS BHARTI |
| 21 | U15CS224 | VIKASH YADAV |
| 22 | U15CS225 | VINOTHKUMAR J |
| 23 | U15CS226 | VUNDAVELLI VEERAVENKATA SATYANARAYANA |
| 24 | U15CS227 | VUPPALA SUJITH |
| 25 | U15CS228 | YADIKI VEMANA BUJJI |
| 26 | U15CS230 | THORAM RAVI CHANDU |
| 27 | U15CS231 | BHARATHI RAJA R |
| 28 | U15CS232 | NIKITA SHARMA |
| 29 | U15CS233 | KARAN PRINCY P |
| 30 | U15CS234 | DUVVURU SUNEESH KUMAR |
| 31 | U15CS235 | ASHWIN VISHAL A |
| 32 | U15CS236 | MALKANNAGARI HARSHAVARDHAN REDDY |
| 33 | U15CS237 | BUDDI VAMSI |

| 34 | U15CS238 | VATHADI SWAMYVENKATESH | |
|----|----------|------------------------|---|
| 35 | U15CS239 | AVINASH KUMAR | |
| 36 | U15CS240 | YUGESH S | |
| | | | A |

COURSE COORDINATOR.

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Head of the Department

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| | Informa | ation on the Responder | nt: (Tick (√) A | Appropriate | ly) | | | | |
| l. | Percent | age of classes attended | | | | | | | |
| | 0-20 | 20-40 | | 40-6 | 0 | 60-80 | | 80-100 | |
| | | | | | | | | <u> </u> | |
| 2. | Number | r of hours per week spe | ent on the co | urse (Other | than lectur | e hours) | | | |
| | 0-2 | 2-4 | | 4-6 | | 6-8 | | 8-10 | |
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| 3. | | ation for the course by | | | | | | | |
| | (i) | Have done part of this | | | | VO | | | |
| | (ii) | Has adequate prior exp | - | - | | NO | | | |
| | (iii) | Had to pickup relevant | | - | concurrent | study Yes | | | |
| | (i v) | Have no exposure to the | ne background | d material | | NO | | | |
| 4. | The ev | pectations for taking th | a course by | the student | aro• | | | | |
| т. | (a) | Enhance by skill base | - | | | . 1.10 | | | |
| | (a) (b) | Get exposed to a relev | | specializatio | | pes_ | | | |
| | (0) (c) | Curiosity | ant subject | | | Ves | | | |
| | (c) (d) | Better Employment O | portunity | | | | | | |
| | (u) (e) | Complete Course requ | | | | Yes | | | |
| | (f) | To Improve CGPA | | | | yes | | | |
| Abo | | structor: Information of | n the Respo | ndent: (Tick | (1) Annror | riately) | | | |
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| 2. 3. | | of expression | | | -/ | | | | |
| <i>3.</i> 4. | - | of preparation | | | ~) | | | | |
| 4. 5. | | of interaction | | -/ | | | | | |
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| 0. 7. | | (please specify | | | - 1 | | | | |
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| | Numba | r of hours per w | week spent o | n the course | (Other the | n lectur | e hours) | | | |
| • | 0-2 | | 2-4 | In the course | 4-6 | | 6-8 | | 8-10 | Т |
| | 0-2 | | 2-4 | ļ | 4-0 | | 0-8 | | | |
| | Prepara | ation for the cou | irse by the s | student: | | | | ø | | |
| | (i) | Have done part | of this cour | se earlier | | | n | | | |
| | (ii) | Has adequate p | rior exposur | e to the prerec | quisites | | 4 | | | |
| | (iii) | Had to pickup 1 | relevant addi | tional topics t | through con | current s | | | | |
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| Abol | The exp (a) (b) (c) (d) (e) (f) (f) Pace of Comme Clarity Level o Level o Accessi | Dectations for ta Enhance by ski Get exposed to Curiosity Better Employ Complete Cour To Improve CC tructor: Inform The Teaching/lec ent of the Subject of expression f preparation f interaction | king the co ill base in the a relevant su ment Opport rse requirement JPA ation on the sture | urse by the st e area of speci ubject unity ents e Respondent | alizations | Approp | riately) | <u>у</u> , , , , , , , , , , , , , | | E |
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HEAD OF THE DEPARTMENT

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| Acad | emic Year | ſ | 2015 - 20 | 16 | | | | | |
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| Cours | se Numbe | er | | | | | | | |
| Cour | se Title | | Introduct | tion to Micro | soft-Cloud A | nlication | | | |
| Num | ber of Cre | dits | | | | opiloation | | | |
| Туре | of Course | Regular | | Elect | ive | | Add-on | | |
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| I. | Inform | ation on the Respon | ndent: (Tic | k (V) Annronr | istely) | | | | |
| | | - | | | | | | | |
| 1. | Percent | age of classes atten | ded | | | | | | |
| | 0-20 | 20 |)-40 | 4 | 10-60 | 60-80 | \checkmark | 80-100 | |
| 2. | Number | | | | | | | | |
| 2. | Number | r of hours per week | | he course (Ot | her than lectu | re hours) | / | | |
| | 0-2 | 2- | 4 | 4 | -6 | 6-8 | / | 8-10 | |
| 3. | Prepara | ation for the course | by the stu | donte | | ······ | | | |
| | (i) | Have done part of | | | | | Ø | | |
| | (ii) | Has adequate prior | | | • | n | Q | | |
| | (iii) | Had to nickun relev | exposure to | o the prerequis | ites | U U | N | | |
| | (iv) | Had to pickup relev | | | | t study | un | | |
| | (11) | Have no exposure | to the backg | ground materia | 1 | r | 6 | | |
| 4. | The exp | pectations for takin | g the cours | e by the stude | ant are. | | | | |
| | (a) | Enhance by skill b | ase in the a | rea of specializ | rations | | | | |
| | (b) | Get exposed to a re | | | | • | the | | |
| | (c) | Curiosity | | | | | in | | |
| | (d) | Better Employmen | t Opportuni | itv | | no | | | |
| | (e) | Complete Course r | | | | - Yrs | | | |
| | (f) | To Improve CGPA | - | | | no | | | |
| Abo | | tructor: Informatio | | espondent. (T | lick () Appro | yy | • | | |
| | - | | | | B | | | | |
| 1. | Pace of | the Teaching/lecture | 3 | A | | С | D | | Е |
| 2. | | ent of the Subject | - | | | | | | |
| 3. | | of expression | | | | | | | |
| 4. | | f preparation | - | | | | | | |
| 5. | | evel of interaction | | | | | | | |
| 6. | | essibility outside the class | | | / | | | | |
| 7. | | s (please specify | | | | | | | |
| | | | | | | | | | |
| A: F | xcellent | B: Very | y Good | C: Goo | d / | Di Catta | | | |
| | | | | 0.000 | _ / | D: Satisfac | tory | E: Poo | r |

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Mr. VIGNESH B

Microsoft-Cloud Application"Conducted by School of Computing, BIHER For actively participating in the value added course "Introduction to from 10-08-2015 to 21.08.2015

Course Coordinator Sound

Director

Head of the Department

CERTIFICATE COURSE ON INTRODUCTION TO MICROSOFT-CLOUD APPLICATION

Introduction of the Course: 12.09.2015



Course Coordinator

Head of the Department

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Requisition Letter

Date: 05.08.2015

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" Learn the basics of HTML" -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 "Learn the basics of HTML" in our campus premises on 10.08.2015, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

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

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



CIRCULAR

07.08.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Learn the basics of HTML** for the benefit of students. This course is scheduled from 10.08.2015 to 21.08.2015 which includes theory and practical. 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. Naline | Professor |
| 2 | How on Kavilha | Assistant Professor |

Head of Department

То

Copy to CSE

Copy to IT

HEAD OF DEPARTMENT Department Of Computer Science 3, Forg., Bharath Institute Of Higher Education (Deciared as Deemed to be University U/D - stroct science) Chennai - 600 073, INDIA



CERTIFICATE COURSE ON LEARN THE BASICS OF HTML

Date of Introduction of the Course: 12.09.2015

COURSE SYLLABUS

1: Web Programming Introduction

Architecture of a website, Different technologies in making the website, Web Development Introduction

2: HTML-Introduction

History of HTML, What you need to do to get going and make your first HTML page, What are HTML Tags and Attributes?, HTML Tag vs. Element, HTML Attributes

3: HTML-Basic Formatting Tags

HTML Basic Tags, HTML Formatting Tags, HTML Color Coding

4: HTML-Grouping Using Div Span

Div and Span Tags for Grouping

5: HTML-Lists

Unordered Lists, Ordered Lists, Definition list

6: HTML-Images

Image and Image Mapping

7: HTML-Hyperlink

URL - Uniform Resource Locator, URL Encoding

8: HTML-Table

, , , , < caption >, < thead >, , < tfoot >, < colgroup >, < col >

9: HTML-Iframe

Using Iframe as the Target

10: HTML-Form

< input >, < textarea >, < button >, < select >, < label >

11: HTML-Headers

Title, Base, Link, Styles, Script, Meta

12: HTML-Miscellaneous

HTML Meta Tag, XHTML, HTML Deprecated Tags & Attributes

COURSE OBJECTIVES

To learn the basics of HTML that describes the structure of a Website semantically along with presentation cues, making it a mark-up language, rather than a programming language. HTML allows images and objects to be embedded and can be used to create interactive forms.

Specifically, the course has the following objectives:

Students will learn

- Insert a graphic within a web page.
- Create a link within a web page.
- Create a table within a web page.
- Insert heading levels within a web page.
- Insert ordered and unordered lists within a web page.
- Use cascading style sheets.
- Create a web page.
- Validate a web page.
- Publish a web page.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department of Computer Science & Engo. Bharath Institute Of Higher Education & Research (Declared as Decrimed to be University UIS-OI UGC Act, 1 Chennai - 600 073, INDA:



CERTIFICATE COURSE ON LEARN THE BASICS OF HTML

Date of Introduction of the Course: 12.09.2015

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

<u>Time Table & Lesson plan</u>

| CLASS | DATE | TOPIC |
|-------|-------------------------|---|
| 1 | 10-08-2015(FN) | 1: Web Programming Introduction |
| | | Architecture of a website, Different technologies in making the website, Web Development Introduction |
| 2 | 11-08-2015 (FN) | 2: HTML-Introduction |
| | | History of HTML, What you need to do to get going and make your first HTML page, What are HTML Tags and Attributes?, HTML Tag vs. Element, HTML Attributes |
| 3 | 12-08-2015 (FN) | 3: HTML-Basic Formatting Tags |
| | | HTML Basic Tags, HTML Formatting Tags, HTML Color Coding |
| 4 | 13-08-2015 (FN) | 4: HTML-Grouping Using Div Span |
| | | Div and Span Tags for Grouping |
| 5,6 | 14-08-2015 (FN) | 5: HTML-Lists |
| | | Unordered Lists, Ordered Lists, Definition list |
| | | 6: HTML-Images |
| | | Image and Image Mapping |
| 7 | 15-08-2015 (FN & AN) | . 7: HTML-Hyperlink |
| | | URL - Uniform Resource Locator, URL Encoding |
| 8 | 17-08-2015 (FN) | 8: HTML-Table |
| | | ,,,,< caption >,< thead >, .< tfoot >,< colgroup >,< col > |

| 9 | 18-08-2015 (FN) | A TITNE IS AND |
|----|-----------------|--|
| | | 9: HTML-Iframe |
| | | Using Iframe as the Target |
| 10 | 19-08-2015 (FN) | |
| | | 10: HTML-Form |
| | | < input >, < textarea >, < button >, < select >, < label > |
| 11 | 20-08-2015 (FN) | |
| | | 11: HTML-Headers |
| | | Title, Base, Link, Styles, Script, Meta |
| 12 | 21-08-2015 (FN) | |
| | | 12: HTML-Miscellaneous |
| | | HTML Meta Tag, XHTML, HTML Deprecated Tags & Attributes |

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COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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

| Acad | emic Year | | 2015-20 | 016 | | | | | | | |
|------------|-------------|------------------------------|--------------|-------------|-------------|------------|--------------|--------|---------------------------|----------------------------|----------|
| Term | | | | | | | | | | | |
| | se Number | • | | | | | | | | | |
| | se Title | | learn th | e basics of | HTML | | | | | | |
| Numl | ber of Crea | lits | | | | | | | | 0 | |
| Туре | of Course | Regular | + | | Elective | | | Add-on | ~ | ~ | |
| | | | | | | | | | | | |
| I. | Informa | tion on the Resp | ondent: (T | ick (v) Ap | propriate | ly) | | | | | |
| | | | | | | | | | | | |
| 1. | Percent | age of classes att | ended | | | | | | | | |
| | 0-20 | | 20-40 | | 40-60 |) | 60-80 | | 80-100 | / | |
| | | | | | (0.1 | 0 | | | | | - |
| 2. | | of hours per we | - | n the cours | | than lectu | | | 8-10 | | |
| | 0-2 | | 2-4 | | 4-6 | | 6-8 | | 8-10 | - | |
| 3. | Dranara | tion for the cour | se by the s | tudent | | | | | | | _ |
| | (i) | Have done part of | | | | | | - | | | |
| | (i) | Has adequate pri | | | requisites | | A | | | | |
| | (iii) | Had to pickup re | - | | | concurrent | study | yes | | | - |
| | | Have no exposur | | | | concurrent | Y | ~7 | | | |
| | (iv) | Have no exposu | te to me bac | Kground n | laterial | | | I | | | |
| 4. | The exp | ectations for tak | ing the cou | irse by the | e student a | re: | | | | | |
| | (a) | Enhance by skill | | | | | U. | > | | | |
| | (b) | Get exposed to a | | | | | - F | | | | |
| | (c) | Curiosity | | | | | Ya | 1.00 | | | |
| | (d) | Better Employm | ent Opport | unity y | | | | | | | |
| | (e) | Complete Cours | | | | | | | | | |
| | (f) | To Improve CG | | | | | | / | | | |
| Aho | | tructor: Informa | | Responde | ent: (Tick | (√) Appro | priately) | | | | |
| AUU | ut the ms | | | | A | B | C | D | | E | - |
| 1. | Pace of | the Teaching/lect | ure | | 1 | | | | | | |
| 2. | | ent of the Subject | | | 1 | | | | | | |
| 2. 3. | | arity of expression | | | 1 | | | | | | |
| 3. 4. | | Level of preparation | | | ~ | | | | | | |
| 4. 5. | | vel of interaction | | | | | | | | | |
| <i>5</i> . | | essibility outside the class | | | 4 | | 4 | | | | |
| 0. 7. | | (please specify | ~1000 | | 1 | | | | | | |
| /. | Oulers | threase specify | | | / | | | | | | |
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Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Deckared as Deemed to be University U/S 3 Of UGC Act, 1958 Chennai - 600 073, INDIA

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| Term | | | | | | | | | | | |
| Cour | se Numb | er | | | | | | | | | |
| Cour | se Title | | learn the | e basics of HTN | /IL | | | | | | |
| Num | ber of Cro | edits | | | | | | | 1 | | |
| Туре | of Cours | e Regular | | Elec | tive | | Add-on | / | | | |
| | | | | | | | - | | | | |
| I. | Inform | ation on the Respon | dent: (Ti | ck (√) Approp | riately) | | | | | | |
| | | | | | | | | | | | |
| 1. | | tage of classes atten | | | 10.00 | (0.0) | | 80-100 | | | |
| | 0-20 | 20 | -40 | | 40-60 | 60-80 | | 80-100 | | | |
| 2. | Numbe | r of hours per week | spont on | the course (O | ther than lect | ure hours) | | | | | |
| 2. | 0-2 | 2- | - | | 4-6 | 6-8 | | 8-10 | | | |
| | 0-2 | 2- | • | | | 0-0 | | | 4 | | |
| 3. | Prepar | ation for the course | by the stu | udent: | | | | | | | |
| | (i) | Have done part of t | his course | earlier | | no | | | | | |
| | (ii) | Has adequate prior | exposure | to the prerequis | sites | no | | | | | |
| | (iii) | - | | | | | | | | | |
| | (iv) | | | | | | | | | | |
| a | | | | | | | | | | | |
| 4. | The exp | pectations for takin | g the cour | se by the stud | ent are: | | | | | | |
| | (a) | (a) Enhance by skill base in the area of specializations \mathcal{N}^{O} | | | | | | | | | |
| | (b) | Get exposed to a relevant subject | | | | | | | | | |
| | (c) | Curiosity | | portunity yes | | | | | | | |
| | (d) | Better Employmen | t Opportur | | | | | | | | |
| | (e) | Complete Course r | equiremen | its | | yes | | | | | |
| | (f) | To Improve CGPA | | | | yes | | | | | |
| Abou | t the Ins | tructor: Informatio | n on the H | Respondent: (7 | fick (√) Appro | opriately) | | | | | |
| | | | | Α | B | C | D | | E | | |
| 1. | Pace of | the Teaching/lecture | | / | | | | | | | |
| 2. | Comme | ent of the Subject | | | | | | | | | |
| 3. | Clarity | of expression | | / | - / | | | | | | |
| 4. | Level of | f preparation | | | - | | | | | | |
| 5. | Level o | finteraction | | | (| | | | | | |
| 6. | Accessi | Accessibility outside the class | | | - | | | | | | |
| 7. | Others | (please specify | | | / | | | | | | |
| | | B: Very | Good | / C: Goo | bd | D: Satisfac | tory | E: Poo | r | | |
| A: E | | | | | | | | | | | |

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

| | | | 2015.2 | 016 | | | | | | | |
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| _ | se Number | r | | - 1 ! | A LITLA | | | | | | |
| | se Title | | learn th | ne basics | of HTML | | | | | | |
| | ber of Cre | | | | | | 1 | Add-on | | , | |
| Гуре | of Course | Regular | | | Elective | | | Aud-on | / | | |
| | | | | | | | | | | | |
| • | Informa | ation on the Resp | oondent: (7 | fick (√) A | ppropriate | ely) | | | | | |
| | Durant | age of classes att | anded | | | | | | | | |
| ١. | | age of classes an | 20-40 | | 40-6 | 0 | 60-80 | | 80-100 | | |
| | 0-20 | | 20-40 | | 40.0 | | | | | | |
| 2. | Number | r of hours per we | eek spent o | n the cou | urse (Other | than lectur | e hours) | | | / | |
| | 0-2 | 1 1 | 2-4 | | 4-6 | | 6-8 | | 8-10 | | |
| | | | | | | | | | | | |
| | Prepara | ation for the cou | rse by the s | student: | | | | | | | |
| | (i) | Have done part | of this cour | se earlier | | | yes | | | | |
| | (ii) | | is adequate prior exposure to the prerequisites | | | | | | | | |
| | (iii) | Had to pickup relevant additional topics through concurrent study | | | | | | | | | |
| | (iv) | Have no exposu | re to the ba | ckground | material | | 4 | is | | | |
| | | L | | | | | | | | | |
| | | pectations for tal | | | | | | | | | |
| | (a) | Enhance by skil | | | specializatio | ons | ijes | | | | |
| | (b) | Get exposed to | a relevant s | ubject | | | yes | | | | |
| | (c) | Curiosity | | | | | yes_ | | | | |
| | (d) | Better Employn | | | | | np | | | | |
| | (e) | Complete Cour | A128 | ents | | | yes | | | | |
| | (f) | To Improve CG | | | | | y | | | | |
| Abo | ut the Ins | structor: Inform | ation on th | e Respon | | | | | | | |
| | | | | | Α | В | C | D |) | E | |
| 1. | | f the Teaching/lec | | | / | | | | | | |
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| 3. | | of expression | | | | 1 | | | | | |
| 4. | | of preparation | | | | | | | | | |
| 5. | Level o | Level of interaction | | | | 1 | | | | | |
| 6. | | ibility outside the | class | | | | | | | | |
| ••• | Others | (please specify | | | / | | | | | | |
| 7. | Outers | | | | | | | | | | |
| 7. | Excellent | | Very Good | | C: Good | | D: Satisfa | ····· | E: Po | | |

