

Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF INFORMATION TECHNOLOGY

ACADEMIC YEAR <u>2022-2023/ ODD SEMESTER</u>

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs,SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfullycompleted during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed onlinecourses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the lastfive years

VAC Title:	Speech Recognition Technology in Natural Network												
Resource Per	Mr.A.R.Sooriyaoli, ManagingDirector Novi Tech R&D Pvt.Ltd												
Date of cond	uct fro	m:	19.12.2022		To:	23.12.2022		Duration:	30 Hours				
Organized D	epartm	ent:	INFORMA	TION	TECH	INOLOGY							
Participant Y	Participant Year: IT IV,III,II Semester: ODD No. of Students Registered: 90												
Venue: IT	Semin	ar Ha	ıll										

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COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappelli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chemni NAAC Accredited, 2(F) Status Institution by UGC



Department of Information Technology

Academic Year 2022-2023 -ODD Semester

16.12.2022

DEPARTMENT CIRCULAR

Department of Information Technology and IQAC of IGCE in association with Novi Tech R&D, Pvt. Ltd is going to organize Value Added Course for all Second, Third and Final year students on "Speech Recognition Technology in Natural Network" from 19.12.2022 to 23.12.2022 Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

	1.Mr. A. R. Sooriyaeli, Managing Director,
Resource Person Detail	Novi Tech R&D Pvt.Ltd
	2.Mr.R.Rajesh,
	Project Manager
	Novi Tech R&D Pvt.Ltd
Venue	IT Seminar Hall, IGCE

HODAT

Cc:

• Principal office

IOAC Co-Ordinator

• Class In charges - II, III & IV-Year

• II, III & IV-Year IT Students

· Office File

Notice Board

PRINCIPAL

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

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Value Added Course

"Speech Recognition Technology in Natural Network"

SYLLABUS

s.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to Speech Recognition	3	19.12.2022
2	Language Modeling: Grammar-based	3	19.12.2022
3	Transducers for lexicon and rules, Tokenization	3	20.12.2022
4	Requirements for representation, First- Order Logic, Description Logics	3	20.12.2022
5	Relations between Senses, Thematic Roles	3	21.12.2022
6	Speech Fundamentals: Articulatory Phonetics	3	21.12.2022
7	Production And Classification Of Speech Sounds; Acoustic Phonetics	3	22,12.2022
8	Features, Feature Extraction And Pattern Comparison Techniques	3	22.12.2022
9	Weighted Cepstral Distances And Filtering	3	23.12.2022
10	Hidden Markov Models: Markov Processes	2	23.12.2022
11	Exam	1	23.12.2022
	Total Hours (Excluding Exam)	30	-

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



COLLEGE OF ENGINEERING

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Value Added Course

Dr. G. Balakrishnan, M.E., Phapeech Recognition Technology in Natural Network"

Principal

STUDENTS PARTICIPATION LIST

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

012. S.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
	811219205001	Akash V	IV/IT
2	811219205002	Akilandeswari J	[V/IT
3	811219205003	Aravindhan R	IV/IT
	811219205004	Chitra Bharathy M	IV/IT
5	811219205005	Jeevitha M	IV/IT
i	811219205006	Kaviya K	IV/IT
1	811219205008	Libia Pojathsiyu C	IV/IT
}	811219205009	Mageshwaran M	IV/IT
)	811219205011	Ranjith M	IV/IT
10	811219205012	Ranjith kumar A	IV/IT
11	811219205013	Shareen Banu M R	[V/IT
12	811219205014	Shobana K	IV/IT
13	811219205015	Sivaranjani P	IV/IT
14	811219205016	Sowmiya P	IV/IT
15	811219205017	Surya A	IV/IT
16	811219205017	Swetha S	IV/IT
17	811219205019	Tamil selvi T	JV/IT
18	811219205020	Vijaya kumar M	IV/IT
19	811219205021	Visalini P	IV/IT
20	811219205521	Karthick A	IV/IT
21	811219205001	Aiswariya V	III/IT
22	811220205002	Anbazhagan S	III/IT
23	811220205004	Balamohan R	III/IT
24	811220205006	Benny A	III/IT
25		Boomika P	III/IT
26	811220205007	Charulatha B	III/IT
2 7	811220205008	Chiranjeevi V	нилт
	811220205009	Dinesh M	III/IT
28	811220205011	Gowtham B	III/IT
29	811220205012	Hariharan S	III/IT
30	811220205014		III/IT
31	811220205015	Hemalatha G	



