

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ADJICHUNG HANAGIRI INSTITUTE OF TECHNOLOGY CAMBried V.TUEdgam Recepted by A1C 7E, New Dokh & Accredited by NEA. New Dokho, Jyothinagar. Chikkamagaluru 577-102.



INTERNSHIP

Students of 8th semester ECE are hereby informed to present the **INTERNSHIP seminar on 1-4-2024 and 2-4-2024**, with respective guides and reviewers as per schedule mentioned without fail. Submit internship reports [one college copy and one student copy (optional)] and the dairy maintenance sheet on the day of seminar.

Note 1:

- 1.Consult respective guide and reviewer before 28-3-24 for presentation, for the preparation of report and PPT slides.
- 2 Prepare the INTERNSHIP report [minimum 20 pages] .
- 3.Discuss with guide and reviewer internship seminar report and PPT slides for the preparation & correction.
- 4. Refer Internship seminar rubrics, and evaluation is based on rubrics
- 5. Internship Seminar evaluation committee for 8th semester comprises of Guide, Reviewer, Coordinator and HOD.

NOTE 2: Flow for Internship report

- 1. Cover page
- 2. Certificate of the ECE department
- 3. Certificate of the company
- 4. Contents
- 5. List of figures
- 6. Introduction
- 7. About the company
- 8. Topics covered in the Internship.
- 9. Project Description
 - Block diagram and its Working
 - Methodology
 - Circuit diagram
 - Hardware components
 - Software components
 - Algorithm or flowchart
- 8. Reflection: Things learnt during internship programme with proof of learning, skills you have acquired from your work experience .
- 9. Conclusion
- 10. Appendix

A-SECTION

0	USN	NAME	ВАТСН	FACULTY INCHARGE	REVIEWER
	4AI20EC001	ABHISHEK M KARIKATTI			
_	4AI20EC002	ABHISHEK NITHYA	A1	Dr. A.P. JAGADEESH	
	4AI20EC003	ABHISHEK PRAJAPATI	9.30AM TO	CHANDRA	LINET DSOUZA
	4AI20EC004	ABHISHEK T C	12.30PM	Professor	Assistant Professor
	4AI20EC005	AKSHATHA K R	01-04-2024		
	4AI20EC006	ANOUSHKA T K			
	4AI20EC007	ANUSHA G K	A2	Dr. SUMA .M	NAGAVENI C R
	4AI20EC008	ANUSHA K R	9.30PM TO	Associate Professor	Assistant Professor
	4AI20EC009	ANUSHREE C J	12.30PM		
	4AI20EC010	ARPITHA H S	01-04-2024		
	4AI20EC011	ASHWINI KALARI			
	4AI20EC012	BASAVARAJU M M	A3	Dr. KUMUDA T	MANJULA U.R.
	4AI20EC013	BHAGYA SHREE K R	9.30AM TO	Professor	Assistant Professor
	4AI20EC014	BHARATH A L	12.30PM		7.55.564116 17.0165301
	4AI20EC015	BHARATH S	01-04-2024		
	4AI20EC016	ВНООМІКА В Ѕ			
	4AI20EC017	ВНООМІКА В L	A4		MADHUPRAKASH R
	4AI20EC018	BHOOMIKA P N	9.30AM TO	Dr. ANIL KUMAR C	Assistant Professor
	4AI20EC019	BHUVANA T G	12.30PM	Associate Professor	7.551514116 110165501
	4AI20EC020	CHARAN A	01-04-2024		
	4AI20EC021	CHETHANSHETTY C R			
	4AI20EC023	DARSHAN M BANGRE	A5		GIRISH .S
	4AI20EC024	DEEKSHITH L R	9.30AM TO	RAGHU KUMAR B S	Assistant Professor
	4AI20EC025	DEEPIKA T	12.30PM	Assistant Professor	7,00,000
	4AI20EC026	GAGANA URS G S	01-04-2024		9
	4AI20EC027	GIRIDHANYA C			
	4AI20EC028	GOWTHAM P	A6	Dr. H.R.VANI.	TASMIA NAMREEN A
	4AI20EC029	GREESHMA B R	9.30AM TO	Associate Professor	Assistant Professor
	4AI20EC030	HANUMANTH J URS	12.30PM		
	4AI20EC031	HARSHITHA M K	01-04-2024		
	4AI20EC032	HEMA C S			,
:	4AI20EC033	JEEVAN KUMAR G P	A7		HARISH KUMAR C R
;	4AI20EC034	KARTHIK B S	2.30PM TO	MAHESH D.S.	Assistant Professor
1	4AI20EC035	KAVANA S NAIK	5.30PM	Assistant Professor	1.55.55.21.11
; -	4AI20EC036	KAVYA K M	02-04-2024		
	4AI20EC037	KAVYASHREE URS C N			
:	4AI20EC038	KUSUMA B K	A8	MADHUPRAKASH R	
;	4AI20EC039	LIKHITH H D	2.30PM TO	Assistant Professor	Dr. ANIL KUMAR C
1	4AI20EC040	MADAN C R	5.30PM		Associate Professor
;	4AI20EC042	MADHAN GOWDA M	02-04-2024		

4A120	EC043	MAH	ASOOK AHMED			
4A120	EC044	MAH	ESH	A9	TASMIA NAMREEN A	Dr. A.P. JAGADEESH
4A120	EC045	MAN	OJ KUMAR R S	2.30PM TO	Assistant Professor	CHANDRA
4A120	EC046	MOH	NAMMED MOHTASHIM	05.30PM	Assistant Professor	Professor
4A120	DEC047	MON	NISHA S	02-04-2024		
4A12	0EC048	MOI	JLYA			
4A12	0EC049	MOI	JZIMA RUME	A10		5
4A12	.0EC050	NAC	DIYA IRAM	2.30PM TO	RAJAPPA.H.S	Dr. VANI H R
4A12	0EC051	NA	EEN V HIREMATH	5.30PM	Assistant Professor	Associate Professor
4AIZ	20EC052	_	/YA B K	02-04-2024		
	20EC053		IA M N			
	20EC054	_	HIL K S	_		
	20EC055		HITH R M	A11	LINET DSOUZA	Dr. SUMA .M
	20EC056		IKSHA K G	2.30PM TO	Assistant Professor	Associate Professor
	20EC115 21EC400		NCHAMI VIKA M U	5.30PM	/\SSIStant 1101000.	
	21EC400 21EC401	_	AGESH P	02-04-2024		
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1	4A120EC		NIRUPAM HEGDE M P	B1	LIADICII VIIIAAD CD	
3	4AI20EC		NISARGA S NISARGAKANTH K L	9.30AM TO	HARISH KUMAR .C.R Assistant Professor	MAHESH D.S.
4	4A120EC		NISCHITHA C V	12.30PM	Assistant Floresson	Assistant Professor
5	4A120EC		NISCHITHA H S	01-04-2024		
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SI.	USN	NAME	BATCH	FACULTY INCHARGE	REVIEWER
NO					
1	4AI20EC057	NIRUPAM HEGDE M P			
2	4AI20EC058	NISARGA S	B1	HARISH KUMAR .C.R	MAHESH D.S.
3	4AI20EC059	NISARGAKANTH K L	9.30AM TO	Assistant Professor	Assistant Professor
4	4AI20EC060	NISCHITHA C V	12.30PM		Assistant Floresson
5	4AI20EC061	NISCHITHA H S	01-04-2024		
1	4AI20EC062	NITHIN H M			
2	4AI20EC063	NITHIN N	B2	DIVYA .G.S	MEGHASHREE M
3	4AI20EC064	P V SAIGEETHIKA	9.30AM TO	Assistant Professor	Assistant Professor
4	4AI20EC065	PALLAVI S	12.30PM		Assistant Professor
5	4AI20EC066	POOJA MANJUNATH NAIK	01-04-2024		
1	4AI20EC067	POOJASHREE M N			
2	4AI20EC068	PRAGATHI S	B3	Dr. USHA K P	CHANDRAKALA C.T
3	4A120EC069	PRAJWAL S L	9.30AM TO	Assistant Professor	Assistant Professor
4	4AI20EC070	PRANEETHA K	12.30PM		
5	4AI20EC071	PREKSHA C Y	01-04-2024		
1	4AI20EC072	R PRATHIK			
2	4AI20EC073	RAHUL B N	B4		*********
3	4AI20EC074	RAKSHITH K	9.30AM TO	Dr. M.S.HARISH	ANITHA K.T
4	4AI20EC075	RAKSHITH N P	12.30PM	Associate Professor	Assistant Professor
5	4AI20EC076	RUDRESH L S	01-04-2024		
1	4AI20EC077	S V UNNATHI	B5		
2	4AI20EC078	SAFA ALI	9.30AM TO		RAJAPPA.H.S

	1A120EC080	SANMATHI H M	12.30PM	Dr. M. A. COLITIANA	T
	4AI20EC081	SHABAZ KHAN	01-04-2024	Dr. M.A.GOUTHAM	Assistant Professor
	4AI20EC082	SHAKTHI B S	32 3 7 2024	Professor & HOD	
1	4AI20EC083	SHEETHAL M			
- 2	4AI20EC084	SHREE SAMEEHANA R	-		
3	4AI20EC085	SHREE VISHNU N V	B6	MANJULA U.R.	Dr. KUMUDA T
4	4AI20EC086	SHREYA B M	2.30PM TO 5.30PM	Assistant Professor	Professor
5	4AI20EC087	SHWETHA H S	02-04-2024		
1	4AI20EC088	SNEHA N S			
2	4AI20EC089	SONIKA H P	B7	CHANDRAKALA C.T	DIVYA .G.S
3	4AI20EC090	SPOORTHI D N	2.30PM TO	Assistant Professor	Assistant Professor
4	4AI20EC091	SRUJAN K J	5.30PM		
5	4AI20EC092	SRUSTI B A	02-04-2024		
1	4AI20EC093	SUDEEP K P	50		
2	4AI20EC094	SUGAM GANESH K S	B8	ANITHA K.T	Dr. M.A.GOUTHAM
3	4AI20EC095	SUGAM K N	2.30PM TO 05.30PM	Assistant Professor	Professor & HOD
4	4AI20EC096	SUJAY URS C B	02-04-2024		110103301 01102
5	4AI20EC097	SUKHI D	02-04-2024		
1	4AI20EC098	SWAMY KOTRESH B			
2	4AI20EC099	SWARNA GOWRI K S	B9	MEGHASHREE M	Dr. USHA K P
3	4AI20EC100	SWATHI B P	2.30PM TO	Assistant Professor	Assistant Professor
4	4AI20EC101	SWATHISH H SHETTY	5.30PM	7,00.000	,
5	4AI20EC102	VAGDEVI M K	02-04-2024		
6	4AI20EC103	VAISHNAVI S R			
1	4AI20EC104	VARSHA C J			
2	4AI20EC105	VARSHINI S	B10		D. M. C. LIADICH
3	4AI20EC106	VARSHITH D N	2.30PM TO	NAGAVENI C R	Dr. M.S.HARISH Associate Professor
4	4AI20EC107	VARSHITHA S V	5.30PM	Assistant Professor	Associate Professor
5	4AI20EC108	VEDHASHREE C R	02-04-2024		
6	4AI20EC109	VINAYAK BHYRESH ONIMANI			
1	4AI20EC110	VINAYAKA M S			
2	4AI20EC111	VIVEK S M	B11	GIRISH .S	
3	4AI20EC112	YASHWANTH K N	2.30PM TO	Assistant Professor	RAGHU KUMAR B S
4	4AI20EC113	YOGISH N S	5.30PM		Assistant Professor
5	4AI21EC402	NANDASHREE A G	02-04-2024		
6	4AI21EC403	SAHANA K R			

Tasmia Namreen A

INTERNSHIP CO-ORDINATOR

Dr.M A Goutham

HOD

Professor & Head

Pent of Electronic & Communication Serving institute of Technolog

Chikmagalur - 577 102



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY (ASSESSED Y.L.U.E. Exercised by ALCTE, New Dallo & Accepted by N.B.A., New Dallo Jacthinagae, Chikkamagaluru-577, 102.



Date: 12/02/2023 TO 21/03/2024

INTERNSHIP ON INDUSTRY 4.0, THE NEXT INDUSTRY REVOLUTION.

		Student Registrat	rion
Sl. No.	USN	Name	Signature
1	4A120EC001	ABHISHEK M KARIKATTI	Allen
2	4AI20EC002	ABHISHEK NITHYA	wittya
3	4AI20EC003	ABHISHEK PRAJAPATI	Rugha.
4	4AI20EC004	ABHISHEK T C	ABFIGHIL TC
5	4AI20EC006	ANOUSHKA T K	Anin
6	4A120EC007	ANUSHA G K	Arusha Gr. K.
7	4AI20EC008	ANUSHA K R	Anusha. K.R.
8	4A120EC009	ANUSHREE C J	an true
9	4AI20EC010	ARPITHA H S	ditto H.S
10	4AI20EC011	ASHWINI KALARI	Ashiri RUL.
11	4AI20EC012	BASAVARAJU M.M	Boundary M
12	4AI20EC013	BHAGYA SHREE K R	Bogyashowick
13	4AI20EC014	BHARATH A L	BIARATU FI
14	4AI20EC015	BHARATH S	tell
15	4AI20EC016	ВНООМІКА В Ѕ	Bhoomika BS
16	4AI20EC017	ВНООМІКА В L	Boonita
17	4AI20EC018	BHOOMIKA P N	Bhomile
18	4AI20EC019	BHUVANA T G	Bhuranas Tg
19	4A120EC021	CHETHANSHETTY C R	Chethar Streets
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21	4A120EC024	DEEKSHITH L R	Lith!
22	4A120EC025	DEEPIKA T	
23	4A120EC026	GAGANA URS G S	Gages .
24	4AI20EC027	GIRIDHANYA C	Coridland
25	4AI20EC028	GOWTHAM P	Thousand .
26	4AI20EC029	GREESHMA B R	

	27	4AI20EC030	HANUMANTH J URS	Huss
	28	4AI20EC031	HARSHITHA M K	Helaink
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	30	4AI20EC033	JEEVAN KUMAR G P	Carl
	31	4AI20EC034	KARTHIK B S	Korttuk.BS
	32	4AI20EC035	KAVANA S NAIK	Kavane. SMalk
	33	4AI20EC036	KAVYA K M	gavano. Smark
1	34	4AI20EC037	KAVYASHREE URS C N	
	35	4AI20EC038	KUSUMA B K	Kampshee
	36	4AI20EC039	LIKHITH H D	7600
	37	4A120EC040	MADAN C R	Lideno.
	38	4AI20EC042	MADHAN GOWDA M	Mula
	39	4AI20EC043	MAHASOOK AHMED	madhan gowda, m
	40	4AI20EC044	MAHESH	Malegolo
	41	4AI20EC046	MOHAMMED M	Mosker
	42	4AI20EC047	MONISHA S	Voat 1.
	43	4AI20EC048	MOULYA	Maha S
	44	4AI20EC049	MOUZIMA RUME	Moulya of. N.
	45	4AI20EC050	NADIYA IRAM,	Mouzina Rune
	47	4AI20EC051	NAVEEN V HIREMATH	Abrua Bund
	48	4AI20EC052 4AI20EC053	NAVYA B K	Afails
	49	4AI20EC054	NEHA M N	MACA AG
	50	4AI20EC055	NIKHITH R M	Nillel KC
	51	4AI20EC056	NIRIKSHA K G	Nikith R.M
	52	4AI20EC115	PANCHAMI K G	No
	53	4AI21EC401	MAGESH P	Janyhani, K. C.
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Signature of the Coordinator

Signature of the HOD

Professor & Head

Dept. of Electronics & Communication Engg
Adichunchanagiri Institute of Technology.

Chikmagalur - 577 102



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY (Adiased V.T.U.Edgium Ecopused by AICTE, New Delta & Actividad by N.E.A., New Delta Junibility again. Chikkamagaluru-577 102.



Date: 12/02/2023 TO 21/03/2024

INTERNSHIP ON INDUSTRY 4.0, THE NEXT INDUSTRY REVOLUTION.