HEAD OF DEPARTMENT Department Of Computer Science & Engo., Eharath Institute Of Higher Education & Research (Declared as Deemed to be University U/S & Of UGC Act, 1950) Chennal - 600 073. INDIA



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Declared as Deemed-to-be University under section 3 of UGC Act, 1958) (Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Academic Year 2015-16

Learn the basics of HTML

B.Tech Computer Science and Engineering

STUDENT NAME LIST

| S. No | REG.NO | NAME OF THE CANDIDATE |
|-------|----------|--------------------------------|
| 1 | U15CS051 | GANGARAPU UKESH |
| 2 | U15CS052 | GANGU BHAGYA |
| 3 | U15CS053 | GLADSON J |
| 4 | U15CS054 | GOLI SUDEEP KRISHNA |
| 5 | U15CS055 | GOLLAPUDI KALYAN KUMAR |
| 6 | U15CS056 | GORRE THIRUPATHI REDDY |
| 7 | U15CS057 | GUJJETI MAHESH |
| 8 | U15CS058 | GUNDA VINAY KUMAR |
| 9 | U15CS059 | HANUMAN B |
| 10 | U15CS060 | HARI HARAN M |
| 11 | U15CS061 | HASTHI RUCHITHA |
| 12 | U15CS062 | HEMA NARAYANAN R |
| 13 | U15CS063 | INAPARTHI RAGHAVA |
| 14 | U15CS064 | INJE RAVI TEJA |
| 15 | U15CS065 | INNURU SWATHI |
| 16 | U15CS066 | JAGADEESH K |
| 17 | U15CS067 | JAGADEESWARA RAO JADDU |
| 18 | U15CS068 | JAICHAND KUMAR |
| 19 | U15CS069 | JANAKI RAMAN V |
| 20 | U15CS070 | JHA ABHISHEK AJAY |
| 21 | U15CS071 | JOHN PARAM JYOTHI JYOTHULA |
| 22 | U15CS072 | JOTHI R |
| 23 | U15CS073 | K THULASIRAM |
| 24 | U15CS074 | KADALI VINAY NARASIMHA |
| 25 | U15CS075 | KADUMU MOUNIKA |
| 26 | U15CS076 | KAIPU PRANAY REDDY |
| 27 | U15CS077 | KALYANAM JASWANTH NAIDU |
| 28 | U15CS078 | KAMBLE NIKHIL KUMAR |
| 29 | U15CS079 | KANCHARLAPALLI LOKESHWAR RAO |
| 30 | U15CS080 | KANCHUMARTHI BHUVANESWAR VINAY |

| U15CS082 | KANDI ASHOKA REDDY | |
|----------|--|---|
| | | |
| U15CS083 | KANDI MOUNIKA | |
| U15CS084 | KANDUKURI JESHWANTH | |
| U15CS085 | KANDULA SRINATH | |
| U15CS086 | KARAPAREDDY BHARGAVI | |
| U15CS087 | KARTHEESWARAN P | |
| U15CS088 | KARTHICK S | |
| U15CS089 | KARUTURI SREE RAM | |
| U15CS090 | KATTA NARENDRA | |
| U15CS091 | KHALYAN S N | |
| U15CS092 | KISHORE VENKAT | |
| U15CS093 | KM AYUSHI JAISWAL | |
| U15CS094 | KOLUKULURI ADITHYA RAGHAV VARMA | |
| U15CS095 | KONATALA PUSHPA | |
| U15CS096 | KONDURU PREM KUMAR | |
| U15CS097 | KONGARA KIRAN KUMAR | |
| U15CS098 | KOPPA SEKHAR SAI VISWAM | |
| | U15CS084 U15CS085 U15CS086 U15CS087 U15CS089 U15CS099 U15CS090 U15CS091 U15CS092 U15CS093 U15CS094 U15CS095 U15CS096 U15CS097 | U15CS084KANDUKURI JESHWANTHU15CS085KANDULA SRINATHU15CS086KARAPAREDDY BHARGAVIU15CS087KARTHEESWARAN PU15CS088KARTHICK SU15CS089KARUTURI SREE RAMU15CS090KATTA NARENDRAU15CS091KHALYAN S NU15CS092KISHORE VENKATU15CS093KM AYUSHI JAISWALU15CS094KOLUKULURI ADITHYA RAGHAV VARMAU15CS095KONATALA PUSHPAU15CS097KONGARA KIRAN KUMAR |

Q g

COURSE COORDINATOR

HOD

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



CERTIFICATE OF PARTICIPATION



MR. KANDI ASHOKA REDDY

For actively participating in the value added course " Learn the basics of HTML " Conducted by School of Computing, BIHER from 10-08-2015 to 21.08.2015



Course Coordinator



CERTIFICATE COURSE ON LEARN THE BASICS OF HTML

Introduction of the Course: 12.09.2015



ano

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, 1966) Chennai - 600 073. INDIA



lalyur, Chennal , T.N - 600 073. No.173, Asharam Road, S

Requisition Letter

Date: 05.08.2015

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" HAND ON TRAINING "IOT"" -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 "HAND ON TRAINING "IOT"" in our campus premises on 10.08.2015, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

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

HOD

HEAD OF DEPARTMENT Department Of Computer Science & Ensa Bharath Institute Of Higher Education & resolution (Declared as Deemed to be University (45.3 C) UP Chennal - 600 073, 10004



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



CIRCULAR

07.08.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Hand on Training** "IOT" for the benefit of students. This course is scheduled from 10.08.2015 to 21.08.2015 which includes theory and practical. 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. R Karthi keyas | Professor |
| 2 | Ms Snidbar R | Assistant Professor |

Head of Department

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Responsib (Doclared as Deemed to be University U/S 3 Of UC 9 Aur. 1955) Chennal - 600 073 (MOD)

То

Copy to CSE

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CERTIFICATE COURSE ON STATISTICS WITH HAND ON TRAINING "IOT"

Date of Introduction of the Course: 12.09.2015

COURSE SYLLABUS

1.Introduction to IOT

Understanding IoT fundamentals, IOT Architecture and protocols, Various Platforms for IoT

2.Real time Examples of IoT

Overview of IoT components and IoT Communication Technologies, Challenges in IOT

3. Arduino Simulation Environment

Arduino Uno Architecture, Setup the IDE, Writing Arduino Software

4. Arduino Libraries

Basics of Embedded C programming for Arduino, Interfacing LED, push button and buzzer with Arduino, Interfacing Arduino with LCD

5. Sensor & Actuators with Arduino

Overview of Sensors working, Analog and Digital Sensors

6. Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino

Interfacing of Actuators with Arduino, Interfacing of Relay Switch and Servo Motor with Arduino

7. Basic Networking with ESP8266 WiFi module

Basics of Wireless Networking, Introduction to ESP8266 Wi-Fi Module

8. Various Wi-Fi library

Web server- introduction, installation, configuration, Posting sensor(s) data to web server NIELIT DELHI Page

9. IoT Protocols • M2M vs. IOT

Communication Protocols 6. Cloud Platforms for IOT, Virtualization concepts and Cloud Architecture

10. Cloud computing, benefits

Cloud services -- SaaS, PaaS, IaaS, Cloud providers & offerings

11.Study of IOT Cloud platforms

ThingSpeak API and MQTT

12.Interfacing ESP8266 with Web services

Brief note on Interfacing ESP8266 with Web services

COURSE OBJECTIVES

This Course focuses on hands-on IoT concepts such as sensing, actuation and communication. It covers the development of Internet of Things (IoT) prototypes—including devices for sensing, actuation, processing, and communication—to help you develop skills and experiences. The Internet of Things (IOT) is the next wave, world is going to witness.

Specifically, the course has the following objectives:

Students will learn

- 1. Describe what IoT is and how it works today
- 2. Recognise the factors that contributed to the emergence of IoT
- 3. Design and program IoT devices
- 4. Use real IoT protocols for communication
- 5. Secure the elements of an IoT device
- 6. Design an IoT device to work with a Cloud Computing infrastructure.
- 7. Transfer IoT data to the cloud and in between cloud providers
- 8. Define the infrastructure for supporting IoT deployments

Hor **RSE 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 AL, SCO Chennal - 600 073, INDIA



CERTIFICATE COURSE ON HAND ON TRAINING "IOT"

Date of Introduction of the Course: 12.09.2015

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

<u> Time Table & Lesson plan</u>

| CLASS | DATE | TOPIC |
|-------|--------------------------|--|
| 1 | | 1.Introduction to IOT |
| | 10-08-2015(FN) | Understanding IoT fundamentals, IOT Architecture and protocols, Various Platforms for IoT |
| 2 | 11-08-2015 (FN) | 2.Real time Examples of IoT |
| | | Overview of IoT components and IoT Communication Technologies, Challenges in IOT |
| 3 | 12-08-2015 (FN) | 3. Arduino Simulation Environment |
| | | Arduino Uno Architecture, Setup the IDE, Writing Arduino Software |
| 4 | 13-08-2015 (FN) | 4. Arduino Libraries |
| | | Basics of Embedded C programming for Arduino, Interfacing LED, push button and buzzer with Arduino, Interfacing Arduino with LCD |
| 5 | 14-08-2015 (FN) | 5. Sensor & Actuators with Arduino |
| | | Overview of Sensors working, Analog and Digital Sensors |
| 6,7 | 15-08-2015 (FN & AN) | 6. Interfacing of Temperature, Humidity, Motion, Light and Gas Sensor with Arduino |
| | | Interfacing of Actuators with Arduino, Interfacing of Relay Switch and Servo Motor with Arduino |
| | | 7. Basic Networking with ESP8266 WiFi module |
| | | Basics of Wireless Networking, Introduction to ESP8266 Wi-Fi Module |
| 8 | 17-08-2015 (FN) | 8. Various Wi-Fi library |
| | | Web server- introduction, installation, configuration, Posting sensor(s) data to web server NIELIT DELHI Page |

| 9 | 18-08-2015 (FN) | 8. Various Wi-Fi library |
|----|------------------|---|
| | | Web server- introduction, installation, configuration, Posting sensor(s) data to web server NIELIT DELHI Page |
| 10 | 19-08-2015 (FN) | 9. IoT Protocols • M2M vs. IOT |
| 10 | | Communication Protocols 6. Cloud Platforms for IOT, Virtualization concepts and Cloud Architecture |
| 11 | 20-08-2015 (FN) | 10. Cloud computing, benefits |
| 11 | 20-00-2010 (111) | Cloud services SaaS, PaaS, IaaS, Cloud providers & offerings |
| 12 | 20-08-2015 (FN) | 11.Study of IOT Cloud platforms |
| 12 | 20 00 2000 (20) | ThingSpeak API and MQTT |
| 13 | 21-08-2015 (FN) | 12.Interfacing ESP8266 with Web services |
| 13 | | Brief note on Interfacing ESP8266 with Web services |
| | | |

Q. Sudhar

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Computer Science & Engl., Bharath Institute Of Higher Education & Research (Declared as Deemed to be University U/S 3 Of UGC Act, T953) Chennai - 600 073, INDIA



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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)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date of Introduction of the Course: 12.09.2015

B.Tech Computer Science and Engineering

HAND ON TRAINING "IOT"

| S. No | REG.NO | NAME OF THE CANDIDATE |
|-------|----------|----------------------------------|
| 1 | U15CS091 | KHALYAN S N |
| 2 | U15CS092 | KISHORE VENKAT |
| 3 | U15CS093 | KM AYUSHI JAISWAL |
| 4 | U15CS094 | KOLUKULURI ADITHYA RAGHAV VARMA |
| 5 | U15CS095 | KONATALA PUSHPA |
| 6 | U15CS096 | KONDURU PREM KUMAR |
| 7 | U15CS097 | KONGARA KIRAN KUMAR |
| 8 | U15CS098 | KOPPA SEKHAR SAI VISWAM |
| 9 | U15CS099 | KOTHAPALLI ARYAN VARMA |
| 10 | U15CS100 | KOTIPALLI SRI SAI SURYA PRASANTH |
| 11 | U15CS101 | KOTNANI KRISHNA VAMSI |
| 12 | U15CS102 | KRISHNA KUMAR YADAV |
| 13 | U15CS103 | KUMMETA SAI VAMSI KRISHNA REDDY |
| 14 | U15CS104 | KUNISETTY JYOTHSNA |
| 15 | U15CS105 | LALJEE |
| 16 | U15CS106 | LINGAMPELLY SANNITH REDDY |
| 17 | U15CS107 | LOHESH WARAN S |
| 18 | U15CS108 | M SHIVA PRAKASH |
| 19 | U15CS109 | M UTTEJ |
| 20 | U15CS110 | M. DINESH REDDY |
| 21 | U15CS111 | M.YESHWITHA REDDY |
| 22 | U15CS112 | MAILE ARUN KUMAR |
| 23 | U15CS113 | MAMUNDURU BHARATH KUMAR |
| 24 | U15CS114 | MANCHALA ROHITH |
| 25 | U15CS115 | MANCHIKANTI RAJITHA |

| 26 | U15CS117 | MANOJ KUMAR R |
|----|----------|--------------------------------|
| 27 | U15CS118 | MANUGUNTA BHARGAVI |
| 28 | U15CS119 | MARRIBOYINA GOVARDHAN YADAV |
| 29 | U15CS120 | MARRIPUDI KRISHNA CHAITANYA |
| 30 | U15CS121 | MD MINHAZ RAZA HASHMI |
| 31 | U15CS122 | MOHAMED SAJEEN N |
| 32 | U15CS123 | MOHAMMAD ASLAM SHAREEF |
| 33 | U15CS124 | MOHANKUMAR J |
| 34 | U15CS125 | MOLAPANTI SIVA KALPANA |
| 35 | U15CS126 | MOORABOINA NARESH |
| 36 | U15CS127 | MUPPALLA SURENDRA |
| 37 | U15CS128 | MURARI KUMAR CHAUDHARY |
| 38 | U15CS129 | N SWAPNA RAAGA |
| 39 | U15CS130 | NAGANNAGARI JAGADISH |
| 40 | U15CS132 | NALLANALLI SATYA SANDEEP KUMAR |
| 41 | U15CS133 | NALLURI AKHIL BABU |
| 42 | U15CS134 | NAMBURI VIJAY KUMAR |
| | Aglan | |

- 2010 Course Coordinator

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J V HOD

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

| Acad | emic Year | | 2015-20 |)16 | | | | | | |
|---|---------------------------------|-----------------|------------------|------------------------------------|--------------|--------------|------------|--------|--------|--------|
| Term | | | | | | | | | | |
| | e Number | - | | | | | | | | |
| | e Title | | Hand or | Training " | IOT" | | | | | |
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| | of Course | | | 1 | Elective | | | Add-on | | |
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| | Informa | tion on the Re | espondent: (Ti | ick (√) App | ropriate | ely) | | | | |
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| 1. | Percent | age of classes | attended | | | | | | 00.100 | |
| | 0-20 | | 20-40 | | 40-6 | 0 | 60-80 | | 80-100 | ~ |
| | | | | | (Other | than lost | ro hours) | | | |
| 2. | | of hours per | | the course | | than lectu | 6-8 | | 8-10 | |
| | 0-2 | | 2-4 | | 4-6 | | 0-0 | ~ | 0.10 | V |
| 3. | Prenara | tion for the co | ourse by the st | udent: | | | | | | |
| • | (i) | | rt of this cours | | | | | Yes | | |
| | (i) (ii) | • | prior exposure | | equisites | | | NO | | |
| | (iii) | - | relevant addit | | | | study | No | | |
| | (iii) (iv) | | sure to the bac | | | | | Yes | | |
| | (1) | nuve no expo | Sure to une out | | | | | 100 | | |
| 1 . | The exp | ectations for t | taking the cou | rse by the | student | are: | | | | |
| | (a) | Enhance by sl | kill base in the | in the area of specializations Yes | | | | | | |
| | (b) | Get exposed t | o a relevant su | bject | | | | Ye | | |
| | (c) | Curiosity | | | | | | Ye | | |
| | (d) | Better Employ | yment Opportu | mity | | | | N | | |
| | (e) | Complete Con | urse requireme | nts | | | | 2 | | |
| | (f) | To Improve C | | | | | | | 0 | |
| Abo | it the Inst | tructor: Inform | mation on the | Responder | nt: (Tick | (√) Appro | priately) | | | |
| | | | | | A | В | C | D | | E |
| 1. | Pace of | the Teaching/le | ecture | | | \checkmark | | | | |
| 2. | Comme | nt of the Subje | ct | | | ~ | | | | |
| 3. | Clarity | | \sim | | | | | | | |
| 4. | Level of | | \sim | | | | | | | |
| 5. | Level of | finteraction | | | \checkmark | | | | | |
| 6. | Accessibility outside the class | | | | | | | | | _ |
| 7. | Others | please specify | | | | \checkmark | | | | |
| | | | | | 0.1 | 1 | Date | | | |
| | xcellent | | Very Good | C | Good | | D: Satisfa | ctory | E: Po | or // |

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Declared as Deemed to be University UIS 3 Of UGC Act, 1955) Chennai - 600 073, INDIA