71

811221205015

Indra Ganesan

COLLEGE OF ENGINEERING

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s.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
32	811220205016	Jeeva M	113/IT
33	811220205018	Keerthana S	III/IT
34	811220205019	Kirubhashree D	III/IT
35	811220205020	Krishnan N	III/IT
36	811220205021	Magesh G	III/IT
37	811220205022	Mahasuvetha M	III/IT
38	811220205023	Manikandan M	III/IT
39	811220205024	Meenatchi A	III/IT
40	811220205025	Моһапаргіуа К	III/IT
41	811220205026	Monisha A	HIVIT
42	811220205027	Murugesan K	III/IT
43	811220205029	Pragathi R	III/IT
44	811220205030	Priyanga K	III/IT
45	811220205032	Rajeswari S	III/IT
46	811220205035	Rasika A	HI/IT
47	811220205036	Ravikumar M	HI/IT
48	811220205037	Sabinath K	III/IT
49	811220205039	Sharmi A	III/IT
50	811220205040	Sheik Abdulla H	III/IT
51	811220205042	Soundarya V	HI/IT
52	811220205043	Sriram C	HI/IT
53	811220205044	Suganya G	III/IT
54	811220205045	Sushmeetha A	III/IT
55	811220205046	Thanasekaran S	III/IT
56	811220205047	Thasneem Begam Y	IJJ/IT
57	811220205048	Thirumeni V	III/IT
58	811220205050	Yasika A	III/IT
59	811220205301	Dhanalakshmi V	III/IT
60	811220205302	Irfana Fathima J	IJI/IT
61	811220205303	Valbhavilaxmi L	III/IT
62	811220205304	Vengatesan M	III/IT
63	811221205001	Angel Ebsiba.A	II/IT
64	811221205003	Asarudheen.K	II/IT
65	811221205004	Barakkath Nisha.S	II/IT
66	811221205005	Brundha.P	II/IT
67	811221205009	Dinesh.M	II/IT
68	811221205010	Gnanasamuel.A	II/IT
69	811221205013	Jai Surya.K	II/IT Dr.
70	811221205014	Jenani.R	II/IT
			T/TT

Kannan.M

G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering

IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

II/IT



COLLEGE OF ENGINEERING

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s.NO	REG NO	STUDENTS NAME	YEAR/ BRANCH
72	811221205016	Karthik Raja.M	II/IT
73	811221205017	Kavin.J	II/IT
74	811221205018	Kayathri.S	IMT
75	811221205019	Kishore.M	II/IT
76	811221205020	Lalitha.K	II/IT
77	811221205021	Madhan.S	II/IT
78	811221205022	Manikandana.M	II/IT
79	811221205023	Mohamed Anas.J	II/IT
80	811221205024	Mohamed Aslam.5	II/IT
81	811221205025	Monika Sri.B	II/IT
82	811221205029	Prasanna.M	II/IT
	811221205032	Santhosh Kumar.P	II/IT
83 84	811221205033	Sathish Kannan.S	II/IT
85	811221205034	Sebasthiyan.5	II/IT
86	811221205035	Stephen.S	II/IT
87	811221205036	Subhashini.M	II/IT
88	811221205037	Subasri.M	II/IT
_	811221205038	Sujhin.R	II/IT
90	811221205039	Sumitha.A	II/IT

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Read Manikandam, Trichy-620 012.

VAC Coordinator



dra Ganesa

COLLEGE OF ENGINEERING

Madurai Main Road (NH-458), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelhi & Affiliated to Anna University, Chennai MAAC Accredited, 2(F) Status Institution by UGC



Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.

REPORT ON VALUE ADDED COURSE

"Speech Recognition Technology in Natural Network" Title: Mr.R.Rajesh, Mr. A. Sooriyaoli, Resource Person: Project Manager, Managing Director Novi Tech R&D Novi Tech R&D Pvt.Ltd Pvt.Ltd 30 Hours Duration: 23.12.2022 To: 19.12.2022 Date of conduct from: Information Technology Organized Department: No. of Students Registered: Participant Year: 2.3,4 IT Seminar Hall Outcome of Value Added Course (VAC): At the end of the Course, Students can be able to Venue:

- By variety of ways to represent human languages as computational systems.
- Representations to write programs that do useful things with text and speech data, like translation, summarization, extracting information.
- Build by software engineering perspective, there will be an emphasis on rapid prototyping, a useful skill in many other areas of Computer Science.
- Prerequisite: Strong programming abilities in Python and a knowledge of data structures and algorithms.
- All reports will be documented and deliberated to determine if there should be any following actions.

Assessment Process

- Students, who are securing more than 70% on total score and secured more than 75% inattendance is eligible to receive the certificate for the VAC course conducted
- Total Score = (0.5 *Attendance in VAC out of 100 percentage + 0.5 *Test mark in VAC out of 100 marks)

VAC Coordinator



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SAMPLE PHOTOS OF VALUE ADDED COURSE

Title:

"Speech Recognition Technology in Natural Network"

Resource Person:

Mr. A. Sooriyaoli,

Managing Director

Novi Tech R&D

Pvt.Ltd

Mr.R.Rajesh,

Project Manager,

Novi Tech R&D

Pvt.Ltd

Date of conduct from:

19.12.2022

To:

23,12,2022

Duration:

30 Hours

Organized Department:

Information Technology

Participant Year:

2,3,4

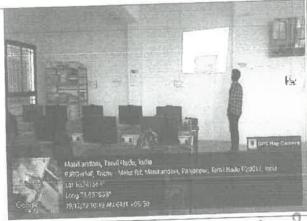
No. of Students Registered:

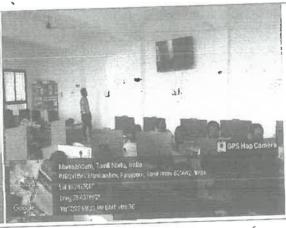
90

Venue:

IT Seminar Hall

Sample Photos:





VAC Coordinator

HoD/IT

Principal

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Dr. G. Balakrishnan, M.E., Ph.D.,

Principal Indra Ganesan College of Engineering

IG Valley, Madurai Main Read

Indra Ganesan

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Department of Information Technology

