	SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BANGALORE	RECORD FORMATS (ISO 9001:2008)
	R/PP08/25	UG Project List ECE 2022-2023

Sl. No	Usn	Project Group Members	Title Of The Project	Name Of The Guide
01	1MV19EC108	SONAL JHA	Autonomous Robot Feeding using Arduino	Dr R. Sundaraguru
	1MV19EC065	MALIK UL ASHTAR LALJI		
	1MV19EC010	AMAN KUMAR MANJHI		
	1MV19EC095	RITIKA SUDHIR MISHRA		
02	1MV19EC038	GANESH HEGDE	Targeted Fire Extinguisher System	Mrs Shalini P
	1MV19EC069	N S PRATHVEESH		
	1MV19EC089	RAVINDRA D		
	1MV19EC033	DHANANJAYA MITHTHANTHAYA		
03	1MV19EC111	SRIJAY GANGULY	Integrated Helmet Airbag System	Mrs Rajeshwari K N
	1MV19EC118	UJJWAL KUMAR		
	1MV19EC035	DIPANJAN SAMADDAR		
	1MV19EC078	PIYUSH PRABHAT		
04	1MV19EC003	ADARSH C HEGDE	Intelligent Animal Repelling System for crop protection	Mrs Rajeshwari K N
	1MV19EC007	AKSHAY MYAKERI		
	1MV19EC071	NIKHIL JEERIGANUR		
	1MV18EC095	SHASHANK R KASHYAP		
05	MV19EC102	SHAIK AREEF	Smart Energy Meter Using Narrow Band IoT	Mrs Poongothai C
	MV19EC105	SHRADDHA V GOUDAR		
	MV19EC120	VARSHINI NS		
	1MV19EC127	DWARAKESH YERRAMCHETTY		

Prepared by: Ms.Poongothai C & Ms.Praveena N Signature: Designation: Assistant Professors	Approved by: Dr.V.G.Supriya Signature: Designation: Professor and Head

Head of the Department
Electronics & Communications Engineering

	SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BANGALORE	RECORD FORMATS (ISO 9001:2008)
	R/PP08/25	**UG Project List ECE 2022-2023**

Sl. No	Usn	Project Group Members	Title Of The Project	Name Of The Guide
06	1MV19EC049	JAISAN	Ai Based Smart Security System	Dr R. Sundaraguru
	1MV19EC052	KALYANKUMAR YM		
	1MV19EC064	MADHUSUDHAN GK		
	1MV19EC067	M MUTHU KUMAR		
07	1MV19EC110	SRICHARAN R IYENGAR	Water Leakage Detection And Control System	Mrs Seema. S
	1MV19EC115	SUPRIT KUMAR		
	1MV19EC016	ARNAB CHAKRABORTY		
	1MV19EC086	RAHUL KUMAR		
08	1MV19EC025	BINDHUSHREE S	Smart Voting System	Mrs Krishna Priya Sharma
	1MV19EC079	POSHITHA K J		
	1MV19EC097	S K PUNEETH		
	1MV19EC109	SPOORTHI P K		
09	1MV19EC013	ANKITHA .K.K	Rescue and surveillance with smart robot	Dr Sasmitha Mogapatra
	1MV19EC042	HARINI SAMPATH		
	1MV19EC068	N B VIDHYASHREE		
	1MV19EC075	PANICKER CHAITRA		
10	1MV19EC008	ALOK KUMAR	IOT Enabled Data Acquisition System For Electric Vehicle	Mr G Shashibhushan
	1MV19EC012	ANJALI KANTHALIYA		
	1MV19EC057	KISHAN KUMAR		
	1MV19EC060	KOMAL PRIYA		

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	SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BANGALORE	RECORD FORMATS (ISO 9001:2008)
	R/PP08/25	**UG Project List ECE 2022-2023**

Sl. No	Usn	Project Group Members	Title Of The Project	Name Of The Guide
11	1MV19EC017	ARPIT KABRA	PCB defect verification using deep neural network	Dr Sasmitha Mohapatra
	1MV19EC027	D H GOWDA		
	1MV19EC094	RITIK KUMAR SINGH		
	1MV19EC116	SUPRIYO SADHUKHA		
12	1MV19EC072	NIKITA SHRIKANT PAI	Smart Sericulture system	Mrs Praveena N
	1MV19EC082	PRATHIKSHA A		
	1MV19EC119	V DEEPASHREE		
	1MV19EC124	VINUTHA H		
13	1MV19EC125	VIVEK N RAJ	Multipurpose forest security system	Mrs Seema. S
	1MV19EC098	SACHIN KENCHANAGOWDAR		
	1MV19EC117	SYED ADNAN		
	1MV19EC087	RAHUL R		
14	1MV19EC015	ARCHANA B R	Trio Power Generation	Dr R. Sundaraguru
	1MV19EC024	BHAVANA U		
	1MV19EC096	ROHINI		
	1MV19EC099	SANDHYA H		
15	1MV19EC073	NIKITHA S REDDY	Waste Management and energy conversion	Dr Supriya V G
	1MV19EC084	PUNYA P		
	1MV19EC085	PUSPANJALI A V		
	1MV19EC121	VIDYA S		

