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

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

Requisition Letter

Date: 02.12.2020

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"** (online) -Reg

With reference to above subject, I would like to bring to your kind notice that, our department interested to organize value added course on **"Introduction to Fuzzy Logic Tool Box"** in our campus premises on **10.12.2020** students would be participating in this course. We request you kindly to give permission to organize this event.

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

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
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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CIRCULAR

05.12.2020

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 10.12.2020 to 19.12.2020. The timings are 9:30 AM to 12:30 PM (FN) and 1:30 PM to 4:30 PM(AN) and Saturday (FN&AN).

All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO	Name of the Faculty	Designation
1	Dr. G. Michael	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, 1956)
Chennai - 600 073. INDIA

To

Copy to CSE

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

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

B. Saad

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

CERTIFICATE COURSE ON STATISTICS WITH INTRODUCTION TO FUZZY LOGIC TOOL BOX

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	10-12-2020 (FN)	**1. Fuzzy Logic Toolbox Product Description** Key Features, What is Different About Using Fuzzy Logic Toolbox Online.
2	11-12-2020 (FN)	**2. Foundations of Fuzzy Logic** Fuzzy Sets , Membership Functions . Logical Operations . If-Then Rules . Types of Fuzzy Inference Systems .
3,4	12-12-2020 (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	14-12-2020 (FN)	**5. Fuzzy Inference Process** Fuzzify Input , Apply Fuzzy Operator, Apply Implication Method, Aggregate All Outputs, Defuzzify, Fuzzy Inference Diagram .
6	15-12-2020 (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	16-12-2020 (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	17-12-2020 (FN)	**9. Adaptive Neuro-Fuzzy Modeling** Neuro-Adaptive Learning and ANFIS, Comparison of Dnfis and Neuro-Fuzzy Designer Functionality.
9	18-12-2020 (FN)	**10. Data Clustering** Fuzzy Clustering , Cluster Quasi-Random Data Using Fuzzy C-Means Clustering .
10	19-12-2020 (FN)	**11. Deployment** Deploy Fuzzy Inference Systems
11	19-12-2020 (FN)	**12. Compile and Evaluate Fuzzy Systems** Compile and Evaluate Fuzzy Systems on Windows Platforms, Compile and Evaluate Fuzzy Systems on UNIX Platforms

B. Sund

COURSE COORDINATOR

HEAD OF THE DEPARTMENT

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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

B.Tech Computer Science and Engineering

Introduction To Fuzzy Logic Tool Box

S. No	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	U15CS118	MANUGUNTA BHARGAVI
8	U15CS119	MARRIBOYINA GOVARDHAN YADAV
9	U15CS120	MARRIPUDI KRISHNA CHAITANYA
10	U15CS121	MD MINHAZ RAZA HASHMI
11	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
18	U15CS129	N SWAPNA RAAGA
19	U15CS130	NAGANNAGARI JAGADISH
20	U15CS132	NALLANALLI SATYA SANDEEP KUMAR
21	U15CS133	NALLURI AKHIL BABU
22	U15CS134	NAMBURI VIJAY KUMAR
23	U15CS135	NARENDULA NIREESHA
24	U15CS136	NARESH K
25	U15CS137	NEDUNURI NAGA SAI SURYA SUJITH
26	U15CS138	NEELA SAI KUMAR
27	U15CS139	NIKHIL KUMAR
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

B. Sund

COURSE CO-ORDINATOR

HOD

COURSE FEEDBACK FORM

Academic Year		2020-2021						
Term								
Course Number								
Course Title		Introduction To Fuzzy Logic Tool Box						
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	2020-2021			
Term				
Course Number				
Course Title	Introduction To Fuzzy Logic Tool Box			
Number of Credits				
Type of Course	Regular		Elective		Add-on	✓

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

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(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	No

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	2020-2021			
Term				
Course Number				
Course Title	Introduction To Fuzzy Logic Tool Box			
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:**

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(iii)	Had to pickup relevant additional topics through concurrent study	Yes
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(b)	Get exposed to a relevant subject	Yes
(c)	Curiosity	Yes
(d)	Better Employment Opportunity	No
(e)	Complete Course requirements	Yes
(f)	To Improve CGPA	Yes

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

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

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

HEAD OF THE DEPARTMENT

Bharath UNIVERSITY

பாரத் பல்கலைக்கழகம்

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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

34 YEARS OF EXCELLENCE

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 10-12-2020 to 19-12-2020 .

Course Coordinator

Head of the Department

Director