



**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.

### Requisition Letter

Date: 10.01.2019

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

Subject: Request of Permission to conduct a value-added course on **“Applied Natural Language Processing”** -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 **“Applied Natural Language Processing”** in our campus premises on **30.01.2019**, students would be participating in this course. We request you kindly to give permission to organize this event.

Venue: **CSE Smart Room**

Timing 4:00 PM to 5:00 PM.Monday to Friday

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

  
**HOD**

  
**DEAN ENGINEERING**



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## CIRCULAR

25.01.2019

The School of computing, Bharath Institute of Higher Education and Research is planned to conduct a certification value added course on **Applied Natural Language Processing** for the benefit of II, III and IV year students. This course is scheduled from 30.01.2019 for 25hours which includes theory and practical. The timings are 4:00 PM to 5:00 PM from Monday to Friday.

<b>All Registered Students must attend all the classes without fail. The following faculty members are assigned to handle the course. S.NO</b>	<b>Name of the Faculty</b>	<b>Designation</b>
1	Dr.C.Nalini	Professor
2	Dr.C.Rajabhushanam	Professor

**Head of Department**

To

Copy to CSE

Copy to IT



# Sharath

**INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

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**CERTIFICATE COURSE APPLIED NATURAL LANGUAGE PROCESSING**

**Date of Introduction of the Course:30.01.2019**

The timings are

## Time Table& Lesson plan

<b>CLASS</b>	<b>DATE</b>	<b>TOPIC</b>
1,2	30.01.2019, 31.01.2019	1. MODULE 1: Introduction to language processing – tokens, sentences, paragraphs
3,4	1.02.2019, 4.02.2019	2. MODULE 2: Regular expressions - extraction of information using Regex
5,6	5.02.2019 6.02.2019	3.MODULE 3: Document Similarity measures - Cosine and cluster measures
7,8	7.02.2019 8.02.2019	4.MODULE 4: Spelling correction - Edit distance
9,10	11.02.2019 12.02.2019	5.MODULE 5: Information retrieval, extraction
11,12	13.02.2019 14.02.2019	6.MODULE 6: Document Classification, Clustering, topic modelling techniques
13,14	15.02.2019 18.02.2019	7.MODULE 7: Vector Space Model - word vectors, GloVe/Word2Vec model, word embedding

<b>15,16</b>	<b>19.02.2019</b> <b>20.02.2019</b>	<b>8.MODULE 8:</b> Text Classification, Clustering, and Summarization
<b>17,18</b>	<b>21.02.2019</b> <b>22.02.2019</b>	<b>9.MODULE 9:</b> Machine Learning, Perceptron
<b>19,20</b>	<b>25.02.2019</b> <b>26.02.2019</b>	<b>10.MODULE 10:</b> Back Propagation, Recurrent Neural network relevant to NLP
<b>21,22</b>	<b>27.02.2019</b> <b>28.02.2019</b>	<b>11.MODULE 11:</b> Machine Translation, Language Generation
<b>23,24,25</b>	<b>1.03.2019</b> <b>4.03.2019</b> <b>5.03.2019</b>	<b>12.MODULE 12:</b> Applications – Sentiment Analysis, Spam Detection, Resume Mining, AI/stein

*Cheal*

**COURSE COORDINATOR**

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**HEAD OF THE DEPARTMENT**



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## **CERTIFICATE COURSE ON APPLIED NATURAL LANGUAGE PROCESSING**

**Date of Introduction of the Course:30.01.2019**

### **COURSE SYLLABUS**

1. **MODULE 1:**  
Introduction to language processing – tokens, sentences, paragraphs
2. **MODULE 2:**  
Regular expressions - extraction of information using Regex
3. **MODULE 3:**  
Document Similarity measures - Cosine and cluster measures
4. **MODULE 4:**  
Spelling correction - Edit distance
5. **MODULE 5:**  
Information retrieval, extraction
6. **MODULE 6:**  
Document Classification, Clustering, topicmodelling techniques
7. **MODULE 7:**  
Vector Space Model - word vectors, GloVe/Word2Vec model, word embedding
8. **MODULE 8:**  
Text Classification, Clustering, and Summarization
9. **MODULE 9:**  
Machine Learning, Perceptron
10. **MODULE 10:**  
Back Propagation, Recurrent Neural network relevant to NLP
11. **MODULE 11:**  
Machine Translation, Language Generation
12. **MODULE 12:**  
Applications – Sentiment Analysis, Spam Detection, Resume Mining, AInstein