Academic Year 2022-2023 -Odd Semester

STUDENTS ATTENDANCE LIST

Value Added Course

5.N O	REG NO	STUDENTS NAME	YEAR/ BRANCH	19.12	.2022	20.12	.2022	21.12	.2022	22.12	2022	23.12	.2022	NO OF SESSIO NS ATTEN DED	SIGN OF THE STUDENT
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811219205001	Akash V	IV/IT	~	~	/	/	/	/	/	/	~	1	- Po	Akarl
2	811219205002	Akilandeswari J	IV/IT	V	~	~	1	/	/	(A)	A	~		8	Africa,
3	811219205003	Aravindhan R	IV/IT	V	/	~	1	~	~	/	~	~		10	the
4	811219205004	Chitra Bharathy M	[V/JT	V	/	/	/	/	~	_	~	/		10	Coffee
5	811219205005	Jeevitha M	IV/IT	~	/	/	/	/	/	V	/	1	B	2	locustha
6	811219205006	Kaviya K	IV/JT	~	~	/	/	/	/	/	~	~	~	to	Faviga
7	811219205008	Libia Pojathsiyu C	IV/IT	1	/	/	/	/	/	~	~	-		(0	IM C
8	811219205009	Mageshwaran M	IV/IT	/	/	-	/	/	/	/	A		V	-9	The state of
9	811219205011	Ranjith M	IV/IT	/	/	A	/	/	/	/	_		-	9	Barith
10	811219205012	Ranjith kumar A	IV/IT	/	/	5		A	1	/	0	6	4	-8-	K Kun
11	811219205013	Shareen Banu M R	IV/IT	/	/	/	/	/	/	/	1	200	6	10_	Charles
12	811219205014	Shobana K	IV/IT	/	/	/	/	/	/	1	1	A	(B)	8	Chapas
13	811219205015	Sivaranjani P	IV/IT	/	/	/	/	1		1		4	- 000	0	Suran
14	811219205016	Sowmiya P	IV/IT	/	/	/	/	A		1	1		A	8	Sul

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam Trichy-520 012.



Indra Ganesan

COLLEGE OF ENGINEERING

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	STUDENTS NAME	YEAR/	19.12	2.2022	20.12	2.2022	21.12	.2022	22.12.	2022	23.12	.2022	NO OF SESSION	SIGNATURE OF THE
nee no		BRANCH	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	S ATTEND ED	STUDENT
811219205017	Surya A	IV/IT	V	V		_	/	/	/	~		~	10	Surga.
811219205018	Swetha S	IV/IT	~			/	~	/	~	/	~	~	-01	Swettige
811219205019	Tamil selvi T	JV/IT	~		~	A	/	V	~	~	V	V	9	Tand but
811219205020	Vijaya kumar M	IV/IT	/		/	/	A	/	/	A		/	8	vi Cay
811219205021	Visalini P	[V/IT	~		1	/	1	/	/	~	A	V	9	Vigalinia.
811219205501	Karthick A	IV/IT	~	· /	A	*	/	A	V	/	MA	N	8	(galfh.)
811220205002	Aiswariya V	III/IT	/	(A)	1	V	/	1	A	/	/	/	8	Euliary
811220205004	Anbazhagan S	HIMT	V	7	/	/	(A)	/	/	/	~	A	8	Anhors
811220205005	Balamohan R	III/IT	1	/	/	/	/	/	1		V	/	10	Balang
811220205006	Benny A	(II/IT	1	/	1	/	/	/	/	/	/		(0	Boung
		III/IT	1	1	/	/	1	/	/	V	V	~	(0)	Bosenile
811220205008	Charulatha B	III/IT	1	V	/	/	/	A	/	/	~	(17)	8	ches.
811220205009	Chiranjeevi V	HI/IT	~	1	/	/	/	1/	/	~		/	to	Soor 1
811220205011	Dinesh M	III/IT	1	/	/	/	/	V	1	V		~	10	Venalh
811220205012	Gowtham B	III/IT	V	/	0	/	/	/		/			9	no withour
811220205014	Hariharan S	III/IT	~	V	1	/	1	A	1		/	A	8	How
811220205015	Hemalatha G	HI/IT	V	/	/	/		/	~	V		\ \	to	hany
811220205016	Jeeva M	III/IT		1	~	/	A	/	/	-	·	A	8	Jeeven
811220205018	Keerthana S	III/IT	V	A		/	1	/	/	/	1	A	- 8	leasthe
811220205019	Kirubhashree D	IIVIT	V	1	/	A	/	/	A	/	~	~	8	kiru
811220205020	Krishnan N	HJ/IT	V	' V	1	/	/	/	1	2	-	~	10	Kully
811220205021	Magesh G	III/IT	V		V	/	/	~	/	/	/	/	(0)	Mayest
	811219205018 811219205019 811219205020 811219205021 811219205501 811220205002 811220205004 811220205006 811220205006 811220205007 811220205009 811220205011 811220205012 811220205014 811220205015 811220205016 811220205018 811220205018 811220205019 811220205019	REG NO STUDENTS NAME 811219205017 Surya A 811219205018 Swetha S 811219205019 Tamil selvi T 811219205020 Vijaya kumar M 811219205021 Visalini P 811220205002 Karthick A 811220205004 Aiswariya V 811220205005 Balamohan R 811220205006 Benny A 811220205007 Boomika P 811220205008 Charulatha B 811220205009 Chiranjeevi V 811220205012 Gowtham B 811220205015 Hemalatha G 811220205016 Jeeva M 811220205019 Kirubhashree D 811220205020 Krishnan N	REG NO STUDENTS NAME VEAR/BRANCH 811219205017 Surya A IV/IT 811219205018 Swetha S IV/IT 811219205019 Tamil selvi T IV/IT 811219205020 Vijaya kumar M IV/IT 811219205021 Visalini P IV/IT 811219205501 Karthick A IV/IT 811220205002 Aiswariya V III/IT 811220205004 Anbazhagan S III/IT 811220205005 Balamohan R III/IT 811220205006 Benny A III/IT 811220205007 Boomika P III/IT 811220205008 Charulatha B III/IT 811220205011 Dinesh M III/IT 811220205012 Gowtham B III/IT 811220205015 Hemalatha G III/IT 811220205016 Jeeva M III/IT 811220205019 Kirubhashree D III/IT 811220205020 Krishnan N III/IT	REG NO STUDENTS NAME YEAR/BRANCH 19.12 19.13 19.13 19.14 19.15	STUDENTS NAME YEAR/BRANCH 19.12.2022 FN AN	STUDENTS NAME YEAR/BRANCH 19.12.2022 20.12	REG NO STUDENTS NAME YEAR/ BRANCH 19.12.2022 20,12.2022 20	STUDENTS NAME	REG NO	REG NO STUDENTS NAME PRANCH 19.12.2022 20.12.2022 21.12.2022 22.12.	REG NO STUDENTS NAME YEAR/BRANCH 19.12.2022 20.12.2022 21.12.2022 22.12.2022 21.12.2022 22.	STUDENTS NAME	REG NO STUDENTS NAME YEAR/BRANCH 19.12.2022 20.12.2022 21.12.2022 23.	STUDENTS NAME