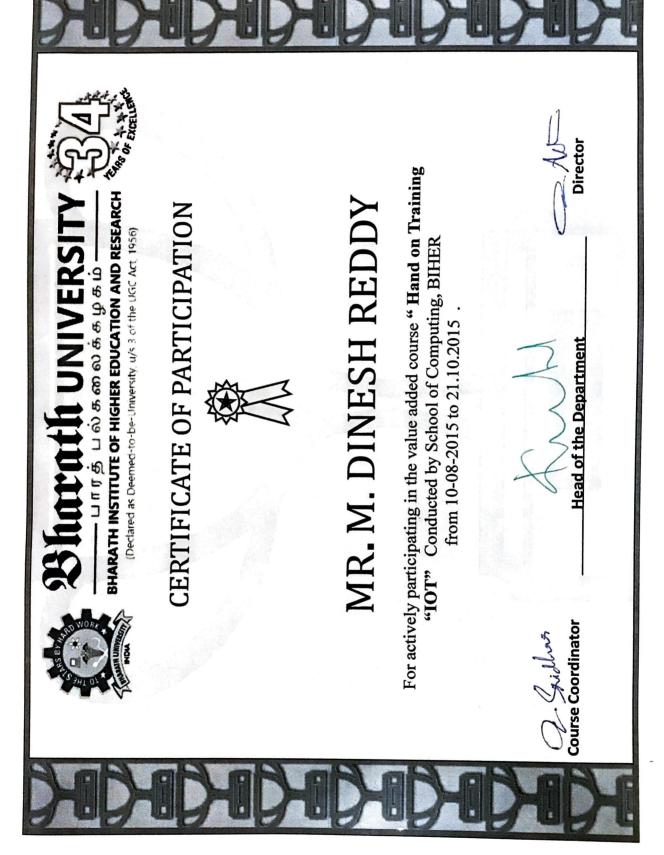
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| Cour | se Numb | er | | | | | | | | | |
| Cour | se Title | | Hand | on Training " | 'IOT" | | | | | | |
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| Гуре | of Cours | e Regular | | 1 | Elective | | | Add-on | \checkmark | | |
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| | Inform | ation on the Res | spondent: (1 | Fick (√) App | oropriately) | | | | | | |
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| | 0-20 | tage of classes a | 20-40 | 1 | 40-60 | | 60-80 | 1 | 80-100 | | |
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| | Numbe | r of hours per v | veek spent o | n the course | e (Other tha | n lectu | re hours) | | | | |
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| | Prepar | ation for the cou | • | | | | | | | | |
| | (i) | Have done part | | | | | | Yes | | | |
| | (ii) | Has adequate p | | - | • | | | yes | | | |
| | (iii) | Had to pickup | | - | - | current | study | yes | | | |
| | (iv) | Have no exposure to the background material | | | | | | | | | |
| | 1771 | | 1 | 1 4 | | | | | | | |
| | | xpectations 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 | | | |
| | (c) | Curiosity | | No | | | | | | | |
| | (d) | Better Employ | | 100 | | | | | | | |
| | (e) | Complete Cour | - | uirements No | | | | | | | |
| | (f) | To Improve CO | | | | | | N | 0 | | |
| bou | it the Ins | tructor: Inform | ation on the | | | | | | | | |
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| | | f preparation | | N | | | | | | | |
| | | finteraction | | | r | | | | | | |
| | | bility outside the | class | ~ | | | | | | | |
| | Others (| please specify | | | | | | | | | |
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Department Of Computer Science & Engg., Bharath institute Of Higher Education & Research (Declared as Deemed to be University UIS 3 Of UGC Act, 1958) Chennai - 600 073, INDIA

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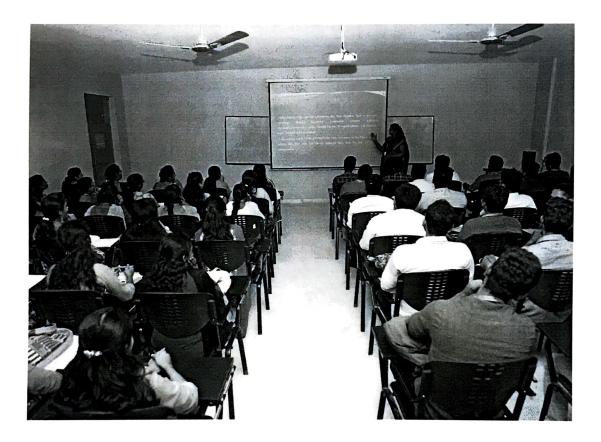
| rm | ademic Yea | и | 2015-20 | 16 | | | | | |
|--|-------------|---------------------|---------------|-------------------|---------------|---------------|--------|--------|--------|
| purse Title Hand on Training "IOT" amber of Credits Elective Add-on pe of Course Regular Elective Add-on Information on the Respondent: (Tick (\) Appropriately) Percentage of classes attended 0-20 20-40 40-60 60-80 80-100 0-20 20-40 40-60 60-80 80-100 Number of hours per week spent on the course (Other than lecture hours) 0-2 2-4 4-6 6-8 8-10 0-2 2-4 4-6 6-8 8-10 Preparation for the course by the student: (i) Has adequate prior exposure to the prerequisites Ye.3 (iii) Has dequate prior exposure to the background material Ye.5 The expectations for taking the course by the student are: (a) Enhance by skill base in the area of specializations Ye.5 (b) Get exposed to a relevant subject Ye.5 Ye.5 (c) Carrisity Ye.5 Ye.5 (d) Better Employment Opportunity Ye.5 Ye.5 | | | | | | | | | |
| Interim prof Add-on and or running FOT Add-on and orunning FOT Add-on <t< td=""><td></td><td>er .</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | er . | | | | | | | |
| pe of Course Regular Elective Add-on Information on the Respondent: (Tick (\') Appropriately) Percentage of classes attended 0-20 20-40 40-60 60-80 80-100 Number of hours per week spent on the course (Other than lecture hours) 0-2 2-4 4-6 6-8 8-10 ~ Preparation for the course by the student: (i) Have done part of this course earlier Yes 40-60 (ii) (ii) Have done part of this course earlier Yes Yes (iii) Have no exposure to the prerequisites Yes (iii) Had to pickup relevant additional topics through concurrent study Yes Yes (iv) Have no exposure to the background material Yes Yes (iv) Have no exposure to the background material Yes (iv) Have no exposure to use by the student are: (a) Enhance by skill base in the area of specializations Yes (b) Get exposed to a relevant subject Yes Yes Yes (c) Curiosity Yes Yes Yes Yes (d) Better Employment Opportunity Yes </td <td></td> <td></td> <td>Hand on</td> <td>Training "IOT"</td> <td></td> <td></td> <td></td> <td></td> <td></td> | | | Hand on | Training "IOT" | | | | | |
| Information on the Respondent: (Tick (¹) Appropriately) Percentage of classes attended 0-20 20-40 40-60 60-80 80-100 Number of hours per week spent on the course (Other than lecture hours) 0-2 2-4 4-6 6-8 8-10 Preparation for the course by the student: (i) Have done part of this course carlier Yes (iii) Had don pickup relevant additional topics through concurrent study Yes (iii) Have no exposure to the background material Yes (iv) Have no exposure to the background material Yes (iv) Have no exposure to the background material Yes (iv) Have no exposure to the background material Yes (iv) Have no exposure to the background material Yes (iv) Have no exposure to the background material Yes (iv) Have no exposure to the background material Yes (iv) Get exposed to a relevant subject Yes (e) Complete Course requirements No (f) To Improve CGPA No ut the Instructor: Information on the Respondent: (Tick (v) Appropriate | | | | | | | | | / |
| Percentage of classes attended 0-20 20-40 40-60 60-80 80-100 ~ Number of hours per week spent on the course (Other than lecture hours) 0-2 2-4 4-6 6-8 8-10 ~ Preparation for the course by the student: (i) Have done part of this course earlier 4-6 6-8 8-10 ~ (ii) Has adequate prior exposure to the prerequisites 42.5 (iii) 44.6 6-8 8-10 ~ (iii) Has adequate prior exposure to the prerequisites 42.5 (iv) 42.5 (iv) 42.5 (iv) (iv) Have no exposure to the background material Yes (iv) 42.5 (iv) 42.5 (iv) 42.5 (iv) (iv) 42.5 (iv) 42.5 (iv) 42.5 (iv) (iv) 42.5 (iv) (iv) 42.5 (iv) (iv) 42.5 (iv) | e of Cours | e Regular | | Electiv | ve | | Add-on | | |
| Percentage of classes attended 0-20 20-40 40-60 60-80 80-100 ~ Number of hours per week spent on the course (Other than lecture hours) 0-2 2-4 4-6 6-8 8-10 ~ Preparation for the course by the student: (i) Have done part of this course earlier 4-6 6-8 8-10 ~ (ii) Has adequate prior exposure to the prerequisites 42.5 (iii) 44.6 6-8 8-10 ~ (iii) Has adequate prior exposure to the prerequisites 42.5 (iv) 42.5 (iv) 42.5 (iv) (iv) Have no exposure to the background material Yes (iv) 42.5 (iv) 42.5 (iv) 42.5 (iv) (iv) 42.5 (iv) 42.5 (iv) 42.5 (iv) (iv) 42.5 (iv) (iv) 42.5 (iv) (iv) 42.5 (iv) | Inform | - 42 | | | | | | | |
| 0-20 20-40 40-60 60-80 80-100 ~ Number of hours per week spent on the course (Other than lecture hours) 0-2 2-4 4-6 6-8 8-10 ~ Preparation for the course by the student: (i) Have done part of this course earlier Yes . (iii) Has adequate prior exposure to the perequisites Yes . (iiii) Had to pickup relevant additional topics through concurrent study Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Get exposed to a relevant subject Yes . . (c) Curiosity Yes . . . (d) Better Employm | Inform | ation on the Respo | ondent: (Tic | k (√) Appropri | ately) | | | | |
| 0-20 20-40 40-60 60-80 80-100 ~ Number of hours per week spent on the course (Other than lecture hours) 0-2 2-4 4-6 6-8 8-10 ~ Preparation for the course by the student: (i) Have done part of this course earlier Yes . (iii) Has adequate prior exposure to the perequisites Yes . (iiii) Had to pickup relevant additional topics through concurrent study Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Have no exposure to the background material Yes . (iv) Get exposed to a relevant subject Yes . . (c) Curiosity Yes . . . (d) Better Employm | Percent | age of classes atte | nded | | | | | | |
| Number of hours per week spent on the course (Other than lecture hours) 0.2 2.4 4.6 6.8 8-10 Preparation for the course by the student: (i) Have done part of this course earlier Yest (ii) Have done part of this course earlier Yest Yest (iii) Has adequate prior exposure to the prerequisites Yest (iv) Have no exposure to the background material Yest 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 Yest (c) Curiosity Yest (d) Better Employment Opportunity Yest (e) Complete Course requirements No (f) To Improve CGPA No A B C D Pace of the Teaching/lecture ✓ Clarity of expression ✓ Level of preparation ✓ A B C D E Pace of the Teaching/lecture ✓ | | | | 40 | -60 | 60-80 | Т | 80.100 | |
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| 0-2 2-4 4-6 6-8 8-10 ~ Preparation for the course by the student: (i) Have done part of this course earlier 4-5 6-8 8-10 ~ (ii) Have done part of this course earlier 4-5 6-8 8-10 ~ (iii) Has adequate prior exposure to the prerequisites 4-5 4-5 4-5 4-5 (iii) Had to pickup relevant additional topics through concurrent study 4-5 4-5 4-5 (iii) Have no exposure to the background material 4-5 4-5 4-5 (iv) Have no exposure to the background material 4-5 4-5 4-5 (iv) Have no exposure to the background material 4-5 4-5 4-5 (iv) Have no exposure to the background material 4-5 4-5 4-5 (iv) Have no exposure to the background material 4-5 4-5 4-5 (iv) Get exposed to a relevant subject 4-5 4-5 4-5 4-5 (c) Complete Course requirements 4-5 4-5 No No No No | Number | of hours per wee | k spent on t | he course (Oth | er than lect | ure hours) | | | |
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| (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 No (f) To Improve CGPA No the Instructor: Information on the Respondent: (Tick (\frac{1}{2}) Appropriately) No Pace of the Teaching/lecture ✓ O Comment of the Subject ✓ Image: Comment of the Subject Clarity of expression ✓ Image: Comment of the class Level of interaction ✓ Image: Comment of the class Others (please specify ✓ Image: Comment of the class Others (please specify ✓ Image: Comment of the class | The expe | ectations for takin | g the course | hu the -t-1 | | | | | |
| (b) Get exposed to a relevant subject ICS (c) Curiosity Yes (d) Better Employment Opportunity Yes (e) Complete Course requirements Yes (f) To Improve CGPA No (f) To Improve CGPA No nt the Instructor: Information on the Respondent: (Tick (\/) Appropriately) No Pace of the Teaching/lecture ✓ D Comment of the Subject ✓ Image: Comment of the Subject Clarity of expression ✓ Image: Comment of the Subject Level of interaction ✓ Image: Comment of the class Others (please specify ✓ Image: Comment of the class Others (please specify ✓ Image: Comment of the class | | | | | | | | | |
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| (c) Define Employment Opportunity Yes (e) Complete Course requirements No (f) To Improve CGPA No nt the Instructor: Information on the Respondent: (Tick (\/) Appropriately) No A B C D Pace of the Teaching/lecture ✓ O E Comment of the Subject ✓ ✓ O Clarity of expression ✓ ✓ ✓ Level of preparation ✓ ✓ ✓ Accessibility outside the class ✓ ✓ ✓ Others (please specify ✓ ✓ E | | | | | | | | | |
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HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Declared as Deemsd to be University U/8 3 Or USC AL., St.) Chennal - 600 073, INDIA



CERTIFICATE COURSE ON HAND ON TRAINING "IOT"

Introduction of the Course: 12.09.2015



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Course Coordinator

Head of the Department

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/3 3 Of UGC Act, 1956) Chennai - 600 073, INDIA



Requisition Letter

Date: 05.08.2015

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 "Data Analysis Using Excel And Spss" -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course "Data Analysis Using Excel And Spss" -Reg in our campus premises on 10.08.2015, students would be participating in this course. We request you kindly to give permission to organize this event

Venue: CSE Smart Room

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

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

ITEAD OF DEPARTUENT Department Of Corrouter Calence & Engoli Bharath Indiffuts Of Migher Shubstlien & Research (Doclared as Deamed to be University, Ur8 3 Of UGC Act, 1956) Chennal - 600 070, INDIA





CIRCULAR

07.08.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Data Analysis using Excel And Spss** for the benefit of students. This course is scheduled from 10.08.2015 to 19.08.2015 which includes theory and practical. 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. Nalini | Professor |
| 2 | Hus C. Anuradha | Assistant Professor |

Head of Department

HEAD OF DEPARTMENT Department Of Computer Science & Enggli Bharath Isotitute Of Higher For Instan & Science for (Declared as Debayd to DOV Lichtwig, GRS D Or USC Act, ICU Chemical Hei Curr Schultzek

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CERTIFICATE COURSE ON Data Analysis using Excel And Spss Date of Introduction of the Course: 12.09.2015

<u>COURSE SYLLABUS</u>

1. Create an Excel report

This module explains how to create a report in Excel Filtering and Formatting Data Charts Excel Tables Filtering Excel Data, Formatting, Excel Data, Create excel Charts, Filter and format data, Create charts.

2. Create an Excel Table

create data tables in Excel, Excel Data Tables, Summarizing Data

3. Pivot Tables and Pivot Charts

Create an Excel Table,Summarize Excel Data Explain what Excel Data tables are Sort, filter, and validate data,Summarize data,Format summarized data.

4. Importing Data from a CSV File

Creating a Pivot Table, Creating a Pivot Chart, Editing Pivot Tables and Pivot Charts, Describe pivot tables and how to create them, Describe the various elements of a pivot chart, Edit pivot tables and pivot charts.

5. Dashboards

Arranging Tables and Charts, Slicing Data, Data Analysis, Describe a dashboard. Filter data using a slicer, Add calculated columns to a dashboard, Find anomalies.

6. Creating Hierarchies

. Hierarchies, Time , DataCreate a Hierarchy, Configure Time data, Create an Animated Time Chart

7. The Excel Data Model

This module explores the Excel data model and looks at ways of extending it.

8. Explore an Excel Data Model

Explain an Excel Data Model and how to use it.

9. Add Multiple Tables

Import External Data and use it.

10. Create Relationships

Link out to external data.

11.Add External Data

Etxternal data is to extend it

COURSE OBJECTIVES

To learn and analyse and visualize data in R and learn to perform frequentist and Bayesian statistical inference and modelling to understand natural phenomena and make databased decisions.

Specifically, the course has the following objectives: Students will learn

- 1. Understanding Filtering Excel Data, Formatting.
- 2. Understanding External Data.
- 3. Charts, Slicing Data, Data Analysis .
- 4. Arranging Tables and Charts, Slicing Data.
- 5. Import External Data and use it.
- 6. Excel Table, Summarize Excel Data

C. Annah

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Doclared as Deemed to be University U/S 0 Of UGC Act, 1956) Chennai - 600 073. INDIA



CERTIFICATE COURSE Short term course on DATA ANALYSIS USING EXCEL AND SPSS

Date of Introduction of the Course: 12.09.2015

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

<u>Time Table & Lesson plan</u>

| CLASS | DATE | TOPIC | | | | | |
|-------|--------------------|--|--|--|--|--|--|
| 1 | 10-08-2015 (FN) | 1. Create an Excel report Filtering and Formatting Data Charts Excel Tables Filtering Excel Data, Formatting, Excel Data, Create excel Charts, Filter and format | | | | | |
| 2 | 11-08-2015 (FN) | 2. Create an Excel Table create data tables in Excel, Excel Data Tables,Summarizing Data | | | | | |
| 3 | 12-08-2015 (FN) | 3. Pivot Tables and Pivot Charts Create an Excel Table,Summarize Excel Data | | | | | |
| 4 | 13-08-2015 (FN) | 4 Importing Data from a CSV File Creating a Pivot Table,Creating a Pivot Chart,Editing | | | | | |
| 5 | 14-08-2015 (FN) | 5 Dashboards Arranging Tables and Charts, Slicing Data, Data Analysis | | | | | |
| 6 | 15-08-2015 (FN) | 6. Creating Hierarchies Hierarchies, Time, DataCreate a Hierarchy | | | | | |
| 7 | 15-08-2015 (AN) | 7 The Excel Data Model Time data,Create an Animated Time Chart | | | | | |

| 8 | 17-08-2015 (FN) | 8. Explore an Excel Data Model Excel Data Model and how to use it. | |
|----|--------------------|---|--|
| | | 9. Add Multiple Tables Import External Data and use it. | |
| 9 | 18-08-2015 (FN) | 10. Create Relationships Link out to external data. | |
| 10 | 19-08-2015 (FN) | 11.Add External Data Etxternal data is to extend it | |

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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, 1958) Chennal - 600 073, INDIA



Bharath OF HIGHER EDUCATION AND RESEAL

(Vide Notification No. F.9-5/2000 - U.3. Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date of Introduction of the Course: 12.09.2015