Prepared by: Ms.Poongothai C & Ms.Praveena N Signature: Designation: Assistant Professors	Approved by: Dr.V.G.Supriya Signature: Designation: Professor and Head

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	SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BANGALORE	RECORD FORMATS (ISO 9001:2008)
	R/PP08/25	**UG Project List ECE 2022-2023**

Sl. No	Usn	Project Group Members	Title Of The Project	Name Of The Guide
16	1MV19EC011	AMAN SHANTI	App based sustainable smart Irrigation system	Mrs.Swetha L
	1MV19EC114	SUHANI		
	1MV19EC019	ARYAN KUMAR DUBEY		
	1MV19EC083	PUNIT KN		
17	1MV19EC051	K .DEEPTHI	Charging station for E-vehicles using solar with IoT	Mrs Sheetal Bagali
	1MV19EC077	PAYYAVULA DEEPA		
	1MV17EC024	BHUVANESHWARI		
	1MV20EC406	MANASA G B		
18	1MV19EC002	ABHISHEK MASGAL	Early detection of Diabetic Retinopathy using ML	Mr Phanindar Ravi P
	1MV19EC022	B PUNIT KUMAR		
	1MV19EC028	D MANOJ KUMAR		
	1MV19EC113	SUDESH S GAONKAR		
19	1MV19EC055	KARTIK KESHARWANI	Fingerprint and GSM based Bank locker system with OTP verification	Mrs Vijaya Lakshmi S
	1MV19EC023	BHASKAR JAISWAL		
	1MV19EC063	LOKESH KUMAR		
	1MV19EC093	RISHAV KUMAR SINGH		
20	1MV19EC050	K S BHAVISHYA	Drone Detection and surveillance	Mrs Krishna Priya Sharma
	1MV19EC048	IS KRISHNACHAITHANYA		
	1MV19EC041	G SAI VAMSI		
	1MV19EC059	K YASHWANTH REDDY		

Prepared by: Ms.Poongothai C & Ms.Praveena N Signature: Designation: Assistant Professors	Approved by: Dr.V.G.Supriya Signature: Designation: Professor and Head

Head of the Department
Electronics & Communications Engineeri
Sir M VIT Bangalore 562 157

	SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BANGALORE	RECORD FORMATS (ISO 9001:2008)
	R/PP08/25	UG Project List ECE 2022-2023

Sl. No	Usn	Project Group Members	Title Of The Project	Name Of The Guide
21	1MV19EC009	AMAN GUPTA	Traffic signal system control for ambulance	Mrs Bhuvaneswari N
	1MV19EC020	AYUSH AGRAWAL		
	1MV19EC037	DISHANT BANIK		
	1MV19EC054	KANHA AGRAWAL		
22	1MV19EC053	K KOWSHIKA REDDY	Advanced automobilist reinforced system	Dr Supriya V G
	1MV19EC058	K M UDHITH RAJU		
	1MV19EC076	P SREEKANTH REDDY		
	1MV19EC088	RAVI VARMA K		
23	1MV20EC400	ASHOK KUMAR G	Smart nurse robot for covid19 patients	Mr Nataraja R
	1MV20EC402	GAGAN GOWDA K M		
	1MV20EC403	KIRAN K N		
	1MV20EC410	VIKAS M		
24	1MV19EC080	PRANAY RAJ	Welcome Robot	Mr Phanindar Ravi P
	1MV19EC029	DEBANJAL GUHA		
	1MV19EC062	KUSHAL SEHRAWAT		
	1MV19EC106	SHUBHAM SRIVASTAVA		
25	1MV19EC001	ABDUL ALEEM	Stroke disease prediction system	Mrs Praveena N
	1MV19EC026	CHUDESH VANNY V		
	1MV19EC103	SHASHANK G NAIK		
	1MV19EC123	VINAY K V		

Prepared by: Ms.Poongothai C & Ms.Praveena N Signature: Designation: Assistant Professors	Approved by: Dr.V.G.Supriya Signature: Designation: Professor and Head

Head of the Department
Electronics & Communications Engineering

	SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BANGALORE	RECORD FORMATS (ISO 9001:2008)
	R/PP08/25	UG Project List ECE 2022-2023