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



Indra Janesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelbi & Affiliated to Anna University, Chemical NAAC Accredited, 2(F) Status Institution by UGC



S.	REG NO	STUDENTS NAME	YEAR/ BRANCH	19.17	2.2022	20.12	2.2022	21.12	.2022	22.12	.2022	23.12	.2022	NO OF SESSION	SIGNATURE OF THE
			DIGHTOH	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	S ATTEND	STUDENT
		ži.												ED	1
37	811220205022	Mahasuvetha M	Ш/ІТ	V	1	./	/		/		/			10	/Aa lala
38	811220205023	Manikandan M	III/IT	./	-		./	-/	/	(A)	A	/	/	8	Mankardon
39	811220205024	Meenatchi A	III/IT	1	/		- /		//	1	1	1	~	No	Assessan
40	811220205025	Mohanapriya K	III/IT		1			/			./	/	/	to	And I
41	811220205026	Monisha A	III/IT	1	./				1	./	./	(4)	./	9	Mank of
42	811220205027	Murugesan K	III/IT	./	/			/	A	./			. /	9	hum
43	811220205029	Pragathi R	III/IT	/					7				/	l'o	Brasathi
44	811220205030	Priyanga K	III/IT	/	/	1	A		1	/	(1)	1		8	Kristar 9
45	811220205032	Rajeswari 5	III/IT	./	(A)	./	/	/	/	/		A	/	8,	Royanh
46	811220205035	Rasika A	HI/IT	/	1	/	A	/		A	/	1	~	8	Karilea
47	811220205036	Ravikumar M	III/IT	~	/	/	1	/		V	/	~		10	Lauri 1
48	811220205037	Sabinath K	III/IT	/		A	/		~	/	/	1	/	- 8	Sabirath
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56	811220205047	Thasneem Begam Y	III/IT	1	/	/		A	/				/	9	Tharasam
57	811220205048	Thirumeni V	III/IT	/	-/	1		~	/	/	/	/	V	10	Thiryman
58	811220205050	Yasika A	HI/IT	/	/	1	/	V	/	V	~	/	/	10	Yarya 1
59	811220205301	Dhanalakshmi V	HI/IT	~		/	/	/	1	V	~	/		10	Manalakel

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Indra Ganesan

COLLEGE OF ENGINEERING

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S. NO	REG NO	STUDENTS	YEAR/	19.12.2	2022	20.12	2.2022	21.12	.2022	22.12.20	22	23.12	.2022	NO OF SESSIONS	SIGNATUREOF THE STUDENT
		NAME	BRANC	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	ATTENDE D	
60	811220205302	Irfana Fathima J	III/IT	/	/	/	/	/	/	/	. /		~	10	Wana father
61	811220205303	Vaibhavilaxmi L	III/IT		/	A		V	/ /	(A).	/			8	vaishousteur
62	811220205304	Vengatesan M	III/IT	/	/		/						/	to	Dencertesan
63	811221205001	Angel Ebsiba.A	II/IT	/		/	/	./		./	./		/	to	Angeld
64	811221205003	Asarudheen.K	II/IT		1	/			/			(A)	1	9	Marydhean
65	811221205004	Barakkath Nisha.S	IVIT			/			/	/			1	to	· Barakal.
66	811221205005	Brundha.P	H/IT		-		A	/				1	A	8	A Brountley
67	811221205009	Dinesh.M	II/IT	/		~	V	/			/		1	(0	1 lenders
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70	811221205014	Jenani.R	II/FT	_/	1	V	/	4/		V	2			9	Janan 1
71	811221205015	Kannan.M	II/I T	1	-/	1	/			V	./			10	Kannan.
72	811221205016	Karthik Raja.M	H/IT	./	/	1				A	-	-	A	8	Karthik Rayon
73	811221205017	Kavin.J	II/IT	1	5/	V		1	/	·	P	A	1	8	12 gays in
74	811221205018	Kayathri.S	II/ IT	V	V	1			A		1	~	~	8	082
75	811221205019	Kishore.M	II/IT			V	/	/					-	10	U.
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80	811221205024	Mohamed Aslam.S	II/IT				/				1	/		to	Monayou
81	811221205025	Monika Sri.B	II/IT	1		/	A	1		1				9	Aglam
82	811221205029	Prasanna.M	II/IT		A				A			/		- 8	Progeamer
83	811221205032	Santhosh Kumar.P	II/IT	/						A	V	N	À	8	Senghash Kun
84	811221205033	Sathish Kannan.S	II/IT		1./		1./	1				/ /	/	(e)	Shirtrupy.