-		Student Regi	
Sl. No.	USN	Name	Signature
1	4AI20EC057	NIRUPAM HEGDE M P	Nisufant light
2	4AI20EC058	NISARGA S	Ja. S
3	4AI20EC059	NISARGAKANTH K L	od angles
4	4AI20EC061	NISCHITHA H S	New
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7	4AI20EC064	P V SAIGEETHIKA	Get tite a
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9	4AI20EC066	POOJA M NAIK	Carjo
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11	4AI20EC068	PRAGATHI S	Prans
12	4AI20EC069	PRAJWAL S L	poujur
13	4AI20EC071	PREKSHA C Y	Packers.
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15	4AI20EC074	RAKSHITH K	Pakshith ok
16	4AI20EC075	RAKSHITH N P	12
17	4AI20EC076	RUDRESH L S	Rudresh
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25	4AI20EC088	SNEHA N S	Snyha N-S
26	4AI20EC089	SONIKA H P	Ass

27	4AI20EC091	SRUJAN K J	
28	4AI20EC092	SRUSTI B A	Att
29	4AI20EC093	SUDEEP K P	Sudap K. 1°
30	4AI20EC094	SUGAM GANESH K S	SA-
31	4AI20EC095	SUGAM K N	Svan X.D.
32	4AI20EC096	SUJAY URS C B	Ciray
33	4AI20EC097	SUKHI D	S. V.D
34	4AI20EC098	SWAMYKOTRESH B	Sypany totresh B
35 .	4AI20EC100	SWATHI B P	State of the New B.
36	4AI20EC101	SWATHISH H SHETTY	R
37	4AI20EC102	VAGDEVI M K	Vagdui Kad
38	4AI20EC103	VAISHNAVI S R	Ramon
39	4AI20EC104	VARSHA C J	VOINSLO C. J
40	4AI20EC105	VARSHINI S	Varhine S
41	4AI20EC106	VARSHITH D N	
42	4AI20EC109	VINAYAK BHYRESH ONIMANI	Karshith.
43	4AI20EC110	VINAYAKA M S	Vinayaka -
44	4AI20EC111	VIVEK S M	10
45	4AI20EC112	YASHWANTH K N	VIVEK S.M
46	4AI20EC113	YOGISH N S	darhwonth to.
47	4AI21EC402	NANDASHREE A G	Yoyish Nandaolara
			Nandashore , A.by

Signature of the Coordinator

Signature of the HOD Professor & Communication Eagy Dapt, of flactionics & Communication Eagy Adichunchanoglil Institute of Technology Chikmayalur - 577 102

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1	4AI20EC001	ABHISHEK M KARIKATTI	P	P	P	P	P	P		P	P		P	P	D	P	P	P	17 P	18	19	-	-	22	23	24	\dashv	
2	4AI20EC002	ABHISHEK NITHYA	P	P	P	P	D	Ť.	P	P	P	P	,	P	,	P	7	P	P		P	P	P	p	·	P	\dashv	_
3	4AI20EC003	ABHISHEK PRAJAPATI	P	P	P	<u> </u>	P	P	-	p	P	P	P	12	P	P	D	P	B	_	,	P	P	•	p	p	\dashv	_
1	4AI20EC004	ABHISHEK T C	۵	P	P	P	P	_	12	P	P	P	P	P	P	P	P	P	P	P	P	-	-	P	Р	R	-	_
5	4AI20EC006	ANOUSHKA T K	P	p	P	P	P	D		P	P	P	P	P	P	P	P		P	P	P	P	P		P	P	_	_
5	4AI20EC007	ANUSHA G K	P	P	ت	P	P	/	P	P	P	P	P	1	P	,	P	p	P	γ γ		2	/	P	٠	رر		
7	4AI20EC008	ANUSHA K R	P	P	P	D	,	P	P	P	P		P	P	9	9	9	-	P	7	?	P	P	P	P	P	-	_
	4AI20EC009	ANUSHREE C J	P	P	P	1	P	-	P	P	P	P	P	V	0	p	P	ρ	P		P	-	P	ر ر	P	P	\dashv	
	4AI20EC010	ARPITHA H S	P	P	١.	P	P	P	P	· P	D	P	P		P	-4	P	P		3	<u>ر</u>	9	2	P	Р	P	_	
	4AI20EC011	ASHWINI KALARI	P	P	P	P	P	P	P	2	·	P	P	. 9	P	P	1	P	D	P	P	P	P P	P	P	P	_	
	4AI20EC012	BASAVARAJU M M	P	P	P		D	12	P	P	P	P	P	P	P	P	·			P	•	_	/	P	-	P	\dashv	
1	4AI20EC013	BHAGYA SHREE K R	19	-	P	P	P	P	P	D	7	P	P	P	P		P	P	P	-	•	b	P	7	و	P	-	
	4AI20EC014	BHARATH A L	p	P	P	P	P		3	P	,	P	P	P	p	P		P	P	P	P	P	P	P	R	2	\dashv	_
1	4AI20EC015	BHARATH S	P		P	P	p	P	٦	P	P	i	P	P	<i>'</i> .	P	p	P	P	P	-		P	-	P	R	-	_
1	4AI20EC016	ВНООМІКА В S	P	Р	P	P	P	P	G G	-	P	D	P	P		P	P	P	9	P	P	P	- P	P	_	-	+	_
	4AI20EC017	ВНООМІКА В L	P	P	P	P	,	p	7	P	v	D	P	P	p	P	-	-	P	P	P	. /	-	9	P	P	_	_
	4AI20EC018	BHOOMIKA P N		2	P	P	Р	P	P	P	P	D	P	P	P	P	P	p		/	P	P	P	9	/	P	\perp	_
	4AI20EC019	BHUVANA T G	P	P	P		P	P	P	D	P	2	P	P	P	2		P	-	P	/	P	P	P	P	P	_	_
	4AI20EC021	CHETHANSHETTY C R	P	P	ρ	P	D	P	9	,	P	P	P	P	7	D	P	P	P	-	P	/	P	2	P	P	\perp	4
1	4AI20EC023	DARSHAN M BANGRE	P	P	,	P	P	2	P	D	0	P	P	9	P	/	p	P	Р	•	P	P		P	p	P	\perp	_
		DEEKSHITH L R	D	D	,	P	P	D	P	P	P	P	P	9	/	7	-		P	•	P	P	P	P	P	2	_	
	1AI20EC025		D	P	P	P	D	D	P	<u>'</u>	_	-	P	7	P	P	P	-		P	-	9	2	P	P	P	\perp	
1	A120EC026	GAGANA URS G S	P	P	P	P	P	,	-	/	P	P	P	P	P	P	/-	P	P	•	3	1	_	P	P	P	\downarrow	
		GIRIDHANYA C	P	P	,	P	- +	P	P	D	v	P	' +	$\frac{r}{\rho}$	/	P		/	-	-	-	_	P	P	P	P	4	
4	AI20EC028	SOWTHAM P	p.		P	P	P	_	_	/	P	D	P	r	P	P	p	P	1 '	_	7	-	P	P	P	P	\perp	
4	AI20EC029	GREESHMA B R	P	P	P	P		-	P	9	P	P	D	P	r	<u>r</u>	_	P	P	P P	P	P	P	P	P	P R	\dashv	$ \bot $

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27	4A120EC030	HANUMANTH J URS	6	2 و	3	0	ρ		0	6	8	P	8	ρ	P	P	P	P		Ţ	P	8	P	P	P	P	\vdash	+
28		HARSHITHA M K	P	10	-	1	0	G	6	P	0	6	6	8	e	P	8		P	P	P	1	8	P	P	P	<u> </u>	\vdash
29	4A120EC032		P	1	9	ρ.	0	1	6	1	8	8	P	P	P	P	P	P	P	P	R	8	P	P	P	P		
30		JEEVAN KUMAR G P	P	P	<u> </u>	1,	P		-	P	P	P	0	P	8	P	,	P	P	P	P	P	P	P	P	P		
31		KARTHIK B S	P	0	P	1	P		P	P	-	P	P	P	P	P	P	P	P	P		r	P	P	P	P		
32		KAVANA S NAIK	P	P	P	P	P	P	P	P	P	P	P	8	P	e	'	P	P	P	6	P	P	7	P	181		
33	4A120EC036		P		P		P		P	P		P	8	D	P	P	p	8	P	P		R	P	P	P	P		
34		KAVYASHREE URS C N	b	P	P	P	P	P		P	ρ	<u> </u>	6	0	P	P	0		P	P	P	8	0	P	p	P		
35		KUSUMA B K	P	P	0	P	6	ρ.	P	P	<u>'</u>	P	P	P	-	P	P	P	P	P	P	_	P	P	P	P		
36		LIKHITH H D	1 8	P	0	6	6	P	0	ρ	þ	-	P	P	P	P	Þ	P	\ I	P	9	P	P	1	P	·		\perp
37	4AI20EC040	MADAN C R	P	ρ	P	P	P	P	6	8	P	P	P	P	P	•	P		-+	9	1	-	P	-	•	P	\perp	\perp
38	4A120EC042	MADHAN GOWDA M	P	P	P	P	B	P	P	P	P	P	Q	P	8	P	P	8	• -	٩	P		P	PIF	-	P	+	+
39	4A120EC043	MAHASOOK AHMED	P	P	P	P	p	P	6	P	P	P	P	1	P	-	P	-		P		-	-	• -		P ·	+	+
40	4A120EC044	MAHESH	P	P	P	0	P	P	P	P	P	P	P	P	P	ρ	P	U	1	2	A	1	PF			PΙ	+	-
41	4A120EC046	MOHAMMED M	b		P	9	P	8	P	P	P	6	Р		9			•	P 6		<u> </u>		PIF	- i ·	1,		+	\vdash
42	4A120EC047	MONISHA S	P	P	P	P	J	6	P	P	P	P	P	r	1	P		•	`-	1	4	1	P	++	1 9	+-	+	\vdash
43	4A120EC048	MOULYA	P	P	,	P	P	P	P	8	8	0	P	P	P	\leftarrow	-	8 (Plf			+ •	11		-	-
44	4A120EC049	MOUZIMA RUME	٩	P	P	P	P	P		P	P	P	P	P	P	\vdash	,	•	PIG		PP	- 1 7	+	_	18		\vdash	Н
45	4A120EC050	NADIYA IRAM	9	P	ρ	ρ	P	P	6	P	P	8.		P	P	1	9 6	_	PF		<u> </u>	10	_	+-	18		\vdash	\vdash
46	4AI20EC051	NAVEEN V HIREMATH	P	P	P		9	P	P	P	8	8	P	1		PI	P 6		P	_	_	- '	P	8	P	+ +	\vdash	\dashv
47		NAVYA B K	9	P	6	P	P	P		P	P	P	ρ	P	6	P	P 6	_	· . (16) p	βρ	P		P	\sqcup		\dashv
48	_	NEHA M N	P	P	P	P	0	8	P	P		P		P		0 6	P 8	, {	P	P			P	-	8	\vdash	+	\dashv
49	4AI20EC054	NIKHIL K S		P	P	P	P	P	P	P	8	P	e	P	2		0 6		6	P		+-	P	P	ρ	\vdash	+	\dashv
50	4AI20EC055	NIKHITH R M	9	P	P	ø	P	P	P	P	6	P	P	P 1	P (,	PF		P	10		٩	P	ρ	P	\vdash	+	\dashv
51		NIRIKSHA K G	P	P	ρ	9	8	6	P	P	0	P		PF		, ,			P	16		1 8	P	P	P	-	+	\dashv
5:		PANCHAMI K G	P	ρ	P	.]	(P	P	P	<u> </u>	P	-	PF			P		I P	P		P	P	9	P	+	+	\dashv
5	_		P	P	6	8	9	P	12	P	P	,		P -	F				C	6	IP	P	P	1	P	+	+	\dashv
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1	4AI20EC057	NIRUPAM HEGDE M P	P	P	Ρ	P	P	P	P	•	P	P	P	P	P	P	P	P	ρ	٠	P	P	•	P	7	P			
2	4AI20EC058	NISARGA S	P	5	P	P	J	9	P	P	P	P	•	P	7	P	P	P	P	P	Р	P	P		P	b			
3	4AI20EC059	NISARGAKANTH K L	P	7	9	9	9	P	9	P	P	•	P	P	P	P	P	8	•	P	P	P	P	P	P	12			
4	4AI20EC061	NISCHITHA H S	P	P	7	P	P	P	8	P	P	P	P		P	P	P	P	P	P	P		P	P	P	P			
5	4AI20EC062	NITHIN H M	P	q	P	•	P	P	Þ	9	P	P	9	P	P		P	P	P	P	P	P	P	P	P	P			
6	4AI20EC063	NITHIN N	P	P	P	9	P	P	P	P	P	P	P	P	P	P	P	P	P		P	P		9	P	P	П		
7	4AI20EC064	P V SAIGEETHIKA	9	P	P	9	P	P	P	P	P	-	7		0	P	P	P	P	P	P		P	P	D	D	\Box		
8	4AI20EC065	PALLAVI S	P	ð	P	9	p	P		6	P	P	P	P	P	P	P	P	P	D		9	P	P	0		П		
9	4AI20EC066	POOJA M NAIK	P	P	P	•	P	P	P	P	P	P	P	P	P	P		P	,	p	P	P	P	5	P	P			
10	4AI20EC067	POOJASHREE M N	P	•	P	P	p	P	D	P	P	P	D	p	P	,	P	P	P	P	P		P	P	P	P			
11	4AI20EC068	PRAGATHI S	8	P	G	Þ	P	D	P	Р	p	,	P	P	P	P	2		P	p	P	P	,	P	P			П	
12	4AI20EC069	PRAJWAL Š L	D	b	9	P	9	P	P		P	P	P	P		P	P	P	P	P	P	P	P	P	P	0	\Box	\Box	
13	4AI20EC071	PREKSHA C Y	7	P	P	٠	b	P	9	P	P	P		p	P		P	P	P	P	P	P	P	D	0	P			
14	4AI20EC072	R PRATHIK	8	P	p	P	Р	P	P	P	,	P	၉	p	D	P	P	P	0	ρ	p	1)	p	-	P	D			
15	4AI20EC074	RAKSHITH K	P	P	P	P		P	P	?	P	2	P	٥	P	P	ρ	D	P	ρ	P	p	0	P	p	٠			
16	4AI20EC075	RAKSHITH N P	P	P	P	P	Р	D	P	P	P	D	p	P	p	•	P	P	P	-	?	_	P	P	D	p			
17	4AI20EC076	RUDRESH L S	P	P	P	P	P	p	p		D	p	P	ρ	P	0	P	p	-	ρ	P	P	ก	P	0	P		\dashv	
18	4AI20EC077	S V UNNATHI	3	7	7	-	P	P	P	7	D	9		p	þ	D	P	Đ	P	,	D	,	P	D	Q	P		\dashv	
19	4AI20EC081	SHABAZ KHAN	P	9	P	P	P	P	0	P	P	•	P	P	P		P	p	•	P	-	,	P	•	P	P		\dashv	
20	4AI20EC082	SHAKTHI B S	P	P	P	P	P		P	P	P	P	٠	P	P	P	P	p	0	P	-	P	9	P	D	*		\dashv	
21	4AI20EC083	SHEETHAL M	P	P	٠	P	9	Р	p	P	P	P	P	?	p	P	P		-	P	-	p	P	P	P	P		\dashv	_
22	4AI20EC085	SHREE VISHNU N V	P	P	2	P	P	D	þ	P	P	p	P	P	P	P	D	ก	ρ	P	P	P	7	P	P	P	\vdash	\dashv	
23	4AI20EC086	SHREYA B M	•	P	P	P	P	P	P	P	P	0	þ	7	P	ρ	0	6	U	D	D		5	D	P	P	+	+	_
_24	4AI20EC087	SHWETHA H S	P	P	P	P	G	P	D	9	P	P	P	9			P	ρ	P	P	-		-	þ	p			\dashv	
25	4AI20EC088	SNEHA N S	P	P	P	p	P	ρ	P	P	P	P	P	P	ρ	P	Ď	р	\rightarrow	P	_	P	<u>`</u>	P		· .	\dashv	+	_
_26	4AI20EC089	SONIKA H P	•	5	P	P	•	P	P	P	P	P	p	,	P	P	p	P	p	O	p	-	P	P	ρ	ρ	+	\dashv	_
_27	4AI20EC091	SRUJAN K J	P	þ	Ρ	٩	P	ρ	p	Ρ	•	P	P	Р	a	P		P	ρ	p	P	ρ	-	P	_	2	+	+	_
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28	4AI20EC09	SRUSTI B A	9	1	P	P) P	P	P	P	P	P	P	P	P	P	P	P	P	•	P		P	P	P	P			T
29	4AI20EC093	SUDEEP K P	P	7		9	P	P			12		3	ก	P		P	P	P	P	P	P	P	•	P	P			T
30	4AI20EC094	SUGAM GANESH K S	19	17	0	P	6	P	P	19	9	9	P	P	P	D	P	P	P	P	D	P	4	P	P				T
31	4AI20EC095	SUGAM K N	T	17	18	7	8	P	P	P	P	P	P	P	P	2	P	9		P	þ	P	B	P	P	P			T
32	4AI20EC096	SUJAY URS C B	7	12	18	P	-	P	P	P	P	P	P	P	P	P	P	P	0	2	P	0	P	+-	+-	P			t
33	4AI20EC097	SUKHI D	12	P	12	P	P	10	P	P	P		P	P	n	D	9	P	,	7	P	P	P	P	+-	+		\vdash	T
34	4AI20EC098	SWAMYKOTRESH B	. 17	_	P	P	P	P	2		P	P	•	P	2	,	D	_	P	P	P	D	2	P	P		\vdash		t
35	4AI20EC100	SWATHI B P	9		P	P		P	P	P	D	P	P	P	P	0	P	D	9	0	•	P	P		p	P	-	\vdash	\vdash
36	4AI20EC101	SWATHISH H SHETTY	P	8	_	P	1.	P	P	p	P	2	P	P	P	D	D	p	P	P	P	P	P	P	P	P	$\mid \rightarrow \mid$		\vdash
37	4AI20EC102	VAGDEVI M K	12	12	_	P	P	P		P	D	2		P	P	7	•	P	P	P	P	P	D	P	P	D	\vdash	\vdash	H
38	4AI20EC103	VAISHNAVI S R	P	$+\cdot$	10	P	P	P	P	þ	P	P	P	P	P	9	P	P	P	P	P		D	2		P	٠.		\vdash
39	4AI20EC104	VARSHA C J	12	18	_	P	2	P	-	P	D	P	D	P	P	0	•	P	p	P	P	P	P	5	P		\vdash		H
40	4AI20EC105	VARSHINI S .	12	P		P	P		p	7	D	,	D	P	P	P	P	P	P	P	•	P	P	P	P	p			\vdash
41	4AI20EC106	VARSHITH D N	P	P	P	P	P	P	D	P	p	P	D	P	P	_		P	P	P	P	P	F	P	D	P			H
42	4AI20EC109	VINAYAK BHYRESH ONIMANI	12	3	+ -	P	10	,	P	2	P	2	P	P	p	P	D	P	P	12	,	P	P		D	D	\dashv		\vdash
43	4AI20EC110	VINAÝAKA M S	P	P	12	P	P	P	2	P	p	P	p	7		P	P	P			P	-	P	P	-	D		\dashv	\vdash
44	4AI20EC111	VIVEK S M	P	P	7	P	P	P	P	P	P	P	p	P	P	P	P	P	P		7	4	P	P		,			\vdash
45	4AI20EC112	YASHWANTH K N	P	P		q	P	P	P		p	P	P	P	P	P	P		P	P	P	P	P	P	P	P			T
16	4AI20EC113	YOGISH N S	P	7	9	9	P	P	P	P	P	P		P	P	P	7	\rightarrow	P	p	P	P		P	,	P			H
17 4	1AI21EC402	NANDASHREE A G	P	P	P	P		P	P	ρ	ρ	P	P	P	P		P	_	p	-	P	P	P	P	7	P	\dashv	\dashv	
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|| Jai Sri Gurudev || SRI ADICHUNCHANAGIRI SHIKSHANA TRUST *

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING JYOTHINAGAR, CHIKKAMAGALURU - 577 102





(Affiliated to Visvesvaraya Technological University, Belagavi) Approved by AICTE New Delhi, Accredited by NAAC

Report

Internship on "Industry 4.0: The Next Industry Revolution"

Internship Description: Four weeks Internship was conducted for final year students on the title "Industry 4.0, The Next Industry Revolution" conducted in department of ECE, AIT Chikamagaluru by Loginware softtec Pvt Ltd Bangalore from 12.02.2024 to 21-03-2024. Total number of students benefited by this Internship are 102. The objective of this Internship is to enhance the knowledge in the field of IOT, Raspberry Pi, Python Applications and Industry 4.0.

Resource Persons:

Thejesh P, Director, Loginware Softec Pvt Ltd and team members.