Sl. No	USN	Project Group Members	Title Of The Project	Name Of The Guide
26	1MV20EC404	MADHVESH DIGGAVI	Medical remote monitoring system for multiple physiological parameters	Dr Sasmitha Mogapatra
	1MV20EC405	MAHANTESH GA		
	1MV19EC066	MD ABDULLAH ANWAR		
	1MV19EC122	VIKRAM S BHAT		
27	1MV19EC031	DEVIKA A	Smart exam inspection system	Mr G Shashibhushan
	1MV19EC032	DEVIKA S G		
	1MV19EC056	KAVANA T U		
	1MV19EC101	SANTHOSHA K S		
28	1MV18EC003	ADARSH ABHAY	EVBMS with charge monitor and fire protection	Mrs Krishna Priya Sharma
	1MV18EC098	SHIVAM SINGH		
	1MV18EC102	SIDHARTHKUMAR PANDEY		
	1MV19EC030	DEEPESH KESWANI		
29	1MV19EC039	GOVIND JEE	Exam paper leakage protection system	Mrs Vijaya Lakshmi S
	1MV19EC046	HIMANSHU KUMAR GUPTA		
	1MV19EC074	PALA SAITEJA		
	1MV19EC126	Y JAYA SUPREETH REDDY		
30	1MV19EC061	KONDURU KAPIL RAJU	Smart poultry farm using GSM and IoT	Mrs Bhuvaneswari N
	1MV19EC107	SHUBHRA DIXIT		

Prepared by: Ms.Poongothai C & Ms.Praveena N Signature: Designation: Assistant Professors	Approved by: Dr.V.G.Supriya Signature: Designation: Professor and Head

Head of the Department
Electronics & Communications Engineering

	SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BANGALORE	RECORD FORMATS (ISO 9001:2008)
	R/PP08/25	UG Project List ECE 2022-2023

Sl. No	USN	Project Group Members	Title Of The Project	Name Of The Guide
31	1MV19EC006	AKASH AWASTHI	Solar powered Umbrella	Mrs Poongothai C
	1MV19EC021	AYUSH RAJ		
	1MV19EC092	RISHABH VERMA		
	1MV19EC100	SANKET GUPTA		
32	1MV19EC070	NANNAT GUPTA	Underwater wireless communication using IR sensor	Dr R. Sundaraguru
	1MV19EC081	PRASHANT KUMAR		
	1MV19EC090	RISHABH JAIN		
	1MV19EC112	SUDARSH TANDON		
33	1MV19EC014	ANUBHAV JHA	Smart Jacket for army	Mrs Shalini P
	1MV19EC034	DHEERAJ KUMAR		
	1MV19EC047	ISHU SINGH		
34	1MV19EC005	ADITYA SINGH	Smart currency segregation and counting system	Dr R. Sundaraguru
	1MV19EC036	DISHA GANDHI		
	1MV20EC401	DEEKSHIT		
	1MV19EC018	ARYAN DIXIT		
35	1MV19EC044	HARSH PANDYA	IoT based fish monitoring system for Aquaculture	Mrs Sheetal Bagali
	1MV19EC045	HARSHITA SRIVASTAVA		
	1MV19EC091	RISHABH SINGH		
	1MV19EC043	HARSH DUBEY		

Prepared by: Ms.Poongothai C & Ms.Praveena N Signature: Designation: Assistant Professors	Approved by: Dr.V.G.Supriya Signature: Designation: Professor and Head

Head of the Department
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	SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY BANGALORE	RECORD FORMATS (ISO 9001:2008)
	R/PP08/25	UG Project List ECE 2022-2023

Sl. No	USN	Project Group Members	Title Of The Project	Name Of The Guide
36	1MV20EC409	SURAJ KUMAR MONDAL	Counting people and facial recognition using deep learning	Mr Nataraja R
	1MV19EC104	SHIWANGI SINGH		
	1MV20EC407	MANOJ P		
	1MV20EC408	SADDAM HUSSAIN		

Prepared by: Ms.Poongothai C & Ms.Praveena N Signature: Designation: Assistant Professors	Approved by: Dr.V.G.Supriya Signature: Designation: Professor and Head

Head of the Departme
Electronics & Communications Engine
Sir M. VIT Bangalore 562 1

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAUM – 590018

PROJECT WORK PHASE-2 (18ECP83)
REPORT ON

"TARGETED FIRE EXTINGUISHER SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

DHANANJAYA MITHTHANTHAYA	**1MV19EC033**
GANESH HEGDE	**1MV19EC038**
N S PRATHVEESH	**1MV19EC069**
RAVINDRA D	**1MV19EC089**

Under the guidance of

Mrs. SHALINI P.

Associate Professor / Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work Phase – 2 (18ECP78) entitled "**TARGETED FIRE EXTINGUISHER SYSTEM**" is a Bonafede work carried out by **Dhananjaya Miththanthaya (1MV19EC033), Ganesh Hegde (1MV19EC038), N S Prathveesh (1MV19EC069), Ravindra D (1MV19EC089)** of **Sir M. Visvesvaraya Institute of Technology, Bengaluru** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022- 2023**. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project prescribed for Bachelor of Engineering degree.

Mrs. Shalini P.	**Dr. Supriya V.G.**	**Prof. Rakesh S.G.**
Internal Guide	Professor and Head	Principal
Associate Professor	Department of ECE	Sir MVIT
Department of ECE		

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya[illegible], Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Exam

1) Dr. R. Sundaraguru 22/5/2023

2) Dr. RASHMI.N 22/5/2023

ACKNOWLEDGEMENT

It gives us immense pleasure to express our sincere gratitude to the management of **Sir M. Visvesvaraya Institute of Technology,** Bengaluru for providing the opportunity and the resources to accomplish our mini-project work in their premises.