B.Tech Computer Science and Engineering

Introduction to DataAnalysis using Excel Spss

| | | Introduction to DataAnalysis using Excel Spss |
|-------|----------|---|
| S. No | REG.NO | NAME OF THE CANDIDATE |
| 1 | U15CS001 | ABHIJEET KUMAR |
| 2 | U15CS002 | ABHIJIT KUMAR GUPTA |
| 3 | U15CS003 | ABHISHEK KUMAR SINGH |
| 4 | U15CS004 | ALLU SAI SIVA PRIYANKA NAIDU |
| 5 | U15CS005 | AMBIKE KUMAR SINGH |
| 6 | U15CS006 | ANBUMANI S |
| 7 | U15CS007 | ANJAR ALI |
| 8 | U15CS008 | ANKAM MANJUNATH |
| 9 | U15CS009 | ANNADI DHANUSH |
| 10 | U15CS010 | ANNAVARAPU DIVYA |
| 11 | U15CS011 | ANUMOLU YESWANTH |
| 12 | U15CS012 | ARAVAPALLI SIVA VINAYA |
| 13 | U15CS013 | ARAVINDHAN K R |
| 14 | U15CS014 | ARVIND KUMAR YADAV |
| 15 | U15CS015 | ARYAN SAHU |
| 16 | U15CS016 | ASHISH AGARWAL |
| 17 | U15CS017 | ASHISH RANJAN |
| 18 | U15CS018 | ATTANTI RAVIKANTH |
| 19 | U15CS019 | BANAVATH SUNIL NAIK |
| 20 | U15CS020 | BANDARU RAMESH |
| 21 | U15CS021 | BATTA SIVA PRASAD |
| 22 | U15CS022 | BHARATH K |
| 23 | U15CS023 | BHARATHI V |
| 24 | U15CS024 | BIKKI KUMAR SHA |
| 25 | U15CS025 | BINGEWAR SAISHARAN |
| 26 | U15CS026 | BIRADAVOLU SUCHARITHA |
| 27 | U15CS027 | BODA AKHIL WESLEY |
| 28 | U15CS028 | BONALA SRIDHAR RAO |
| 29 | U15CS029 | BRYAN STEVE PUSHPARAJ I |
| 30 | U15CS234 | DUVVURU SUNEESH KUMAR |
| 31 | U15CS235 | ASHWIN VISHAL A |
| 32 | U15CS236 | MALKANNAGARI HARSHAVARDHAN REDDY |
| 33 | U15CS237 | BUDDI VAMSI |
| | | |

| 34 | U15CS238 | VATHADI SWAMYVENKATESH | |
|----|----------|------------------------------------|--|
| 35 | U15CS239 | AVINASH KUMAR | |
| 36 | U15CS240 | YUGESH S | |
| 37 | U15CS030 | CHAKKA KSHITHIJA | |
| 38 | U15CS031 | CHAMARTHI LAKSHMI NARAYANA AVINASH | |

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HEAD OF DLPARTMENT Department Of Computer Science & Engo., Bharath Institute OI Higher Education & Research (Declared as Deemed to be University UIS 3 Of UGC Act, 1936) Chennai - 600 973, INDIA

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C-Anuredha Course Coordinator

| Acade | mic Year | [| 20 | 5-2016 | | | | | | | | |
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| Cours | e Numbe | r | | | | | | | | | | |
| Cours | e Title | | Da | ta Analy | sis using E | xcel and S | nss | | | | | |
| Numb | er of Cre | dits | | | oro donig L | acei anu 5 | p 33 | | | | | |
| Туре | of Course | e Regul | lar | | Electi | ve | | Add-on | | / | | |
| | | | | | | | | | | | | |
| 1. | Inform | ation on th | e Responden | : (Tick (| √) Appropri | ately) | | | | | | |
| 1. | Percent | ntage of classes attended | | | | | | | | | | |
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| 2. | Numbe | r of hours | per week spe | it on the | course (Oth | er than lec | ture hours) | | | | | |
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| 3. | | | e course by t | | | | | | | | | |
| | (i) | | e part of this c | | | | | NO | | | | |
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| | (iii) | Had to pickup relevant additional topics through concurrent study | | | | | | | | | | |
| | (iv) | Have no exposure to the background material | | | | | | | | | | |
| 4. | The expectations for taking the course by the student are: | | | | | | | | | | | |
| | (a) | Enhance by skill base in the area of an existing | | | | | | | | | | |
| | (b) | Get exposed to a relevant subject Yes | | | | | | | | | | |
| | (c) | Curiosity | | | | | | NO | | | | |
| | (d) | Better Em | ployment Opp | ortunity | | | | Yes | | | | |
| | (e) | Complete | Complete Course requirements | | | | | | | | | |
| | (f) | To Improv | e CGPA | | | | | No | | | | |
| Abou | t the Ins | tructor: Inf | formation on | the Resp | ondent: (Tic | :k (√) Appr | opriately) | | | | | |
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| 4. | | f preparation | | | \checkmark | | | | | | | |
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| | cellent | | B: Very Good | 1 | C: Good | | D: Satisfacto | ory | E: Poor | | | |
| A: Ex | Cenent | | | | | | | | | | | |

HEAD OF DEPARTMENT Department Of Connection Connection Bharath Institution Hermitics Connection (Declared as Departed to be University, U.S.S. Ontroduction Chennal - 600 073, Maria

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| se Title | Data | Analysis usi | ng Exce | l and Sps | S | | | | |
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| of Cours | e Regular | F | Elective | | | Add-on | | / | |
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| Inform | ation on the Respondent: | (Tick (√) App | ropriate | ly) | | | | | |
| Percen | tage of classes attended | | | | | | | | |
| 0-20 | 20-40 | | 40-6 | 0 | 60-80 | | 80-100 | | |
| Numbe | er of hours per week spent | on the course | (Other | than lectu | re hours) | | | | |
| | | | | | | | 8-10 | | |
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| Prepar | ation for the course by the | student: | | | | | | | |
| (i) | Have done part of this cou | rse earlier | | | Ne | > | | | |
| (ii) | Has adequate prior exposu | re to the prere | requisites | | | | | | |
| (iii) | Had to pickup relevant add | litional topics | through | concurrent | atuda | | | | |
| (iv) | Have no exposure to the ba | ackground ma | terial | | 1 | | | | |
| The ex | pectations for taking the co | ourse by the s | tudent a | re: | | | | | |
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| (b) | | | | | | | | | |
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| 2.5 | | tunity | | l - | | | | | |
| (e) | | | | | | | | | |
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| Comme | ent of the Subject | \sim | - | | | | | | |
| Clarity | of expression | | | / | | | | | |
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this course earlier Voo (iii) Have no exposure to the prerequisites (iii) Have no exposure to the background material N O 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 (c) Curiosity (d) Better Employment Opportunity (C) (i) Complete Course requirements (i) Complete Course requirements (i) Curiosity (i) Cu | |

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HEAD OF THE DEPARTMENT

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| | ber of Cre | edits | | , | | | | | | | |
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| 5. | (i) | Have done part | | | | 1 | les | | | | |
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| 4. | The ex | pectations for tal | | | | | | | | | |
| | (a) | Enhance by skill base in the area of specializations YCA | | | | | | | | | |
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| | (c) | Curiosity | | \sim_0 | | | | | | | |
| | (d) | Better Employm | ent Opportuni | ty | | | Yes | | | | |
| | (e) | Complete Cours | | | | | | | | | |
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| Abo | ut the Ins | tructor: Informa | tion on the Re | espondent: (Ti | | | | | | | |
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| 1. | | the Teaching/lectu | ire | | | | | | | | |
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Department STG (Control and All Energy) Exherative control of State (Control & Energy) (Doclared as Deemics to be unit in a (1013) CPUSIC Act, 1993) Chernal - 660 ST3, MEMA



Sharath UNIVERSITY



CERTIFICATE OF PARTICIPATION

Mr. BODA AKHIL WESLEY

For actively participating in the value added course "Data Analysis Using Excel And Spss "Conducted by School of Computing, BIHER from 10-08-2015 to 19.08.2015

Head of the Department

Course Coordinator

Director

<u>CERTIFICATE COURSE ON Data Analysis Using Excel And Spss</u> <u>Introduction of the Course: 12.09.2015</u>



Anoder **Course Coordinator**

Head of the Department

HEAU OF DEPARTMENT Department Of Computer Science & Englis Bharath Institute Of Higher Edministration S. R. Schuch (Doclared as Deemed to be University Vis C.O.: USC Act. 1986) Channal - 600 073, INDIA INSTITUTE OF HIGHER EDUCATION AND RESEARCH

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOG No.173, Agharam Road, Selelyur, Chennel , T.N - 600 073.

Requisition Letter

Date: 02.12.2015

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 "Introduction to Fuzzy Logic Tool Box" -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 "Introduction to Fuzzy Logic Tool Box" in our campus premises on 10.12.2015, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

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

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, 1963) Chennai - 609 073, INDIA





CIRCULAR

05.12.2015

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Introduction to Fuzzy Logic Tool Box** for the benefit of students. This course is scheduled from 10.12.2015 to 19.12.2015 which includes theory and practical. 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. G. Michael | Professor |
| 2 | Mr. B. Sundanaj | Assistant Professor |

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

То

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CERTIFICATE COURSE ON Training on INTRODUCTION TO FUZZY -LOGIC TOOL BOX

Date of Introduction of the Course: 11.01.2016

COURSE SYLLABUS

1. Fuzzy Logic Toolbox Product Description

Key Features, What is Different About Using Fuzzy Logic Toolbox Online.

2. Foundations of Fuzzy Logic

Fuzzy Sets, Membership Functions. Logical Operations. If-Then Rules. Types of Fuzzy Inference Systems.

3. Description of Fuzzy Logic

Why Use Fuzzy Logic, When Not to Use Fuzzy Logic, What Can Fuzzy Logic Toolbox Software do.

4. Fuzzy Modeling and Identification

About the Toolbox and the installation.

5. Fuzzy Inference Process

Fuzzify Input, Apply Fuzzy Operator, Apply Implication Method, Aggregate All Outputs, Defuzzify, Fuzzy Inference Diagram.

6. Fuzzy Logic Designer

Fuzzy Logic Toolbox Graphical User Interface Tools, The Basic Tipping Problem , The Fuzzy Logic Designer

7. Fuzzy vs. Nonfuzzy Logic

Basic Tipping Problem, Nonfuzzy Approach, Fuzzy Logic Approach

8. Build Fuzzy Systems Using Custom Functions

Build Fuzzy Inference Systems Using Custom Functions in Fuzzy Logic Designer, Specify Custom Membership Functions, Specify Custom Membership Functions.

9. Adaptive Neuro-Fuzzy Modeling

Neuro-Adaptive Learning and ANFIS, Comparison of Dnfis and Neuro-Fuzzy Designer Functionality.

10. Data Clustering

Fuzzy Clustering, Cluster Quasi-Random Data Using Fuzzy C-Means Clustering.

11. Deployment

Deploy Fuzzy Inference Systems

12. Compile and Evaluate Fuzzy Systems

Compile and Evaluate Fuzzy Systems on Windows Platforms, Compile and Evaluate Fuzzy Systems on UNIX Platforms

COURSE OBJECTIVES

This course is designed to impart knowledge about Fuzzy Logic Toolbox Product and to Compile and Evaluate Fuzzy Systems on Windows Platforms, Compile and Evaluate Fuzzy Systems on UNIX Platforms

Students will learn

- 1. Understanding Fuzzy Logic Toolbox Product
- 2. Understanding Fuzzy Modeling and Identification
- 3. Analyse Fuzzy Inference Process
- 4. Understanding Fuzzy vs. Nonfuzzy Logic
- 5. Knowing Neuro-Fuzzy Modeling
- 6. Compile and Evaluate Fuzzy Systems on Windows Platforms as well as UNIX Platforms

R Sand

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Ecsearch (Declared as Deemed to be University U/S 3 Of UGC Act, 1958) Chennai - 600 073, INDIA



CERTIFICATE COURSE ON STATISTICS WITH INTRODUCTION TO FUZZY LOGIC TOOL BOX

Date of Introduction of the Course: 11.01.2016

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 | ТОРІС |
|-------|-------------------------|--|
| 1 | 10-012-2015(FN) | 1. Fuzzy Logic Toolbox Product Description Key Features, What is Different About Using Fuzzy Logic Toolbox Online. |
| 2 | 11-12-2015 (FN) | 2. Foundations of Fuzzy Logic Fuzzy Sets, Membership Functions. Logical Operations . If-Then Rules. Types of Fuzzy Inference Systems. |
| 3,4 | 12-12-2015 (FN & AN) | 3. Description of Fuzzy Logic Why Use Fuzzy Logic , When Not to Use Fuzzy Logic , What Can Fuzzy Logic Toolbox Software do. 4. Fuzzy Modeling and Identification About the Toolbox and the installation. |
| 5 | 14-12-2015 (FN) | 5. Fuzzy Inference Process Fuzzify Input, Apply Fuzzy Operator, Apply Implication Method, Aggregate All Outputs, Defuzzify, Fuzzy Inference Diagram. |
| 6 | 15-12-2015 (FN) | 6. Fuzzy Logic Designer . Fuzzy Logic Toolbox Graphical User Interface Tools, The Basic Tipping Problem, The Fuzzy Logic Designer 7. Fuzzy vs. Nonfuzzy Logic Basic Tipping Problem, Nonfuzzy Approach, Fuzzy Logic Approach |

| 7 | 16-12-2015 (FN) | 8. Build Fuzzy Systems Using Custom Functions |
|----|-----------------|---|
| | | Build Fuzzy Inference Systems Using Custom Functions in Fuzzy Logic Designer, Specify Custom Membership Functions, Specify Custom Membership Functions. |
| 8 | 17-12-2015 (FN) | 9. Adaptive Neuro-Fuzzy Modeling |
| | | Neuro-Adaptive Learning and ANFIS, Comparison of Dnfis and Neuro-Fuzzy Designer Functionality. |
| 9 | 18-12-2015 (FN) | 10. Data Clustering |
| | | Fuzzy Clustering , Cluster Quasi-Random Data Using Fuzzy C-Means Clustering. |
| 10 | 19-12-2015 (FN) | 11. Deployment |
| | | Deploy Fuzzy Inference Systems |
| 11 | 19-12-2015 (FN) | 12. Compile and Evaluate Fuzzy Systems |
| | | Compile and Evaluate Fuzzy Systems on Windows Platforms, Compile and Evaluate Fuzzy Systems on UNIX Platforms |

B. Sunda

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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 US 3 Of UCC act, 1955) Chennai - 600 972, IND/A



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 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date of Introduction of the Course: 11.01.2016

B.Tech Computer Science and Engineering

Introduction To Fuzzy Logic Tool Box

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|------|----|----------|--------------------------------|--|--|--|--|
| S. N | lo | REG.NO | NAME OF THE CANDIDATE | | | | |
| 1 | | U15CS111 | M.YESHWITHA REDDY | | | | |
| 2 | | U15CS112 | MAILE ARUN KUMAR | | | | |
| 3 | | U15CS113 | MAMUNDURU BHARATH KUMAR | | | | |
| 4 | | U15CS114 | MANCHALA ROHITH | | | | |
| 5 | | U15CS115 | MANCHIKANTI RAJITHA | | | | |
| 6 | ; | U15CS117 | MANOJ KUMAR R | | | | |
| 7 | 7 | U15CS118 | MANUGUNTA BHARGAVI | | | | |
| 8 | 3 | U15CS119 | MARRIBOYINA GOVARDHAN YADAV | | | | |
| 9 | 9 | U15CS120 | MARRIPUDI KRISHNA CHAITANYA | | | | |
| 1 | 0 | U15CS121 | MD MINHAZ RAZA HASHMI | | | | |
| 1 | 1 | U15CS122 | MOHAMED SAJEEN N | | | | |
| | 12 | U15CS123 | MOHAMMAD ASLAM SHAREEF | | | | |
| | 13 | U15CS124 | MOHANKUMAR J | | | | |
| | 14 | U15CS125 | MOLAPANTI SIVA KALPANA | | | | |
| | 15 | U15CS126 | MOORABOINA NARESH | | | | |
| | 16 | U15CS127 | MUPPALLA SURENDRA | | | | |
| | 17 | U15CS128 | MURARI KUMAR CHAUDHARY | | | | |
| Γ | 18 | U15CS129 | N SWAPNA RAAGA | | | | |
| | 19 | U15CS130 | NAGANNAGARI JAGADISH | | | | |
| | 20 | U15CS132 | NALLANALLI SATYA SANDEEP KUMAR | | | | |
| | 21 | U15CS133 | NALLURI AKHIL BABU | | | | |
| Γ | 22 | U15CS134 | NAMBURI VIJAY KUMAR | | | | |
| Γ | 23 | U15CS135 | NARENDULA NIREESHA | | | | |
| Γ | 24 | U15CS136 | NARESH K | | | | |
| Γ | 25 | U15CS137 | NEDUNURI NAGA SAI SURYA SUJITH | | | | |
| Γ | 26 | U15CS138 | NEELA SAI KUMAR | | | | |
| | 27 | U15CS139 | NIKHIL KUMAR | | | | |
| Γ | 28 | U15CS140 | NIRANJAN S | | | | |
| | 29 | U15CS141 | NITIN SINGH | | | | |
| | 30 | U15CS142 | NUKALA BHODANANDA CHARAN | | | | |
| | 31 | U15CS143 | OLIVER S | | | | |
| | 32 | U15CS144 | OMPRAKASH YADAV | | | | |
| | 33 | U15CS145 | PADMAVATY V | | | | |

| 34 | U15CS147 | PALEPU SIVA MANIKANTA CHARI |
|----|----------|--|
| 35 | U15CS148 | PARTHIBAN S |
| 36 | U15CS174 | RAMACHANDRAN J |
| 37 | U15CS175 | RAMIREDDY LAKSHMAN AJAY |
| 38 | U15CS176 | RAMIREDDY SURENDRA REDDY |
| 39 | U15CS177 | RANGISETTY KARTHIK |
| 40 | U15CS178 | RAPARTHY SAI KIRAN |
| 41 | U15CS179 | RAVANAM CHAITANYA ARAVIND VISHNU VARDHAN |
| 42 | U15CS180 | RAVURI SRIKANTH |
| 43 | U15CS181 | RESHMA A |
| 44 | U15CS182 | RICHARD WMVRAND J |
| 45 | U15CS183 | S. PUNITHA |

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B.Sund COURSE CO-ORDINATOR

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

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HEAD OF DEPARTMENT Department Of Computer Science & Engg.. Bharath Institute Of Higher Education & Research (Declared as Deemed to be University UIS 3 Of UDC Act, 1956) Chennel - 600 070, MOTA

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HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Computer Science & Endligh Bharath Institute Of Higher Education & Resparelt (Declared as Deemed to be University U/S 3 Of UGC Act, 1956) Chennal - 660 0.13, DIDIA







CERTIFICATE OF PARTICIPATION



Ms. S.PUNITHA

For actively participating in the value added course "Introduction To Fuzzy Logic Tool Box" Conducted by School of Computing, BIHER from 10-12-2015 to 19-12-2015

Course Coordinator BSuch

Head of the Department

Director

CERTIFICATE COURSE ON Training on Introduction to Fuzzy Logic-

<u>Tool Box</u>

Introduction of the Course: 11.01.2016



B.Sui

Course Coordinator

Head of the Department

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

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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m 3 of UGC Act 1956)

Requisition Letter

Date:02.03.2016

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 "Certificate Course on CRS Amadeus" -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 "Certificate Course on CRS Amadeus" in our campus premises on 14.03.2016, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

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

HEAD OF DEPARTMENT



CIRCULAR

10.03.2016

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on Certificate Course on CRS Amadeus for the benefit of students. This course is scheduled from 14.03.2016 which includes theory and practical. 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.Rajabhushanam | Professor | | |
| 2 | Mr.G Michael | Assistant Professor | | |

Head of 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 Add. 307 Chennai - 600 073, INDIA

To

Copy to CSE

Copy to IT



CERTIFICATE COURSE ON ON CRS AMADEUS

Date of Introduction of the Course: 28.03.2016

COURSE SYLLABUS

1. Mathematical Basics 1

Introduction to Machine Learning, Linear Algebra

2. Mathematical Basics 2

Describes about Probability and its basic.