Contact: 9916609819



Signature of the Coordinator

Signature of the Hall

Dept. of Electronics & Communication Eng: Adichunchonegiri Institute of Technology, Chikmagalur - 577 102



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Date: 06/11/2023

INTERNSHIP - AWS and Python

		Student Registr	ation
Sl. No.	USN	Name	Signature
1	4AI21EC054	POORNIMA H G	Toawna
2	4AI21EC055	PRAGNA J	(Konto)
3	4AI21EC056	PRAJWAL L	Faqual
4	4AI21EC057	PRAMOD GOWDA T E	Agamod_
5	4AI21EC058	PRANAMYA G	Jal.
6	4AI21EC059	PRIYA H S	Posya the
7	4AI21EC060	PRIYANKA H J	Beauty
8	4AI21EC061	PRIYANKA H S	Por youta-Th
9	4AI21EC062	PRUTHVI V	Prendfaven, V
10	4AI21EC063	PRUTHVI V P	Pruthve V.P
11	4AI21EC065	PUNITH T R	Kaneth
12	4AI21EC066	RAKSHITH C N	Talilyte.cn
13	4AI21EC067	RAKSHITHA K U	Parehett-
14	4AI21EC068	RAMYA P B	
15	4AI21EC069	ROHINI N C	Thini N.C
16	4AI21EC070	RUMANRAZA M WALIKAR	Lunder
17	4AI21EC071	SANJAY J K	Long and &
18	4AI21EC072	SATHISH S V	(Batush)
19	4AI21EC073	SHALINI B'S	Stralin B. S.
20	4AI21EC074	SHANVI D	ghanni.
21	4AI21EC075	SHARATH K Y	Phonet S.
22	4AI21EC076	SHARATH R	daath
23	4AI21EC077	SHASHANK A N	Cashanti.
24	4AI21EC080	SHASHANK H L	Gasto HC
25	4AI21EC081	SHIVESH DEV K M	Level
26	4AI21EC082	SHRESHTA A D	£aesh19



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY (Address VIllegters Recognised to ATC T.E., New Delta & Accordant by N.B.A. New Delta) Justinagal. Chickamagaluru 5°° 102

(A)

Date: 06/11/2023

INTERNSHIP-AWS and Python

		Student Registration	n
Sl. No.	USN	Name	Signature
1	4AI21EC001	ABHISHEK K M	Abhishuk K.M.
2	4AI21EC002	AKANKSHA C	Aluke.
3	4AI21EC003	ANANYA M	Soul M.
4	4AI21EC004	ANKITH P	Aut PHP
5	4AI21EC005	ANKUSH D D	Autush D.D
6	4AI21EC006	ANUSHA A	Anala.
7	4AI21EC007	ANUSHREE J K	Aus
8	4AI21EC008	ASHWIN GOWDA S J	\$-5.T.
9	4AI21EC010	BENAKESH S N	Ben
10	4AI21EC011	BHAVANA H P	Bhlup-
11	4AI21EC012	внооміка в с	Bhooming.C
12	4AI21EC013	BHUMIKA D M	Bhas
13	4AI21EC014	BIBI SWAGRA	Bi Bi Suga.
14	4AI21EC015	CHAITHANYA J	chathanyo.7-
15	4AI21EC016	CHAITHRA L P	Cha <u>i</u> tha L.p
16	4AI21EC017	CHANDANA K	chandang.D.
17	4AI21EC018	CHANDANA PATIL C S	ca ca
18	4AI21EC019	CHANDRAKANTH S M	Charlet.
19	4AI21EC020	CHETHAN N M	Chethan
20	4AI21EC021	DARSHAN S	Doublin
21	4AI21EC022	DARSHINI B	Daushini
22	4AI21EC023	DEEKSHA K B	Derlotha KB
23	4AI21EC024	DEEKSHA K R	Derlyh KP
24	4AI21EC025	DEEPAK M S	Duf-1.
25	4AI21EC027	DEEPAKRAJ R B	Ocepikay · R.B
26	4AI21EC028	DHANUSH GOWDA H	Phanest

Professor & Head :
Dept. of Electronics & Communication Engg
Adichunchanagiri Institute of Technology
Chikmagalur - 577 102



DEPARTMENT OF FLICTRONICS AND COMMUNICATION ADICHUNG HANAGIRI INSTITLL IF. OF TECHNOLOGY ADICHUNG HANAGIRI INSTITLL IF. OF TECHNOLOGY (Affirm Ecognised by AICTE New Dails & Accepted by N.B.A. New Dails) Jyothinagar, Chikkamagaliin 5⁻¹ 102.



INTERNSHIP on

Amazon Web Services and Software development using Python

6th Sem A -SECTION

	o sem A	-SECTION	Guide	Reviewer	
Sl.no	USN	Student	Guide	NCVICWE!	
1	4AI21EC001	ABHISHEK K M			20-06-2024
2	4AI21EC002	AKANKSHA C	MAHESH D.S.	Dr.	
3	4AI21EC003	ANANYA M	Assistant	M.A.GOUTHA M	2.30PM TO 5.30PM
4	4AI21EC004	ANKITH P	Professor	Professor & HOD	5.508101
5	4AI21EC005	ANKUSH D D		11010000	
6	4AI22EC406	CHETHAN V			
1	4AI21EC006	ANUSHA A		Dr. SUMA .M	20-06-2024
2	4AI21EC007	ANUSHREE J K	Dr.	Associate Associate	20-06-2024
3	4AI21EC008	ASHWIN GOWDAS	M.S.HARISH Associate	Professor	2.30PM TO
4	4AI21EC010	BENAKESH S N	Professor		5.30PM
5	4AI21EC011	BHAVANA H P			
6	4AI22EC407	DAYANANDA H L			
1	4AI21EC012	BHOOMIKA B C			
2	4AI21EC013	BHUMIKA D M		D HOLLY K D	20-06-2024
3	4AI21EC014	BIBI SWAGRA	Dr. KUMUDA T	Dr. USHA K P Assistant	
4	4AI21EC015	CHAITHANYA J	Professor	Professor	2.30PM TO
	4AI22EC424		J.	1 10103301	5.30PM
5		SHASHANK K G			
6	4AI22EC408	DEEPU P			
1	4AI21EC017	CHANDANA K		MADIHIDDAV	
2	4AI21EC018	CHANDANA PATIL CS	HARISH KUMAR .C.R	MADHUPRAK ASH R	20-06-2024
3	4AI21EC019	CHANDRAKANTH S M	Assistant Professor	Assistant Professor	2.30PM TO 5.30PM
4	4AI21EC020	CHETHAN N M			3.501 101
5	4AI21EC021	DARSHAN S			
6	4AI22EC413	INDIKA G			
1	4AI21EC022	DARSHINI B	DIVIVA C.C.		
2	4AI21EC023	DEEKSHA K B	DIVYA .G.S Assistant	NAGAVENI C	20-06-2024
3	4AI21EC024	DEEKSHA K R	Professor	R	
4	4AI21EC025	DEEPAK M S	1 10103501	Assistant	2.30PM TO
5	4AI21EC027	DEEPAKRAJ R B		Professor	5.30PM

				1	
6	4AI22EC414	KANAKRAJ H R			
		DHANUSH GOWDA			
1	4AI21EC028	H		MANJULA	20-06-2024
2	4AI21EC030	GOWDA ABHISHEK SHRINIVAS	Dr. A.P.	U.R.	
3	4AI21EC031	GOWTHAM B G	JAGADEESH CHANDRA	Assistant	2.30PM TO
4	4AI21EC033	JEEVAN R M	Professor	Professor	5.30PM
5	4AI21EC034	KARTHIKEYAN J	Tolessor		
6	4AI22EC415	KARANRAJ H R			
1	4AI21EC035	KAVANA K S		HARISH	27-06-2024
2	4AI21EC036	KEERTHANA LS	CHANDRAKAL	KUMAR C R	27-00-2024
3	4AI21EC037	LIKHITHSV	A C.T	Assistant	2.30PM TO
4	4AI21EC038	LIKITHA C M	Assistant Professor	Professor	5.30PM
5	4AI21EC040	MANJUSHREE K S	Piotessor		
6	4AI22EC418	NAVEEN H L			
1	4AI21EC042	MANUPATEL S P			27-06-2024
2	4AI21EC043	MANYA U		Dr. ANIL	27-00-2024
3	4AI21EC044	MEGHANA R	LINET DSOUZA	KUMAR C	2.30PM TO
		MOHAMMED	Assistant Professor	Associate	5.30PM
4		WASIB	Professor	Professor	3,007
5		NAKUL P M			
6		PAVAN KUMAR C N			
1	4AI21EC047	NEHA G M	-	Dr. A.P.	27-06-2024
2	4AI21EC048	NIDHI K M	ANITHA K.T	JAGADEESH	2 1
3		NIRANJAN G M	Assistant	CHANDRA	2.30PM TO
		NISHANTHGOWDA	Professor	Professor	5.30PM
4		VS	-		
_	4AI21EC051	NISHCHITHA M	-		
- (6 4AI22EC420	PUNITH R			27-06-2024
100	1 4AI21EC052		-	MEGHASHRE	
_	2 4AI21EC053		RAJAPPA.H.S	ΕM	2.30PM TO
-	3 4AI22EC400	ARPITHA CS	Assistant	Assistant	5.30PM
-	4 4AI22EC402	AVINASH H R	Professor	Professor	
-	5 4AI21EC016		-		
	6 4AI22EC423	SANDYA M			

B-SECTION

			D-SECTION		
1	4AI21EC054	POORNIMA H G			= 4
2	4AI21EC055	PRAGNA J	TAGAGA	Dr.	21-06-2024
3	4AI21EC056	PRAJWALL	TASMIA NAMREEN A	M.S.HARISH	
		PRAMOD	Assistant Professor	Associate	2.30PM TO
4	4AI21EC057	GOWDA T E	Assistant Professor	Professor	5.30PM
5	4AI21EC058	PRANAMYA G			
6	4AI22EC401	ARPITHA K R			
1	4AI21EC059	PRIYA H S			
2	4AI21EC060	PRIYANKA H J			21-06-2024
3	4AI21EC061	PRIYANKA H S	MANJULA U.R.	RAJAPPA.H.S	
4	4AI21EC062	PRUTHVI V	Assistant Professor	Assistant Professor	2.30PM TO
5	4AI21EC063	PRUTHVI V P		riolessoi	5.30PM
	4AI22EC403	BHAGAVANTRAY			
6		A SANKANOOR			
1	4AI21EC065	PUNITH T R			21-06-2024
2	4AI21EC066	RAKSHITH C N	D CLIMA M	MAHESH D.S.	21-06-2024
3	4AI21EC067	RAKSHITHA K U	Dr. SUMA .M Associate Professor	Assistant	2.30PM TO
4	4AI21EC069	ROHINI N C	Associate Holesson	Professor	5.30PM
1	4 4 101 F C 070	RUMANRAZA M WALIKAR			3.301 111
5	4AI21EC070 4AI22EC404	BHARATH M B			
6					247
1	4AI21EC071	SANJAY J K SATHISH S V	2		21-06-2024
3	4AI21EC072	SHALINI BS	GIRISH .S	Dr. KUMUDA	21 00 202
	4AI21EC073		Assistant Professor	T	2.30PM TO
4	4AI21EC074	SHANVI D	1.100.00.00.00	Professor	5.30PM
5	4AI21EC075	SHARATH K Y			
6	4AI22EC405	CHETHAN H S			
1	4AI21EC076	SHARATH R			
2	4AI21EC077	SHASHANK A N			21-06-2024
7		SHIVESH DEV K	RAGHU KUMAR B	DIVYA .G.S	
3	4AI21EC081	M	S	Assistant	2.30PM TO
4	4AI21EC082	SHRESHTA A D	Assistant Professor	Professor	5.30PM
_	4AI22EC428	VIJAYA KUMAR N			
5	4AI22EC409	GANESH KUMAR	1		
1	4AI21EC084	SINCHANA KS			
-	4/1/21EC004	SINCHANA	-	ANITHA K.T	28-06-2024
2	4AI21EC085	KAKADES	NAGAVENI C R	Assistant	20-00-2024
		SOMASHEKAR N	Assistant Professor	Professor	2.30PM TO
3	4AI21EC087	J			5.30PM
4	4AI21EC088	SONIYA G			
5	4AI22EC422	SACHCHIDANAN			
5		DA H		_	1

16	4AI22EC410	GIRISH A C			
1	4AI21EC089	SOWMYACG		DA CHILI	
2	4AI21EC090	SRUSTI C		RAGHU	22.26.2024
		SUHAS RATHOD		KUMAR B S Assistant	28-06-2024
3	4AI21EC092	CP	Dr. USHA K P	Professor	2.30PM TO
			Assistant Professor	1 10103301	5.30PM
4	4AI21EC093	SUPRITH R M			
5	4AI22EC425	SHASHIKIRAN M		· · · · · · · · · · · · · · · · · · ·	
	4AI22EC411	HARISH K S			
6		TEJASWINI R		08	28-06-2024
1	4AI21EC094	JAGADISH		GIRISH .S	
2	4AI21EC095	TEJU K B		Assistant	2.30PM TO
3	4AI21EC096	THARUN R	Dr. H.R.VANI.	Professor	5.30PM
4	4AI21EC097	THEJU A R	Associate Professor		
5	4AI21EC098	THULASI K			
6	4AI22EC412	HARSHA V			
0	4AI22EC427	SUNIL KUMAR M	,		
7		С			
1	4AI21EC099	ULLAS H J		LINET	28-06-2024
2	4AI21EC100	VARSHITH C P	MADHUPRAKASH	DSOUZA	
		VEENA R	R	Assistant	2.30PM TO
3	4AI21EC101	GOWDA	Assistant Professor	Professor	5.30PM
4	4AI21EC102	VINAY H B YASHASWINI C			
5	4AI21EC103	В			. " i
6	4AI22EC416	KAVYA B M			
1	4AI22EC417	MONIKA K M		CHANDD ATA	20.06.2024
2	4AI22EC421	RUDRESHA C S	*	CHANDRAKA LA C.T	28-06-2024
3	4AI21EC086	SIRI D A	MEGHASHREE M	Assistant	2.30PM TO
4	4AI21EC083	SHUBHA T M	Assistant Professor	Professor	5.30PM
5	4AI21EC091	SUHAS P	*	11010001	J.30F W
6	4AI22EC426	SNEHA S V			
7	4AI21EC063	PRUTHVI V P			