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86	811221205035	Stephen.S	IVIT	1.7											0.0
87	811221205036	Subhashini.M	II/IT	1		~			00)		0	1	1	9	Staply
88	811221205037	Subasri, M	II/IT						B	-	1	(F)		8	Sunachy
89	811221205038	Sujhin.R	II/IT			~	50		V		1	~	~	10	· Dong.
90	811221205039	Sumitha.A	II/IT	-			100	/	_		(0)		/	8	Sylvin, R

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,

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Name of the Student:

Mousha. A

Year/Sem: W

AU Register Number:

811240205000

Value Added Course

"Speech Recognition Technology in Natural Network"

MULTIPLE CHOICE OUESTIONS (25X1 = 25 Marks)

1. What is the goal of natural language processing (NLP)?

a) To understand human language and enable computers to interact with humans in a natural way

b) To create new languages for computers to communicate with each other

c) To develop machines that can understand and speak all languages in the world

d) To replace human communication with machine communication

2. Which of the following is an example of natural language processing?

a) Translating a document from English to Spanish

b) Extracting insights from customer reviews

c) Analyzing data in a spreadsheet

d) Playing a game of chess

3. What is the main challenge/s of NLP?

a) Handling Ambiguity of Sentences

b) Handling Tokenization

c) Handling POS-Tagging

d) All of the mentioned

4. Choose form the following areas where NLP can be useful.

a) Automatic Text Summarization

Automatic Question-Answering Systems

c) Information Retrieval

d) All of the mentioned

5. Which of the following includes major tasks of NLP?

a) Automatic Summarization

b) Discourse Analysis

c) Machine Translation

d) All of the mentioned

6. What is Coreference Resolution?

a) Anaphora Resolution

b) Given a sentence or larger chunk of text, determine which words ("mentions") refer to the same objects

c) All of the mentioned

d) None of the mentioned

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- 7. What is Machine Translation?
- a) Converts one human language to another
- b) Converts human language to machine language
- c) Converts any human language to English /
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- 8. What is Morphological Segmentation?
- a) Does Discourse Analysis
- b) Separate words into individual morphémes and identify the class of the morphemes
- c) Is an extension of propositional logic
- d) None of the mentioned
- 9. What is the dominant modality for communication between humans?
- A) Hear
- b) Speech
- c) Smell
- d) None of the mentioned
- 10. What kind of signal is used in speech recognition?
- a) Electromagnetic signal
- b) Electric signal
- c) Acoustic signal
- AY Radar
- 11. What is viewed as problem of probabilistic inference?
- a) Speech recognition
- b) Speaking
- c) Hearing
- طر Utterance
- 12. Which specifies the prior probability of each utterance?
- a) Sound model
- b) Model
- c) Language model
- All of the mentioned
 - 13. Which model gives the probability of each word following each other word?
 - a) Bigram model
- b) Diagram model
- c) Gram model
- A) Speech model
- 14. What is the study of how the language sounds?
- a) Speechology
- b) Biology
- Trilogy
- d) Phonology

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- 15. What are periodic changes in pressure that propagate through the air?
- a) Air waves
- b) Sound waves
- c) Rate
- A) None of the mentioned
 - 16. What is called as the properties of the signal that extend over interval?
- a) Hops
- b) Rate
- Frames
- d) All of the mentioned
- 17. Which is used to capture the internal structure of the phones?
- a) One-state phone model
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- d) All of the mentioned
- 18. Which are partially captured by triphone model?
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- c) Both Articulation & Coarticulation effects
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- 19. What is full form of NLU?
 - a) Nature Language Understanding
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 - c) Natural Language Understanding
 - d) None of the Above

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Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

20. What is Morphological Segmentation?

a) Does Discourse Analysis

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- 21. Which of the following is used to mapping sentence plan into sentence structure?
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- b) Sentence planning
- c) Text Realization
- d) None of the Above



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22. Which of the following is us	ed study of construction of words from primitive meaningful units?
a) Phonology b) Morphology c) Morpheme d) Shonology	
	ynamically as per meaning of the sentence lynamically as per sentence structure
24. In linguistic morphology a) Rooting b) Stemming c) Text-Proofing d) Both Rooting & Stemming	is the process for reducing inflected words to their root form.
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25. Which of the following is demerits of Top-Down Parser? a) It is hard to implement.

- b) Slow speed
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Name of the Student: Divesh. M

Year/Sem: D

AU Register Number: 811220 205011

Value Added Course

"Speech Recognition Technology in Natural Network"

MULTIPLE CHOICE QUESTIONS (25X1 = 25 Marks)

- 1. What is the goal of natural language processing (NLP)?
- a) To understand human language and enable computers to interact with humans in a natural way
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- a) Handling Ambiguity of Sentences
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- a) Automatic Text Summarization
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- S. Which of the following includes major tasks of NLP?
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- b) Discourse Analysis
- c) Machine Translation
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Name of the Student:

Year/Sem:

AU Register Number:

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Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.