3. Computational Basics

Explains Numerical computation and optimization, Introduction to Machine Learning packages

4. Linear and Logistic Regression

Describes about Bias/Variance Tradeo, Regularization, Variants of Gradient Descent, MLE, MAP, Applications

5. Neural Networks

Describes about Multilayer Perceptron, Backpropagation, Applications

6. Convolutional Neural Networks 1

Explains CNN Operations, CNN architectures

7. Convolutional Neural Networks 2

Explains Training, Transfer Learning, Applications

8. Recurrent Neural Networks

Explains RNN, LSTM, GRU, Applications

9. Classical Techniques 1

Describes about Bayesian Regression, Binary Trees, Random Forests, SVM, Naïve Bayes, Applications

COURSE OBJECTIVES

This course helps to understand Functional programming is an elegant, concise and powerful programming paradigm. This style encourages breaking up programming tasks into logical units that can be easily translated into provably correct code. Haskell brings together the best features of functional programming and is increasingly being used in the industry, both for building rapid prototypes and for actual deployment.

Course Coordinator

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, Chennai - 600 073, INDIA



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

CERTIFICATE COURSE ON CRS AMADEUS

Date of Introduction of the Course: 28.03.2016

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

CLASS DATE TOPIC 14.3.2016 1. Mathematical Basics 1 1, Introduction to Machine Learning, Linear Algebra 2. Mathematical Basics 2 2 15.3.2016 Describes about Probability and its basic **3.** Computational Basics 3 16.3.2016 Explains Numerical computation and optimization, Introduction to Machine Learning packages 4. Linear and Logistic Regression 17.3.2016 4 Describes about Bias/Variance Tradeo, Regularization, Variants of Gradient Descent, MLE, MAP, Applications 5. Neural Networks 5 18.3.2016 Describes about Multilayer Perceptron, Backpropagation, Applications 6 19.3.2016 6. Convolutional Neural Networks 1 Explains CNN Operations, CNN architectures 7. Convolutional Neural Networks 2 7 21.3.2016 Explains Training, Transfer Learning, Applications 8. Recurrent Neural Networks 22.3.2016 8 Explains RNN, LSTM, GRU, Applications 9. Classical Techniques 1 9 23.3.2016 Describes about Bayesian Regression, Binary Trees, Random Forests, SVM, Naïve Bayes, Applications

Time Table & Lesson plan

Course Coordinator

HOD

Bharath Institute of Science and Technology Department of Computer Science and Engineering

School of Computing

Certificate Course on CRS Amadeus Registered Students Name List

| S.No | RegNo | Student Name | |
|------|----------|--------------------------------|---|
| 1 | U15CS046 | DOOLIGANTI AKHIL REDDY | _ |
| 2 | U15CS047 | DUPUGUNTLA BHANU SIVA KASINADH | |
| 3 | U15CS048 | GANDLUR REDDY GREESHMA | |
| 4 | U15CS049 | GANESH BAG | |
| 5 | U15CS050 | GANGARAJU RAHUL | |
| 6 | U15CS051 | GANGARAPU UKESH | |
| 7 | U15CS052 | GANGU BHAGYA | |
| 8 | U15CS053 | GLADSON J | |
| 9 | U15CS054 | GOLI SUDEEP KRISHNA | |
| 10 | U15CS055 | GOLLAPUDI KALYAN KUMAR | |
| 11 | U15CS056 | GORRE THIRUPATHI REDDY | |
| 12 | U15CS057 | GUJJETI MAHESH | _ |
| 13 | U15CS058 | GUNDA VINAY KUMAR | |
| 14 | U15CS059 | HANUMAN B | _ |
| 15 | U15CS060 | HARI HARAN M | |
| 16 | U15CS061 | HASTHI RUCHITHA | |
| 17 | U15CS062 | HEMA NARAYANAN R | |
| 18 | U15CS063 | INAPARTHI RAGHAVA | |
| 19 | U15CS064 | INJE RAVI TEJA | |
| 20 | U15CS065 | INNURU SWATHI | |
| 21 | U15CS066 | JAGADEESH K | |
| 22 | U15CS067 | JAGADEESWARA RAO JADDU | |
| 23 | U15CS068 | JAICHAND KUMAR | |
| 24 | U15CS069 | JANAKI RAMAN V | |
| 25 | U15CS070 | JHA ABHISHEK AJAY | |
| 26 | U15CS071 | JOHN PARAM JYOTHI JYOTHULA | |
| 27 | U15CS072 | JOTHI R | _ |
| 28 | U15CS073 | K THULASIRAM | |
| 29 | U15CS074 | KADALI VINAY NARASIMHA | |
| 30 | U15CS075 | KADUMU MOUNIKA | |
| 31 | U15CS076 | KAIPU PRANAY REDDY | |
| 32 | U15CS077 | KALYANAM JASWANTH NAIDU | |
| 33 | U15CS078 | KAMBLE NIKHIL KUMAR | _ |
| 34 | U15CS079 | KANCHARLAPALLI LOKESHWAR RAO | |
| 35 | U15CS080 | KANCHUMARTHI BHUVANESWAR VINAY | |

Course Coordinator

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 science) Chennal - 800 073, INDIA

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| 3. | Preparation for the course by the student: | | | | | | | | | | |
| | (i) Have done part of this course earlier | | | | | | | | | | |
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| | | (iii) Had to pickup relevant additional topics through concurrent study | | | | | | | | | |
| | (iv) Have no exposure to the background material | | | | | | | | | | |
| | (1V) | Have no exposi | ure to the backg | round material | _ | you | | | | | |
| | The expectations for taking the course by the student are: | | | | | | | | | | |
| ł. | (a) Enhance by skill base in the area of specializations | | | | | | | | | | |
| | | (b) Get exposed to a relevant subject | | | | | | | | | |
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| | | (d) Better Employment Opportunity | | | | | | | | | |
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HEAD OF DEPARTMENT Department Of Computer Science & Engg.. Bharath Institute Of Higher Education & Researc: (Declared as Deemed to be University U/S 3 Of UGC Act, concernantion of the Chennal - 600 073, INDIA

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| 2. | Numbe | er of hours per week | spent or | the cour | rse (Othe | r than lectu | ire hours) | | | | | |
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| 3. | Prepar | ation for the course | by the st | tudent: | | | 12011 | | | | | |
| | (i) | Have done part of this course earlier | | | | | | | | | | |
| | (ii) | Has adequate prior exposure to the prerequisites m | | | | | | | | | | |
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| | (iv) | Have no exposure to the background material | | | | | | | | | | |
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| 4. | The ex | 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 | | | | | | | | | | |
| | (c) | Curiosity | | | | | | | | | | |
| | (d) | Better Employment Opportunity | | | | | | | | | | |
| | (e) | Complete Course r | nts | NO |) | | | | | | | |
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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

| Academic Year | | ar | 2015-20 | 16 | | | | | | | | |
|---------------|-----------|---|-----------------|------------------|-------------|-------------|--------|--------|--------|--|--|--|
| Terr | | | | | | | | | | | | |
| | rse Numl | ber | | | | | | | | | | |
| Cou | rse Title | | Certifica | te Course on CRS | S Amadeus | | | | | | | |
| Nun | iber of C | redits | | | | | | | | | | |
| Тур | e of Cour | se Regular | | Electiv | e | | Add-on | 1 | | | | |
| | | | | | | | | | | | | |
| I. | Inform | nation on the Re | spondent: (Tio | k (√) Appropria | tely) | | | | | | | |
| 1. | Dorco | Percentage of classes attended | | | | | | | | | | |
| 1. | 0-20 | intage of classes a | 20-40 | 40 | (0) | (0.00 | - | 00.100 | / | | | |
| | 0-20 | | 20-40 | 40- | -60 | 60-80 | | 80-100 | (| | | |
| 2. | Numb | er of hours per v | week spent on | the course (Othe | r than lect | ure hours) | | | | | | |
| | 0-2 | | 2-4 | 4-6 | | 6-8 | | 8-10 | 1 | | | |
| | | | | | | | | | | | | |
| 3. | Prepa | ration for the co | urse by the stu | dent: | | | | | | | | |
| | (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 expos | ure to the back | ground material | | .1.0 | | | | | | |
| | 1 | | | | | Fri | | | | | | |
| 4. | - | 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 | | | | | | | | | | |
| | (c) | Curiosity | | | | | | | | | | |
| | (d) | Better Employment Opportunity | | | | | | | | | | |
| | (e) | Complete Course requirements | | | | | | | | | | |
| | (f) | To Improve CGPA | | | | | | | | | | |
| bo | ut the In | structor: Inform | ation on the R | espondent: (Tic | k (√) Appro | priately) | | 1.19 | | | | |
| | | | | A | В | C | D | | Е | | | |
| ι. | Pace of | f the Teaching/lec | ture | C | | | | | | | | |
| | Comm | ent of the Subject | í . | / | 1.10-1 | | | | | | | |
| 3. | Clarity | of expression | | / | - | | | | | | | |
| I. | Level | of preparation | | / | | | | | | | | |
| | Level | of interaction | | 1 | | | | | 19. E. | | | |
| 5. | Access | ibility outside the | class | 1 | 100 | | | | | | | |
| 7. | Others | (please specify | | / | | | | | | | | |
| | | / | | | | | | | | | | |
| | xcellent | B: V | Very Good | C: Good | | D: Satisfac | tory | E: Poo | r | | | |

Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Declared as Deemed to be University U/S 3 Of UGC Act, 1958) Chennal - 600 073, INDIA

<u>CERTIFICATE COURSE ON CRS AMADEUS</u> <u>Introduction of the Course: 28.03.2016</u>



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 USU 2007, 2003) Chennel - 600 073, 2003





Requisition letter

Date: 18.02.2016

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

Sub: Request of permission to conduct a value – added course on "Microsoft Cloud Application"-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 22.02.2016, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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 (Doclared 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. 1956) Selaiyur, Chennai-600 073.



CIRCULAR

20.02.2016

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 22.02.2016 to 03.03.2016 which includes theory and practical. 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. Rajaboosham | Professor |
| 2 | Mr. R. Sridhar | Assistant Proteson |

Head of Department

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

То

Copy to CSE

Copy to IT



CERTIFICATE COURSE ON MICROSOFT CLOUD APPLICATION

Date of Introduction of the Course: 07.03.2016

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.

R. Sriele

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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



CERTIFICATE COURSE ON MICROSOFT COLUD APPLICATION

Date of Introduction of the Course: 07.03.2016

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 | 22-02-2016(FN) | 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 | 23-02-2016 (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 | 24-02-2016(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 | 25-02-2016(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 | 26-02-2016(FN) | 5. Amazon's AWS Identity Management and Security in the Cloud |
| 6,7 | 27-02-2016 (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 | 29-02-2016(FN) | 8. Amazon's Messaging in the Cloud We will review details of AWS Simple Notification and Simple Queuing Service. |
| 9 | 01-03-2016 (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 | 02-03-2016 (FN) | 10. Elastic Load Balancing and Auto Scaling Allow automation of resource manipulation |
|----|--------------------|---|
| 11 | 03-03-2016 (FN) | 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 | 03-03-2016 (FN) | 12. MapReduce 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 MapReduce, and its Java API. Hadoop Distributed File System (HDFS) features. |

R. Srid

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) Chennal - 600 073. INDIA





| | DEP | ARTMENT OF COMPUTER SCIENCE AND ENGINEERING | | | |
|-------|---|---|--|--|--|
| | | Microsoft Cloud Application | | | |
| | IVISCSIDEIVISCSIDENAME OF THE CANDIDATE1UISCSIDIKOTNANI KRISHNA VAMSI2UISCSIDIKISHNA KUMAR YADAV3UISCSIDIKUMMETA SAI VAMSI KRISHNA REDDY4UISCSIDIKUNISETTY JYOTHSNA5UISCSIDILINGAMPELLY SANNITH REDDY6UISCSIDILINGAMPELLY SANNITH REDDY7UISCSIDILINGAMPELLY SANNITH REDDY8UISCSIDIIOHESH WARAN S9UISCSIDIMUTTEJ10UISCSIDIMUTTEJ11UISCSIIIMIDNESH REDDY12UISCSIIIMANUNDURU BHARATH KUMAR13UISCSIIIMANUNDURU BHARATH KUMAR14UISCSIIIMANCHALA ROHITH15UISCSIIIMANCHIKANTI RAJITHA16UISCSIIIMANDI KUMAR R | | | | |
| 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 | | | |
| 19 | U15CS120 | MARRIPUDI KRISHNA CHAITANYA | | | |

| 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.Sviel

COURSE CO-ORDINATOR

HEAD **OFF DEPERTMENT** Ospartment Of Computer Science & Russin, Binarath Institute Of Higher Education (Bicglared as Deemed to be University UIS) Chennal - 600 073, IND

| Acad | emic Year | | 2015-2 | 2016 | | | | | | | |
|------|--|---|--------------|------------------|-------------|---------|--------------|--------|---------|-----|--|
| Term | | | | | | | | | | | |
| Cour | se Number | | | | | | | | | | |
| Cour | se Title | | Micro | soft Cloud Ap | plication | | | | | | |
| Num | ber of Cred | its | | | | | | | | | |
| Туре | of Course | Regular | | Elec | ctive | | | Add-on | | | |
| | | | | | l | | | | | | |
| I. | Informat | tion on the Resp | oondent: (1 | Fick (√) Approp | priately) | | | | | | |
| | | | | | | | | | | | |
| 1. | | ge of classes att | | 1 1 | 40-60 | | 60-80 | 1 | 80-100 | 90 | |
| | 0-20 | | 20-40 | | 40-00 | | 00-80 | | 00 100 | 100 | |
| 2. | Number | of hours per we | ek spent o | on the course (C | Other than | lecture | e hours) | | | | |
| | 0-2 | | 2-4 | | 4-6 | | 6-8 | | 8-10 | | |
| | | I | | 11 | l | | | 4 | | | |
| 3. | - | ion for the cou | - | | | | | | late | | |
| | | Have done part of | | | | | | | No | | |
| | | Has adequate prior exposure to the prerequisites | | | | | | | | | |
| | | Had to pickup relevant additional topics through concurrent study | | | | | | | | | |
| | (iv) | Have no exposu | re to the ba | ckground mater | ial | | | | No | | |
| 4. | The expectations for taking the course by the student are: | | | | | | | | | | |
| | (a) Enhance by skill base in the area of specializations | | | | | | | | | | |
| | (b) | | | | | | | | | | |
| | (c) | | | | | | | | | | |
| | (d) 1 | Better Employm | ent Opport | tunity | | | | | Yes | | |
| | (e) | Complete Cours | e requirem | ents | | | | | Yes | | |
| | | To Improve CGI | | | | | | | Ýes | | |
| Abou | t the Instr | uctor: Informa | tion on the | e Respondent: | (Tick (√) A | Approp | riately) | | | | |
| | | | | A | | B | С | D | | E | |
| 1. | | ne Teaching/lect | ure | \checkmark | | | | | | | |
| 2. | | t of the Subject | | | | | | | | | |
| 3. | | fexpression | | | | | | | | | |
| 4. | 1 | preparation | | | | r | | | | | |
| 5. | | interaction | | V | | | | | | | |
| 6. | | ility outside the | class | \checkmark | 1 | | | | | | |
| 7 | Others (p | lease specify | đ | \checkmark | | | | - | | | |
| 7. | 1 | | P | | | | | | | | |
| | xcellent | B: Ve | ery Good | , / C: Go | bod | | D: Satisfact | ory | E: Poor | r | |

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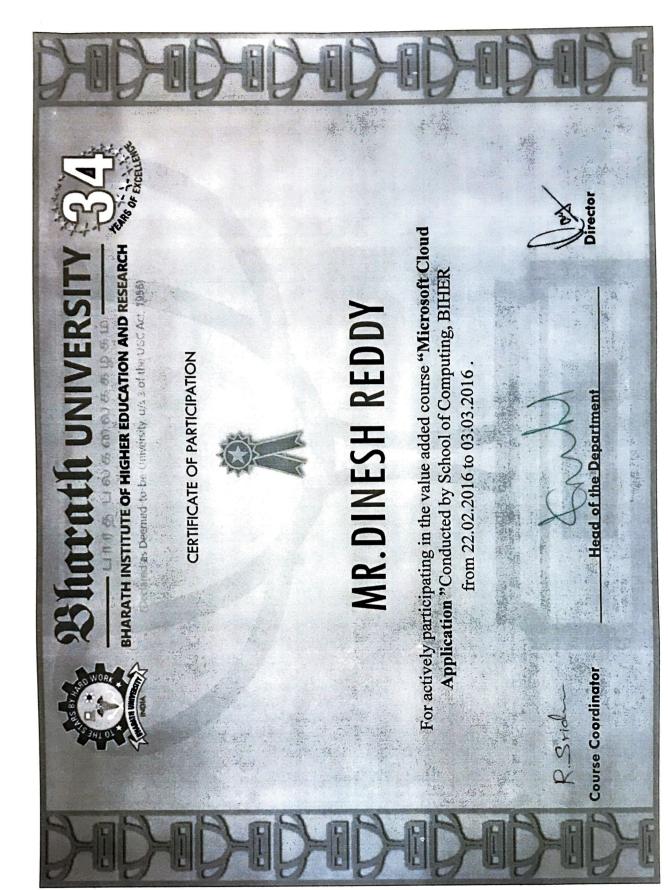
| ade | mic Year | | 2015-20 |)16 | | | | | | | | |
|----------|--------------------------------|--|---------------|------------------------|---------------|--------------|------------|----------|--------|-----|--|--|
| m | | | | | | | | | | | | |
| urs | e Number | | | | | | | | | | | |
| urs | rse Title Microsoft C | | | | Applicatio | n | | | | | | |
| ımt | er of Cre | dits | | | | | | | | | | |
| pe | of Course | Regular | | 1 | Elective | | | Add-on | | | | |
| | | | | | | | | | | | | |
| | Informa | ation on the Res | pondent: (T | ïck (√) App | propriately |) | | | | | | |
| | Percentage of classes attended | | | | | | | | | | | |
| | | age of classes at | | | 40-60 | | 60-80 | | 80-100 | | | |
| | 0-20 | | 20-40 | | 40-00 | | | | | | | |
| _ | Numbe | r of hours per w | eek spent o | n the cours | e (Other th | an lectur | e hours) | | | | | |
| | 0-2 | | 2-4 | | 4-6 | | 6-8 | | 8-10 | 5 | | |
| | L | | | | | | | | | | | |
| | Prepar | ation for the cou | | | | | | | | | | |
| | (i) | Have done part | | | | | | | Yes | | | |
| | (ii) | Has adequate prior exposure to the prerequisites NO Had to pickup relevant additional topics through concurrent study VU | | | | | | | | | | |
| | (iii) | | | | | oncurrent | study | | Yu | | | |
| | (iv) | Have no expos | ure to the ba | he background material | | | | | | | | |
| | Theor | nectations for to | king the co | urse by the | e student ar | e: | | | | | | |
| • | (a) | expectations for taking the course by the student are: Enhance by skill base in the area of specializations | | | | | | | | | | |
| | (a) (b) | Get exposed to a relevant subject Ve | | | | | | | | | | |
| | (b) (c) | Curiosity Yes | | | | | | | | | | |
| | (d) | Better Employ | ment Oppor | tunity | | | | | NO | | | |
| | (u) (e) | Complete Cou | | | | | | | Yes | | | |
| | (f) | To Improve Co | GPA | | | | | | Yes | | | |
| 1b | out the In | structor: Inform | nation on th | e Respond | ent: (Tick (| √) Approj | priately) | | | | | |
| | | | | | A | В | C | I |) | Е | | |
| | Pace of | of the Teaching/le | cture | | \checkmark | | | | | | | |
| 2. | | nent of the Subject | | | | \checkmark | | | | | | |
| 3. | Clarit | y of expression | | | \checkmark | | | | | | | |
| 4. | Level | of preparation | | | \checkmark | | | | | | | |
| 5. | Level | of interaction | | | | \checkmark | | | | | | |
| | | ssibility outside th | ne class | | V | | | | | | | |
| 6. | | s (please specify | | | \mathcal{A} | | | | | | | |
| 6. 7. | Other | - | | | | | | | | | | |
| 7. | Other | | Very Good | T T. | C: Good | | D: Satisfa | actory \ | E: P | oor | | |