Tasmia Namreen A
INTERNSHIP CO-ORDINATOR

Dr:M A Goutham

Professor & Head

Dept. of Electronics & Communication Enag

Adichunchanagiri Institute of Technology,

Chikmagalur - 577 102

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_	4AI21EC003	ANANYA M	P	P		-	0	P	ρ	P	Ρ	P	P	P	P	P	P	P	P		P	ρ	P	9
4	4AI21EC004	ANKITH P	+	-	×	-		P	ρ	P	P	P	0	P	P	P		_	1	P	P	P	P	1
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6		ANUSHA A	ı	· ·	PI	PT			P		_	p		-	P	1	P	P	P	P	P	P	P	(
7	4410		I PI	P	V	P	P	P	-	7	-		ρ	ç	P	P	P	P	P	P	P			
8		NUSHREE J.K	-	H	P	-	PT	51	P	1	PP		P	P	P	P	P	P	p	0		0	P	
9	14121EC008 A	SHWIN GOWDA S J	1	,	P	1		7	FI		4	P	P	P	P	+	6	1	5	\perp	P	1		P
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- 1	4AI21EC017 CH	IANDANA K	- 1	, '	-		P	PF	1	P	P	<u> </u>	P		PP	7	1	18		- 1	P	IP	1	0
1	4AI21EC018 CH	ANDANA PATIL C S	1/	-	PP	$\perp P$	Y	2 P	7	P		10	1	1	1	6	1	_	_! 1	PI	P	P)
4	4AI21EC019 CH	ANDRAKANTH S M	PP	$\perp f$	P	P	7	00	7 7	P		+-	1	10	P	Lf	10	P	1	PI	PA		10	-
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Ŀ	4AI21EC021 DAI	PSHAN O	,	·F	1	P	10	1/2	1	1	15	P	IP	P	P	10	TP	10	D	Y	1	18	17	
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1	AAI21EC023 DEE	EKSHA K B	PP	1 6	10	10	10	1	18	12	LP	1	P	P	P	6	1	0	1	1 1	1 1	PP	P	
1	AI21EC024 DEE	EKSHA K R	PA	P	17	10	15	10	10	P	Į Į	P	P	P	10	1	10	0	13	P	15	10	P	1
1 4	AI21ECJ25 DEE	CPAK M S	PP	7	TP	TP	16	1-8	1 4	18	P	P	P	P	P	P	P	8	18	15	1 P	18	P	1
14	MIZIECU27 IDEE	PAKRAJ R B	. '	P	F	10	1'p	0	10	1	1/6	P	1	A	P	P	P	b	10	10	1 1	P	P	1
14	DHA	NUSH GOWDA II		P	P	P	P	1	10	P	1	P	LY	P	P	P	8	P	1	10	1 7	1	ρ	ļ.
1 4	AI21EC030 GOW	DA ARHICHTON	PP	P	P	P	P	P	10	P	V	P	L	LL	18	R	P	P	P	P	1	18	B	ř
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1 22	""HETECOST	GOWTHAM B G	11 -	-													
29	11121EC033	JEEVAN DAG			PP	P	PI	PIP									
30	4AI21EC034	KADTILIVE	LV	1	P &		+		P	PI	2 P	P	PP	PF			T
31	4AI21EC035	- LIMITINE I AIV J	P	P.	1	+	1	PP		PP	P	P	-	PP	-	9 .	77
32	4AI21EC036	THINK S	P		2 8	+-	-	-12-	8	PF	P	PP		_	+	P P	99
33	4AI21EC037	- LIMINALS		1	PP	-	PP		P	PP	\rightarrow	-	P	PP	\rightarrow	PP	PP
34	4AI21EC038	V	P	PE	4	_		P	P	PF	_	PP		1	+	6 6	PP
35		IIII C IVI	D	1	-	P	PF	-	P	PF	\rightarrow	$\overline{}$	PP	1 9	P	PP	PP
36	4AI21EC040		P	-	6 6	6		5 B	P	99	_	PP		PP		PP	1
37	4AI21EC042	MANUPATELOR	+	1	-	4	9.	P	P	PP	-	PP		PP		PP	PP
38	TA121EC043	MANYA II	+-		5 6	9	P.	P	P	P	1	_	+	PP	P	P.	PP
_	4AI21EC044		P		8 B	P	PP	P	P	PP	+	PP	+	PP	_ ` '	9 P	8 P
39	4AI21EC045	MOHAMMED WASID	P		PP	P	PF	D	_	PP	1	· P	1	6 b	9	PP	PP
40	4AI21EC046	NAKUL P M	+	1	÷	P	P.	b	P	o D		PP		PP	P	PP	PP
41	4AI21EC047	NEHA G M	P	D B	+		•	P	_	PP	1	6 6	18	PP	P	PP	PP
42	4AI21EC048	NIDHI K M	18	PF	_	P	PP	_	_	PP	_	b b	P	PP	P	PP	PD
43	4AI21EC049	NIRANJAN C. M.	P	PP	P	P	PP					b b		PP	P	PP	PPI
44	4AI21EC050	NISHANTHGOWDAN	18	PP	·	P	PP	<u> </u>	-	-		PP		PP	P	PP	PDI
45	4AI21EC051	NISHCHITHA M		PP		P	P.	$\overline{}$	-	-		B B	+ +	PP	P	·P	PP
46	4AI21EC052	PAVANKLIMAD	V	Y	V	P	D		-	PP		PP		PP	P	PO	
47	4AI21EC053	POOJA H H	P	PP	P	P	PP		_	_		PP	P	PP	PP	1	
48	4AI22EC400	ARPITHA C S		D B	9	-	PP					P	P	PP	0	PP	
49	4AI22EC402	AVINASH H R	P	PP	P		PP		\rightarrow	P P		·P		PP	-	PP	7 7 3
50	4AI22EC406	CHETHAN V		' '	,	P	PP	1-1	<u></u>			PP	9	PP		PP	
51	4AI22EC407	DAYANANDA H L	*	10	P	•	· ·	+	PP	+-		PP	P	PP	PI	PP	++++-
52	4AI22EC408	DEEPU P	2	PP	P	1		p			7 7		P	PP	PP		99
53	4AI22EC413	INDIKA G	-	' P	P	P	P.	P	-	—		2 12	P	PP	P		PP
54	4AI22EC414	KANAKRAJ H R	P	PP	P	PI	P	b	\$ \$		-	2 6	P	PP	PF		PP
55	4AI22EC415	KARANRAJ H R	- '	. 8	P				PP	\rightarrow	PR			PP	7		PP
56	4AI22EC418	NAVEEN H L		. 8	P		<u> </u>	1	PP			PP	PT		_	P P	PP
57	4AI22EC419	PAVAN KUMAR C N	7	PP	P	P	_	P	PP	-	PF	P	PF	_ P	-	<u> </u>	PP
58	4AI22EC420	PUNITH R		PP	P	PT		-	PF		PP		PF) P	PPX
59.	4AI22EC423	SANDYA M	7 8	2		PH	3	-	PP		PE	P	P.	1		-	P P 17
60	4AI22EC424	SHASHANICKO	if	- P	1	中市	5		PP	-	P	3 P	PF		8 E		PP
61	4AI22EC425	SHASHIKIRANM 9	2pp	PP		79	-	_	PB		PP	P	PE		PP		PPR
62	4AI22EC426	OMERICA	,	16		PF	-	-	Po	1	PP	P	PP	4	-	-	PPSon
		DOMESTIC TO	ead .	P	-	PF		-	PF	-	PP		PP	- ' - 	2 5		P . 54
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1	4AI21EC054	POORNIMA H G	P	P	P	P	P		P	P	P	₽	P	P	P	P	P	P	P	P	P		P	P	P	P
2	4AI21EC055	PRAGNA J	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	ρ	P	P	P	P	P
3	4AI21EC056	PRAJWAL L	P	P	P	P	P	V	P	P	P	.P	P	,	P	P	P	P	P	P	,	P	P	P	P	P
4	4AI21EC057	PRAMOD GOWDA T E	P	P	P	P	P	V	P	P	P	P	P	P	P	P	P	P	٥	P	P	P	P	P	P	P
5	4AI21EC058	PRANAMYA G	P	P	P	0	P	P	P	P	8	P	P	P	P	P	P	P	P	P	P	0	P	P	P	P
6	4AI21EC059	PRIYA H S	P	P	P	P	P	P	P	P	P	P	P	P	c	P	P	P	P	P	P	P	P	P	P	P
7	4AI21EC060	PRIYANKA H J	P	8	P	P	P	P	P	P	P	P	P	ρ	P	P	P	P	P	P	P	P	P	P	P	P
8	4AI21EC061	PRIYANKA H S	P	p	P	P	P		P	P	P	P	P	P	P	P		P	P	P	P	P	P	P	P	P
9	4AI21EC062	PRUTHVI V	P	P	P	P	P	ρ	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	4AI21EC063	PRUTHVI V P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	0	P	P	P	P	P	P	P	P
11	4AI21EC065	PUNITH T R	P	P	P	P	P	1	٠	9	P	P	P	P	P	P	P	ρ	P	۵	P	P	P	P	P	P
12	4AI21EC066	RAKSHITH C N	•	٥.	•	^	•	,		P	Р	ρ	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	4AI21EC067	RAKSHITHA K U	,	•	P	P	P	P	ø	P	P	P	P	P	P	P	P	P	P	P	P	P	0	P	P	P
14	4AI21EC069	ROHINI N C	P	P	P	P	P	P	P	P	P	P	0	P	P	P	P	P	P	P	P	P	P	P	P	P
15	4AI21EC070	RUMANRAZA M WALII	KAR	P	P	P	P		P	P	بر	ρ	P	P	P	P	P	6	P	P	P	P	P	P	P	P
16	4AI21EC071	SANJAY J K	P	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
17	4AI21EC072	SATHISH S V	P	P	P	P	P	*	P	P	P	P	P	P	P	P	P	P	P	0	ρ	P	P	P	P	P
18	4AI21EC073	SHALINI B S	P	P	P	P	P	P	P	P	P	P	P	0	P	P	P	P	ρ	P	P	P	P	P	P	P
19	4AI21EC074	SHANVI D	P	P	P	P	P	P	0	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
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Professor & Head
Dept. of Electronics & Communication Engg
Adichunchanagiri Institute of Technology,
Chikmanolur - 577 102



| | Jai Sri Gurudev | | SRI ADICHUNCHANAGIRI SHIKSHANA TRUST *

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING JYOTHINAGAR, CHIKKAMAGALURU - 577 102

(Affiliated to Visvesvaraya Technological University, Belagavi) Approved by AICTE New Delhi, Accredited by NAAC



Report

"Amazon Web Services and Software development using Python"

Internship Description: Four weeks Internship was conducted for final year students on the title "Amazon Web Services and Software development using Python" conducted in department of ECE, AIT Chikamagaluru from 30-10-2023 to 24-11-2023. Total number of students benefited by this Internship are 120. The objective of this Internship is to enhance the knowledge in the field of amazon web services and python.

Resource Persons:

Mahesh D S, Assistant Professor Anitha K T, Assistant Professor Department of ECE, AIT Chikamagaluru.

Contact: 9964279574,9686749851



Signature of the Coordinato

Signature of the HOD Professor & Head

Dept. of Electronics & Communication Engg Adichunchanagiri Institute of Technology. Chikmagalur - 577 102



Internship at VASPP

To Whom It May Concern,

This is to confirm that **Praneetha K** is currently pursuing an internship at VASPP, which commenced on Monday, 4th of March, 2024, and will last for a duration of 3 months. We are delighted to have **Praneetha K** as part of our team and appreciate the dedication and enthusiasm she has shown so far .

Praneetha K has been actively involved in various projects and tasks, demonstrating a strong commitment to learning and contributing to our company. The internship is designed to provide handson experience and professional development, and has been making the most of this opportunity.

We believe that **Praneetha K** skills and efforts are an asset to our team, and we look forward to continued collaboration over the remaining period of the internship.

Warm regards,

Piyush V Shembekar

HR-Specialist

VASPP Technologies, Bangalore

Professor & Head

Dept. of Electronics & Communication Engg Adichunchangiri Institute of Technology,

Chikmagalur - 577 102



Internship Opportunity at VASPP

Dear Praneetha K,

We are delighted to extend this offer for an internship at VASPP, commencing on Monday 4th of March, 2024, and lasting for a duration of 3 month. We are eager to welcome you to our team and provide you with an enriching learning experience.

Internship Details:

- Duration: starting from Friday 4th of March, 2024 (90 days-Excluding Saturday, Sunday and Public Holidays)
- Office Address: VASPP TECHNOLOGIES, Above United Furniture's, Beside Bharath Petroleum Near APMC, KM Road, Chikkamagalur (Karnataka)
- Mode of Internship: Offline
- Timing: 10:30 AM to 06:30 PM IST

In order to ensure a seamless experience during your internship, please note the following details:

- Equipment Requirement: We regret to inform you that a laptop will not be provided for this internship.
 Please ensure you have access to the necessary equipment required for the office work.
- 2. Stipend: This internship is primarily focused on learning and skill development. Therefore, we do not offer a stipend at this time.
- 3. **Job Assurance:** Please note that employment opportunities following the internship are contingent upon performance during the internship period and at the discretion of the management.
- 4. Expectations: We expect a high standard of discipline and professionalism throughout the internship.
- Management Discretion: Please be aware that the internship may be revoked at any time due to insufficient work or misconduct.

Please confirm your acceptance of this internship offer by Monday, 04th March 2024.

If you have any questions or need further information, please feel free to contact us at piyush.vs@vaspp.com We look forward to your positive response and a successful Internship with VASPP.

Warm regards.

-

Piyush V Shembekar

HR-Specialist

VASPP Technologies, Bangalore

rofessor & Head

lle

Dept. of Electronics & Communication Engg Adichunchanagiri Institute of Technology,

Chikmagalur - 577 102

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भिशन एवं युध्दक प्रणाली अनुसंधान एवं अभिकल्प केंद्र MISSION & COMBAT SYSTEM RESEARCH & DESIGN CENTRE ठेलकृत त्रं त्रं त्रं कार्म कॉम्प्लेक्स / DESIGN COMPLEX ಹಿಂದೂಸ್ಥಾನ್ ಏರೋನಾಭಿಕ್ಕ್ ಲಿಮಿಟೆಡ್ हिन्दुस्तान एरोनॉटिक्स लिमिटेड HINDUSTAN AERONAUTICS LIMITED



ಮಾರತ್ವಹಳ್ಳಿ - ಅಂಚೆ, ಬೆಂಗಳೂರು - 560037, ಭಾರತ मारतहल्ली पोस्ट, बेंगलूंड - 560037, भारत Marathahalli - Post, Bengaluru - 560037, India त्रेशाच /PH: 91-80 - 22321490, 22322169 क्रु र् विक्स/Fax: 91-80 - 22313185

No. D/MCSRDC/HR/Internship/1366/2023

Date: 28.11.2023

CERTIFICATE

This is to certify that the following student of BE(ECE), VII SEMESTER from M/s. ADHICHUNCHANGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU has completed his "INTERNSHIP" at MCSRDC, Design Complex, MAL, Bangalore from 25.10.2023 to 24.11.2023 on "no-pay-no-fee-basis".

> Mr. RAHUL B N (USN No. 4AI20EC073)

The punctuality, conduct, behavior and overall progress of the student were SATISFACTORY during the training.

> (IYER SUSHMITHA RAMESH) MANAGER (HR)

७००५ व मंभूड वर्काला । अय्यर सुच्चिता स्मेश । IYER SUSHMITHA RAMESH

चुं चेकू संबंध (चक्तंच संदर्भाद्य) । प्रदेशक (मानव संसाधन) । MANAGER (" ಎಮ್ भञ्जा एक क्रिंग क्रुकार एनरशिस्ताजारडीसी प्रमान / MCSROC अक्ष २००७, Mondoco / स्वर्रल, बेंगलूड / HAL BANGALORE 37

exor & Head

Tept. al Electronys & Communication Engg Adichunchanaguri Institute of Technology, Chikmagolur - 577 102

ನೋಂದಾಯಿತ ಕಥೇರಿ : 15/1, ಕಬ್ಬನ್ ರಸ್ತ, ಬೆಂಗಳೂರು – 560001, ಭಾರತ पंजीकृत कार्यालय : 15/1, कब्बन रोड, बेंगलूर - 560001, भारत

Registered Office: 15/1, Cubbon Road, Bengaluru - 560001, India च ठळ / सी आई एन / CIN(135301 KA1 963GO) 001 622



Internship Opportunity at VASPP

Dear PV Saigeethika,

We are delighted to extend this offer for an internship at VASPP, commencing on Monday 4th of March, 2024, and lasting for a duration of 3 month. We are eager to welcome you to our team and provide you with an enriching learning experience.

Internship Details:

- Duration: starting from Monday 4th of March, 2024 (90 days-Excluding Saturday, Sunday and Public Holidays)
- Office Address: VASPP TECHNOLOGIES, Above United Furnitures, Beside Bharath Petroleum Near APMC, KM Road, Chikkamagalur (Karnataka)
- Mode of Internship: Offline
- Timing: 10:30 AM to 06:30 PM IST

In order to ensure a seamless experience during your internship, please note the following details:

- 1. **Equipment Requirement**: We regret to inform you that a laptop will not be provided for this internship. Please ensure you have access to the necessary equipment required for the office work.
- 2. **Stipend**: This internship is primarily focused on learning and skill development. Therefore, we do not offer a stipend at this time.
- 3. **Job Assurance:** Please note that employment opportunities following the internship are contingent upon performance during the internship period and at the discretion of the management.
- 4. **Expectations:** We expect a high standard of discipline and professionalism throughout the internship.
- 5. **Management Discretion:** Please be aware that the internship may be revoked at any time due to insufficient work or misconduct.

Please confirm your acceptance of this internship offer by Monday, 4th March 2024.

If you have any questions or need further information, please feel free to contact us at plyush.vs@vaspp.com We look forward to your positive response and a successful Internship with VASPP.

Warm regards,

Piyush V Shembekar

HR-Specialist

VASPP Technologies, Bangalore

Afofessor & Head

sleed

Dept. of Electronics & Communication Engg Adichunchanagiri Institute of Technology

Chikmagalur - 577 102



ROBIC RUFARM

FARMING REINVENTED

1st Feb 2024

Dear Shree Sameehana R,

We are delighted & excited to welcome you to ROBIC RUFARM as Research Associate at ROBIC RUFARM INDIA PVT. LTD. We believe that our team is our bigge strength and we take pride in hiring only the best and the brightest. We are confident that you would play a significant role in the overall success of the company and wish you the most enjoyable, learning packed and truly meaningful internship experience with us. The tenure of this internship is 2 Months.

All the best

Professor & Head

Dept. of Electronics & Communication Enga Adichunchanagiri Institute of Technology, Chikmagalur - 577 102 Robic Rufarm India

Robic Rufarm India Pvt Ltd 21st century complex,3rd Floor, Nampally, Hyderabad, Telangana 500030 info@robicrufarm.com





Reference no :KS-AIOTC-4AI20EC020

DATE:13-09-2023

CERTIFICATE OF COMPLETION

This is to certify that Mr.CHARAN A, bearing register number: 4AI20EC020, studying in seventh semester, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY-577101 CHIKMANGALUR, has successfully completed his INTERNSHIP ON EMBEDDED SYSTEMS here at KAKUNJE SOFTWARE PRIVATE LIMITED, 2nd floor, Abhiman Plaza Bunts Hostel Circle, Mangalore-575003 from 16-August-2023 to 13-October-2023

We wish every success in his life and career.

HR MANAGER

The same of the sa

Dept. of Electronics & Communication Enga Adichunchanogiri Institute of Technology, For KAKUNJE SOFTWARE PVT. LTD.

Gopala Krishna Bhat Kakunje se, мва Managing Director

MANAGING DIRECTOR



Door Number : 15-7-336/17 , Reg.Office : # 205 Abhiman Plaza,Bunts Hostel Circle,Mangaluru Pin Code-575 003, D.K District , Karnataka, India



M: +91 8892882988 M: +91 8951526765 Ph: 0824 - 2988298



Email: info@kakunjesoftware.co Email: kakunjesoftware@gmail.c Web: www.kakunjesoftware.con





Reference no: KS-AIOTC-4AI20EC045

DATE:13-09-2023

CHETTER OF CORP. ETION

This is to certify that Mr.MANOJ KUMAR RS, bearing register number: 4AI20EC045, studying seventh semester, DEPARTMENT **OF ELECTRONICS** AND COMMUNICATION ENGINEERING, ADICHUNCHANAGIRI INSTITUTE **OF** TECHNOLOGY-577101 CHIKMANGALUR . has successfully completed INTERNSHIP ON EMBEDDED SYSTEMS here at KAKUNJE SOFTWARE PRIVATE LIMITED, 2nd floor, Abhiman Plaza Bunts Hostel Circle, Mangalore-575003 from 16-August-2023 to 13-October-2023

We wish every success in his life and career.

For KAKUNJE SOFTWARE PVT. LTD.

Gopala Krishna Bhat Kakunje ве., мва Managing Director

MANAGING DIRECTOR

HR MANAGER

Professor & Head

Dept. of Electronics & Communication Engg Edichunchanogiri Institute of Technology.

Chikmonolur - 577 107



Door Number : 15-7-336/17 , Reg.Office : # 205 Abhiman Plaza,Bunts Hostel Circle,Mangaluru Pin Code-575 003, D.K District , Karnataka, India



M: +91 8892882988 M: +91 8951526765 Ph: 0824 - 2988298



Email: info@kakunjesoftware.co Email: kakunjesoftware@gmail.c Web: www.kakunjesoftware.com

DEPARTMENT OF ELECTRONICS AND COMMUNICTION ENGINEERING



CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "SMART AUDITORIUM WITH SECURITY SYSTEMS" is a bonafide work carried out Praneetha K (4AI20EC070), Shwetha HS (4AI20EC087), Swathi BP (4AI20EC100), Varshitha SV (4AI20EC107) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of Internal guide

Mr.Girish S BE., M. Tech., (Ph.D), LMISTE

Assistant Professor, Dept Of ECE

Signature Of Co-ordinator

Dr.Anil Kumar C BE, M. Tech., Ph.D., LMISTE, MIE

Associate Proffesor, Dept Of ECE

Signature of PEC Member

Dr.Kumuda T BE,M.Tech,Ph.D.,LMISTE,MIE

Proffesor, Dept Of ECE

Signature Of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D.

Proffesor and Head ,Dept Of ECE

Signature Of the Principal

Dr. C.T Jayadeva B.E.,M.Tech.,Ph.D

EXTERNAL VIVA

Name of the examiner

Dr-leunude-T Manjunetha. Signature with date

28/5

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-577102

(Affiliated to VTU, Belagavi-590018)





DEPARTMENT OF **ELECTRONICS AND COMMUNICATION ENGINEERING CERTIFICATE**

This is to certify that GIRIDHANYA C(4AI20EC027), GOWTHAM P (4AI20EC028), HANUMANTH J URS(4AI20EC030), NAVYA B K(4AI20EC052) have submitted the final project report on "DESIGN AND SIMULATION OF FRACTAL-ANTENNA FOR WIRELESS APPLICATION" of the project. They have satisfactorily completed the final project work prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for 8th semester ELECTRONICS AND COMMUNICATION ENGINEERING in this institute for the academic year 2023-2024.

