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

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

Requisition letter

Date: 19.08.2019

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 **"Business Analytics & Text Mininig Modeling using python"**-Reg

With reference to above subject, I would like to bring to your kind notice that , our department interested to organize value added course **"Business Analytics & Text Mininig Modeling using python"**-Reg in our campus premises on 29.08.2019, 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)
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.

Bharath
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CIRCULAR

22.08.2019

The school of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Certificate Course of Business Analytics & Text Mininig Modeling using python** for the benefit of students. This course is scheduled from 29.08.2019 to 09.09.2019 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. A.R. Arunachella	Professor
2	Mr. B. Sundaraj	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, 15.
Chennai - 600 073, INDIA

To

Copy to CSE

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Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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CERTIFICATE COURSE ON BUSINESS ANALYTICS & TEXT MINING MODELLING USING PYTHON

Date of Introduction of the Course: 26.09.2019

COURSE SYLLABUS

1. Introduction

The goal of this first module cover the introductory aspects of this particular course. This courses focused on the data mining aspects where we work with numerical you know data which is highly structured in nature and we apply various statistical data mining and mathematical techniques to solve you know prediction and classification problems.

2. Introductory overview of Text Mining

Describe and explain the key terms in the text mining also has significant potential for academic application and, at least when used in its basic form, benefits from being a relatively straightforward and easy tool to master.

3. Python Basics

Explain the concepts of Python programming language, Development environments. Web and web app development, Security of the web applications.

4. Python for Analytics

Describes the concepts of Python programming and gain in-depth, valuable knowledge in data analytics, machine learning, and data visualization, web scraping, and natural language processing.

5. Built in Capabilities of Python

The topic teaches you the essential concepts of Python programming, and gives you an in-depth knowledge in data analytics, machine learning, data visualization, web scraping, and natural language processing.

6. Numerical Python

Introduce data manipulation and cleaning techniques using the popular python pandas data science library and introduce the abstraction of the Series and Data Frame as the central data structures for data analysis, along with tutorials on how to use functions such as groupby, merge, and pivot tables effectively.

7. Fundamentals of Data Manipulation with Python

Demonstrate the field of data science, review common Python functionality and features which data scientists use.

8. Python pandas

Explain the concepts and that will learn the various features of Python Pandas and how to use them in practice.

9. String and Text Processing

Demonstrate about the string object, so most of the text operations that we would typically like to perform, they can be covered by string objects built-in methods.

10. Data visualization using Python

Discuss about the need to setup Jupyter environment to use matplotlib. So, for that we can run this particular you know magic command matplotlib space notebook %matplotlib space notebook.

11. Text collection and Transformation

Demonstrate the source of text data collection with the document warehouse or databases and for websites using web APIs.

12. Text mining and modelling

Demonstrate the concept of expanding contractions, POS tagging, lemmatization, special character removal, stop word removal and tokenization.

COURSE OBJECTIVES

Objective of this course is to impart knowledge on use of text mining techniques for deriving business intelligence to achieve organizational goals. Use of Python based software platform to build, assess, and compare models based on real datasets and cases with an easy-to-follow learning curve

Specifically, the course has the following objectives:

Students will learn

1.Understand the fundamental terms and concepts of Text mining.

2. Understand the Concepts of python programming

3. Learn the general properties of Text mining and modeling.

4.Basic understanding of Visualization with python

B. Sundary

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH

CERTIFICATE COURSE ON BUSINESS ANALYTICS & TEXT MINING MODELLING USING PYTHON

Date of Introduction of the Course: 26.09.2019

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	29-08-2019 (FN)	1. **Introduction** The goal of this first module cover the introductory aspects of this particular course. This courses focused on the data mining aspects where we work with numerical you know data which is highly structured in nature and we apply various statistical data mining and mathematical techniques to solve you know prediction and classification problems.
2	30-08-2019 (FN)	2. **Introductory overview of Text Mining** Describe and explain the key terms in the text mining also has significant potential for academic application and, at least when used in its basic form, benefits from being a relatively straightforward and easy tool to master.
3	31-08-2019 (FN)	3. **Python Basics** Explain the concepts of Python programming language, Development environments. Web and web app development, Security of the web applications.
4	31-08-2019 (AN)	4. **Python for Analytics** Describes the concepts of Python programming and gain in-depth, valuable knowledge in data analytics, machine learning, and data visualization, web scraping, and natural language processing.
5	02-09-2019	5. **Built in Capabilities of Python**