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b) is an extension of propositional logic

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a) Does Discourse Analysis

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c) Separate words into individual morphemes and identify the class of the morphemes d) None of the Above

- 21. Which of the following is used to mapping sentence plan into sentence structure?
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- 23. Parts-of-Speech tagging determines
- a) part-of-speech for each word dynamically as per meaning of the sentence
- b) part-of-speech for each word dynamically as per sentence structure
- c) all part-of-speech for a specific word given as input
- d) All of the above

24. In linguistic morphology	is the process for reducing inflected words to their ro	ot form.
24. In iniguisae morphology	is and brooks for recording introduce were to make a	

- a) Rooting
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Value Added Course

"Speech Recognition Technology in Natural Network"

ANSWER KEY

1	a	6	b	11	а	16	c	21	c
2	b	7	a	12	c	17	С	22	b
3	a	8	ь	13	а	18	Ь	23	đ
4	d	9	ь	14	d	19	a	24	d
5	đ	10	С	15	ь	20	c	25	b

VAC Coordinator

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Manikandam, Trichy-620 012.

Department of Information Technology

Academic Year 2022-2023 - Odd Semester

VALUE ADDED COURSE ASSESMENT SHEET

Speech Recognition Technology in Natural Network

			YEAR/ BRANCH	Attenda	nce Details	VAC-M	OVERALL	
\$.NO 1 2 3 4 5 6 7 8	REG NO	STUDENTS NAME		No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)
1	811219205001	Akash V	IV/IT	30	100	20	80	90
2	811219205002	Akilandeswari J	ľV/ľT	24	83	15	60	72
3	811219205003	Aravindhan R	ľV/IT	30	100	19	76	88
4	811219205004	Chitra Bharathy M	IV/IT	30	100	22	88	94
5	811219205005	Jeevitha M	IV/IT	27	92	18	72	82
6	811219205006	Kaviya K	IV/IT	30	92	17	68	80
7	811219205008	Libia Pojathsiyu C	IV/IT	30	100	18	72	86
8	811219205009	Mageshwaran M	IV/IT	27	83	17	68	76
9	811219205011	Ranjith M	IV/IT	27	92	16	64	78
10	811219205012	Ranjith kumar A	IV/IT	24	92	16	64	78
11		Shareen Banu M R	IV/IT	30	100	20	80	90

Dr. G. Balakrishnan, M.E., Ph.D.

Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road

Manikandam, Trichy-620 012.



Indra Ganesan

COLLEGE OF ENGINEERING

Madurai Main Road (NH-45B), Manikandam, Tiruchirappalli - 620 012 Approved by AICTE, NewDelint & Affiliated to Atma University, Chemial NAAC Accredited, 2(F) Status Institution by UGC



C NIO	DEC NO	DEC NO.	YEAR/	Attendance Details		VAC-M	OVERALL	
S.NO	REG NO	STUDENTS NAME	BRANCH	No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)
12	811219205014	Shobana K	IV/IT	24	92	17	68	80
13	811219205015	Sivaranjani P	IV/IT	30	100	20	80	90
14	811219205016	Sowmiya P	IV/IT	24	83	15	60	72
15	811219205017	Surya A	IV/IT	30	100	19	76	88
16	811219205018	Swetha S	IV/IT	30	100	22	88	94
17	811219205019	Tamil selvi T	IV/IT	27	92	18	72	82
18	811219205020	Vijaya kumar M	IV/IT	24	92	17	68	80
19	811219205021	Visalini P	IV/IT	27	100	18	72	86
20	811219205501	Karthick A	IV/IT	24	83	17	68	76
21	811220205002	Aiswariya V	III/IT	24	92	16	64	78
22	811220205004	Anbazhagan S	III/IT	24	92	16	64	78
23	811220205005	Balamohan R	ні/іт	30	100	20	80	90
24	811220205006	Benny A	шит	30	92	20	80	86
25	811220205007	Boomika P	IH/IT	30	100	20	80	90
26	811220205008	Charulatha B	III/IT	24	83	15	60	72
27	811220205009	Chiranjeevi V	III/IT	30	100	19	76	88
28	811220205011	Dinesh M	III/IT	30	100	22	88	94
29	811220205012	Gowtham B	III/IT	27	92	18	72	82
30	811220205014	Hariharan S	III/IT	24	92	17	68	80

Dr. G. Balakrishnan, M.E., Ph.D., Principal

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S.NO REG NO	BEGNO		YEAR/	Attendance Details		VAC-M	CQ TEST	OVERALL
	REG NO	REG NO STUDENTS NAME BRANCH	No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	MARK(100) (50% of A + 50% of B)	
31	811220205015	Hemalatha G	III/IT	30	100	20	80	90
32	811220205016	Jeeva M	III/IT	24	82	17	68	76
33	811220205018	Keerthana S	III/IT	24	92	16	64	78
34	811220205019	Kirubhashree D	ШЛТ	24	92	16	64	78
35	811220205020	Krishnan N	III/IT	30	100	20	80	90
36	811220205021	Magesh G	ШЛТ	30	92	20	80	86
37	811220205022	Mahasuvetha M	III/IT	30	100	20	80	90
38	811220205023	Manikandan M	HI/IT	24	83	15	60	72
39	811220205024	Meenatchi A	III/IT	30	100	19	76	88
40	811220205025	Mohanapriya K	ШИТ	30	100	22	88	94
41	811220205026	Monisha A	HI/IT	27	92	18	72	82
42	811220205027	Murugesan K	III/IT	27	92	17	68	80
43	811220205029	Pragathi R	III/IT	30	100	18	72	86
44	811220205030	Priyanga K	HI/IT	24	83	17	68	76
45	811220205032	Rajeswari S	III/IT	24	92	16	64	78
46	811220205035	Rasika A	III/IT	24	92	16	64	78
47	811220205036	Ravikumar M	III/IT	30	100	20	80	90
48	811220205037	Sabinath K	III/IT	24	92	20	80	86
49	811220205039	Sharmi A	III/IT	24	83	15	60	72