	Name and Designation	Signature with date
Signature of Principal	Dr. C T Jayadeva Principal	Changedel
	B.E., M.Tech., Ph.D.	- 9
Signature of HOD	Dr. Goutham M A B.E., M.Tech., Ph.D.	Coccertain,
Signature of	Mahesh D S	LA Lub
Guide	B.E., M.Tech., (Ph.D).	Makey
Signature of	Chandrakala C T	\$
Reviewer	B.E., M.Tech.	V
Signature of project	Dr.Anil Kumar C	
coordinator	B.E., M.Tech.,(Ph.D).,LMISTE.,MIE.	J- 14/5/2024
Examiner 1	Dr. VANI H.R	Naui 28/5/24
Examiner 2	Dr. Rammurthy.D	0 28/5/24

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

CHIKKAMAGALURU-5770102

(Affiliated to Visvesvaraya Technological University, Belagavi)

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that ARPITHA H S (4AI20EC010), HARSHITHA M K (4AI20EC031), KAVYA K M (4AI20EC036), KAVYASHREE URS C N (4AI20EC037), have submitted the project on "IOT BASED AQUAPONICS MONITORING SYSTEM". They have satisfactorily completed the final phase project work prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for 8th semester ELECTRONICS & COMMUNICATION ENGINEERING in this institute for the academic year 2023-2024.

Date:

	Name and Designation	Signature with Date
Signature of Principal	Dr. C T JAYADEVA	0
	B.E., M.Tech, Ph.D	Margalle
Signature of HOD	Dr. GOUTHAM M A	
	B.E., M.Tech., Ph.D	ملا تا لا فعقده
Signature of Project	Dr. ANIL KUMAR C	The state of the s
Co-ordinator	B.E., M.Tech., Ph.D.,LMISTE.,MIE	2/5/2024
Signature of Guide	Dr. A P JAGADEESH CHANDRA	2/31
	B.E.,M.Tech.,Ph.D.,LMISTE.,FIE.	813 pees 215/24
Signature of Reviewer	Mr. RAJAPPA H S	
	B.E,M.Tech,(Ph.D).,LMISTE.	18/24

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

CHIKKAMAGALURU-577102

(Affiliated to VTU, Belagavi-590018)





DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that BHARATH A L (4AI20EC014), LIKHITH H D (4AI20EC039), MAHASOOK AHMED (4AI20EC043) & MOHAMMED MOHTASHIM (4AI20EC046) have submitted the project report "DEVELOPMENT OF HAPTIC PROSTHETIC HAND" of the project. They have satisfactorily completed the project work prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for 8th semester ELECTRONICS & COMMUNICATION ENGINEERING in this institute for the academic year 2023-2024.

Signature of the Guide

Dr.USHA K P B.E.,M.Tech., Ph.D Signature of the Reviewer

Mr. HARISH KUMAR C

B.E., M.S, MIE

Signature of the HOD

Dr. GOUTHAM M A

B.E., M.Tech, Ph.D

EXTERNAL VIVA

Sl.No	Name of the External Examiner	Signature with Date
1	Dr. VANI H.R	Davi 28/5/24
2	Dr. Rammurthey. D	Don 28/5/24

ADICHUNCHANGIRI INSTITUTE OF TECHNOLOGY

CHIKKAMAGALURU-577102

(Affiliated to Visvesvaraya Technological University, Belagavi)

(2023-2024)

DEPARTMENT OF ELECTRONICS AND COMMUNICTION **ENGINEERING**



CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "RENEWABLE POWER GENERATION USING SOLAR, PIEZO & WIND FOR FIRE DETECTION SYSTEM" is a bonafide work carried out NISCHITHA C V (4AI20EC060), SAFA ALI (4AI20EC078), SWATHISH H SHETTY (4AI20EC101), VEDHASHREE C R(4AI20EC108) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024.

Signature of the Internal Guide

Signature of the Reviewer

Head of the Department

Mrs.Linet D'Souza, B.E., M. Tech

Mr.Raghu Kumar BS B,E., M.Tech.,(Ph.D) Dr.Goutham MABE,M.Tech,Ph.D

External Examiner

SL.NO	Name of the External Examiner	Signature with Date
1.	Madhupsakachk	\$28H24
£.	Nivanjan Qunor M	28/5/9



This is to certify that the project work report (18ECP83) work entitled "LONG RANGE SYPING ROBOT FOR SECURITY ASSISTANCE" is a bonafide work carried out Nithin N(4AI20EC063), Shreya B M(4AI20EC086), Sonika H P (4AI20EC089), Vinayaka M S

(4A120EC110) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal guide

Mr. Raghu Kumar B S

B.E.,M.Tech.,(Ph.D)_ISCA

Assistant Professor, Dept of ECE

Signature of the PEC Member

and the reco

Dr. Harish M S

B.E.,M.Tech.,Ph.D.LMISTE,MIE

Associate Professor, Dept of EC

0249

Dr. C T Jayadeva B.E., M. Tech. Ph.D

Signature of Co-ordinator

Dr. Anil Kumar C B.E., M. Tech., Ph.D., LMISTE., MIE

Associate Professor, Dept of ECE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

Professor & Head, Dept of ECE

EXTERNAL VIVA

Name of the examiner

Dr. Kunuda.T Manjunatha.A Signature with date

Mayall 28 5 24.



CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "SMART SURVEILLANCE ROBOT FOR MILLITARY APPLICATION" is a bonafide work carried out Sudeep K P(4AI20EC093), Sugam K N(4AI20EC095), Varshith D N (4AI20EC106), Vivek S M (4AI20EC111) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal guide

Mr. Rajappa H S B.E., M. Tech., (Ph.D).

Assistant Professor, Dept of ECE

Signature of the PEC Member

Dr. A P Jagadeesh Chandra B.E., M. Tech., Ph.D.LMISTE, FIE

Professor, Dept of ECE

Signature of the Principal

Dr. C.T. Jayadeva B.E., M. Tech. Ph.D

Signature of Co-ordinator

Dr. Anil Kumar C B.E., M. Tech., Ph.D., LMISTE., MIE

2 915/24

Associate Professor, Dept of ECE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

Professor & Head, Dept of ECE

EXTERNAL VIVA

Name of the examiner

Dr. Kunuda-T

28/5

Signature with date



This is to certify that the project work report (18ECP83) work entitled "BATTERY MANAGEMENT SYSTEM USING LITHIUM ION BATTERY" is a bonafide work carried out Pragathi S (4AI20EC068), Prathik R (4AI20EC072), S V Unnathi (4AI20EC077), Shree Vishnu N V (4AI20EC085) students of 8th Semester B.E., in partialfulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project reporthas been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal guide

Mrs. Nagaveni C R B.E., M.E., Ph.D., MIE.

Assistant Professor, Dept of ECE

Signature of PEC Member

Mrs Tasmia Namreen A B.E., M.Tech.MIE,

Assistant Professor, Dept of ECE

Signature of the Principal

Dr. CT Jayadeva B.E., M. Tech. Ph. D

Signature of Co-ordinator

Dr. Anil Kumar C B.E., M. Tech., Ph.D., LMISTE., MIE

Associate Professor, Dept of ECE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

Professor & Head, Dept of ECE

EXTERNAL VIVA

Name of the examiner

Signature with date

Hay 28/5/24

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-5770102

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA-577 102



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Major-Project work entitled "AUTOMATIC VEHICLE SPEED AND HORN CONTROL SYSTEM IN RESTRICTED AREAS" is a work carried out by PREKSHA C Y (4A120EC071), SUKHI D (4A120EC097), VAISHNAVI S R(4A120EC103), VARSHA C J (4A120EC104), 8th Semester B.E., in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide

Mrs. TAŚMIA NAMREEN A

B.E., M. Tech., MIE., LMISTE.

Signature of the Reviewer

Dr. SUMA M

B.E., M. Tech, Ph.D.

Signature of the HOD

Dr. GOUTHAM M A

B.E., M.Tech, Ph.D

EXTERNAL VIVA

Sl.No	Name of the External Examiner	Signature with Date
1	Madhupraleath L	J28 K/24
2	Mirangan Ounor M	Comme
		28/5(0



This is to certify that the project work report (18ECP83) work entitled "ELECTRONIC PROTECTION FOR EXAM PAPER LEAKAGE" is a bonafide work carried out PALLAVI S (4AI20EC065), RAKSHITH K (4AI20EC074), VAGDEVI M K (4AI20EC102), NANDASHREE A G (4AI21EC402) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in thereport deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

pughas	سبجليته	7	5	2024

Signature of Internal guide

Mrs. Meghashree M B.E.M.Tech

Signature of PEC Member

Mr.Girish S B.E., M. Tech., (Ph.D), LMISTE

Signature of the Principal

Dr.C T Jayadeva M.Tech.,Ph.D

Signature of Co-ordinator

Dr.Anil Kumar CB.E.,M.Tech.,Ph.D.,LMISTE.,MIE

Signature of HOD

Dr.Goutham M A B.E., M.Tech., Ph.D

EXTERNAL VIVA

Name of the examiner

Madhu prahash R

Lunorm

of 28/5/24

Down

CHIKKAMAGALURU-577102

(Affiliated to VTU, Belagavi-590018)





DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that ABHISHEK M KARIKATTI (4AI20EC001), BHAGYA SHREE K R (4AI20EC013), NIKHIL K S (4AI20EC054), PANCHAMI K G (4AI20EC115) have submitted the final project report on "DRIVER'S DROWSINESS MONITORING SYSTEM: A VISION BASED APPROACH FOR ENHANCED SAFETY" of the project. They have satisfactorily completed the final project work prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for 8th semester ELECTRONICS AND COMMUNICATION ENGINEERING in this institute for the academic year 2023-2024.

	Name and Designation	Signature with date
Signature of Principal	Dr. C T Jayadeva B.E.,M.Tech.,Ph.D.	Charge of
Signature of HOD	Dr. Goutham M A B.E.,M.Tcch.,Ph.D.	- Casel
Signature of Guide	Dr. II R Vani	Marie, Jak
Examiner 1	DH. Suma ·M	Dand 1
Examiner 2	Lokechwari H.S	29/05/24

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-5770102

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA-577 102



DEPARTMENT OF ELECTRONICS &COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Major-Project work entitled "SMART OFFICE SURVEILLANCE MOVING VEHICLE USING FACE RECOGNITION" is a work carried out by SHIVAKUMAR AMBAKKI (4AI19EC086), 8th Semester B.E., in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide

Mrs. TASMIA NAMREEN A

Signature of the Reviewer

Mrs. ANITHA K T

Signature of the HOD

Dr. GOUTHAMMA

BE., M. Tech., MIE

B.E., ME., MIE

B.E., M. Tech, Ph.D

EXTERNAL VIVA

Sl. No	Name of the External Examiner	Signature with Date	
2	Lokephuan' H.S.	7/8/24	

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-5770102

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA-577 102



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Major-Project work entitled "SMART OFFICE SURVEILLANCE MOVING VEHICLE USING FACE RECOGNITION" is a work carried out by ABHISHEK T C (4AI20EC004), KUSUMA B K (4AI20EC038), MAHESH (4A120EC044), NIRIKSHA K G (4AI20EC056), 8th Semester B.E., in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report hasbeen approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signatuke of the Guide

Mrs.TASMIA NAMREEN A

Signature of the Reviewer

Mrs. ANITHA K T

Signature of the HOD

Dr. GOUTHAM M A

BE., M.Tech., MIE

B.E.,ME.,MIE

B.E., M.Tech, Ph.D

EXTERNAL VIVA

Sl.No	Name of the External Examiner	Signature with Date
1	Lokechwari H.S	Alba 27/5/24
2	Da. Suma m	Sell 27/05/24



CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "DEVELOPMENT OF END TO END TRANSCEIVER SYSTEM FOR SEAMLESS WBAN FOR HEALTH MONITOTING SYSTEM" is a bonafide work carried out Anoushka T K (4A120EC006), Anusha G K(4A120EC007), Jeevan Kumar G P (4A120EC033), Karthik B S (4A120EC034) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal guide

Signature of PEC Member

Dr. Goutham M A B.E., M. Tech., Ph.D

Mrs. Nagaveni C R B.E., M.E., (Ph.D)., MIE.

Assistant Professor, Dept of ECE

Assistant Professor, Dept of ECE

Signature of the Principal

Dr. C T Jayadeva B.E.,M.Tech.Ph.D

Signature of Co-ordinator

Dr. Anil Kumar C B.E., M. Tech., Ph.D., LMISTE., MIE

Associate Professor, Dept of ECE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

Professor & Head, Dept of ECE

EXTERNAL VIVA

Name of the examiner

Signature with date

HBL 28/5/29

Losephuari H.S



CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "IOT-ENABLED SMART FEEDING DISPENSER AND HYDRATION SYSTEM FOR CATTLE WITH REAL-TIME CLOCK PRECISION" is a bonafide work carried out P V Sai Geethika (4AI20EC064), Sheethal M(4AI20EC083), Shree Samcehana (4AI20EC084), Varshini S (4AI20EC105) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

mglastree 30/4/2024

Signature of Internal guide

Mrs Meghashree M B.E.,M.Tech

30/4/25

Signature of PEC Member

Dr. Anil Kumar C

B.E., M.Tech., Ph.D., LMISTE.., MIE

Signature of the Principal

Dr. CT Jayadeva M.Tech., Ph.D

Signature of Co-ordinator

Dr. Anil Kumar C

B.E., M.Tech., Ph.D., LMISTE., MIE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

EXTERNAL VIVA

Name of the examiner

Signature with date

28/5/24

Margall 28/5



This is to certify that the project work report (18ECP83) work entitled "INTELLIGENT TRAFFIC MANAGEMENT FOR AMBULANCE, CONGESTION CONTROL AND STOLEN VEHICLES" is a bonafide work carried out ANUSHA K R (4AI20EC008), ANUSHREE C J (4AI20EC009), MONISHA S (4AI20EC047), MOULYA K N (4AI20EC048) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of Internal guide

Dr. KUMUDA T B.E., M.Tech., Ph.D., LMISTE., MIE

Signature of PEC Member

Mr. GIRISH S B.E., M.Tech., (Ph.D.), LMISTE

Signature of the Principal

Dr. CT JAYADEVA M.Tech., Ph.D.

Signature of Coordinator

Dr. ANIL KUMAR C B.E., M.Tech., Ph.D., LMISTE., MIE

Signature of HOD

Dr. GOUTHAM MA B.E., M. Tech., Ph.D.

EXTERNAL VIVA

Name of the examiner

Lokephoni H.S.

Signature with date

18/ 27/5/26

CHIKKAMAGALURU-577102

(Affiliated to VTU, Belagavi-590018)





DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that NIRUPAM HEGDE M P (4AI20EC057), NISARGA S (4AI20EC058), NISARGA KANTH K L (4AI20EC059) & RUDRESH L S (4AI20EC076) have submitted the project report "SMART UNDERPASS SURVEILLANCE: INTEGRATING IOT AND MACHINE LEARNING FOR COMPREHENSIVE MONITORING OF VEHICLES AND PEDESTRAIN's" of the project. They have satisfactorily completed the project work prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for 8th semester ELECTRONICS & COMMUNICATION ENGINEERING in this institute for the academic year 2023-2024.

Signature of the Guide

Mrs.LINET D' SOUZA

B.E., M. Tech.,

Signature of the Reviewer

Dr. H R VANI

B.E., M.Tech, Ph.D, LMISTE, MIE.

Signature of the HOD

Dr. GOUTHAM MA

B.E., M.Tech, Ph.D

EXTERNAL VIVA

Sl.No	Name of the External Examiner	Signature with Date
1	Lokechwar 41-8	Alex 27/5/24
2	Dr. Suma M	(lew , lay
		27/05/4



CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "V2X BASED VEHICLE LOCALIZATION AND AUTOMATIC VEHICLE SPEED CONTROL

SYSTEM" is a bonafide work carried out Rakshith N P (4AI20EC075), Sneha N S(4AI20EC088), Srujan K J (4AI20EC091), Swamy kotresh B (4AI20EC098) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for

the said degree.

Signature of the Internal guide

 $Mrs.\ Nagaveni\ C\ R\ {\scriptstyle B.E.,M.E.,(Ph.D).,MIE.}$

Assistant Professor, Dept of ECE

Signature of PEC Member

Dr. Goutham M A B,E.,M.Tech.,Ph.D.

Professor & HOD, Dept of ECE

Signature of the Principal

Dr. C T Jayadeva B.E., M. Tech. Ph.D

Signature of Co-ordinator

Dr. Anil Kumar C B.E., M.Tech., Ph.D., LMISTE., MIE

Associate Professor, Dept of ECE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

Professor & Head, Dept of ECE

EXTERNAL VIVA

Name of the examiner

Lokephyari His

Dr. Suma·m

Signature with date

All solslar

200 24



This is to certify that the project work report (18ECP83) work entitled "BATTERY MANAGEMENT SYSTEM USING LITHIUM ION BATTERY" is a bonafide work carried out Pragathi S (4AI20EC068), Prathik R (4AI20EC072), S V Unnathi (4AI20EC077), Shree Vishnu N V (4AI20EC085) students of 8th Semester B.E., in partialfulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project reporthas been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal guide

Mrs. Nagaveni C R B.E., M.E., Ph.D., MIE.

Assistant Professor, Dept of ECE

Signature of PEC Member

Mrs Tasmia Namreen A B.E., M. Tech. MIE,

Assistant Professor, Dept of ECE

Signature of the Principal

Dr. C T Jayadeva B.E., M. Tech. Ph.D

Signature of Co-ordinator

Dr. Anil Kumar C B.E., M. Tech., Ph.D., LMISTE., MIE

Associate Professor, Dept of ECE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

Professor & Head, Dept of ECE

EXTERNAL VIVA

Name of the examiner

Signature with date

Mayord 2015

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-5770102

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA-577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING



CERTIFICATE

This is to certify that ABHISHEK T C (4AI20EC004), KUSUMA B K (4AI20EC038), MAHESH (4A120EC044), NIRIKSHA K G (4AI20EC056) have submitted the project on "SMART OFFICE SURVEILLANCE MOVING VEHICLE USING FACE RECOGNITION" of the project. They have satisfactorily completed the Project final phase work prescribed by the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for the 8th semester in ELECTRONICS & COMMUNICATION ENGINEERING at this institute for the academic year 2023-2024.

Date:

	Name and Designation	Signature with Date
Signature of Principal	Dr. C T JAYADEVA B.E., M.Tech, Ph.D, MISTE	,
Signature of HOD	Dr. GOUTHAM M A B.E., M.Tech.,Ph.D	18 4 1/4 Beeses
Signature of Project coordinator	Dr. ANIL KUMAR C B.E., M.Tech., Ph.D.,LMISTE.,MIE	J- WISINIE
Signature of Guide	Mrs .TASMIA NAMREEN A BE., M.Tech., MIE	alme
Signature of Reviewer	Mrs. ANITHA K T B.E.,M.E.,MIE	Jr.



This is to certify that the project work report (18ECP83) work entitled "BATTERY MANAGEMENT SYSTEM USING LITHIUM ION BATTERY" is a bonafide work carried out Pragathi S (4AI20EC068), Prathik R (4AI20EC072), S V Unnathi (4AI20EC077), Shree Vishnu N V (4AI20EC085) students of 8th Semester B.E., in partialfulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project reporthas been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal guide

Mrs. Nagaveni C R B.E., M.E., Ph.D., MIE.