		(FN)	The topic teaches you the essential concepts of Python programming, and gives you an in-depth knowledge in data analytics, machine learning.
6	03-09-2019 (FN)	**6. Numerical Python** Introduce data manipulation and cleaning techniques using the popular python pandas data science library.	
7	04-09-2019 (FN)	**7. Fundamentals of Data Manipulation with Python** Demonstrate the field of data science, review common Python functionality and features which data scientists use.	
8	05-09-2019 (FN)	**8. Python pandas** Explain the concepts and that will learn the various features of Python Pandas and how to use them in practice	
9	06-09-2019 (FN)	**9. String and Text Processing** Demonstrate about the string object, so most of the text operations that we would typically like to perform, they can be covered by string objects built-in methods.	
10.	07-09-2019 (FN)	**10. Data visualization using Python** Discuss about the need to setup Jupyter environment to use matplotlib. So, for that we can run this particular you know magic command matplotlib space notebook %matplotlib space notebook.	
11	07-09-2019 (AN)	*11.* **Text collection and Transformation** Demonstrate the source of text data collection with the document warehouse or databases and for websites using web APIs.	
12	09-09-2019 (FN)	**12. Text mining and modelling** Demonstrate the concept of expanding contractions, POS tagging, lemmatization, special character removal, stop word removal and tokenization	

B.Sundaraj

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

Bharath
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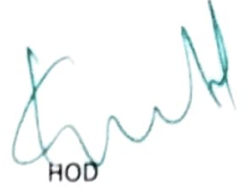| DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING |
|---|
| B.Tech Computer Science and Engineering |
| Academic year 2019-20 |
| Business Analytics & Text Mininig Modeling using python |
| DATE OF INTRODUCTION:26.09.2019 |

S. No	REG.NO	NAME OF THE CANDIDATE
1	U19CB031	UPPALA SAI PRASAD
2	U19CB032	UPPALAPATI PAVAN KUMAR
3	U19CB033	UPPARI SAI RAHUL
4	U19CB034	UPPU SATHISH
5	U19CB035	UPPUTURI AKANKSHA
6	U19CB036	VADDELLI SRIJA
7	U19CB037	VADDI AKASH
8	U19CB038	VADLA SAI BHARGAVA ACHARI
9	U19CB039	VADLA SHRAVAN KUMAR
10	U19CB040	VADLA VENKAT JAYANTH ACHARI
11	U19CB041	VADLAKONDA SAI KIRAN
12	U19CB042	VADLAMUDI ANIL
13	U19CB043	VADLAMUDI MAHESH
14	U19CB044	VAKKALAGADDA BHARGAVI
15	U19CB045	VALLABHASETTI DURGA KALYAN
16	U19CB046	VALLEPU KISHAN SAI
17	U19CB047	VANKAYALAPATI DIVYA NANDHU
18	U19CB048	VANKAYALAPATI SAI KUMAR
19	U19CB049	VANNEMREDDY DINESH
20	U19CB050	VARDHINENI SAI CHARAN
21	U19CB051	VARIKOLLU TEJASSU
22	U19CB052	VASANTHAN SELVAKUMAR
23	U19CB053	VASIREDDY PRASHANTH
24	U19CB054	VATHSAVAYI SAI CHARAN RAJEEV V
25	U19CB055	VATTE ABHINAV REDDY
26	U19CB056	VATTIKUNTA MAHITHA
27	U19CB057	VEERA BOBBY VELUGUBANTLA
28	U19CB058	VEERAKUMAR A
29	U19CB059	VEERAMALLA ABHINAV RAO