We would also like to convey our regards to **Prof. Rakesh S. G.,** Principal, Sir. MVIT for providing us with the infrastructure and facilities needed to develop our project.

Heartfelt and sincere thanks to **Dr. Supriya V.G.,** Professor and Head, Dept. of ECE, for his suggestions, constant support and encouragement.

On the path of learning, the presence of an experienced guide is indispensable and we would like to thank our guide **Mrs. Shalini P**, Associate Professor, Dept. of ECE, for his invaluable help and guidance.

We would also like to thank the staff of Department of Electronics and Communication Engineering and lab-in-charges for their co-operation and suggestions.

Finally, we would like to thank all our friends for their help and suggestions without which completing this project would not have been possible.

DHANANJAYA MITHTHANTHAYA **(1MV19EC033)**
GANESH HEGDE **(1MV19EC038)**
N S PRATHVEESH **(1MV19EC069)**
RAVINDRA D **(1MV19EC089)**

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANASANGAMA, BELAGAVI-590018

PROJECT WORK PHASE 2 (18ECP83) REPORT

ON

"SMART ENERGY METER USING NARROWBAND-IOT"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

SHAIK AREEF	**1MV19EC102**
SHRADDHA V GOUDAR	**1MV19EC105**
VARSHINI N S	**1MV19EC120**
Y. DWARAKESH	**1MV19EC127**

Under the guidance of

Mrs.POONGOTHAI.C

Assistant Professor,

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Hunasamaranahalli, Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU – 562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

It is certified that the project work entitled "**SMART ENERGY METER USING NB-IOT**" is carried out by **SHAIK AREEF (1MV19EC102), SHRADDHA V GOUDAR (1MV19EC105), VARSHINI N S (1MV19EC120), Y DWARAKESH (1MV19EC127)** bonafide students of **Sir M Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated inthe 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 degree of Bachelor of Engineering.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Mrs. POONGOTHAI C	**Dr.V.G SUPRIYA**	**Prof. RAKESH S G**
(Guide)	Professor & Head	Principal
Assistant Professor	Dept. of ECE	SIR MVIT
Dept. of ECE		

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination:

Name of Examiners:	Signature with date
1) Dr. R. Sundaragiri	22/5/23
2) Dr. Rashmi. N	22/5/23

DECLARATION

We, students of 8th semester hereby declare that the Project Work Phase-2 Report on "SMART **ENERGY METER USING NB-IoT**" has been presented under the guidance of **Mrs.POONGOTHAI.C**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute of Technology**, Bengaluru as partial fulfilment of requirement for the award ofBachelor of Engineering in **Electronics & Communication Engineering in Visvesvaraya Technological University,** Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other departments of Sir MVIT.

Place: Bengaluru

Date: 22-05-2023

SIGNATURE OF STUDENTS:

SHAIK AREEF

(1MV19EC102)

SHRADDHA V GOUDAR

(1MV19EC105)

VARSHINI N S

(1MV19EC120)

Y DWARAKESH

(1MV19EC127)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELGAUM-590018

PROJECT WORK PHASE-II (18ECP83) REPORT

ON

"TRIO-POWER GENERATION"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

ARCHANA B. R	**1MV19EC015**
BHAVANA U	**1MV19EC024**
ROHINI	**1MV19EC096**
SANDHYA H	**1MV19EC099**

Under the guidance of

Dr. R Sundaraguru

Professor

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, Bangalore-562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

It is certified that the Project work Phase – II (18ECP83) entitled "**TRIO-POWER GENERATION**" is a bonafide work carried out by **ARCHANA B R (1MV19EC015), BHAVANA U (1MV19EC024), ROHINI (1MV19EC096), SANDHYA H (1MV19EC099)** of **Sir M.Visvesvaraya Institute of Technology** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University Belagavi** during the year **2022-2023**.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 Bachelor of engineering degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, BSK, Bangalore-562 157

Dr. R Sundaraguru	**Dr. V.G. Supriya**	**Prof. R.B.S.G**
Professor	**Professor and Head**	**Principal**
Department of ECE	**Department of ECE**	**Sir MVIT**

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Exam Viva

Name of the Examiner	**Signature with date**
1. Krishnapriya S Sharma	23/05/2023
2. Laxmisagar H.S	23/05/23

DECLARATION

We the students of 8th semester hereby declare that the Project Report on **"TRIO-POWER GENERATION"** has been presented under the guidance of **Dr. R SUNDARAGURU,** Professor, **Sir M. Visvesvaraya Institute of Technology,** Bangalore as partial fulfillment of requirement for the award of Bachelor of Engineering in **Electronics & Communication by Visvesvaraya Technological University,** Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date: 23/05/2023

Name of the Students and Signature:

Archana B.R

ARCHANA B.R
(1MV19EC015)

Bhavana

BHAVANA U
(1MV19EC024)

Rohini

ROHINI
(1MV19EC096)

Sandhya H

SANDHYA H
(1MV19EC099)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK (18ECP78) ON

"PCB DEFECT VERIFICATION USING DEEP NEURAL NETWORK"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

ARPIT KABRA	**1MV19EC017**
D H GOWDA	**1MV19EC027**
RITIK KUMAR SINGH	**1MV19EC094**
SUPRIYO SADHUKHA	**1MV19EC116**

Under the guidance of

Dr. SASMITA MOHAPATRA

Associate Professor

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OFTECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**PCB DEFECT VERIFICATION USING DEEP NEURAL NETWORK**" is a bonafide work carried out by **ARPIT KABRA (1MV19EC017), D H GOWDA (1MV19EC027), RITIK KUMAR SINGH (1MV19EC094) SUPRIYO SADHUKHA (1MV19EC116)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase-1 (18ECP78) prescribed for the said Degree.