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Principal
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			YEAR/	Attenda	Attendance Details		ICQ TEST	OVERALL MARK(100)
S.NO	REG NO	STUDENTS NAME	BRANCH	No. of hours Attended	Attendance Mark(100) (A)	No of Correct Answers	MCQ Mark(100) (B)	(50% of A + 50% of B)
50	811220205040	Sheik Abdulla H	III/IT	27	90	19	76	83
51	811220205042	Soundarya V	I11/IT	30	100	20	80	90
52	811220205043	Sriram C	III/IT	27	90	19	76	83
53	811220205044	Suganya G	III/IT	27	80	21	84	82
54	811220205045	Sushmeetha A	III/IT	24	90	20	80	85
55	811220205046	Thanasekaran S	III/IT	30	100	21	84	92
56	811220205047	Thasneem Begam Y	III/IT	27	90	20	80	85
57	811220205048	Thirumeni V	III/IT	30	100	19	76	88
58	811220205050	Yasika A	III/IT	30	100	20	80	90
59	811220205301	Dhanalakshmi V	III/IT	30	100	21	84	92
60	811220205302	Irfana Fathima J	III/IT	30	90	21	84	87
61	811220205303	Vaibhavilaxmi L	III/IT	24	80	20	80	80
62	811220205304	Vengatesan M	III/IT	30	90	21	84	87
63	811221205001	Angel Ebsiba.A	II/IT	30	100	20	80	90

S.NO	REG NO	NAME	YEAR/ BRANCH	Attendance Details	Attendance Details	VAC-MCQ TEST	VAC-MCQ TEST	OVERALL MARK(100) (50% of A + 50% of B)
				No. of hours Attended	Attendance Mark(100)	No of Correct Answers	MCQ Mark(100)(B)	
88	811221205037	Subasri.M	II/IT	20	(A)			
89	811221205038	Sujhin.R	II/IT	30	100	20	80	90
90	811221205039	Sumitha.A		24	83	15	60	72
		Summa.A	ШЛТ	:30	100	19	76	88

VAC Coordinator

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Manikandam, Trichy-620 012.

July HODAT



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/MsJenani.R. of
successfully completed the Value Added Course on "Speech Recognition Technology in Natural
Network" organized by Department of InformationTechnology and IQAC of our Institution in
Association with Novi Tech pvt.Ltd Technologies from 19 TH DECEMBER 2022 to 23 rd DECEMBER
2022 (5days) during the Academic year 2022-2023.

Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

Dr. G. Balakrishnan, M.E., Ph.D.

Indra Ganesan College of Engineering
IG Valley, Madural Main Road
Manikandam, Trichy-C2U 012

Principal



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This is to certify that Mr/MsDinesh.M. of
successfully completed the Value Added Course on "Speech Recognition Technology in Natural
Network" organized by Department of InformationTechnology and IOAC of our Institution in
Association with Novi Tech pvt.Ltd Technologies from 19 TH DECEMBER 2022 to 23 rd DECEMBER
2022 (5days) during the Academic year 2022-2023.

Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

Dr. G. Balakrishnan, M.E., Ph.D.,

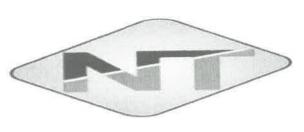
Indra Ganesan Colluge of Engineering IG Valley, Madurai Main Road Manikandam, Talchy-629 012. Principal



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CERTIFICATE OF PARTICIPATION

This is to	certify that	Mr/Ms	Kavin.J		of	IIIT	has
			dded Course on ""				
Network""	organized 1	by Departme	ent of Information	echnology ar	nd IQAC of	our Institut	ion in
Association	with Novi T	ech pvt.Ltd	Technologies from 1	9 TH DECEMI	BER 2022 to	23 rd DECE	MBER
2022 (5days)) during the	Academic ye	ear 2022-2023.				

Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

(D:

Dr. G. Balakrishnan, M.E., Ph.E.,
Principal
Indra Ganesan College of Engineering

dra Ganesan County of Ladinsening IG Valley, Madural Mein Read Manikandam, Trichy-C20 012; Principal



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CERTIFICATE OF PARTICIPATION

This is to ce	ertify that N	Mr/Ms	Lalitha.K	•••••	ofII	IThas
successfully o	completed th	ne Value Added	Course on ""Spec	ech Recognition	Technolog	y in Natural
Network""	organized by	y Department o	of InformationTech	nology and IQA	C of our	Institution in
Association w	vith Novi Te	ch pvt.Ltd Techr	nologies from 19 TH	DECEMBER 202	22 to 23 rd	DECEMBER
2022 (5days) during the Academic year 2022-2023.						

Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

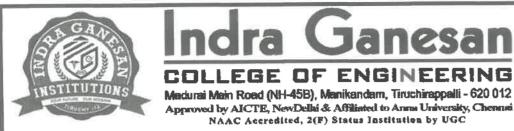
Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

College of Engineering

Indra Ganesan College of Engineering
IG Valley, Medurai Main Road
Manikandam, Trichy-620 012.

Principal



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.Prasanna.M. ofII...-IT.....has successfully completed the Value Added Course on "Speech Recognition Technology in Natural Network" organized by Department of InformationTechnology and IQAC of our Institution in Association with Novi Tech pvt.Ltd Technologies from 19TH DECEMBER 2022 to 23 rd DECEMBER 2022 (5days) during the Academic year 2022-2023.

Managing Director

Novi Tech R& D Pvt.Ltd

Dr. G. Balakrishnan, M.E., Ph.D., Principal Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012.



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/MsSumitha.A ofIIIThas
successfully completed the Value Added Course on "Speech Recognition Technology in Natural
Network" organized by Department of InformationTechnology and IQAC of our Institution in
Association with Novi Tech pvt.Ltd Technologies from 19 TH DECEMBER 2022 to 23 rd DECEMBER
2022 (5days) during the Academic year 2022-2023.

Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

Dr. G. Balakrishnan, M.E., Ph.D.,

Principal
Indra Ganesan College of Engineering
Main Road

IG Valley, Medural Main Road Manifembers, France 200 012. Principal



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Mr. A. R. Sooriyaoli,

Managing Director

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Dr. G. Balakrishnan, M.E., Ph.D.,

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Principal



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This is to certify that Mr/Ms.Meenatchi.A ofIII...-IT.....has successfully completed the Value Added Course on "Speech Recognition Technology in Natural Network" organized by Department of InformationTechnology and IQAC of our Institution in Association with Novi Tech pvt.Ltd Technologies from 19TH DECEMBER 2022 to 23 rd DECEMBER 2022 (5days) during the Academic year 2022-2023.

Mr. A. R. Sooriyaoli.

Managing Director

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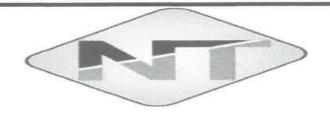
IG Valley, Madural Main Road Manikandam, Trichy-620 012.

Principal



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Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

Dr. G. Balakrishnan, M.E., Ph.D.,

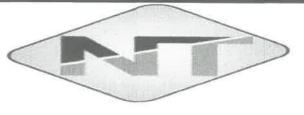
Indra Ganazan Chilings of Engineering IG Valley, Madurai Main Road Manikandam Trichy-620 012 Principal



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Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

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Indra Ganescr, Madural Main Road
IG Valley, Madural Main Road
Manikandam, Trichy-620 012.

Principal



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Mr. A. R. Sooriyaoli,

Managing Director

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Dr. G. Balakrishnan, 218.

Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012. Principal



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CERTIFICATE OF PARTICIPATION

Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

Dr. G. Balakrishnan, M.E., Ph.D.,

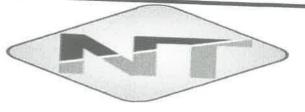
Indra Ganesan College of Engineering IG Valley, Madurai Main Road Manikandam, Trichy-620 012Principal



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This is to certify that Mr/Ms.vishalini.P ofIV...-IT.....has successfully completed the Value Added Course on "Speech Recognition Technology in Natural Network" organized by Department of InformationTechnology and IQAC of our Institution in Association with Novi Tech pvt.Ltd Technologies from 19TH DECEMBER 2022 to 23 rd DECEMBER 2022 (5days) during the Academic year 2022-2023.

Mr. A. R. Sdoriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

Dr. G. Balakrishnan, M.E., Ph.D.,

Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012

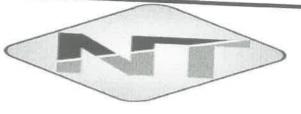
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Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

(D.:

Dr. G. Barbaran, M.E., Ph.D

Indra Ganesan College of Engineering IG Valley, Madural Main Road Manikandam, Trichy-620 012. Principal



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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms.Jeevitha.M ofIV...-IT.....has successfully completed the Value Added Course on ""Speech Recognition Technology in Natural Network"" organized by Department of InformationTechnology and IQAC of our Institution in Association with Novi Tech pvt.Ltd Technologies from 19TH DECEMBER 2022 to 23 rd DECEMBER 2022 (5days) during the Academic year 2022-2023.

Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

D

Dr. G. Balakrishnan, M.B., Ph.B.

Indra Ganesan College of Engineering
IG Valley, Madural Main Road

Principal



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Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

(D:-

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering

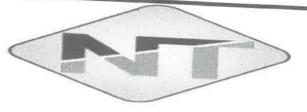
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This is to certify that Mr/Ms.Surya.A ofIV...-IT.....has successfully completed the Value Added Course on ""Speech Recognition Technology in Natural Network"" organized by Department of InformationTechnology and IQAC of our Institution in Association with Novi Tech pvt.Ltd Technologies from 19TH DECEMBER 2022 to 23 rd DECEMBER 2022 (5days) during the Academic year 2022-2023.

Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

(D.:

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madural Main Road
Manikandam, Trichy-620 012,

Principal



COLLEGE OF ENGINEERING

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Mr. A. R. Sooriyaoli,

Managing Director

Novi Tech R& D Pvt.Ltd

Dr. G. Balakrishnan, M.B., Ph.B.

Principal
Indra Ganesan College of Engineering
IG Valley, Madural Main Road
Manikandam, Trichy-620 012.

Principal