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

.

| Ac | ademic Yea | r | 2015-2 | 016 | | | | | | | | |
|----------|---------------|---------------------|---------------|---|---------------|--------------|--------------|--------|---|--|--|--|
| Te | rm | | | | | | | | | | | |
| Co | urse Numbe | r | | | | | | | | | | |
| Co | urse Title | | Micros | oft Cloud App | lication | | | | | | | |
| Nu | mber of Cre | dits | | | | | Add-on | | | | | |
| Ту | e of Course | Regular | | Elect | tive | | Aldu on | V | | | | |
| | | | | | -fatalar) | | | | | | | |
| I. | Informa | tion on the Resp | bondent: (1) | іск (\) Арргорі | natery) | | | | | | | |
| 1. | Percent | age of classes att | ended | | | | | | | | | |
| | 0-20 | | 20-40 | 4 | 40-60 | 60-80 | | 80-100 | N | | | |
| | | | | | | | | | | | | |
| 2. | Number | of hours per we | ek spent on | | | | | 8-10 | | | | |
| | 0-2 | | 2-4 | 4 | 4-6 | 6-8 | \checkmark | 0-10 | | | | |
| | Decourse | tion for the cour | se hy the st | udent: | | | N | 0 | | | | |
| . | | Have done part of | | | | | Ve | | | | | |
| | 1 | Has adequate pri | | | ites | | | U | | | | |
| | (ii) (iii) | Had to nickun re | levant additi | nt additional topics through concurrent study | | | | | | | | |
| | | Have no exposur | | | | | | Jo | | | | |
| | (iv) | lave no exposur | | | | | | | | | | |
| | The expe | ctations for tak | ing the cour | rse by the stude | ent are: | | | | | | | |
| | (a)] | Enhance by skill | base in the a | area of specializ | ations | | Yes | | | | | |
| | | Get exposed to a | relevant sub | ject | | | Yes | | | | | |
| | (c) (| Curiosity | | | | | Yes | | | | | |
| | (d) I | Better Employme | ent Opportur | | | | | | | | | |
| | (e) (| Complete Course | requiremen | juirements Yey | | | | | | | | |
| | (f) 1 | To Improve CGP | 4 | Yes | | | | | | | | |
| bou | t the Instru | uctor: Informat | ion on the H | Respondent: (T | ick (√) Appro | priately) | | | Е | | | |
| | | | | A | B | С | D | | E | | | |
| | Pace of the | e Teaching/lectur | e | | | | | | | | | |
| - | Comment | of the Subject | | | | | | | | | | |
| _ | Clarity of | expression | | | V | | | | | | | |
| - | Level of p | | | | \sim | | | | | | | |
| - | Level of in | | | \checkmark | | | | | | | | |
| - | Accessibil | ity outside the cla | ass | 1 | | | | | | | | |
| | | ease specify | | .1 | | | | | | | | |
| | | | | C: Good | A | D: Satisfact | tom | E: Poo | r | | | |
| | | | y Good | Corcola | 4 1 // | D: Satisfac | LOFY | 12:100 | | | | |

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Declared as Deemed to be University UIS 3 Of UGC Act, 1986) Chennel - 600 073, INDIA



<u>CERTIFICATE COURSE ON MICROSOFT CLOUD APPLICATION</u> <u>Introduction of the Course: 07.03.2016</u>



R. Srich

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 LIGC Act, 1956) Chennai - 600 073. INDIA



Requisition letter

Date: 28.03.2016

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 Windows Application"-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 Windows Application" – reg in our campus premises on 30.03.2016, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE smart class Room

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





CIRCULAR

29.03.2016

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 Windows Application for the benefit of students. This course is scheduled from 30.03.2016 to 09.04.2016 which includes theory and practical. 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. Rajabhushanam | Protemor |
| 2 | Mrs. G. Kavitha | Assistant Professor |
| | | |

Head of 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) Chennal - 600 073, 140

To

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Copy to IT



CERTIFICATE COURSE ON MICROSOFT WINDOWS APPLICATION

Date of Introduction of the Course: 11.04.2016

COURSE SYLLABUS

1. Installing Windows

This module covers installing the Windows client OS. Students will learn the different editions of Windows client, requirements, and new features introduced.

2. Configuring Authorization and Authentication

This module introduces the tools and features of Windows for authorizing access to Windows clients. Students will learn about methods for how users sign-in to Windows.

3. Post Installation Configuration and Personalization

This module covers common post-installation tasks in Windows client. Students will learn how to customize the user interface, as well as using the control panel and settings app to configure common OS settings.

4. Updating Windows

Servicing model and how it applies to various scenarios. Students will learn the various different methods for updating Windows and applications, as well as managing updates using tools like group policy and Windows Update for Business.

5. Configuring Networking

This module will introduce to IPv4 and IPv6, and concepts like DNS. Students will learn how to configure network settings in Windows, as well as learn about wireless network technologies.

6. Configuring Storage

This module covers storage configuration and management in Windows 10. Students will be introduced to local, cloud and virtual storage options.

7. Configuring Data Access and Usage

Students will learn how to configure file and folder permissions as well as shared folders. Students will also learn configuring settings through methods such as local and group policy.

8. Managing Apps in Windows Client

This module will cover the different types of apps and supported installation methods. Students will learn how to install apps using manual and automated methods, as well as manage app delivery using the Windows Store.

9. Configuring Threat Protection and Advanced Security

This module will teach students about using encryption, firewalls, and IPSec to help protect against threats. The module will conclude with how to configure and use Windows Defender and AppLocker.

10. Supporting the Windows Client Environment

This module will also discuss methodologies for effectively troubleshooting issues and how to proactively manage and optimize Windows.

11. Trouble Shooting Flies and Application

This module also includes common methods for troubleshooting application installation issues, compatibility issues, and resolving browser issues.

12. Trouble Shooting Hardware and Drivers

Students will also learn steps for troubleshooting system hardware and external peripherals such as USB drives and printers, including diagnostic methods and remediation.

<u>COURSE OBJECTIVES</u>

To learn and analyse how to managing storage, files, and devices as well as how to configure network connectivity for Windows. Students will also learn how to secure the Windows OS and protect the data on the device. Finally, students will learn how to manage and troubleshoot Windows clients.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding Microsoft application
- 2. Understanding authorization and authentication.
- 3. Analyse updating windows.
- 4. Configuring data access and usage.
- 5. Understanding of trouble shooting and application.
- 6. Understanding of trouble shooting hardware and drivers.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research Bharath Institute Of Higher Education & Research (Declared as Deemed to be University U/S 3 Of UGC Act, 1986) (Declared as Deemed to be University U/S 3 Of UGC Act, 1986) Chennai - 600 073, INDIA



CERTIFICATE COURSE ON MICROSOFT WINDOWS APPLICATION

Date of Introduction of the Course: 11.04.2016

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

<u>Time Table & Lesson plan</u>

| CLASS | DATE | ТОРІС |
|-------|-------------------------|--|
| 1 | 30-03-2016(FN) | 1. Installing Windows This module covers installing the Windows client OS. Students will learn the different editions of Windows client, requirements, and new features introduced. |
| 2 | 31-03-2016 (FN) | 2.Configuring Authorization and Authentication This module introduces the tools and features of Windows for authorizing access to Windows clients. Students will learn about methods for how users sign-in to Windows. |
| 3 | 01-04-2016(FN) | 3.Post Installation Configuration and Personalization This module covers common post-installation tasks in Windows client. Students will learn how to customize the user interface, as well as using the control panel and settings app to configure common OS settings. |
| 4,5 | 02-04-2016(FN) &(AN) | 4. Updating Windows 5. Configuring Networking Servicing model and how it applies to various scenarios. Students will learn the various different methods for updating Windows and applications, as well as managing updates using tools like group policy and Windows Update for Business. |
| 6 | 04-04-2016(FN) | 6. Configuring Storage This module will introduce to IPv4 and IPv6, and concepts like DNS. Students will learn how to configure network settings in Windows, as well as learn about wireless network technologies. |
| 7 | 05-04-2016 (FN) | 7. Configuring Data Access and Usage Students will learn how to configure file and folder permissions as well as shared folders. Students will also learn configuring settings through methods such as local and group policy. |

| 8 | 06-04-2016(FN) | 8. Managing Apps in Windows Client |
|-------|-------------------------|--|
| | | This module will cover the different types of apps and supported installation methods. Students will learn how to install apps using manual and automated methods, as well as manage app delivery using the Windows Store. |
| 9 | 07-04-2016 (FN) | 9. Configuring Threat Protection and Advanced Security This module will teach students about using encryption, firewalls, and IPSec to help protect against threats. The module will conclude with how to configure and use Windows Defender and AppLocker. |
| 10 | 08-04-2016 (FN) | 10. Supporting the Windows Client Environment This module also includes common methods for troubleshooting application installation issues, compatibility issues, and resolving browser issues. |
| 11,12 | 09-04-2016 (FN)&(AN) | 11. Trouble Shooting Hardware and Drivers 12. Trouble Shooting Flies and Application Students will also learn steps for troubleshooting system hardware and external peripherals such as USB drives and printers, including diagnostic methods and remediation. |

Vr COURSE COORDINATOR

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HEAD OF THE DEPARTMENT

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



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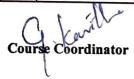
Exact And And Research (Declared as Deemed-to-be University under section 3 of UGC Act, 1956) (Vide Notification No. F.9-5/2000 - U.3, Ministry of Human Resource Development, Govt. of India, dated 4" July 2002)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Microsoft Windows Application

| | B.Tech Computer Science and Engineering (2015-2016) | | | | | | | |
|-------|---|--|--|--|--|--|--|--|
| S. No | REG.NO NAME OF THE CANDIDATE | | | | | | | |
| 1 | U15CS050 | PERABATHULA SUNIL KUMAR | | | | | | |
| 2 | U15CS051 | PERAM ANTONY | | | | | | |
| 3 | U15CS052 | PERAM VENKATA KRISHNA REDDY | | | | | | |
| 4 | U15CS053 | PERURI V S V KRISHNA MOHAN | | | | | | |
| 5 | U15CS054 | POORVISHA M | | | | | | |
| 6 | U15CS055 | PRADEEP YADAV | | | | | | |
| 7 | U15CS056 | PRASAD ABHISHEK KUMAR | | | | | | |
| 8 | U15CS057 | PRASHANT PATHAK | | | | | | |
| 9 | U15CS058 | PRATHI VENKAT RANJITH KUMAR | | | | | | |
| 10 | U15CS059 | PRAVEENA S | | | | | | |
| 11 | U15CS060 | PUJALA NARENDRA BABU | | | | | | |
| 12 | U15CS061 | PULAGAM SAI PRATHAP REDDY | | | | | | |
| 13 | U15CS062 | PULIMUNI HIMAJA | | | | | | |
| 14 | U15CS063 | PULUKURI SASIDHAR | | | | | | |
| 15 | U15CS064 | PUPPALLA SANDEEP KUMAR | | | | | | |
| 16 | U15CS065 | PUTLURI ANURADHA | | | | | | |
| 17 | U15CS066 | R4AVI NARENDRA | | | | | | |
| 18 | U15CS067 | RAGILLA SANTHOSH KUMAR | | | | | | |
| 19 | U15CS068 | RAJULA SREEVANI | | | | | | |
| 20 | U15CS069 | RAKESH RATHI | | | | | | |
| 21 | U15CS070 | RAMACHANDRAN J | | | | | | |
| 22 | U15CS071 | RAMIREDDY LAKSHMAN AJAY | | | | | | |
| 23 | U15CS072 | RAMIREDDY SURENDRA REDDY | | | | | | |
| 24 | U15CS073 | RANGISETTY KARTHIK | | | | | | |
| 25 | U15CS074 | RAPARTHY SAI KIRAN | | | | | | |
| 26 | U15CS075 | RAVANAM CHAITANYA ARAVIND VISHNU VARDHAN | | | | | | |
| 27 | U15CS076 | RAVURI SRIKANTH | | | | | | |
| 28 | U15CS077 | RESHMA A | | | | | | |
| 29 | U15CS078 | RICHARD WMVRAND J | | | | | | |
| 30 | U15CS079 | S. PUNITHA | | | | | | |
| 31 | U15CS080 | S. SAI SHRUTHI | | | | | | |
| 32 | U15CS081 | SADHOLLA PRANAY REDDY | | | | | | |
| 33 | U15CS082 | SAI RAMANA S M | | | | | | |
| 34 | U15CS083 | SANAYAGARI JAYA CHANDRA REDDY | | | | | | |
| 35 | U15CS084 | SANDANAMUDI CHANDRA TEJA | | | | | | |

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|----|----------|---|
| 36 | U15CS085 | SANTHOSH RAJ M |
| 37 | U15CS086 | SATHISH S |
| 38 | U15CS087 | SEETAPATI HEMA SEKHAR |
| 39 | U15CS088 | SESHA SRUJAN B |
| 40 | U15CS089 | SHAIK AFRIDI |
| 41 | U15CS090 | SHAIK SABIR |
| 42 | U15CS091 | SHAIK YASMEEN |
| 43 | U15CS092 | SHARYARAI S |
| 44 | U15CS093 | SHATRUGHAN SUMAN S |
| 45 | U15CS094 | SINGAMALA VENKATA SAI RAVI TEJESWAR REDDY |
| 46 | U15CS095 | SIRI GIRI HAREESH |
| 47 | U15CS096 | SITAROJ SRIKANTH |
| 48 | U15CS097 | SMITHA C.S |
| 49 | U15CS098 | SODISETTY SANDEEP |
| 50 | U15CS099 | SUBASH CHANDRAN V |
| 51 | U15CS100 | SUBHAM RAY |
| 52 | U15CS101 | SUDALAGUNTA GOPI KRISHNA |
| 53 | U15CS102 | SUJEETH KUMAR K |
| 54 | U15CS218 | SWARNA LAKSHMI PRIYANKA |
| 55 | U15CS219 | TAGORE S |
| 56 | U15CS220 | TAKKELLA AJITH CHOWDARY |
| | 10 | |



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HOD HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research Beelared as Deemed to be University U/S 3 Of UGC Act, 1950, Chennal - 600 073, INDIA

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| Num | ber of Cr | edits | | | | | | | | |
| Туре | of Cours | e Regular | | | Electiv | e | | Add-on | | |
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| 2. | Numbe | er of hours per wee | ek spent o | n the cour | rse (Othe | er than lect | ire hours) | | | |
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| | (a) (b) | Enhance by skill base in the area of specializations | | | | | | | | |
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| | | L] | | | | | | HEAD | | DEPARTM |

Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Declared as Deemed to be University UIS 3 Of UGC Act, 1955) Chennal - 609 973, INDIA

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| Term | | | | | | | | | |
| | e Number | | | | | | | | |
| | e Title | | Microsoft V | Windows App | lication | | | | |
| | per of Crea | | | | | | | | |
| Туре | of Course | Regular | | Elective | | | Add-on | | / |
| | | | | | | | | | |
| 1. | Informa | tion on the Respond | dent: (Tick (| (√) Appropriat | ely) | | | | |
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| 1. | Percenta | age of classes attend | led | | | | | | |
| | 0-20 | 20- | 40 | 40- | 60 | 60-80 | | 80-100 | |
| 2. | Number | of hours per week | anant on the | oourse (Other | r than lectu | re hours) | | | |
| . . | 0-2 | 2-4 | | 4-6 | | 6-8 | 1 | 8-10 | |
| | 0-2 | 2-4 | | 4-0 | | 0-0 | | | 1 |
| 3. | Prepara | tion for the course | by the stude | ent: | | | | | |
| | (i) | Have done part of the | - | | | Ч | n | | |
| | (ii) | Has adequate prior | | | 5 | | , N | | |
| | (iii) | Had to pickup relev | - | | | t study | 0 | | |
| | (iv) | Have no exposure to | | | | | Jer . | | |
| | · / | | | | | | 91 | | |
| 4. | The exp | ectations for taking | - | | | | | | |
| | (a) | Enhance by skill ba | se in the area | a of specializati | ons | h | A | | |
| | (b) | Get exposed to a rel | levant subjec | t | | y | \mathcal{N} | | |
| | (c) | Curiosity | | | | | yes | | |
| | (d) | Better Employment | Opportunity | , | | 6 | lo | | |
| | (e) | Complete Course re | equirements | | | y | 5 | | |
| | (f) | To Improve CGPA | | | | v | ٩ | | |
| Abou | it the Inst | ructor: Information | n on the Res | | | | | | |
| | | | | A | В | С | Ľ | | Е |
| 1. | | the Teaching/lecture | | | | | | | |
| 2. | Comme | nt of the Subject | | / | | | | | |
| 3. | Clarity of | of expression | | 1 | | | | | |
| 4. | Level of | f preparation | | / | | | | | |
| 5. | Level of | f interaction | | | | | | | |
| 6. | Accessi | bility outside the clas | SS | | | | | | |
| ••• | Others | (please specify | | / | | | | | |
| 7. | - Culture (| | | | | | | | |
| 7. | Excellent | B: Very | | C: Good | | D: Satisfac | | E: P | oor |