Dr. Sasmita Mohapatra	**Dr. V. G. Supriya**	**Prof. Rakesh S G**
Associate Professor	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
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International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore - 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Krishnapriya S Sharma	23/05/2023
2. Lakshmi H S	23/05/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on "**PCB DEFECT VERIFICATION USING DEEP NEURAL NETWORK**" has been presented under the guidance of **Dr. SASMITA MOHAPATRA**, Associate Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023.

Place: Bengaluru

Date:23/05/2023

Name of the Students and Signature:

Arpit Kabra
ARPIT KABRA

(1MV19EC017)

D H GOWDA

(1MV19EC027)

Ritik Kr. singh
RITIK KUMAR SINGH

(1MV19EC094)

Supriyo
SUPRIYO SADHUKHA

(1MV19EC116)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK PHASE-2 REPORT (18ECP78)

ON

"WELCOME ROBOT"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

DEBANJAL GUHA	1MV19EC029
KUSHAL SEHRAWAT	1MV19EC062
PRANAY RAJ	1MV19EC080
SHUBHAM SRIVASTAVA	1MV19EC106

Under the guidance of

Mr. PHANINDAR RAVI PARIMI

Assistant Professor

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OFTECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "WELCOME ROBOT" is a bonafide work carried out by **DEBANJAL GUHA (1MV19EC029), KUSHAL SEHRAWAT (1MV19EC062), PRANAY RAJ (1MV19EC080), SHUBHAM SRIVASTAVA (1MV19EC106)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 satisfiesthe academic requirements in respect of Project work Phase-2 (18ECP78) prescribed for the above said Degree.

Mr. Phanindar Ravi P. Internal Guide Assistant Professor Department of ECE	**Dr. V. G. Supriya** Professor and Head Department of ECE	Prof. Rajesh S.C. Principal Sir MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Seema.S	Seema 24/5/23
2. Manjunath.M	Manjunath.M 24/5/23

DECLARATION

We, students of 8th semester hereby declare that the Project work on "WELCOME ROBOT" has been executed and presented under the guidance of **Mr. Phanindar Ravi P,** Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology,** Bengaluru in partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Electronics & Communication by **VisvesvarayaTechnological University,** Belagavi during the academic year 2022-2023.

Place: Bengaluru

Date: 24/05/2023

Name of the Students and Signature:

Debanjal Guha

DEBANJAL GUHA

(1MV19EC029)

Kushal

KUSHAL SEHRAWAT

(1MV19EC062)

Pranay

PRANAY RAJ

(1MV19EC080)

Shubham Srivastava

SHUBHAM SRIVASTAVA

(1MV19EC106)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK PHASE-2 REPORT (18ECP83)

ON

"Fingerprint & GSM Based Bank Locker System with OTP Verification"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

BHASKAR JAISWAL	1MV19EC023
KARTIK KESHARWANI	1MV19EC055
LOKESH KUMAR	1MV19EC063
RISHAV KUMAR SINGH	1MV19EC093

Under the guidance of

Mrs. Vijaya Lakshmi S

Associate Professor

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**FINGERPRINT & GSM BASED BANK LOCKER SYSTEM WITH OTP VERIFICATION**" is a bonafide work carried out by **BHASKAR JAISWAL (1MV19EC023), KARTIK KESHARWANI (1MV19EC055), LOKESH KUMAR (1MV19EC063),RISHAV KUMAR SINGH (1MV19EC093)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase-2(18ECP83) prescribed for the Bachelor of Engineering Degree.

24/5/23		
Mrs. Vijaya Lakshmi S	**Dr. V. G. Supriya**	**Prof. Rakesh S.G**
Associate Professor	Professor and Head of	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Seema. S	Seema 24/5/23
2. Manjunath.M	Manjunath.M. 24/5/23.

DECLARATION

We, the students of eighth semester hereby declare that the Project Report on "**FINGERPRINT & GSM BASED BANK LOCKER SYSTEM WITH OTP VERIFICATION**" has been presented under the guidance of **Mrs. Vijaya Lakhsmi S**, Associate Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023.