Assistant Professor, Dept of ECE

Signature of PEC Membe

Mrs Tasmia Namreen A B.E., M. Tech. MIE.

Assistant Professor, Dept of ECE

Signature of the Principal

Dr. C. T Jayadeva B.E., M. Tech. Ph.D

Signature of Co-ordinator

Dr. Anil Kumar C B.E., M.Tech., Ph.D., LMISTE., MIE

Associate Professor, Dept of ECE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

Professor & Head, Dept of ECE

EXTERNAL VIVA

Name of the examiner

Signature with date

Manjunatha. A

Heyneth 28/5

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-5770102

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA-577 102



DEPARTMENT OF **ELECTRONICS &** COMMUNICATION **ENGINEERING**



CERTIFICATE

This is to certify that Major-Project work entitled "DETECTION OF DISEASE IN CROPS USING CONVOLUTION NEURAL NETWORK(CNN)" is a work carried out by BHOOMIKA B L (4AI20EC017), BHOOMIKA (4AI20EC018) ,DEEPIKA T (4A120EC025) , GAGANA URS G S (4AI20EC026), 8th Semester B.E., in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Dr. HARISH M S B.E., M. Tech., Ph.D

Mr. RAGHU KUMAR B S

B.E., M. Tech, (Ph.D)., ISCA.

Dr. GOUTHAM M A B.E., M.Tech, Ph.D

EXTERNAL VIVA

Sl.No	Name of the External Examiner	Signature with Date
1	Dr Al. Tapadeed Chandre	Do Clear 28/6/2
2		

ADICHUNCHANGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-577102

(Affiliated to Visvesvaraya Technological University, Belgaum)

(2023-2024)

DEPARTMENT OF ELECTRONICS AND COMMUNICTION **ENGINEERING**



CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "OTP BASED SMART DOOR LOCK CONTROL AND ALERTING SYSTEM" is a bonafide work carried out Ashwini Kalari (4AI20EC011), Bhuvana T G (4AI20EC019), Charan A (4AI20EC020), Manoj Kumar R S (4AI21EC045) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal Guide

Signature of the Reviewer

Head of the Department

Mr.Madhu Prakash R B.E., M.Tech., MIE

Mrs.Anitha K T B.E., M.E., MIE

Dr. Goutham M A Ph.D.

External Examiner

SL.NO	Name of the External Examiner	Signature with Date
1	Dr-A-P. Tagadeesh chentra	315 lien 28/5/24
2	Lokechuar H.S.	Ald astsley



CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "ENVIRONMENT MONITORING SMART WATCH" is a bonafide work carried out Madan C R (4AI20EC040), MadhanGowda M(4AI20EC042),Naveen V Hiremath(4AI20EC051),Nikhith R M(4AI20EC055) students of 8th Semester B.E., in partialfulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project reporthas been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal guide

Dr.SUMA M B.E., M.Tech., Ph.D., LMISTE., MIE.

Associate Professor, Dept of ECE

Signature of PEC Member

TASMIA NAMREEN A B.E., M.Tech., MIE., Assistant Professor., Dept of ECE.

Signature of the Principal

Dr. C T Jayadeva B.E.,M.Tech.Ph.D

Signature of Co-ordinator

Dr. Anil Kumar C B.E., M.Tech., Ph.D., LMISTE., MIE

Associate Professor, Dept of ECE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

Professor & Head, Dept of ECE

EXTERNAL VIVA

Name of the examiner

Dr.A-P. Tapadeen chantre

Signature with date

Ale 28/5/26

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-5770102

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA-577 102



DEPARTMENT OF
ELECTRONICS &
COMMUNICATION
ENGINEERING



CERTIFICATE

This is to certify that Major-Project work entitled "IoT BASED FOOD DELIVERY ROBOT" is a work carried out by BHARATH S (4AI20EC015), CHETHAN SHETTY C R (4AI20EC021), SUGAM GANESH K S (4AI20EC094), SUJAY URS C B (4AI20EC096), 8th Semester B.E., in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide

Mr. GIRISH S BE., M.Tech., (Ph.D)., LMISTE Signature of the Reviewer

Mr. RAJAPPA H S B.E.,M.Tech.,(Ph.D),,LMISTE Signature of the HOD

Dr. GOUTHAM M A
B.E., M.Tech, Ph.D

EXTERNAL VIVA

Sl.No	Name of the External Examiner	Signature with Date
1	Da. VANI H.R	New 285/24
2	Dr. Rammusthy. D	D00 21/12

ADICHUNCHANGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-577102

(Affiliated to Visvesvaraya Technological University, Belgaum) (2023-2024)

DEPARTMENT OF ELECTRONICS AND COMMUNICTION **ENGINEERING**



This is to certify that the project work report (18ECP83) work entitled "SMART AQUA MONITORING SYSTEM USING IOT FOR FISH CULTURE" is a bonafide work carried out Sanmathi H M (4AI20EC080), Spoorthi D N (4AI20EC090), SwarnaGowri K S (4AI20EC099), Sahana K R (4AI21EC403) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal Guide	Signature of the Reviewer	Head of the Department
Mrs. Anitha K T, B.E., M.E, MIE	Mr.Madhu Prakash R B,E., M.Tech., MIE	Dr. Goutham M A Ph.D.
09/05/29	At onloster	C Morrel

External Examiner

m M A Ph.D.

SL.NO	Name of the External Examiner	Signature with Date
	Dr. VANI H.R	Marig8/5/24
2	Dr. Rammurthy. D	Des : 08/5/2

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-5770102

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA-577 102



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Major-Project work entitled "SUSPICIOUS ACTIVITY DETECTION AND ALERT SYSTEM USING RASPBERRY Pi is a work carried out by ABHISHEK PRAJAPATI(4AI20EC003), BASAVARAJU M M(4AI20EC012), GREESHMA B R(4A120EC025), 8th Semester B.E., in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the said degree.

Signature of the Guide

Ms. CHANDRAKALA C T

B.E., M.Tech.

Signature of the Reviewer

Mr. MAHESH D S

B.E., M.Tech, (Ph.D)

Signature of the HOD

r)GOUTHAM M A

B.E., M. Tech, Ph.D

EXTERNAL VIVA

Sl.No	Name of the External Examiner	Signature with Date	
1	Madhu prakash K	A 28/5/24	
2	Dovagar Amman	Work	M.
		al y	119



CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "SMART WEARABLE

DEVICE FOR WOMEN SAFETY USING IOT" is a bonafide work carried out Prajwal S L (4AI20EC069), Vinayak B O (4AI20EC109), Yashwanth K N (4AI20EC112) and Yogish N S

(4AI20EC113) students of 8th Semester B.E., in partial fulfilment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

Signature of the Internal guide

Mr. Harish Kumar C R, B.E.,M.S. Assistant Professor, Dept of ECE

Signature of Co-ordinator

Dr. Anil Kumar C B.E., M. Tech., Ph.D., LMISTE., MIE

Associate Professor, Dept of ECE

Signature of PEC Member

Dr. Usha K P, B.E., M Tech Ph.D Assistant Professor, Dept of ECE

Signature of HOD

Dr. Goutham M A B.E., M. Tech., Ph.D

Professor & Head, Dept of ECE

Signature of the Principal

Dr. C T Jayadeva B.E.,M.Tech.Ph.D

EXTERNAL VIVA

Name of the examiner

Madhu praleash &

Signature with date

J2815/24

2811m

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-577102

(Affiliated to VTU, Belagavi-590018)





DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING CERTIFICATE

This is to certify that the project work report (18ECP83) work entitled "WIRELESS POWER TRANSFER SYSTEM FOR CHARGING OF ELECTRIC VEHICLES AND AUTOMATIC BILLING" is a bonafide work carried out NISCHITHA H S (4AI20EC061), POOJASHREE M N (4AI20EC067), SHABAZ KHAN (4AI20EC081), SHAKTHI B S (4AI20EC082) students of 8th Semester B.E., in partial fulfillment for the Project Work of 8th semester Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved, as it satisfies the academic requirements in respect of Project Work prescribed for the said degree.

	Name and Designation	Signature with date
Signature of Principal	Dr. C T Jayadeva B.E., M.Tech., Ph.D.	Rangolee
Signature of HOD	Dr. Goutham M A B.E., M.Tech., Ph.D	seece a fully
Signature of Co-ordinator	Dr. Anil Kumar C B.E.,M.Tech.,Ph.D.,LMSTE.,MIE	1 11512024
Signature of Guide	Mr. Rajappa H S B.E., M.Tech., (PhD)	Pots 1218/24
Signature of PEC Member	Mrs. Meghashree.M B.E.,M.Tech	mylashre 13/05/24
Examiner 1	Dr. Keenuda-T	J-P28/5/24
Examiner 2	Manjunatha-A	Marrieth
		28 5

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Wireless AC Power Detection" is a bonafide work carried out by CHETHAN H S (4AI22EC405), HARSHA V (4AI22EC412), RUDRESH C S (4AI22EC421), VIJAY KUMAR N B (4AI22EC428), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Mrs. Linet Dsouza.B.E., M.Tech

Assistant Professor

Dept. of E&CE

Signiture of the Coordinators

Dr. Kumuda T. B.E., M.Tech., Ph.D

Professor

Dept. of E&CE

Mrs Manjula U R B.E., M.Tech

Assistant professor Dept of E&CE

Signature of the Reviewer

Dr.Suma M. B.E.,M.Tech.,Ph.,LMISTE.,MIE

Associate Professor

Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M.Tech., Ph.D

Professor& Head

Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that BIBI SWAGRA (4AI21EC014), CHAITHRA L P (4AI21EC016), MANYA U (4AI21EC043), POOJA H.H (4AI21EC053) have submitted the MINIPROJECT report entitled "Laser security alarm system using Arduino". They have satisfactorily completed the Mini project work prescribed by Vishvesvaraya Technological University, Belagavi, for 6th sem Electronics and Communication Engineering during the year 2023-24.

ATT Lew 318124 Signature of the Guide

Dr A P Jagadeesh Chandra .BE.,M.Tech.,Ph.D.,LMISTE

Professor, Dept. of E&CE

A.I.T., Chikkamagluru

Signature of the Reviewer

Harish Kumar C R.BE., M.S., MIE.

Asst.Professor, Dept. of E&CE

A.I.T., Chikkamagluru

Signature of the Coordinators

Dr. Kumuda T. BE., M. Tech., Ph. D., LMISTE, MIE.

125: Professor

Dept. of E&CE

Signature of the HOD

Dr. Goutham M A.B.E., M. Tech., Ph.D

Professor & Head

Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Multifunctional Vehicle Security System" is a bonafide work carried out by ANANYA M(4AI21EC003), BHAVANA H P(4AI21EC011), KAVANA K S(4AI21EC035), KEERTHANA L S(4AI21EC036), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide RAJAPPA H S.BE., M.Tech., (Ph. D)

Assistant Professor Dept. of E&CE

Signature of the Reviewer GIRISH S.BE., M.Tech., (Ph.D)

Assistant Professor Dept. of E&CE

Signature of the Coordinators

Dr. Kumuda T. B.E., M.Tech., Ph. D

Professor

Dept. of E&CE

Manjula U R B.E., M.Tech Assistant Professor

Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M.Tech., Ph. D

Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Face recognition attendance system using OpenCV and python" is a bonafide work carried out by group of Shivesh Dev K M(4AI21EC081), Sathish S V(4AI21EC072), Shashank A N(4AI21EC077), Suhas P(4AI21EC091), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Dr. Kumuda T. B.E., M.Tech. Ph.D

Professor Dept. of E&CE

Signature of the Coordinators

Dr. Kumuda T. B.E., M.Tech. Ph.D

Professor Dept. of E&CE

Manjula U R B.E., M.Tech Assistant Professor Dept. of E&CE Signature of the Reviewer
Manjula U R B.E., M.Tech
Assistant Professor
Dept. of E&CE

ignature of the HDD

Dr. Goutham M. A. B.E., M.Tech., Ph.D.

Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "IoT-Based Home Automation System Using Arduino Uno" is a bonafide work carried out by SINCHANA KAKADE S (4AI21EC085), PRIYA H S (4AI21EC059), ROHINI N C (4AI21EC069), SRUSTI C (4AI21EC090), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Mr. RAJAPPA H S B.E., M.Tech., (Ph.D)
Assistant Professor

Department of E&CE, AIT

Mr. RAGHU KUMAR BS.E., M.Tech., (Ph.D)

Assistant Professor Department of E&CE, AIT

Signature of the HOD

Dr. Kumuda-T. B.E., M.Tech., Ph.D.

Signature of the Coordinators

Assistant Professor
Department of E&CE, AIT

Dr. Goutham M A B.E., M.Tech., Ph.D.
Professor & Head
Department of E&CE, AIT

Manjula U R B.E., M.Tech.
Assistant Professor
Department of E&CE, AIT

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Plant wellness monitoring system using ESP8266" is a bonafide work carried out by Chethan V (4AI22EC406), Indika G (4AI22EC413), Sandya M (4AI22EC423), Sneha S V (4AI22EC426), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide
Mr MADHUPRAKASH R BE,M.Tech, MIE
Assistant Professor
Dept. of E&CE

Signature of the Coordinators Dr. Kumuda T. B.E., M.Tech., Ph.D.

Professor
Dept. of E&CE

Signature of the Reviewer
Dr Usha K P BE,M.Tech,Ph.D
Assistant Professor of
Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M. Tech., Ph.D.

Professor & Head Dept. of E&CE

Manjula U R B.E., M.Tech Asst. Professor Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Arecanut segregation based on colour" is a bona fide work carried out by MONIKA KM(4A122EC417), ARPITIIA KR(4A122EC401), GIRISH AC(4A122EC10), BHAGAVNTRAYA S(4A122EC403) 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Englucering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Dr.Anilkumar C B.E., M. Tech, Ph.D

Associate Professor Dept. of E&CE

Signature of the Reviewer
Mrs. Divya G.S B.E.,M.Tech.,
Assistant Professor
Dept. of E&CE

Signature of the Coordinators

Dr. Kumuda T. B.E., M. Tech., Ph.D

Professor Dept. of E&CE

Manjula U R B.E., M.Tech Assistant professor Dept of E&CE Signature of the HOD

Dr. Goutham M A. B.E., M. Tech., Ph.D

Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "SMART RAILWAY WAGON" is a bonafide work carried out by PAVANKUMAR (4AI21EC052), LIKHITH SV (4AI21EC037), DHANUSH GOWDA H (4AI21EC028) SHASHANK K G (4AI22EC424) 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

GIRISH S B.E., M. Tech, (Ph.D), LMISTE Dept. of E&CE A.I.T., Chikamagluru

Signature of the Coordinators

Dr. Kumuda T. B.E., M. Tech., Ph. D

Professor

Dept. of E&CE

Manjula U R B.E., M.Tech Assistant professor Dept of E&CE) W

Signature of the Reviewer

MAHESH D S B.E., M. Tech, (Ph.D), MIE Dept. of E&CE
A.I.T., Chikamagluru

Signature of the HOD

Dr. Goutham M A B.E., M. Tech, Ph. D

Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "IOT BASED INDUSTRIAL MONITORING SYSTEM USING ESP32" is a bona fide work carried out by Abhishek K M (4AI21EC001), Ankith P (4AI21EC004), Darshan S(4AI21EC021), Avinash H R (4AI22EC402), Dayananda H L (4AI22EC407) 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

1 8

Signature of the Guide

Mr.Girish S, B.E., M.Tech, (PH.D),LMIS
Dept. of E&CE
A.I.T., Chikkamagaluru

Signature of the Coordinators

Dr. Kamuda T. B.E., M. Tech., Ph. D

Professor

Dept. of E&CE

Ms. Manjula U R B.E., M.Tech

Asst. professor Dept of E&CE Signature of the Reviewer

Mr .Harish Kumar C R., B.E., M.S., MIE.

Dept. of E&CE

A.I.T., Chikkamagaluru

Signature of the HOD

Dr. Goutham M A B.E., M.Tech, Ph. D

Professor & Head

Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "CIRCULAR SHAPED PATCH ANTENNA FOR2.4Ghz WIRELESS APPLICATION" is a bona fide work carried out by Deepu p (4AI22EC408), Jeevan R M (4AI22EC033), Kanakraj H R (4AI22EC014), Karanraj H R (4AI22EC015), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Mr. MAHESH D S,B.E., M.Tech, (Ph. D).,MIE Dept. of E&CE

A,I,T.,Chikmagaluru

Signature of the Coordinators

Dr. Kumuda T. B.E., M. Tech., Ph. D

Professor

Dept. of E&CE

 ${\bf DR}$, ${\bf H}$ ${\bf R}$ ${\bf VANI}$, B.E., M. TECH., PHD., LIMISTE, MIE.