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

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| Ter | m | | 1 | | | | | | | | |
| Co | urse Num | ber | 1 | | | | | | | | |
| Course Title Microsoft Windows Application | | | | | | | | | | | |
| Nu | mber of C | Credits | 1 | | | | | | | | |
| Ту | e of Cour | rse Regular | | Elect | ive | | Add-on | | | | |
| | | | | | | | | | | | |
| I. | Inform | mation on the Respo | ndent: (Tie | ck (√) Appropr | iately) | | | | | | |
| 1. | Percentage of classes attended | | | | | | | | | | |
| 1. | 0-20 | |)-40 | | 0-60 | 60-80 | | 80-100 | | | |
| | 0-20 | | -40 | | 0-00 | 00-80 | | 80-100 | | | |
| 2. | Numb | er of hours per week | spent on | the course (Ot | her than le | cture hours) | | | | | |
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| 3. | | ration for the course | • | | | | ~ | | | | |
| | (i) | Have done part of t | | | | ~ ~ | 0 | | | | |
| | (ii) | Has adequate prior | - | | | C | per la | | | | |
| | (iii) | Had to pickup relev | | - | - | ent study | | | | | |
| | (iv) | Have no exposure t | o the back | ground material | | Y | ク | | | | |
| 1. | The ex | pectations for taking | g the cours | se by the stude | nt are: | 0 | | | | | |
| | (a) | Enhance by skill ba | | | | yes | | | | | |
| | (b) | Get exposed to a re | levant subj | vant subject | | | | | | | |
| | (c) | Curiosity | | | | | | | | | |
| | (d) | Better Employment | Opportuni | Opportunity 7 | | | | | | | |
| | (e) | Complete Course re | quirement | juirements | | | | | | | |
| | (f) | To Improve CGPA | | | | J. | | | | | |
| bo | it the Ins | tructor: Information | n on the R | espondent: (Ti | ck (√) App | ropriately) | <u>.</u> | | | | |
| | | | | A | В | С | D | | Е | | |
| | Pace of | the Teaching/lecture | | | | | | | | | |
| | Comme | nt of the Subject | | | | | | | | | |
| | Clarity of | of expression | | / | | | | | | | |
| | Level of | f preparation | | / | - | | | | | | |
| | | finteraction | | | / | | | | | | |
| • | | bility outside the class | 5 | | | 1 | | | | | |
| • | Others (| please specify | | | | | | | | | |
| | cellent | B: Very | Good | C: Good | | D: Satisfact | ory | E: Poor | . 1 | | |
| : F | | | | / | 1 | 1 | | . N | - I | | |

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



CERTIFICATE COURSE ON MICROSOFT WINDOWS APPLICATION Introduction of the Course: 11.04.2016



Course Coordinator

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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) Chennal - 600 073. INDIA



Requisition Letter

Date:31.03.2016

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

.173, Ast

То PRO VICE CHANCELLOR, Bharath Institute of Higher Education and Research, Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "BUILDING WEB **APPLICATIONS IN PHP"-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 "BUILDING WEB APPLICATIONS IN PHP" in our campus premises from 6.04.2016, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

Timing : 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN) and Saturday (FN&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 UIS 3 Of UGC Act, 1953) Chennai - 600 073. INDIA





CIRCULAR

2.04.2016

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of BUILDING WEB APPLICATIONS IN PHP** for the benefit of students. This course is scheduled from 6.04..2016 to 16.04.2016 which includes theory and practical. 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. Raya bhushana | Professor |
| 2 | NS. N. Prilya | Assistant Professor |

Head of 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 Astro-Chennai - 600 073, INDIA

То

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CERTIFICATE COURSE ON BUILDING WEB APPLICATIONS IN PHP

Date of Introduction of the Course: 9.05.2016

COURSE SYLLABUS

1. Introduction of Web applications in PHP

To learn and analyse Web applications that use a combination of server-side scripts (PHP and ASP) to handle the storage and retrieval of the information, and client-side scripts (JavaScript and HTML) to present information to users.

2. Web applications in PHP Fundamentals -1

The web browser or client permits the users to interact with the functions of the web developed with HTML, CSS, and JavaScript.

3. Introduction to Dynamic Web Content

It is the basic structure of a web application and how a web browser interacts with a web server. We explore the Request-Response Cycle that is the basis of the Hypertext Transfer Protocol (HTTP).

4. HyperText Markup Language (HTML)

HTML cover the basics of the HyperText Markup Language (HTML) that is the markup for web pages.

5. Cascading Style Sheets (CSS)

Describes effectively, and in context with basics of cascading Style Sheets (CSS) that allow us to style the markup for web pages.

6. Installing PHP and SQL

The task is to work through the installation steps including installing a text editor, installing MAMP or XAMPP (or equivalent), creating a MySql Database, and writing a PHP program.

7. Introduction to PHP

Begins learning PHP.

8. PHP Arrays

We learn unique aspects of arrays in the PHP language.

9. PHP Functions

We look at unique aspects of functions in PHP.

10. PHP and HTML Forms

We look at how HTML forms are created and processed in the PHP language.

COURSE OBJECTIVES

Analyze the basic structure of a PHP web application and be able to install and maintain the web server, compile, and run a simple web application and learn how databases work and how to design one, as well as how to use php MyAdmin to work with MySQL.

Specifically, the course has the following objectives:

Students will learn

- 1. Understanding basic PHP programming
- 2. Learning to design and implement simple SQL databases.
- 3. To construct Web Applications that
 - Access simple databases from PHP using dynamically generated SQL.
 - Extract information from foreign websites.
 - Send email to potential users.
 - Perform access control using cookies.
- 4. To describe and evualate the mechanisms behind dynamic websites.

5.To introduce the techniques used for constructing advanced community websites.

COURSE COORDINATOR

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



CERTIFICATE COURSE ON BUILDING WEB APPLICATIONS IN PHP Date of Introduction of the Course: 09.05.2016

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

| nings ure > | | ne Table & Lesson plan |
|-------------|---|---|
| CLASS | DATE | TOPIC |
| 1, | 6-04-2016(FN) | 1. Introduction of Web applications in PHP To learn and analyse Web applications that use a combination of side scripts (PHP and ASP) to handle the storage and retrieve information |
| 2 | 7-04-2016(FN) | 2. Web applications in PHP Fundamentals -1 The web browser or client permits the users to interact with the f of the web developed with HTML, CSS, and JavaScript. |
| 3 | 8-04-2016 (FN) | 3 Introduction to Dynamic Web Content It is the basic structure of a web application and how a web browser interacts with a web server. We explore the Request-Response C that is the basis of the Hypertext Transfer Protocol (HTTP). |
| 4,5 | 9-04-2016 (FN&AN) | 4. Hypertext Markup Language (HTML) HTML cover the basics of the HyperText Markup Language (HTM is the markup for web pages. |
| 6 | 11-04-2016 (FN) | 5 Cascading Style Sheets (CSS) Describes effectively, and in context with basics of cascading Sheets (CSS) that allow us to style the markup for web pages. |
| 7 | 12-04-2016 (FN) | 6. Installing PHP and SQL The task is to work through the installation steps in installing a text editor, installing MAMP or XAMPP creating a MySQL Database, and writing a PHP program Begins learning PHP |
| 8,9 | 14-04-2016 (FN) & 15-04-2016 (FN) | 8. PHP Arrays We learn unique aspects of arrays in the PHP language |
| 10 | 16-04-2016 (FN) | 9. PHP Functions We look at unique aspects of functions in PHP. |



HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Doclared as Deemed to be University CIS 3 Of UGC Act, 1955) Chennai - 600 073. INDIA



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

BUILDING WEB APPLICATIONS IN PHP

DATE OF INTRODUCTION:09-05-2016

STUDENT NAME LIST

| S. No | REG.NO | NAME OF THECANDIDATE |
|-------|----------|------------------------------|
| 1 | U15CS001 | ABHIJEET KUMAR |
| 2 | U15CS002 | ABHIJIT KUMARGUPTA |
| 3 | U15CS003 | ABHISHEK KUMARSINGH |
| 4 | U15CS004 | ALLU SAI SIVA PRIYANKA NAIDU |
| 5 | U15CS005 | AMBIKE KUMARSINGH |
| 6 | U15CS006 | ANBUMANI S |
| 7 | U15CS007 | ANJAR ALI |
| 8 | U15CS008 | ANKAM MANJUNATH |
| 9 | U15CS009 | ANNADI DHANUSH |
| 10 | U15CS010 | ANNAVARAPU DIVYA |
| 11 | U15CS011 | ANUMOLU YESWANTH |
| 12 | U15CS012 | ARAVAPALLI SIVAVINAYA |
| 13 | U15CS013 | ARAVINDHAN K R |
| 14 | U15CS014 | ARVIND KUMARYADAV |
| 15 | U15CS015 | ARYAN SAHU |
| 16 | U15CS016 | ASHISH AGARWAL |
| 17 | U15CS017 | ASHISH RANJAN |
| 18 | U15CS018 | ATTANTI RAVIKANTH |
| 19 | U15CS019 | BANAVATH SUNIL NAIK |
| 20 | U15CS020 | BANDARU RAMESH |
| 21 | U15CS021 | BATTA SIVA PRASAD |
| 22 | U15CS022 | BHARATH K |
| 23 | U15CS023 | BHARATHI V |
| 24 | U15CS024 | BIKKI KUMAR SHA |
| 25 | U15CS025 | BINGEWAR SAISHARAN |
| 26 | U15CS026 | BIRADAVOLUSUCHARITHA |

| | U15CS027 | BODA AKHIL WESLEY |
|----|----------|--|
| 27 | U15CS028 | BONALA SRIDHAR RAO |
| 28 | U15CS029 | BRYAN STEVEPUSHPARAJ I |
| 29 | U15CS030 | CHAKKA KSHITHIJA |
| 30 | 01505050 | CHAMARTHI |
| 31 | U15CS031 | LAKSHMI NARAYANAAVINASH |
| 32 | U15CS032 | CHANDRA KANTCHOUDHARY |
| 33 | U15CS033 | CHAPPIDI LAKSHMIKANTH REDDY |
| 34 | U15CS034 | CHIDIPOTHU PRATHYUSHA |
| | U15CS035 | CHINTAGINJALA VENKATA SRI SAISRAVYA |
| 35 | | |
| 36 | U15CS036 | CHOWDHARY PRASANNA KUMAR |
| 37 | U15CS037 | CHUNDI VENKATA SESHASAI RAMANAPATANJALI |
| 38 | U15CS038 | CILLA SAI KISHORE |
| 39 | U15CS039 | D N S HRUDAYBHARADWAJ |
| 40 | U15CS040 | DADAM CHAITHRA |
| 41 | U15CS041 | DEEPAK KUMAR SINGH |
| 42 | U15CS042 | DILLIGANESH V |
| 43 | U15CS043 | DIVAKAR M |
| 44 | U15CS044 | DIVYA VANI T |
| 45 | U15CS045 | DODDI PUJITHA |
| 46 | U15CS046 | DOOLIGANTI AKHILREDDY |
| 47 | U15CS047 | DUPUGUNTLA BHANU SIVA KASINADH |
| 48 | U15CS048 | GANDLUR REDDYGREESHMA |
| 49 | U15CS049 | GANESH BAG |
| 50 | U15CS050 | GANGARAJU RAHUL |
| 51 | U15CS051 | GANGARAPU UKESH |
| 52 | U15CS052 | GANGU BHAGYA |

N.Pr) COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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| | | | , | | | | | | | | | |
|------|--|--|--------------|--|------------|--------------|-----------|--------|--------|------|--|--|
| ade | mic Year | | 2015-201 | 6 | | | | | | | | |
| erm | | | | | | | | | | | | |
| ours | e Number | r | | | | | - i DI ID | | | | | |
| ours | se Title | | BUILDI | NG WEB A | PPLICA | TIONS | IN PHP | | | | | |
| lum | ber of Cre | edits | | | | | | Add-on | | | | |
| уре | of Course | e Regular | | Ele | ctive | | | Add on | | | | |
| | | | 1 | | | | | | | | | |
| ί. | Inform | ation on the Respon | ndent: (Tic | k (√) Approp | priately) | | | | | | | |
| | | | | | | | | | | | | |
| 1. | | tage of classes atten |)-40 | | 40-60 | | 60-80 | | 80-100 | | | |
| | 0-20 | | | | | | | | | | | |
| 2. | Numbe | er of hours per weel | k spent on t | the course (C | Other that | n lecture | e hours) | | 0.10 | | | |
| 2. | 0-2 | | -4 | | 4-6 | | 6-8 | | 8-10 | | | |
| | | | | | | | | | | | | |
| 3. | Prepar | ation for the course | | | | | | 100 | | | | |
| | (i) | Have done part of | | | | | | Yes_ | | | | |
| | (ii) | Has adequate prio | r exposure 1 | to the prerequ | lisites | nourrent | study | Yes | | | | |
| | (iii) | | | ant additional topics through concurrent study Yes | | | | | | | | |
| | (iv) | Have no exposure to the background material γe^s | | | | | | | | | | |
| | Theory | montations for taki | ng the cour | se by the stu | ident are | : | | | | | | |
| 4. | The expectations for taking the course by the student are:(a)Enhance by skill base in the area of specializationsN O | | | | | | | | | | | |
| | (a) (b) | Get exposed to a | | | | | | No | | | | |
| | (0) (c) | Curiosity | | No | | | | | | | | |
| | (d) | Better Employme | nt Opportu | nity | | | | ye | | | | |
| | (u) (e) | Complete Course | | | | | | N | | | | |
| | (f) | To Improve CGP | | | | | | r | 6 | | | |
| Abo | ut the Ins | structor: Informati | on on the l | Respondent: | (Tick (V |) Approp | riately) | | | | | |
| | out the m | | | A | | В | C | I |) | Е | | |
| 1. | Pace of | f the Teaching/lectu | re | | | V | | | | | | |
| 2. | | ent of the Subject | | | | ~ | | | | | | |
| 3. | | of expression | | | | \checkmark | | | | | | |
| 4. | | of preparation | | | - | | | | | | | |
| 5. | | of interaction | | | | | | | | • | | |
| | A 2000 | sibility outside the c | lass | ~ | | | | | | | | |
| 6. | Acces | | | | | | | | | | | |
| | | s (please specify | | | | | | | | | | |
| 6. | | s (please specify | ry Good | | Good | | D: Satisf | | | Poor | | |

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| | lemic Yea | r | 2015-2016 | | | | | | | | |
|-----|------------|---|----------------|----------------|---------------|------------|---------|--------|-----|--|--|
| ern | 1 | | | | | | | | | | |
| Cou | rse Numb | er | | | | | | | | | |
| Cou | rse Title | | BUILDIN | G WEB APP | PLICATION | NS IN PHP | | | 1 | | |
| Nun | nber of C | redits | | | | | Add-on | | | | |
| Гур | e of Cour | se Regular | | Electi | ve | | Alde on | | | | |
| | | | | | 4-1-2 | | | | | | |
| I. | Inform | nation on the Resp | ondent: (Tick | (√) Appropri | ately) | | | | | | |
| | D | ntage of classes att | ended | | | | | 0 | | | |
| 1. | | | 20-40 | 4 | 0-60 | 60-80 | | 80-100 | | | |
| | 0-20 | | | | | | | | | | |
| 2. | Numb | er of hours per we | ek spent on th | e course (Oth | her than lect | ure hours) | | 8-10 | | | |
| | 0-2 | | 2-4 | | -6 | 6-8 | | 8-10 | V | | |
| | 1 | | | | | | | | | | |
| 3. | | ration for the cour | | | | | . Yes | | | | |
| | (i) | Have done part of | | | tes | | | | | | |
| | (ii) | Has adequate prior exposure to the prerequisites No | | | | | | | | | |
| | (iii) | Had to pickup relevant additional topics through concurrent study | | | | | | | | | |
| | (iv) | Have no exposure to the background material | | | | | | | | | |
| 4. | Thee | vnectations for tal | ing the course | e by the stude | nt are: | | | | | | |
| ч. | (a) | expectations for taking the course by the student are: Enhance by skill base in the area of specializations | | | | | | | | | |
| | (b) | Get exposed to a relevant subject Yes | | | | | | | | | |
| | (c) | Curiosity NO | | | | | | | | | |
| | (d) | Better Employm | ent Opportunit | ty | | | yes | | | | |
| | (e) | Complete Cours | | | | | NO | | | | |
| | (f) | To Improve CGPA | | | | | | | | | |
| Ab | out the In | structor: Informa | tion on the Re | spondent: (T | ick (√) Appr | opriately) | | | | | |
| | | | | A | B | С | D | | E | | |
| 1. | Pace of | of the Teaching/lect | ure | | | | | | | | |
| 2. | | nent of the Subject | | | | | | | | | |
| 3. | 1 | y of expression | | \checkmark | | | | | | | |
| 4. | | of preparation | | / | | | | | | | |
| 5. | Level | of interaction | | \sim | | | | | | | |
| 6. | Acces | sibility outside the | class | \checkmark | | | | | | | |
| 7. | Other | s (please specify | | | | | Ì | | | | |
| | | / | | | | D: Satisfa | ctory | E: Po | oor | | |
| | The Illend | B: V | ery Good | C: Goo | bd | D: Satista | icitory | 2 | | | |
| A: | Excellent | | | | | | | | | | |

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| Acade | emic Year | r | 2015-2010 | 5 | | | | | | |
|-------|---|---|--------------|---------------|--------------|-------------|--------|--------|---|--|
| Term | | | | | | | | | | |
| | se Numbe | | | | | | | | | |
| | se Title | | BUILDIN | IG WEB AP | PLICATIO | NS IN PHP | | | | |
| _ | ber of Cro | adita | Deileza | | | | | | 1 | |
| | | | | Elect | ive | | Add-on | | | |
| ype | of Cours | e Regula | | | | | | | | |
| | Inform | etion on the Respon | dent: (Tick | (√) Appropr | iately) | | | | | |
| | Information on the Respondent: (Tick (1) Appropriately) | | | | | | | | | |
| 1. | Percent | tage of classes atten | ded | | | 6.00 | | 80-100 | | |
| | 0-20 | 20 | -40 | 4 | 10-60 | 60-80 | | 80-100 | - | |
| | | | 4 4 | | har than lee | ture hours) | | - | | |
| 2. | | er of hours per week | | | 1-6 | 6-8 | | 8-10 | | |
| | 0-2 | 2- | 4 | - | | | | | | |
| 3. | Prenar | ation for the course | by the stud | lent: | | | | | | |
| • | (i) | Have done part of t | | | | No |) | | | |
| | (i) (ii) | | | | ites | | | | | |
| | (ii) | Has adequate prior exposure to the prerequisites No Had to pickup relevant additional topics through concurrent study Yes | | | | | | | | |
| | (iv) | | | | | | | | | |
| | | | | | | | | | | |
| ł. | The ex | pectations for takin | | | | | | | | |
| | (a) | | | | | | | | | |
| | (b) | Get exposed to a re | elevant subj | ect | | | cs | | | |
| | (c) | Curiosity | Yes | | | | | | | |
| | (d) | Better Employmen | t Opportuni | ty | | r | SO | | | |
| | (e) | Complete Course r | equirements | 5 | | | NO | | | |
| | (f) | To Improve CGPA | | | | | 20 | | | |
| Abo | ut the Ins | structor: Informatio | n on the Re | espondent: (T | ick (√) App | | | | | |
| | | | | A | B | C | D | | Е | |
| 1. | Pace of | f the Teaching/lecture | ; | ~ | | | | | | |
| 2. | Comme | ent of the Subject | | \sim | | | | | | |
| 3. | Clarity | of expression | | \sim | | | | | | |
| 4. | Level o | of preparation | | \checkmark | | | | | | |
| 5. | Level o | of interaction | | \checkmark | | | | | | |
| 6. | Access | ibility outside the cla | SS | | | | | | | |
| | Others | (please specify | | | | | | | | |
| 7. | | | | | | | | | | |
| 7. | xcellent | B: Very | | C: Goo | | D: Satisfa | | E: Po | | |

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Research (Declared as Deemed to be University UIS 3 Of UGC Act, 1958) Chennai - 600 073, INDIA



Bhatath UNIVERSITY

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH (Declared as Deemed-to-be-University, u/s 3 of the UGC Act, 1956)

CERTIFICATE OF PARTICIPATION



Ms.BHARATHI.V

APPLICATIONS IN PHP "conducted by School of Computing, BIHER For actively participating in the value added course "BUILDING WEB

from 6-4-2016 to 16-4-2016.