Place: Bengaluru

Date:25/05/2023

Name of the Students and Signature:

BHASKAR JAISWAL

(1MV19EC023)

KARTIK KESHARWANI

(1MV19EC055)

LOKESH KUMAR

(1MV19EC063)

RISHAV KUMAR SINGH

(1MV19EC093)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM - 590014

PROJECT (18ECP78)

"ADVANCED AUTOMOBILIST REINFORCED SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

Kandanoolu Kowshika Reddy	**(1MV19EC053)**
KM Udhith Raju	**(1MV19EC058)**
Papireddy Sreekanth Reddy	**(1MV19EC076)**
Ravi Varma K	**(1MV19EC088)**

Under the guidance of

Dr. V G Supriya
Professor / Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli, Bangalore -562157

2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNLOGY

Bengaluru-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project entitled **"ADVANCED AUTOMOBILIST REINFORCED SYSTEM"** is a bonafide work carried out by **KANDANOOLU KOWSHIKA REDDY (1MV19EC053), KM UDHITH RAJU (1MV19EC058), PAPIREDDY SREEKANTH REDDY (1MV19EC076), RAVI VARMA K (1MV19EC088)** of **Sir M. Visvesvaraya Institute of Technology**, Bangalore, in partial fulfilment for the award of degree of Bachelor of Engineering in **Electronics and Communication** of the **Visvesvaraya Technological University**, Belgaum during the academic year **2022 -2023**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Project work Phase-1 (18ECP78) prescribed for Bachelorof Engineering degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Dr. V G Supriya
Professor / Internal Guide
Department of ECE

Dr. V G Supriya
Professor and Head
Department of ECE

Prof. Rakesh G
Principal, Sir MVIT

Head of the Department
Electronics & Communications Engineering
SIR M.V.I.T. Bangalore-562 157

EXTERNAL EXAMINATION VIVA

Name of Examiners:	**Signature with Date**
Prakasha G	25/5/23
Vijayalakshmi.S	25/5/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on "**ADVANCED AUTOMOBILIST REINFORCED SYSTEM**" has been presented under the guidance of **Dr. V G SUPRIYA,** Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfilment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bangalore

Date: 25/05/23

Name of the students and their signatures:

KANDANOOLU KOWSHIKA REDDY

(1MV19EC053)

KM UDHITH RAJU

(1MV19EC058)

PAPIREDDY SREEKANTH REDDY

(1MV19EC076)

RAVI VARMA K

(1MV19EC088)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT REPORT PHASE -II (18ECP83)

ON

"E-MAT BASED SMART SECURITY SYSTEM"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

JAISAN	**1MV19EC049**
KALYAN KUMAR Y M	**1MV19EC052**
MADHUSUDHAN GK	**1MV19EC064**
MUTHUKUMAR M	**1MV19EC067**

Under the guidance of

Dr. R SUNDARAGURU

Professor

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OFTECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**E-MAT BASED SMART SECURITY SYSTEM**" is a bonafide work carried out by **JAISAN (1MV19EC049), KALYAN KUMAR Y M (1MV19EC052), MADHUSUDHAN GK (1MV19EC064), MUTHUKUMAR M (1MV19EC067)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase-2 (18ECP83) prescribed for Bachelor of Engineering degree.

Dr. R SUNDARAGURU	**Dr. V. G. Supriya**	**Prof. Rakesh S.G**
Professor	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore-562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Dr. R. Sundaraguru	22/5/23
2. Dr. Rashmi. N	22/5/23

DECLARATION

We, Students of Eighth semester hereby declare that the Project Report on "**E-MAT BASED SMART SECURITY SYSTEM**" has been presented under the guidance of **Dr. R SUNDARAGURU**, Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023.

Place:
Bangalore
Date:
22/5/2023

Name of the Students and Signature:

JAISAN

(1MV19EC049)

KALYAN KUMAR Y M

(1MV19EC052)

MADHUSUDHAN GK

(1MV19EC064)

MUTHUKUMAR M

(1MV19EC067)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAVI – 590018

PROJECT WORK PHASE-2 (18ECP83)

REPORT ON

"INTEGRATED HELMET AIRBAG SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by:

DIPANJAN SAMADDAR	1MV19EC035
PIYUSH PRABHAT	1MV19EC078
SRIJAY GANGULY	1MV19EC111
UJJWAL KUMAR	1MV19EC118

Under the guidance of

Mrs. K N Rajeswari

Assistant Professor / Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work Phase – 2 (18ECP78) entitled entitled **"INTEGRATED HELMET AIRBAG SYSTEM"** is a bonafide work carried out by **DIPANJAN SAMADDAR (1MV19EC035), PIYUSH PRABHAT (1MV19EC078), SRIJAY GANGULY (1MV19EC111), UJJWAL KUMAR (1MV19EC118),** of **Sir M. Visvesvaraya Institute of Technology, Bengaluru** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022- 2023**. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project prescribed for Bachelor of Engineering degree.