Dept, of E&CE A.I.T., Chikkamagaluru

Signature of the Reviewer

Signature of the HOD

Dr. Goutham M A B.E., M. Tech, Ph. D

Professor & Head Dept. of E&CE

Ms. Manjula U R B.E., M.Tech

Asst. professor Dept of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "FOOT STEP POWER GENERATOR USING PIEZOELECTRIC SENSOR" is a bonafide work carried out by PRIYANKA H J (4AI21EC060), PRUTHVI V (4AI21EC062), RAKSHITHA K U (4AI21EC067), THULASI K (4AI21EC098) 6th SEMESTER B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Dr. USHA K.P BE. M. Tech., Phd., MIE **Assistant Professor**

Dept of E&CE AIT CKM

Signature of the Coordinators

Dr. KUMUDA T. B.E., M.Tech., Ph.D **Professor**

Dept. of E&CE AIT CKM

Mrs. MANJULA U R B.E., M.Tech

Assistant Professor Dept of E&CE AIT CKM

Dr. M.S HARISH BE., M. Tech., Phd., LMISTIE MIE

Associate Professor Dept of E&CE AIT CKM

Dr. GOUTHAM M A. B.E., M.Tech., Ph.D

Professor & Head

Dept. of E&CE AIT CKM

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "SMART TRAFFIC SIGNAL MONITORING AND CONTROLLING" is a bonafide work carried out by BENAKESH S N (4AI21EC010), CHETHAN N M (4AI21EC020), NAKUL P M (4AI21EC046), NIRANJAN G M (4AI21EC049), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Mrs. Manjula U R B.E., M.Tech Asst. Professor Dept. of E&CE

Signature of the Coordinators

Dr. Kumuda T. B.E., M.Tech., Ph.D. Professor

Dept. of E&CE

Mrs. Manjula UR B.E., M.Tech

Assistant professor Dept of E&CE

Signature of the Reviewer

Mr. MADHU PRAKASH R B.E., M.Tech

Asst. Professor Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M. Tech., Ph.D

Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Ultrasonic Spectacle For Blinds" is a bona fide work carried out by SHARATH R(4AI21EC076), THARUN R(4AI21EC096), SUNIL KUMAR M C (4AI22EC427), SACHCHIDANANDA H(4AI22EC422),6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Miniproject report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide
Dr.VANI H R.B.E., M.Tech, Ph,D

Associate Professor
Dept. of E&CE

Signature of the Coordinators

Dr. Kuntuda T. B.E., M. Tech., Ph.D LMISTE.., MIE

Professor

Dept. of E&CE

Mrs Wanjula U R B.E., M.Tech

Assistant professor Dept of E&CE Signature of the Reviewer

rughash 02/8/2024

Mrs MEGHASHREE M. B.E., M. Tech

Assistant Professor Dept. of E&CE

Signsture of the HOD

Dr. Goutham M A. B.E. M.Tech., Ph.D

Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) Chikkamagaluru, Karnataka, India-577102

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that the Mini project work entitled "GUARDIAN VITAL SHIELD" [21ECMP67]" is a bonafide work carried out by Pragna J (4AI21EC055), Sowmya C G (4AI21EC089) Sinchana K S(4AI21EC084) student of 6th semester B.E, in partial fulfilment for the award of Degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the academic year 2023-2024. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The internship report has been approved, as it satisfies the academic requirements in respect of internship work prescribed for the said Degree.

mm 05/08/14

Signature of the Guide

Dr. Harish M S, B.E., M. Tech ., PH.D., MIE

Assistant Professor, Department of E&CE

Signature of the Coordinator

Dr. Kumuda T.,B.E., M. Tech "PH.D

Assistant Professor,

Department of E&CE

Manjula U R B.E., M.Tech Assistant professor Department of E&CE Signature of the Reviewer

Mrs. Nagveni Č R B.E., M.E., (PH.D)., MIE

Assistant Professor,

Department of E&CE

Signature of the HOD

Dr. M A Goutham B.E., M. Tech "PH.D., MIE

Professor and Head of

Department of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CERTIFICATE



This is to certify that Mini-Project work entitled "SOLAR BASED AUTOMATED AGRICULTURE" is a bona fide work carried out by BHARATH M B(4AI22EC404), GANESH KUMAR H U(4AI22EC409), SHRESHTA A D (4AI21EC082), S(4AI22EC411),6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed forthe said degree.

Signature of the Guide

Mrs NAGAVENI C R.B.E., M. Tech

Assistant Professor Dept. of E&CE

Professor and Head

Dept. of E&CE

Signature of Reviewer

Dr. GOUTHAM M A. B.E., M. Tech, Ph. D

Signature of the Coordinators

Dr. Kamuda T. B.E., M.Tech., Ph.D

Professor

Dept. of E&CE

Dr. Goutham M A. B.E., M. Tech., Ph.D.

Signature of the HOD

Professor & Head Dept. of E&CE

Manjula U R B.E., M.Tech **Assistant Professor**

Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU,INDIA-577102

DEPARTMENT OF ELECTRONICS & COMMUNICATIONENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "AUTOMATIC WIPING SYSTEM USING ARDINO UNO" is a bonafide work carried out by PRAMOD GOWDA T E (4AI21EC057) PUNITH T R (4AI21EC065), RAKSHITH C N (4AI21EC066), VARSHITH C P (4AI21EC100) 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Nagaveni C R B.E., M.Tech., (Ph.D)

Assistant Professor Dept.of E&CE

Signature of the Coordinators

Dr.KumudaT.B.E.,M.Tech., Ph.D

Professor

Dept. of E&CE.

Manjula UR B.E., M. Tech

Assistant Professor

Dept. of E&CE

Malus

Signature of the Reviewer

Mahesh D S., B.E., M. Tech., (Ph.D)

Assistant Professor

Dept.of E&CE

Signature of the HOD

Dr.Goutham M A. B.E., M. Tech., Ph.D

Professor & Head

Dept. of E & CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "AGRICULTURE SAFETY USING SMART SCARECROW DOLL" is a bonafide work carried out by SUHAS RATHOD C P (4AI21EC092), TEJASWINI R JAGADISH(4AI21EC094), YASHASWINI C B(4AI21EC103),6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Mr.Raghukumar B S.B.E., M.Tech(Ph.d)
Assistant Professor

Dept. of E&CE

Signature of the Reviewer Dr. Usha K P.B.E., M.Tech., Ph.d Assistant Professor Dept. of E&CE

Signature of the Coordinators

Dr. Kamuda T. B.E., M.Tech., Ph.D Professor

Dept. of E&CE

Dr. Goutham M A. B.E., M.Tech., Ph.D Professor& Head

Dept. of E&CE

Mrs.Manjula U R B.E., M.Tech
Assistant professor
Dept of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "RFID Based Attendance System Using ESP8266 Wi-Fi Microcontroller" is a bonafide work carried out by Anusha A(4AI21EC006) Darshini B(4AI21EC022) Deeksha K B(4AI21EC023) Deeksha K R (4AI21EC024) 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Mr. Raghu Kumar B. S B.E., M.Tech., (Ph.D).,ISCA Assistant Professor Dept. of E&CE

Signature of the Coordinators Dr. Kumuda T. B.E., M.Tech., Ph. D

Professor Dept. of E&CE

Manjula U R B.E., M.Tech Assistant Professor Dept. of E&CE Signature of the Reviewer

Dr.Harish M S

B.E., M.Tech., Ph,D.,LMISTE., MIE.

Associate Professor Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M.Tech., Ph. D

Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "SOLAR TRACKER USING ARDUINO UNO" is a bona fide work carried out by Arpitha C.S(4AI22EC400), Manjushree K.S(4AI21EC040), Bhoomika B.C(4AI21EC012), Likitha C.M(4AI21EC038), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide Mrs. Linet Dsouza

BE., MTech., Assistant Professor

Dept. of ECE

Signature of the Coordinators

Dr. Kumuda T. B.E., MTech., Ph.D.

Professor Dept. of ECE

Mrs. Manjula U R BE., MTech

Assistant Professor

Dept. of ECE

Signature of the Reviewer

Ms. Chandrakala C T

BE., MTech., MIE Assistant Professor

Dept. of ECE

Signature of the HOD

Dr. Goutham M A. B.E., MTech., Ph.D.

Professor & Head Dept. of ECE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Wireless AC Power Detection" is a bonafide work carried out by CHETHAN H S (4AI22EC405), HARSHA V (4AI22EC412), RUDRESH C S (4AI22EC421), VIJAY KUMAR N B (4AI22EC428), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Mrs. Linet Dsouza.B.E., M.Tech

Assistant Professor Dept. of E&CE

Signature of Mic Coordinators

Dr. Kumuda T. B.E., M.Tech., Ph.D

Professor

Dept. of E&CE

Mrs. Manjula U R B.E., M.Tech

Assistant professor Dept of E&CE Signature of the Reviewer

Dr.Suma M. B.E.,M.Tech.,Ph.,LMISTE.,MIE

Associate Professor Dept. of E&CE

Dr. Goutham M A. B.E., M.Tech., Ph.D

Professor& Head

Dept. of E&CE

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Smart shopping trolley with automated billing using arduino" is a bonafide work carried out by SHUBHA T.M(4AI21EC083), SIRI D.A(4AI21EC06), SOMSASHEKAR N J(4AI21EC087), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Tasmia Namreen A
Assistant professor

Dept. of E&CE

Signature of the Coordinators

Dr. Kumuda T. B.E., M. Tech., Ph.D

Professor

Dept. of E&CE

Manjula U R B.E., M.Tech

Assistant professor

Dept of E&CE

Signature of the Reviewer

Manjula U.R.

Assistant professor Dept. of E&CE

Significant the HOL

Dr. Goutham M A. B.E., M.Tech., Ph.D

Professor & Head Dept. of E&CE

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CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "NON-INVASIVE GLUCOMETER" is a bonafide work carried out by ANUSHREE J K (4AI21EC007), MANU PATEL S P (4AI21EC042), NISHANTHGOWDA V S (4AI21EC050), NISHCHITHA M (4AI21EC051), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guid

Mrs. Tasmia Namreen A.B.E., M.Tech.,

Asst. Professor Dept. of E&CE

Signature of the Coordinators

Dr. Kumuda T. B.E., M.Tech., Ph.D Professor Dept. of E&CE

Mrs. Manjula U R B.E., M. Tech Assistant professor Dept of E&CE Signature of the Reviewer

Mrs.Linet D'Souza.B.E.,M.Tech.

Asst. Professor Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M.Tech., Ph.D

Professor & Head Dept. of E&CE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



This is to certify that Mini-Project work entitled "Helmet based ignition and alcohol detection" is a bonafide work carried out bySHANVI D (4AI21EC074), PRANAMYA G (4AI21EC058) and SONIYA G (4AI21EC088), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-2024. The Miniproject report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of theGuide

Mrs.Divya G S,B.E, M.Tech,MIE
Assistant Professor,

Department of E&CE

Signature of the Reviewer

Dr.Kumuda TBE.,M.Tech.,Ph.D.,LMISTE,MIE.

Professor,

Department of E&CE

Signature of the Coordinator

 $Dr. Kumuda\ T\ {\scriptstyle BE.\ M. Tech., Ph.D., LMISTE, MIE.}$

Professor,

Department of E&CE

Signature of the HOD

Dr. GouthamMA M.Tech.Ph.D

Prof. Head of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Earthqake detection using ARDUINO" is a bonafide work carried out by POORNIMA H G, PRIYANKA H S, PRAJWAL,6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide 30 7121

Ms. Chandrakala CT.RE, M.Tech, MIE Assistant Professor Dept. of E&CE

Signature of the Coordinators

Dr. Kumada T. B.E., M.Tech., Ph.D,MIE, LMISTE Professor Dept. of E&CE

Mrs.Manjula U R B.E., M.Tech,MIE
Assistant professor
Dept of E&CE

Signature of the Reviewer

Dr.Anil Kumar C. B.E., M.Tech., Ph.D, LMISTE, MIE Associate Professor Dept. of E&CE

Signature of the HQD

Dr. Goptham M A. B.E., M. Tech., Ph Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "FINGERPRINT VEHICLE STARTER USING ARDUINO" is a bonafide work carried out by ANKUSII D D (4AI21EC005), CHANDRAKANTH S M (4AI21EC019), DEEPAKRAJ R B (4AI21EC027), KARTHIKEYAN J (4AI21EC034),6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Ms. Chandrakala C T.B.E., M.Tech.

Asst. Professor Dept. of E&CE

Dr. Anil Kumar C B.E., M.Tech., Ph.d. Associate Professor

Dept. of E&CE

Signature of the Reviewer

Signature of the Coordinators

Dr. Kumuda T. B.E., M.Tech., Ph.D

Professor

Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M.Tech., Ph.D

Professor & Head

Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "ANTI SLEEP ALARM FOR DRIVERS" is a bonafide work carried out by ASHWIN GOWDA S J (4AI21EC008), DEEPAK M S (4AI21EC025), GOWTHAM B G (4AI21EC031), MOHAMMED WASIB (4AI21EC045), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2023-24. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Dr. Suma B.E., M.Tech., ph.D Assistant Professor Dept. of E&CE

Signature of the Coordinators

Dr. Kurkuda T. B.E., M.Tech., Ph.D Professor Dept. of E&CE

Mrs. Manjula U R B.E., M.Tech Assistant professor Dept of E&CE Signature of the Reviewer

Mr. Rajappa B.E., M.Tech Assistant Professor Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M.Tech., Ph.D Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



This is to certify that Mini-Project work entitled "FACILITATED TRAFFIC LIGHT SIGNAL FOR BLIND PEOPLE & DENSITY BASED TRAFFIC LIGHT" is a bonafide work carried out by BHUMIKA D M (4AI21EC013), MEGHANA R (4AI21EC044), NEHA G M (4AI21EC047) NIDHIKM (4AI21EC048), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections / suggestions indicated for Internal Assessment have been in corporate in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Mrs. Meghashree M BE_MTech Assistant Professor Dept. of E&CE

Signature of the Coordinators

Dr. KuniudaT._{B.E.,M.Tech., Ph.D} Professor

Professor Dept.ofE&CE

Mrs.Manjula U R B.E.,M.Tech Assistant Professor

Assistant Professor Dept. of E&CE Signature of the Reviewer

Mrs. Tasmia Namreen A.BE., M.Tech., MIE Assistant Professor Dept. of E&CE

Signature of the HOD

Dr.Goutham M A._{B.E.,M.Tech., Ph.D} Professor & Head

Professor & Head Dept. of E&CE

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Soil Moisture detection and monitoring" is a bonafide work carried out by PRUTHVI V P(4AI21EC063), SHALINI B S (4AI21EC073), VEENA R GOWDA (4AI21EC101), KAVYA B M (4AI22EC416), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2022. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide
Mrs.Meghashree M.B.E.,M.Tech.,
Assistant Professor
Dept. of E&CE

Signature of the Coordinators

Dr. Kumuda T. B.E., M.Tech., Ph.D Professor Dept. of E&CE

Manjula U R B.E., M.Tech

Assistant professor Dept of E&CE Signature of the Reviewer

Mr.Dr.A.P.Jagadeesh Chandra.B.E.M.Tech,Ph.D.

Professor Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M.Tech., Ph.D Professor & Head Dept. of E&CE

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DEPARTMENT OF ELECTRONICS & COMMUNICATION

ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "SMART BLIND STICK USING ARDUINO UNO" is a bonafide work carried out by, Ruman Raza (4AI21EC070), Theju A R (4AI21EC097), Sanjay J K (4AI21EC071), Vinay H B (4AI21EC102) students of 6th Semester B.E in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections / suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree

Signature of the Guide Mrs. Anitha KT B.E., M.E., MIE Assistant professor Dept. of E&CE

Signature of the Reviewer Dr.Suma.M B.E., M.Tech., Phd. Associate professor Dept. of E&CE

Dr. KupanaT.B.E.,M.Tech., Phd.,LMISTE.,MIE **Professor**

Dept. of E&CE

Signature of the Coordinators

Mrs. Manjula U R, B.E., M.Tech Assistant professor

Dept. of E&CE

Signature of the HOD

Dr. Goutham M A, B.E., M. Tech., Phd

Head of Dept Dept of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "Pollution monitoring smart watch" is a bonafide work carried out by SHARATH K Y(4AI21EC075), SUPRITH R M(4AI21EC093), TEJU K B(4AI21EC095), ULLAS H J(4AI21EC099), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide

Dr. Goutham M A. B.E., M.Tech., Ph.D

Professor & Head Dept. of E&CE

Signature of the Reviewer

Mrs. Anitha K T. B.E.M.E Assistant professor Dept. of E&CE

Signature of the Coordinators

Dr. Kumuda T. B.E., M.Tech., Ph.D

Professor Dept. of E&CE

Mrs.Manjula U R. B.E., M.Tech Assistant Professor

Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M.Tech., Ph.D

Professor & Head Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that Mini-Project work entitled "IOT BASED CROP RECOMMENDATION" is a bona fide work carried out by Akanksha C(4AI21EC002), Chaithanya J(4AI21EC015), Chandana K(4AI21EC017), Chandana patil CS S(4AI21EC018), 6th Semester B.E. in partial fulfillment for the award of degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi, during the year 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The Mini-project report has been approved as it satisfies the academic requirements of the prescribed for the said degree.

Signature of the Guide Mrs. Anitha K T, BE,MIE, MIE

Assistant Professor Dept. of E&CE

Signature of the Coordinators

Dr. Kumuda T. B.E.,M.Tech.,Ph.D

Professor Dept. of E&CE

Signature of the HOD

Br. Goutham M A. B.E., MTech., Ph.D

Professor & Head Dept. of E&CE

Signature of the Reviewer
Mr. Madhu Prakash R, B.E., M.TECH.,
Assistant Professor
Dept. of E&CE

Manjula U R B.E., Miech Assistant professor Dept. of E&CE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION **ENGINEERING**



CERTIFICATE

This is to certify that VAISHNAVI S R bearing USN 4AI20EC103 has submitted the INTERNSHIP report entitled "INDUSTRY 4.0, THE NEXT INDUSTRY REVOLUTION". She has satisfactorily completed the Internship work prescribed by Visvesvaraya Technological University, Belagavi, for 8th sem Electronics and Communication Engineering during the year 2023-2024.

1

E/4/2024

Signature of Staff in charge

Mrs Meghashree M B.E.,M.Tech

Assistant Professor Dept of ECE,AIT

Signature of Co-ordinator

Ms. Tasmia Namreen A. B.E., M. Tech.

Assistant Professor Dept of ECE,AIT

Signature of Reviewer

Dr. Usha K P B.E., M.Tech., Ph.D.

Associate Professor

Dept of ECE,AIT

14/15/24/24 Signature of HOD

Dr.GOUTHAM.M.A B.E.,M.Tech.Ph.D.

Professor and HOD

Dept of ECE,AIT



Ref: LW/CI/LGL Date: 21/March/2024



CERTIFICATE OF INTERNSHIP

"LOGINWARE GLOBAL LEARNING"

(A learning initiative by Loginware Softtec Pvt.Ltd.)
Internship Duration: 12th February 2024 to 21st March 2024

This Certificate of Internship is hereby conferred upon Ms. VAISHNAVI S R, a distinguished student of AIT, Chikmagalur, in acknowledgment of her commendable achievements during the "Industry 4.0, the next Industry Revolution" Internship at Loginware Softtec Pvt. Ltd.

She demonstrated an unwavering commitment to excellence throughout her internship, displaying remarkable proficiency and diligence in the execution of her assigned tasks. Her exemplary conduct and strong work ethic served as a testament to her dedication and professionalism.

With this certificate, we commend Ms. VAISHNAVI S R for her outstanding contributions and wish her continued success in her academic and professional endeavors.

Ahyida.

Director

eagle

sparrow

Loginware Softtec Pvt. Ltd.,

9428, 3rd Floor, Glass House, 11th Cross, 3rd Main,
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ty, Kengeri Satellite Town, Bengaluru, Karnataka - 560060

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify **Shree Vishnu N V** that bearing USN **4AI20EC085** has submitted the INTERNSHIP [18ECI81] report entitled "Home Automation". he has satisfactorily completed the Internship work prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for 8th semester ELECTRONICS & COMMUNICATION ENGINEERING during the year 2023-2024.

Signature of the guide

Mrs. Manjula U R B.E., M.Tech .MIE, Assistant Professor Dept. ECE

Signature of the Coordinator
Tasmia Namreen A B.E., M.Tech
Assistant Professor Dept. ECE

Signature of the Reviewer

Dr. Kumuda T B.E., M.Tech.,ph.D.,LMISTE.,MIE Professor Dept. ECE

Signature of the HOD

Dr. Goutham M A B.E., M.Tech.Ph.D Professor and HOD Dept. ECE



Ref: LW/CI/LGL Date: 21/March/2024



CERTIFICATE OF INTERNSHIP

"LOGINWARE GLOBAL LEARNING"

(A learning initiative by Loginware Softtec Pvt.Ltd.) Internship Duration: 12th February 2024 to 21st March 2024

This Certificate of Internship is hereby conferred upon Mr. SHREE VISHNU N V, a distinguished student of AIT, Chikmagalur, in acknowledgment of his commendable achievements during the "Industry 4.0, the next Industry Revolution" Internship at Loginware Softtec Pvt. Ltd.