30	U19CB060	VEERANKI KRISHNA SAI
31	U19CB061	VEERANKI S RAMA KRISHNA
32	U19CB062	VEERAREDDYGARI BHARATH SIMHA REDDY
33	U19CB063	VEERASAHITHYAN A
34	U19CB064	VELLANKI VENKATA PHANINDRA KUMAR NAIDU
35	U19CB065	VELPULA RISHIKESH
36	U19CB066	VELPURI SUBBARAO
37	U19CB067	VELPURI UPENDRA BABU
38	U19CB068	VELURU NITHISH REDDY
39	U19CB069	VEMAVARAPU SAI RADHESH
40	U19CB070	VEMIREDDY MONIKA
41	U19CB071	VEMIREDDY SAI KRISHNA REDDY
42	U19CB072	VEMIREDDY UPENDRA REDDY
43	U19CB073	VEMPA SURYA PRATHAP
44	U19CB074	VEMULA SAISAMYUKTHA
45	U19CB075	VEMULA SANTHOSH BABU

B. Sundly

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

COURSE FEEDBACK FORM

Academic Year	2019-20			
Term				
Course Number				
Course Title	BUSINESS ANALYTICS & TEXT MININIG MODELING USING PYTHON			
Number of Credits				
Type of Course	Regular		Elective	Add-on ✓

I. Information on the Respondent: (Tick (√) Appropriately)

1. Percentage of classes attended

0-20		20-40		40-60		60-80	✓	80-100	

2. Number of hours per week spent on the course (Other than lecture hours)

0-2		2-4		4-6		6-8		8-10	✓

3. Preparation for the course by the student:

(i)	Have done part of this course earlier	No
(ii)	Has adequate prior exposure to the prerequisites	yes
(iii)	Had to pickup relevant additional topics through concurrent study	No
(iv)	Have no exposure to the background material	yes

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

(a)	Enhance by skill base in the area of specializations	Yes
(b)	Get exposed to a relevant subject	yes
(c)	Curiosity	yes
(d)	Better Employment Opportunity	yes
(e)	Complete Course requirements	yes
(f)	To Improve CGPA	yes

About the Instructor: Information on the Respondent: (Tick (√) Appropriately)

		A	B	C	D	E
1.	Pace of the Teaching/lecture	✓				
2.	Comment of the Subject	✓				
3.	Clarity of expression		✓			
4.	Level of preparation		✓			
5.	Level of interaction	✓				
6.	Accessibility outside the class	✓				
7.	Others (please specify		✓			

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

HEAD OF THE DEPARTMENT

COURSE FEEDBACK FORM

Academic Year	2019-20
Term	
Course Number	
Course Title	BUSINESS ANALYTICS & TEXT MININIG MODELING USING PYTHON
Number of Credits	

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		A	B	C	D	E
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2.	Comment of the Subject	✓				
3.	Clarity of expression		✓			
4.	Level of preparation		✓			
5.	Level of interaction					
6.	Accessibility outside the class	✓				
7.	Others (please specify	✓				

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

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Bharath Institute Of Higher Education & Research
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Chennai - 600 073, INDIA

COURSE FEEDBACK FORM

Academic Year		2019-20			
Term					
Course Number					
Course Title		**BUSINESS ANALYTICS & TEXT MININIG MODELING USING PYTHON**			
Number of Credits					
Type of Course	Regular		Elective	Add-on	✓

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		A	B	C	D	E
1.	Pace of the Teaching/lecture	✓				
2.	Comment of the Subject	✓				
3.	Clarity of expression		✓			
4.	Level of preparation		✓			
5.	Level of interaction	✓				
6.	Accessibility outside the class	✓				
7.	Others (please specify			✓		

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

HEAD OF THE DEPARTMENT

Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

CERTIFICATE OF PARTICIPATION

Mr. VEERAKUMAR A

For actively participating in the value added course **"Business Analytics &
Text Mining Modelling using python "**Conducted by School of Computing,
BIHER

from 29-08-2019 to 09.09.2019 .

B.Sudaj

Course Coordinator

_____

Head of the Department

_____

Director

CERTIFICATE COURSE ON BUSINESS ANALYTICS & TEXT MINING MODELLING USING PYTHON

Introduction of the Course: 26.09.2019

B. Sudhj

Course Coordinator

Head of the Department