Mrs. K N Rajeswari.	**Dr. Supriya V.G.**	Prof. Rakesh S.G.
Internal Guide	Head of the Department	Principal
Assistant Professor	Department of ECE	Sir MVIT
Department of ECE		

PRINCIPAL
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International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of Examiners	Signature with date
1. Dr. R. Sundaragiri	22/5/2023
2. Dr. Rashmi. N	22/5/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on **"INTEGRATED HELMET AIRBAG SYSTEM"** has been presented under the guidance of **Mrs. K N Rajeswari**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology, Bengaluru** as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date: 22-05-2023

Name of the students and their signature:

DIPANJAN SAMADDAR

(1MV19EC035)

PIYUSH PRABHAT

(1MV19EC078)

SRIJAY GANGULY

(1MV19EC111)

UJJWAL KUMAR

(1MV19EC118)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK PHASE – 2 REPORT (18ECP83)

ON

"WIRELESS COMMUNICATION USING IR SENSOR"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NANNAT GUPTA	1MV19EC070
PRASHANT KUMAR	1MV19EC081
RISHABH JAIN	1MV19EC090
SUDARSH TANDON	1MV19EC112

Under the guidance of
Dr. R. SUNDARAGURU
Professor
Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "**WIRELESS COMMUNICATION USING IR SENSOR**" is a bonafide work carried out by **NANNAT GUPTA (1MV19EC070), PRASHANT KUMAR (1MV19EC081), RISHABH JAIN (1MV19EC090), SUDARSH TANDON (1MV19EC112)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase -2 (18ECP83) prescribed for the Bachelor of Engineering Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaramakkar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Dr. R. Sundaraguru	**Dr. V. G. Supriya**	**Prof. Rakesh S.G.**
Professor	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Prakasha G	25/5/23
2. Vijayalakshmi S	25/5/23

DECLARATION

We, the students of eighth semester hereby declare that the Project Report on **"WIRELESS COMMUNICATION USING IR SENSOR"** has been presented under the guidance of **Dr. R. Sundaraguru**, Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023.

Place: Bengaluru

Date:25/05/2023

Name of the Students and Signature:

Nannat

NANNAT GUPTA

(1MV19EC070)

Prashant K

PRASHANT KUMAR

(1MV19EC081)

Rishab

RISHABH JAIN

(1MV19EC090)

Sudarsh

SUDARSH TANDON

(1MV19EC112)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018



PROJECT WORK (18ECP78) ON

"EARLY DETECTION OF DIABETIC RETINOPATHY USING ML"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

ABHISHEK MASGAL	1MV19EC002
B PUNIT KUMAR	1MV19EC022
D MANOJ KUMAR	1MV19EC028
SUDESH S GAONKAR	1MV19EC113

Under the guidance of

Mr. Phanindar Ravi Parimi

Assistant Professor

Department of ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled **"EARLY DETECTION OF DIABETIC RETINOPATHY USING ML"** is a bonafide work carried out by **ABHISHEK MASGAL (1MV19EC002), B PUNIT KUMAR (1MV19EC022), D MANOJ KUMAR (1MV19EC028) SUDESH S GAONKAR (1MV19EC113)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase-2 (18ECP83) prescribed for the said degree.

Mr. Phanindar Ravi P	**Dr. V. G. Supriya**	**Prof. Rakesh S.G.**
Assistant Professor	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
VIT Bangalore

External Examination Viva

Name of the Examiner	Signature with Date
1. Krishnapriya S Sharma	23/05/2023
2. Laxmisagar H.S	23/05/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on "**EARLY DETECTION OF DIABETIC RETINOPATHY USING ML**" has been presented under the guidance of **Mr. Phanindar Ravi P**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023.

Place: Bengaluru

Date:23/05/2023

Name of the Students and Signature:

ABHISHEK MASGAL

(1MV19EC002)

B PUNIT KUMAR

(1MV19EC022)

D MANOJ KUMAR

(1MV19EC028)

SUDESH S GAONKAR

(1MV19EC113)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK PHASE-2 REPORT (18ECP83)

ON

"SMART POULTRY FARM SYSTEM"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

KONDURU KAPIL RAJU	**1MV19EC061**
SHUBHRA DIXIT	**1MV19EC107**

Under the guidance of

Mrs. N. Bhuvaneswari

Assistant Professor / Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled **"SMART POULTRY FARM SYSTEM"** is a bonafide work carried out by **KONDURU KAPIL RAJU (1MV19EC061), SHUBHRA DIXIT (1MV19EC107)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase-2 (18ECP83) prescribed for the said Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

25/05/2023

Mrs. N. Bhuvaneswari	Dr. V. G. Supriya	Prof. Rakesh S.G.
Assistant Professor / Internal Guide	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Prakasha G	25/5/23
2. Vijayalakshmi S	25/5/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on **"SMART POULTRY FARM SYSTEM"** has been presented under the guidance of **Mrs. N. BHUVANESWARI,** Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology,** Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University,** Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date: 25/05/23

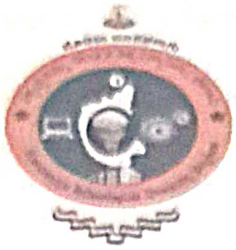
Name of the Students and Signature:

KONDURU KAPIL RAJU
(1MV19EC061)

SHUBHRA DIXIT
(1MV19EC107)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI – 590018