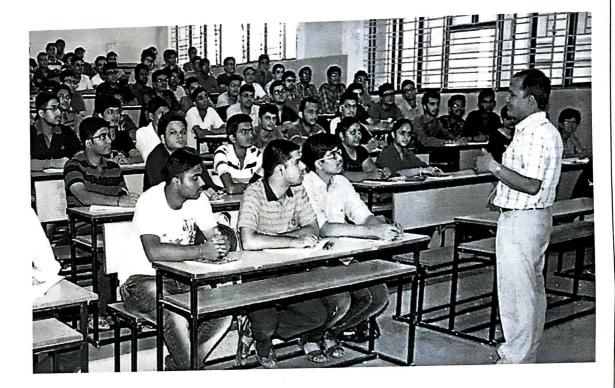
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Head of the D

Course Coordinator

CERTIFICATE COURSE ON BUILDING WEB APPLICATIONS IN PHP

Introduction of the Course: 9.05.2016



5 **Course Coordinator**

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Head of the Department

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



No.373, Agharam Road, Selaiyur, Chennel , T.N. - 400 073.

Requisition Letter

Date:31.03.2016

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

To PRO VICE CHANCELLOR, Bharath Institute of Higher Education and Research, Chennai

Respected sir

Subject: Request of Permission to conduct a value-added course on "RECENT TRENDS IN BIG DATA ANALYTICS"-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 "RECENT TRENDS IN BIG DATA ANALYTICS" in our campus premises from 6.04.2016, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: CSE Smart Room

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

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

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





CIRCULAR

2.04.2016

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of RECENT TRENDS IN BIG DATA ANALYTICS** for the benefit of students. This course is scheduled from 6.04.2016 to 17.04.2016 which includes theory and practical. 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. Nolini | Professor |
| 2 | Ma. Soni Gowtham | Assistant Professor |

Head of Department

То

Copy to CSE

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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, 1955) Chennal - 600 073. INDIA



CERTIFICATE COURSE ON RECENT TRENDS IN BIG DATA ANALYTICS

Date of Introduction of the Course: 9.05.2016

COURSE SYLLABUS

1. Introduction to Big data

To learn and analyse Big Data which is a collection of data that is huge in volume, yet growing exponentially with time.

2. Understanding Big Data Storage

Demonstrates a conceptual understanding of collection and management of large datasets.

3. Introduction to HDFS Architecture

HDFS is a distributed file system that handles large data sets running on commodity hardware.

4. Map Reduce Programming Model

Map Reduce is a programming model for processing large data sets with a parallel, distributed algorithm on a cluster. Introduction to Map Reduce Programming Model.

5. Advanced Analytical Theory and Methods

Describes effectively, and in context with Advanced analytic techniques include those such as data/text mining, machine learning, pattern matching, forecasting, visualization, semantic analysis, sentiment analysis, network and cluster analysis, multivariate statistics, graph analysis, simulation, complex event processing, neural networks.

6. Overview of Clustering and Classification

Understanding clustering and classification techniques.

7. Association rules

Association rule mining, at a basic level, involves the use of machine learning models to analyze data for patterns, or co-occurrences, in a database.

8. Introduction to Recommendation system

A recommender system is a type of information filtering system.

9. Introduction to Stream concepts

Big data streaming is a process in which big data is quickly processed in order to extract real-time insights from it.

10. NOSQL DATA MANAGEMENT FORBIGDATA

NoSQL is a better choice for businesses whose data workloads are more geared toward the rapid processing and analyzing of vast amounts of varied and unstructured data, aka Big Data

11. Visualization

Data visualization is the graphical representation of information and data

COURSE OBJECTIVES

To learn and analyse and visualize the process of inspecting, cleansing, transforming, and modelling data with the goal of discovering useful information, informing conclusions, and supporting decision-making.

Specifically, the course has the following objectives:

Students will learn

- 1. To study the basic technologies that forms the foundations of Big Data.
- 2. To study the programming aspects of cloud computing with a view to rapid prototyping of complex applications.
- 3. To understand the specialized aspects of big data including big data application, and big dataanalytics.
- 4. To study different types Case studies on the current research and applications of the Hadoop and big data in industry.

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

HEAD OF DEPARTMENT Department Of Computer Science & Engg., Bharath Institute Of Higher Education & Rcsearch (Doclared as Deemed to be University U/S 3 Of UGC Act, 1955) Chennal - 600 073. INDIA



CERTIFICATE COURSE ON RECENT TRENDS IN BIG DATA ANALYTICS

Date of Introduction of the Course: 09.05.2016

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

<u>Time Table & Lesson plan</u>

| CLASS | DATE | ΤΟΡΙϹ |
|-------|-----------------------|---|
| 1 | 6-04-2016(FN) | 1.Introduction to Big data To learn and analyse Big Data which is a collection of data that is huge in volume, yet growing exponentially with time. |
| 2 | 7-04-2016 (FN) | 2. Understanding Big Data Storage Demonstrates a conceptual understanding of collectionand management of large datasets. |
| 3 | 8-04-2016 (FN) | 3. Introduction to HDFS Architecture is a distributed file system that handles large datasets running on commodity hardware. |
| 4,5 | 9-4-2016 (FN & AN) | 4. Map Reduce Programming Model Map Reduce is a programming model for processing large data sets with a parallel, distributed algorithm on a cluster. Introduction to Map Reduce Programming Model. |
| 6 | 11-04-2016 (FN) | 5. Advanced Analytical Theory and Methods Describes effectively, and in context with Advanced analytic techniques include those such as data/text mining, machine ext |
| 7 | 12-04-2016 (FN) | 6. Overview of Clustering and Classification . Understanding clustering and classification |

| 8 | 13-04-2016 (FN) | 7. Association rules Association rule mining, at a basic level, involves the use of machine learning models to analyze data for patterns, or co-occurrences, in a database. |
|--------|-------------------------|--|
| 9 | 14-04-2016 (FN) | 8. Introduction to Recommendation system A recommender system is a type of information filtering system. |
| 10 | 15-04-2016 (FN) | 9. Introduction to Stream concepts Big data streaming is a process in which big data is quickly processed in order to extract real-time insights from it |
| 11, 12 | 16-04-2016 (FN & AN) | 10. NOSQL DATA MANAGEMENT FORBIGDATA NoSQL is a better choice for businesses whose data workloads are more geared toward the rapid processing and analyzing of vast amounts of varied and unstructured data, aka Big Data. |
| 13. | 18-04-2016 (AN) | 11.Visualization Data visualization is the graphical representation of information and data |

Sich - 1 **COURSE COORDINATOR**

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Checkenet Constitute 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)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

RECENT TRENDS IN BIG DATA ANALYTICS

| | | B.Tech Computer Science and Engineering (2015-2016) |
|----------|----------|---|
| S. No | REG.NO | NAME OF THE CANDIDATE |
| 1 | U15CS001 | ABHIJEET KUMAR |
| 2 | U15CS002 | ABHIJIT KUMAR GUPTA |
| 3 | U15CS003 | ABHISHEK KUMAR SINGH |
| 4 | U15CS004 | ALLU SAI SIVA PRIYANKA NAIDU |
| 5 | U15CS005 | AMBIKE KUMAR SINGH |
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| 7 | U15CS007 | ANJAR ALI |
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| 9 | U15CS009 | ANNADI DHANUSH |
| 10 | U15CS010 | ANNAVARAPU DIVYA |
| 11 | U15CS011 | ANUMOLU YESWANTH |
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| 21 | U15CS021 | BATTA SIVA PRASAD |
| 22 | U15CS022 | BHARATH K |
| 23 | U15CS023 | BHARATHI V |
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| 25 | U15CS025 | BINGEWAR |
| 26 | U15CS026 | BIRADAVOLU SUCHARITHA |
| 27 | U15CS027 | BODA AKHIL WESLEY |
| 28 | U15CS028 | BONALA SRIDHAR RAO |
| 29 | U15CS029 | BRYAN STEVE PUSHPARAJ I |
| 30 | U15CS030 | CHAKKA KSHITHIJA |

| 31 | U15CS031 | CHAMARTHI LAKSHMI NARAYANA AVINASH |
|----|----------|---|
| 32 | U15CS032 | CHANDRA KANT CHOUDHARY |
| 33 | U15CS033 | CHAPPIDI LAKSHMIKANTH REDDY |
| 34 | U15CS034 | CHIDIPOTHU PRATHYUSHA |
| 35 | U15CS035 | CHINTAGINJALA VENKATA SRI SAI SRAVYA |
| 36 | U15CS036 | CHOWDHARY PRASANNA KUMAR |
| 37 | U15CS037 | CHUNDI VENKATA SESHASAI RAMANAPATANJALI |
| 38 | U15CS038 | CILLA SAI KISHORE |
| 39 | U15CS039 | D N S HRUDAY BHARADWAJ |
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| 42 | U15CS042 | DILLIGANESH V. |
| 43 | U15CS043 | DIVAKAR M |
| 44 | U15CS044 | DIVYA VANI T |
| 45 | U15CS045 | DODDI PUJITHA |
| 46 | U15CS046 | DOOLIGANTI AKHIL REDDY |

COURSE CO-ORDINATOR

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| Acad | lemic Yea | r | 2015-201 | 6 | | | | | | |
|------|---|--|------------------|---------------|------------|---------------|--------|-----------|---|--|
| Term | 1 | | | | | | | | | |
| Cour | se Numb | er | | | | | | | | |
| Cour | rse Title | | Recent 7 | Trends In Bi | g Data Ana | lytics | | | | |
| Num | ber of Cr | edits | | | | | | | | |
| Гуре | of Cours | e Regular | | Elect | ive | | Add-on | | / | |
| | | | | | | | | | | |
| | Inform | ation on the Res | pondent: (Tic | k (√) Approp | riately) | | | | | |
| | | | | | | | | | | |
| ١. | | Percentage of | of classes atten | ded | | | | | | |
| | 0-20 | | 20-40 | 4 | 10-60 | 60-80 | | 80-100 | | |
| | Numbe | or of hours per u | coli spont on t | h | | | | | | |
| • | 0-2 | er of hours per w | 2-4 | | | | | | | |
| - | 02 | | 2-4 | | 1-6 | 6-8 | | 8-10 | | |
| | Prepar | ation for the cou | rse by the stu | dent: | | | | | | |
| | (i) | Have done part | of this course e | earlier | No | | | | | |
| | (ii) | Has adequate p | rior exposure to | the prerequis | | | | | | |
| | (iii) Had to pickup relevant additional topics through concurrent study Les | | | | | | | | | |
| | (iv) Have no exposure to the background material No | | | | | | | | | |
| | | | | | | | | | | |
| • | 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 | | | | | | | | |
| | (c) | Curiosity | | | 4 | | | | | |
| | (d) (e) | Better Employn | | - | 4 | es | | | | |
| | | Complete Cours | | 5 | | lon | | | | |
| hou | (f) | To Improve CG | | 1 | L | les | | | | |
| UUU | | tructor: Informa | ation on the R | espondent: (1 | | | | | | |
| | | | | | B | C | D | | Е | |
| | Pace of | the Teaching/lect | ure | - | | | - | | | |
| | Comme | nt of the Subject | | ~ | | | | | | |
| | Clarity | of expression | | ~ | | | | | | |
| | | Level of preparation | | ~ | | | | | | |
| | | Level of interaction | | | | | | | | |
| | | bility outside the | class | ~ | | | | | | |
| | Others (| please specify | | ~ | | | | | | |
| • F. | cellent | R· V | ery Good | C: Goo | 1 | D: Satisfe at | | E.D. | | |
| | | D. Y | | L. 000 | | D: Satisfact | ury | - E: Poor | | |

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| Acad | emic Year | | 2015-2 | 016 | | | | | | | | | |
|--------------|---|--|---------------|-------------------------------------|-------------|-------------|-------------|--------|---|---------|---|--|--|
| Term | | | | | | | | | | | | | |
| Cours | se Numbe | 7 | | | | | | | | | | | |
| Course Title | | | Recen | Recent Trends In Big Data Analytics | | | | | | | | | |
| Num | ber of Cre | dits | | | | | | | | | | | |
| Туре | of Course | Regular | | Elective | | | | Add-on | | | V | | |
| | | | 1 | | | | | | | | | | |
| I. | Inform | ation on the Resp | ondent: (T | Tick (√) / | Appropri | ately) | | | | | | | |
| 1. | 1 | | | | | | | | | | | | |
| | 0.00 | Percentage of | | ended | | | | 0 | | | | | |
| | 0-20 | | 20-40 | | 40 |)-60 | 60-8 | 0 | | 80-100 | - | | |
| 2. | Numbe | r of hours per we | ek spent o | n the co | urse (Oth | er than lec | ture hours) | | | | | | |
| | 0-2 | | 2-4 | | 4- | | 6-8 | | | 8-10 | | | |
| | | | | | | <u> </u> | | | | | | | |
| 3. | Prepara | Preparation for the course by the student: | | | | | | | | | | | |
| | (i) | Have done part of | of this cours | se earlier | 7 | | No | | | | | | |
| | (ii) | Has adequate pri | or exposure | e to the p | orerequisit | es | Yes | | | | | | |
| | (iii) | 16 | | | | | | | | | | | |
| | (iv) Have no exposure to the background material | | | | | | | | | | | | |
| I . | The expectations for taking the course by the student are: | | | | | | | | | | | | |
| | (a) Enhance by skill base in the area of specializations \mathcal{Y}_{es} | | | | | | | | | | | | |
| | (b) | 105 | | | | | | | | | | | |
| | (c) | Yer | | | | | | | | | | | |
| | (d) | Better Employm | ent Opport | unity | | | Yes | | | | | | |
| | (e) | Complete Course | e requireme | ents | | | Yes | | | | | | |
| | (f) | To Improve CGI | PA | | | | Yes | | | • | | | |
| Abou | ut the Ins | tructor: Informa | tion on the | Respor | ndent: (Ti | ck (√) App | L L | | | | | | |
| | | | | | | B | С | | D | | E | | |
| | | | | | | | | | | | | | |
| ۱. | | the Teaching/lect | ure | | | | | | | | | | |
| 2. | | nt of the Subject | | | 1 | | | | | | | | |
| 3. | | of expression | | | | ~ | | | | | | | |
| 4. | | f preparation | | | ~ | | | | | | | | |
| 5. | | finteraction | | | ~ | 1 | | | | | | | |
| 6. | | bility outside the o | class | | | | | | | | | | |
| 7. | Others | please specify | | | | ~ | | | | | | | |
| A: E | xcellent | B: Ve | ery Good | | C: Good | 1 | D: Satisf | actory | 6 | E: Poor | 1 | | |
| | | | - | | | | | | 1 | | | | |

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| cade | mic Year | | 2015-2016 | | | | | | | | | |
|------|---------------|---|----------------|------------------|-------------|--------|-------|--------|---|--|--|--|
| rm | | | | | | | | | | | | |
| | e Number | | | | | | | | | | | |
| | e Title | | Recent Tre | nds In Big Data | Analytics | | | | | | | |
| | er of Cre | dita | | | • | | | | | | | |
| | | | | Elective | | A | dd-on | n | | | | |
| ype | of Course | Regular | | | | | | | | | | |
| | Inform | ation on the Respon | ndent: (Tick (| √) Appropriately | i) | | | | | | | |
| | | Percentage of classes attended | | | | | | | | | | |
| | 0-20 | 20 | 0-40 | 40-60 | | 60-80 | | 80-100 | V | | | |
| | | | | (Other t | han lecture | hours) | | | | | | |
| 2. | | r of hours per wee | | 4-6 | | 6-8 | ~ | 8-10 | | | | |
| | 0-2 | 2 | -4 | 4-0 | | | | | | | | |
| | Prepar | ation for the cours | e by the stude | ent: | | | | | | | | |
| 3. | (i) | Have done part of | | | N | 0 | | | | | | |
| | (ii) | Has adequate prior exposure to the prerequisites | | | | | | | | | | |
| | (iii) | Had to pickup relevant additional topics through concurrent study No | | | | | | | | | | |
| | (iii) (iv) | Have no exposure to the background material Yes | | | | | | | | | | |
| | | | | | | | | | | | | |
| 4. | The ex | 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 | | | | | | | | | | |
| | (c) | Curiosity | | | | NG | | | | | | |
| | (d) | Better Employme | | | | Yes | | | | | | |
| | (e) | Complete Course requirements Yes | | | | | | | | | | |
| | (f) | To Improve CGPA Yes Instructor: Information on the Respondent: (Tick ($$) Appropriately) | | | | | | | | | | |
| Abo | out the Ir | structor: Informa | tion on the Re | espondent: (Tick | (V) Approp | C | | D | Ē | | | |
| | | | | | В | | | | _ | | | |
| 1. | Pace | of the Teaching/lectu | ıre | | | | | | | | | |
| 2. | | nent of the Subject | | ~ | | | | | | | | |
| 3. | Clarit | y of expression | | V | | | | | | | | |
| 4. | Level | of preparation | | 4 | | | | | | | | |
| 5. | | of interaction | | | | | | | | | | |
| 6. | Acce | ssibility outside the | class | | | | | | | | | |
| 7. | | rs (please specify | | | | | | | | | | |
| | | | | | | | | 1 | | | | |



CERTIFICATE COURSE ON RECENT TRENDS IN BIG DATA ANALYTICS Introduction of the Course: 9.05.2016



Sui Sui 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) Chennal - 600 073, INDIA