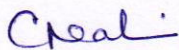
## **COURSE OBJECTIVES**

A major portion of communication now is through text and any organization has more than 90% of its content in the unstructured form. Natural Language Processing (NLP), an important part in Artificial Intelligence, is one of the important technologies that would help in activities such as classification, retrieving and extraction of information, identifying important documents, etc. Students will gather knowledge in the fundamentals of NLP, methods and techniques and gain skills to use them in practical situations.

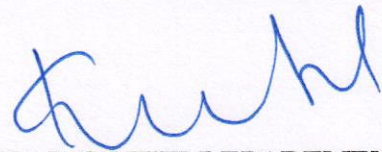
### **Specifically, the course has the following objectives:**

This course will examine the state-of-the-art in applied NLP, with an emphasis on how well the algorithms work and how they can be used (or not) in applications. Today there are many ready-to-use plug-and-play software tools for NLP algorithms. For this reason, this course will emphasize getting facile with quick programs using existing tools. The intended **learning outcomes** are for students to:

- Learn about major NLP issues and solutions
- Become agile with NLP programming
- Be able to asses NLP problems
- Be able to get the gist of relevant research papers



**COURSE COORDINATOR**



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**CERTIFICATE COURSE ON APPLIED NATURAL LANGUAGE PROCESSING**  
**Date of Introduction of the Course: 30.01.2019**

## **School of Computing** **Registered Students Name List**

S.NO	REG.NO	NAME OF THE STUDENT
1	U17CS001	YALAMADDI BHARGAV
2	U17CS002	MAMDARAPU SARTHIK
3	U17CS003	BHUVANESHWARI P
4	U17CS004	PRASANNAKUMAR E
5	U17CS005	MUGUNTHAN A L
6	U17CS081	SHAIK AFREED
7	U17CS082	NIRMALA DEVI S
8	U17CS083	SODUM BHARATH SHIVA REDDY
9	U17CS084	OGUBOINA KIRAN
10	U17CS085	Y BHAVYA
11	U17CS152	JAMMULADINNE RANGA REDDY
12	U17CS153	BANDARU JANARDHAN
13	U17CS154	PASAM ANIL KRISHNA
14	U16CS701	PRADEEP SURIYA
15	U16CS702	MOHANRAJ
16	U16CS100	GALLA BHUCHANDRA
17	U16CS101	NITHISHVAR S
18	U16CS151	PODAPATI ASMITHA
19	U16CS152	NALLAPU RAJESH
20	U16CS707	HANUMANTHU RAO
21	U16CS708	SIMRAN ALIZA NISAR
22	U15CS034	CHIDIPOTHU PRATHYUSHA
23	U15CS035	CHINTAGINJALA VENKATA SRI SAI SRAVYA
24	U15CS087	KARTHEESWARAN P
25	U15CS088	KARTHICK S
26	U15CS180	RAVURI SRIKANTH
27	U15CS182	RICHARD WUMBRAND J
28	U15CS183	S. PUNITHA
29	U15CS184	S. SAI SHRUTHI

30	U15CS185	SADHOLLA PRANAY REDDY
31	U15CS241	RUPESH KUMAR ROY
32	U15CS242	KOTAGIRI SAI CHAND
33	U15CS243	RANDHIR KUMAR
34	U15CS244	RAJESH.D
35	U15CS246	J.SAI RAM MADHAV