He demonstrated an unwavering commitment to excellence throughout his internship, displaying remarkable proficiency and diligence in the execution of his assigned tasks. His exemplary conduct and strong work ethic served as a testament to his dedication and professionalism.

With this certificate, we commend Mr. SHREE VISHNU N V for his outstanding contributions and wish him continued success in his academic and professional endeavors.

Director

Skinovare Softree Pve, 186

Loginware Softtec Pvt. Ltd.,

8428, 3rd Floor, Glass House, 11th Cross, 3rd Main, Opp. Road to Radiant Apartment, Suncity, Kengeri Satellite Town, Bengaluru, Karnataka - \$60060 nwaresofttec.com @ www.loginwaresofttec.com @ 99166 09819, +91 79969 90246

Loginware Softtec Pvt. Ltd., #40/163, 1st Floor, Opp. Bharathi Associates, BM Bypass Road, Boovanahalli, Hassan- 573201 M Info@loginwaresofttec.com @ www.loginwaresofttec.com 3 08172 - 297179, +91 79969 90246

(Affiliated to Visvesvaraya Technological University, Belagavi)
CHIKKAMAGALURU, INDIA-577102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



This is to certify that BHARATH S bearing USN 4AI20EC015 has submitted the INTERNSHIP [18ECI81] report entitle "RFID-Based Locker Access Control System". He has satisfactorily completed the Internship work prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for 8th semester ELECTRONICS & COMMUNICATION ENGINEERING during year 2023-2024.

Signature of internal guide

Dr KUMUDA T B.E., M.Tech., Ph D., LMISTE., MIE

Professor Dept. ECE

Head of Department

Dr. Goutham M A B.E., M.Tech., Ph.D

Professor & Head of Dept. ECE

Signature of Reviewer

MANJULA U R B.E., M.Tech.,

Assistant Professor Dept. ECE

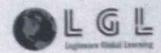
nternship Coordinator

Tasmia Namreen A B.E., M.Tech

Assistant Professor Dept. ECE



Ref: LW/CI/LGL Date: 21/March/2024



CERTIFICATE OF INTERNSHIP

"LOGINWARE GLOBAL LEARNING"

(A learning initiative by Loginware Softtec Pvt.Ltd.)
Internship Duration: 12th February 2024 to 21st March 2024

This Certificate of Internship is hereby conferred upon Mr. BHARATH S, a distinguished student of AIT, Chikmagalur, in acknowledgment of his commendable achievements during the "Industry 4.0, the next Industry Revolution" Internship at Loginware Softtec Pvt. Ltd.

He demonstrated an unwavering commitment to excellence throughout his internship, displaying remarkable proficiency and diligence in the execution of his assigned tasks. His exemplary conduct and strong work ethic served as a testament to his dedication and professionalism.

With this certificate, we commend Mr. BHARATH 5 for his outstanding contributions and wish him continued success in his academic and professional endeavors.

Director

Linguismare Softjee Pvt. Ltd.

eagle

Loginware Softtec Pvt. Ltd.,

8428, 3rd Floor, Glass House, 13th Cross, 3rd Main, Opp. Road to Radiont Apartment,

Suncity, Kengeri Satellite Town, Bengalaru, Karnataka - SARRAJ or Milaglingineerscatter.com g www.legimenteeslites.com 0.90100.00010 a.01.70000.00000 Loginware Softtee Pvt. Ltd., 840/183, 1st Plant, Ope. Sharathi Associates, SM Sepans S Scoressidali, Pagasar- 57/201

64 Info@loginusmonittes.com © overs.loginusmonittes.com © 08172 -297179, +91 79889 90286

(Affiliated to Visvesvaraya Technological University, Belagavi)

CHIKKAMAGALURU, INDIA-577102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that **VARSHITHA S** Vbearing USN **4AI20EC107**has submitted the **INTERNSHIP** [18EC185] report entitled"**AN OVERVIEW OF ENIG PROCESS**". SHe has satisfactorily completed the Internship work prescribed by VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI for the 8th semester of ELECTRONICS & COMMUNICATION ENGINEERING during the year 2023-2024.

Signature of internal guide

Mem

Ms. NAGAVENI C R,B.E., M.E., (Ph D)., MIE
Assistant Professor

Dept of ECE, AIT

Head of Department

Dr. GOUTHAM M A,B.E., M.Tech., Ph.D

Professor & Head of Dept of ECE

My Signature of Reviewer

Dr. HARISH M S,B.E., M.Tech., PhD., LMISTE., MIE
Associate Professor

Dept of ECE, AIT

Internship Coordinator

TASMIA NAMREENA, B.E., M. Tech

Assistant Professor, Dept of ECE



AT&5 India Pvt. Ltd.

12 A | Industrial Area Nanjangud 571301 | Mysore District | Karnataka | India Tel +91 (0) 8221 244000 | Fax +91 (0) 8221 228570 CIN - U85110KA1988PTC025861

Date: 11.03.2024

CERTIFICATE

This is to certify that Ms. Varshitha S V (USN No. 4AI20EC107) a student of BE Electronics and Communication Engineering, Batch 2020-24 Adichunchanagiri Institute Of Technology, Chikkamagaluru has done her Internship Study on "PCB Manufacturing Process at Surface Finish Process" at AT&S, Nanjangud Industrial area, Mysuru district". Under the guidance Mr. Pradeep.P.H — HOD Surface Finish Department for the period of 14th Feb 2024 to 11th Mar 2024.

We wish her all the success in her future endeavors.

Thanking You,

Yours faithfully,

FOR AT&S INDIA PVT LTD

Nandakishore

Head - HR

Axis Bank Limited INR Account No. 917020059655476 | IFSC Code : UTIB0000151 Axis Bank Limited USD Account No. 917020059967753 | SWIFT Code : AXIS/NBB151 Axis Bank Limited EUR Account No. 917020056702427 | SWIFT Code : AXIS/NBB151

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that VEDHASHREE C R bearing USN 4AI20EC108 has submitted the INTERNSHIP [18EC185] report entitled "PLC WITH IoT". She has satisfactorily completed the Internship work prescribed by Visvesvaraya Technological University, Belagavi, for 8th sem Electronics and Communication Engineering during the year 2023-2024.

Signature of Staff in charge

Mrs Nagaveni C R B.E., M. Tech., (Ph.D)., MIE,

Assistant Professor

Dept of ECE,AIT

Signature of Co-ordinator

Ms. Tasmia Namreen A. B.E., M.Tech.

Assistant Professor

Dept of ECE,AIT

hrms 48 03)24)

Signature of Reviewer

Dr.M S Harish B.E., M.Tech., Ph.D., LMISTE., MIE

Associate Professor

Dept of ECE,AIT

Signature of HOD

Dr.GOUTHAM.M.A B.E.,M.Tech.Ph.D.

Professor and HOD

Dept of ECE,AIT



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನೋಂದಾಯಿತ ಸೊಸೈಟಿ)

Government Tool Room & Training Centre

(A Registered Society under Government of Karnataka)

LETTER OF INTERNSHIP

To,

Date:-12-03-2024

The Principal,

Adichunchanagiri Institute of Technology,

Chikkamagaluru-5771102.

Respected Sir / Madam,

Subject: Completion of Student Internship Program.

Government Tool Room and Training Centre is pleased to inform you that Ms. Vedashree C R [4AI20EC108] student of 8th Semester, Electronics and Communication branch of your institution was admitted for internship with us and She was offered internship in the domain of "PLC & IOT" and the training program was scheduled from 12thFebruary 2024 to 12th March 2024.

Best Regards,

Co-ordinator

Nodal officer

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that SWARNAGOWRI K S bearing USN 4AI20EC099 has submitted the INTERNSHIP report entitled "PLC AND IoT". She has satisfactorily completed the Internship work prescribed by Visvesvaraya Technological University, Belagavi, for 8th sem Electronics and Communication Engineering during the year 2023-2024.

mghash 4/4/2024

Signature of Staff in charge Mrs. Meghashree M B.E., M. Tech. Assistant Professor

Dept of ECE,AIT

Signature of Coordinator

Ms. Tasmia Namreen A. B.E., M.Tech.

Assistant Professor

Dept of ECE,AIT

Signature of Reviewer

Dr.USHA K P B.E.,M.Tech,Ph.D

Assistant Professor Dept of ECE,AIT

Signature of HOD

Dr.GOUTHAM.M.A B.E., M. Teeb. Ph.D.

Professor and HOD

Dept of ECE,AIT



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನೋಂದಾಯಿತ ಸೊಸೈಟಿ)

Government Tool Room & Training Centre

(A Registered Society under Government of Karnataka)

LETTER OF INTERNSHIP

To.

Date:-12-03-2024

The Principal,

Adichunchanagiri Institute of Technology,

Chikkamagaluru-5771102.

Respected Sir / Madam,

Subject: Completion of Student Internship Program.

Government Tool Room and Training Centre is pleased to inform you that Ms. SwarnaGowri K S [4A120EC099] student of 8th Semester, Electronics and Communication branch of your institution was admitted for internship with us and She was offered internship in the domain of "PLC & IOT" and the training program was scheduled from 12thFebruary 2024 to 12th March 2024.

Best Regards,

Co-ordinator

Nodal officer

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that SAHANA K R bearing USN 4AI21EC403 has submitted the INTERNSHIP report entitled "PLC AND IOT". She has satisfactorily completed the Internship work prescribed by Visvesvaraya Technological University, Belagavi, for 8th sem Electronics and Communication Engineering during the year 2023-24...

Signature of the Guide Mr. GIRISH .S B.E,M.Tech,(Ph.D.),LMISTE

Assistant professor Dept. of E&CE Signature of the Reviewer 4 2014

Mr. RAGHUKUMAR B S B.E,M.Tech.,(Ph.D.),ISCA Assistant professor Dept. of E&CE

Signature of the Coordinators

Ms. Tasmia Namreen A. B.E., MTech.

Asst. Professor Dept. of E&CE Signature of the HOD

Dr. Goutham M A. B.E., MTech., Ph.D Professor & Head Dept. of E&CE



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ಗೋಂದಾಯತ ಸೊಸ್ಟೆಟಿ)

Government Tool Room & Training Centre

(A Registered Society under Government of Karnataka)

LETTER OF INTERNSHIP

To.

Date -12-03-2024

The Principal,

Adichunchanagiri Institute of Technology.

Chikkamagaluru-5771102.

Respected Sir / Madam,

Subject: Completion of Student Internship Program.

Government Tool Room and Training Centre is pleased to inform you that Ms. Sahana K R [4A121EC403] student of 8th Semester, Electronics and Communication branch of your institution was admitted for internship with us and She was offered internship in the domain of "PLC & IOT" and the training program was scheduled from 12th February 2024 to 12th March 2024.

Best Regards,

Co-ordinator

Nodal officer

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that **AKSHATAH** K R bearing USN **4AI20EC005** has submitted the INTERNSHIP report entitled "*PLC and IOT*". She has satisfactorily completed the Internship work prescribed by Visvesvaraya Technological University, Belagavi, for 8th sem Electronics and Communication Engineering during the year **2023-24**.

Signature of the Guide

Dr. A P JAGADEESH CHANDRA

B.E.,M.Tech.,Ph.D.,LMISE.,FIE Professor

Dept. of E&CE

Signature of the Reviewer

Mrs.LINET DSOUZA

B.E.,MTech

Assistant professor

Dept. of E&CE

Signature of the Coordinators Mrs. Tasmia Namreen A. B.E., MTech.

Assistant Professor Dept. of E&CE Signature of the HOD

Dr. Goutham M A. B.E., MTech., Ph.D

Professor & Head

Dept. of E&CE



ಸರ್ಕಾರಿ ಉಪಕರಣಾಗಾರ ಮತ್ತು ತರಬೇತಿ ಕೇಂದ್ರ

(ಕರ್ನಾಟಕ ಸರ್ಕಾರದ ನೋಂದಾಯಿತ ಸೊಸೈಟ)

Government Tool Room & Training Centre

(A Registered Society under Government of Karnataka)

LETTER OF INTERNSHIP

To.

Date:-12-03-2024

The Principal,

Adichunchanagiri Institute of Technology,

Chikkamagaluru-5771102.

Respected Sir / Madam,

Subject: Completion of Student Internship Program.

Government Tool Room and Training Centre is pleased to inform you that Ms. Akshatha K R [4AI20EC005] student of 8th Semester, Electronics and Communication branch of your institution was admitted for internship with us and She was offered internship in the domain of "PLC & IOT" and the training program was scheduled from 12th February 2024 to 12th March 2024.

Best Regards,

Nodal officer

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that NEHA G M bearing USN 4AI21EC047 has submitted the INTERNSHIP report entitled "AMAZON WEB SERVICES" & "SOFTWARE DEVELOPMENT USING PYTHON". He has satisfactorily completed the Internship work prescribed by Visvesvaraya Technological University, Belagavi, for 6th sem Electronics and Communication Engineering during the year 2023-24.

Signature of the Guide

Mrs. ANITHA K. T RE, ME

Asst. Professor Dept. of E&CE Signature of the Reviewer

Dr. A.P. JAGADEESH CHANDRA. BE, M.Treb Jb.d.

Professor Dept. of E&CE

Signature of the Coordinators

Mrs, Tasmia Namreen A. B.E., M. Tech.

Asst. Professor Dept. of E&CE Signature of the HOD

Dr. Goutham M A. B.E., M. Tech., Ph.D.

Professor & Head Dept. of E&CE

ERTIFICA

OF INTERNSHIP

This is to certify that Mr./Mrs./Ms.

NEHA G.M

Student of 6th semester, Department of Electronics and Communication Engineering of Adichunchanagiri Institute of Technology, Chikkamagaluru

has completed Internship Program on Amazon Web Services and Software Development duration 4 (four) weeks conducted by inhouse faculties of Department of ECE, AIT. using Python for the period from 30th October, 2023 to 24th November, 2023,

DR M.A GOUTHAM

Deapartment of ECE Professor and Head

PROF. TASMIA NAMREEN A

Internship Coordinator Department of ECE

(Affiliated to Visvesvaraya Technological University, Belagavi) CHIKKAMAGALURU, INDIA -577 102

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that NIDHI K M bearing USN 4AI21EC048 has submitted the INTERNSHIP report entitled "AMAZON WEB SERVICES" & "SOFTWARE DEVELOPMENT USING PYTHON". He has satisfactorily completed the Internship work prescribed by Visvesvaraya Technological University, Belagavi, for 6th sem Electronics and Communication Engineering during the year 2023-24.

Signator of the Guide

Mrs. ANITHA K. T B.E.,M.E Asst. Professor Dept. of E&CE Joseph 20124 Signature of the Reviewer

Dr. A.P. JAGADEESH CHANDRA. R.E., M.Tock .Pk.4
Professor
Dept. of E&CE

Signature of the Coordinators

Mrs. Tasmia Namreen A. B.E., M. Tech. Asst. Professor Dept. of E&CE Dr. Goutham M A. B.E., M.Tech., Pa.S Professor & Head Dept. of E&CE

Department of Electronics and Communication Engineering Adichunchanagiri Institute of Technology

CERTIFICATE

OF INTERNSHIP

This is to certify that Mr./Mrs./Ms.

NTOHI KM

Student of 6th semester, Department of Electronics and Communication Engineering of Adichunchanagiri Institute of Technology, Chikkamagaluru

has completed Internship Program on Amazon Web Services and Software Development duration 4 (four) weeks conducted by inhouse faculties of Department of ECE, AIT using Python for the period from 30th October, 2023 to 24th November, 2023,

DR.M.A GOUTHAM

Deapartment of ECE Professor and Head

PROF. TASMIA NAMREEN A

Internship Coordinator Department of ECE



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that NISHANTH GOWDA V S bearing USN 4AI21EC050 has submitted the INTERNSHIP report entitled "AMAZON WEB SERVICES & PYTHON". He has satisfactorily completed the Internship work prescribed by Visvesvaraya Technological University, Belagavi, for 6th sem Electronics and Communication Engineering during the year 2023-24.

Signature of the Guide

Mrs.Anitha K T_{B.E,M.E, MIE} Asst. Professor Dept. of E&CE

Signature of the Coordinators

Ms. Tasmia Namreen A. B.E., M. Tech. Asst. Professor Dept. of E&CE Signature of the Reviewer

Dr.A P Jagadeeshchandra B.E.M.Tech, P.hD
Professor
Dept. of E&CE

Signature of the HOD

Dr.Goutham M A.B.E., M. Tech., Ph.D Professor & Head Dept. of E&CE

Department of Electronics and Communication Engineering

CERTIFICATE

OF INTERNSHIP

This is to certify that Mr./Mrs./Ms. /

Nishauthgowala VS

Student of 6th semester, Department of Electronics and Communication Engineering of Adichunchanagiri Institute of Technology, Chikkamagaluru

has completed Internship Program on Amazon Web Services and Software Development duration 4 (four) weeks conducted by inhouse faculties of Department of ECE, AIT using Python for the period from 30th October, 2023 to 24th November, 2023,

DR.M.A GOUTHAM

Professor and Head Deapartment of ECE

PROF. TASMIA NAMREEN A

Department of ECE

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that DEEPAK M S bearing 4AI21EC025 has submitted the INTERNSHIP report entitled "Amazon web services and python". he has satisfactorily completed the Internship work prescribed by Visvesvaraya Technological University, Belagavi, for 6th sem Electronics and Communication Engineering during the year 2023-24.

Signature of the Guide

Mrs. Divya G S. B.E., M.Tech. Assistant Professor Dept. of E&CE

Signature of the Coordinators

Ms. Tasmia Namreen A.B.E.,M.Tech. Asst. Professor Dept. of E&CE Signature of the Reviewer

Mrs. Nagaveni C R. B.E., M.Tech-Assistant professor Dept. of E&CE

Signature of the HOD

Dr. Goutham M A. B.E., M.Tech., Ph.D Professor & Head Dept. of E&CE

Department of Electronics and Communication Enginee

CERTIFICATE

OF INTERNSHIP

This is to certify that Mr./Mrs./M

CHECK VIS

Engineering of Adichunchanagiri Institute of Technology. of 6th semester. Department of Electronics and Communication Chikkomogaluru

od from 30th October, 2023 to 24th gram on Amazon Web Services and Software Developmen

DR M.A GOUTHAM

Professor and Head Despartment of ECE

PROF. TASMIA NAMREEN A

Department of ECE