*C. S. Reddy*  
**COURSE  
COORDINATOR**

*[Handwritten Signature]*  
**HEAD OF THE DEPARTMENT**



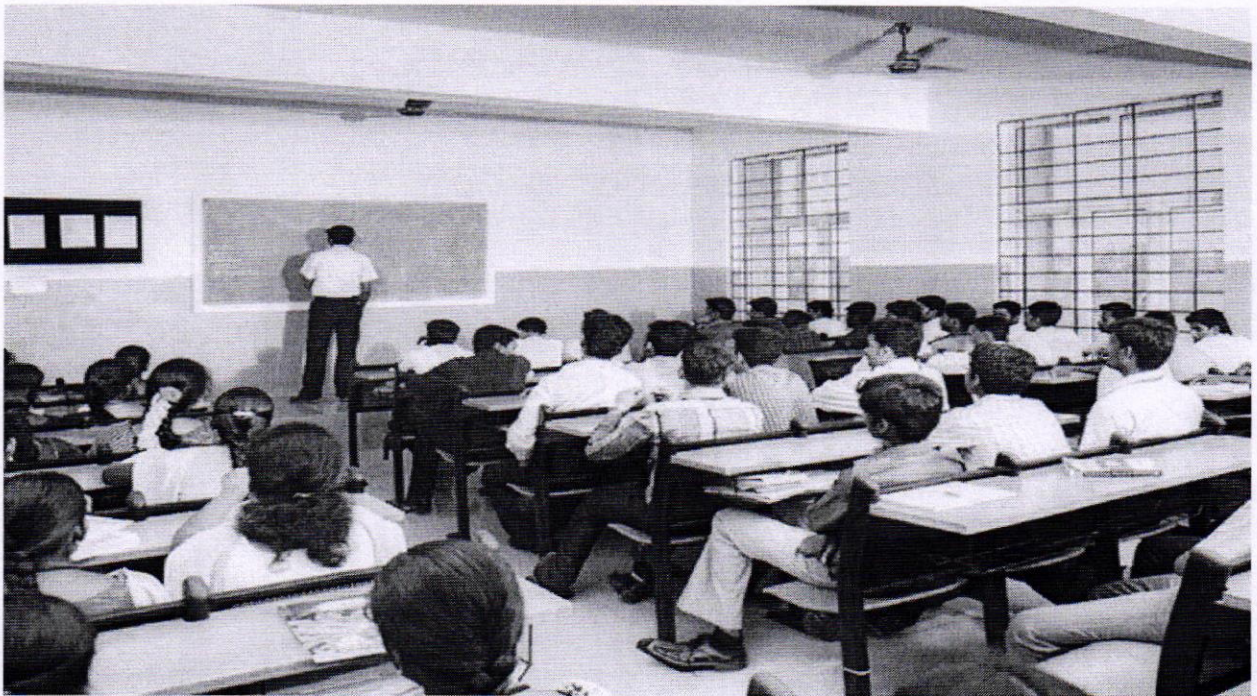


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*Creali*

**COURSE COORDINATOR**

*K. K. K.*

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**CERTIFICATE OF PARTICIPATION**

**This certificate is presented to**

**S.PUNITHA(REG NO:U15CS183)**

For actively participating in the value added course "APPLIED NATURAL LANGUAGE PROCESSING" Conducted by School of Computing, BIHER from 30.01.2019 to 05.03.2019.

*C. S. S. S.*  
COURSE COORDINATORS

*[Signature]*  
HEAD OF THE DEPARTMENT

DIRECTOR

# COURSE FEEDBACK FORM

Academic Year		2019-2020			
Term					
Course Number					
Course Title		Applied Natural Language Processing			
Number of Credits					
Type of Course	Regular		Elective		Add-on <input checked="" type="checkbox"/>

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

**1. Percentage of classes attended**

0-20		20-40		40-60		60-80 <input checked="" type="checkbox"/>	80-100
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**2. Number of hours per week spent on the course (Other than lecture hours)**

0-2		2-4		4-6		6-8	8-10
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**3. Preparation for the course by the student:**

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

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

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

**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
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**HEAD OF THE DEPARTMENT**

# COURSE FEEDBACK FORM

Academic Year		2019 - 2020			
Term					
Course Number					
Course Title		Applied Natural Language Processing			
Number of Credits		—			
Type of Course	Regular		Elective		Add-on
					✓

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

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