PROJECT WORK (18ECP83)REPORT

ON

"IOT BASED FISH MONITORING SYSTEM FOR AQUACULTURE"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

HARSHITA SRIVASTAVA	1MV19EC045
HARSH PANDYA	1MV19EC044
HARSH DUBEY	1MV19EC043
RISHABH SINGH	1MV19EC091

Under the guidance of

Mrs. Sheetal Bagali

Assistant Professor / Department of ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work (18ECP83) entitled entitled **"IOT BASED FISH MONITORING SYSTEM FOR AQUACULTURE"** is a bonafide work carried out by **HARSHITA SRIVASTAVA (1MV19EC045), HARSH PANDYA (1MV19EC044), HARSH DUBEY (1MV19EC043), RISHABH SINGH (1MV19EC091)**, of **Sir M. Visvesvaraya Institute of Technology, Bengaluru** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022- 2023**. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project prescribed for Bachelor of Engineering degree.

Mrs. Sheetal Bagali	**Dr. Supriya V. G**	**Prof. Rakesh S.C**
Internal Guide	Head of the Department	Principal
Assistant Professor	Department of ECE	Sir MVIT
Department of ECE		

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

External Viva

Name of Examiners	Signature with date
1. Prakasha G S	25/5/23
2. Vijayalakshmi S	25/5/23

DECLARATION

We, students of 8th semester hereby declare that the Project Report on **"IOT BASED FISH MONITORING SYSTEM FOR AQUACULTURE"** has been presented under the guidance of **Mrs. SHEETAL BAGALI**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology, Bengaluru** as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication Engineering by **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date: 22-05-2023

Name of the students and their signature:

HARSHITA SRIVASTAVA

(1MV19EC045)

HARSH PANDYA

(1MV19EC044)

HARSH DUBEY

(1MV19EC043)

RISHABH SINGH

(1MV19EC091)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT (18ECP83) REPORT

ON

"MEDICAL REMOTE MONITORING SYSTEM FOR MULTIPLE PHYSIOLOGICAL PARAMETERS"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

MD ABDULLAH ANWAR	**1MV19EC066**
VIKRAM S BHAT	**1MV19EC122**
MADHVESH DIGGAVI	**1MV20EC404**
MAHANTESH G A	**1MV20EC405**

Under the guidance of

Dr. SASMITA MOHAPATRA

Associate Professor

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project (18ECP83) entitled **"MEDICAL REMOTE MONITORING SYSTEM FOR MULTIPLE PHYSIOLOGICAL PARAMETERS"** is a bonafide work carried out by **MD ABDULLAH ANWAR (1MV19EC066), VIKRAM S BHAT (1MV19EC122), MADHVESH DIGGAVI (1MV20EC404) , MAHANTESH G A (1MV20EC405)** students of Sir M. Visvesvaraya Institute of Technology in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 prescribed for the said Degree.

Dr. Sasmita Mohapatra	**Dr. V.G.Supriya**	**Prof. Rakesh S.G.**
Associate Professor	Professor and Head	Principal
Department of ECE	Department of ECE	Sir M V I T

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Seema S	Seema 24/5/23
2. Manjunath.M	Manjunath.M 24/5/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on **"MEDICAL REMOTE MONITORING SYSTEM FOR MULTIPLE PHYSIOLOGICAL PARAMETERS"** has been presented under the guidance of **Dr. Sasmita Mohapatra**, Associate Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology, Bengaluru** as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date: 24-05-23

Name of the Students and Signature:

MD ABDULLAH ANWAR
(1MV19EC066)

VIKRAM S BHAT
(1MV19EC122)

MADHVESH DIGGAVI
(1MV20EC404)

MAHANTESH G A
(1MV20EC405)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI – 590018

PROJECT WORK PHASE-2 (18ECP83) REPORT

ON

"ELECTRONIC BOX SECURITY SYSTEM"

Submitted in partial fulfilment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

Govind Jee	**1MV19EC039**
Himanshu Kumar Gupta	**1MV19EC046**
Pala Saiteja	**1MV19EC074**
Y Jaya Supreeth Reddy	**1MV18EC126**

Under the guidance of

Mrs. Vijaya Lakshmi S

Associate Professor/Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, Bengaluru –562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, Bengaluru –562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work work entitled **"ELECTRONIC BOX SECURITY SYSTEM"** is a bonafide work carried out by **GOVIND JEE (1MV19EC039), HIMANSHU KUMAR GUPTA (1MV19EC046),PALA SAITEJA (1MV19EC074),Y JAYA SUPREETH REDDY (1MV19EC126) SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BANGLORE,** in partial fulfillment for the award of degree of Bachelor of Engineering in **Electronics and Communication** of the **Visvesvaraya Technological University, Belagavi** during the academic year **2022-2023**. It is certified that all suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Project work Phase-2 (18ECP83) prescribed for bachelor's in engineering degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
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International Airport Road, Bangalore-562 157

Mrs. Vijaya Lakshmi S	**Dr. Supriya V. G**	**Prof. Rakesh S.G**
Internal Guide	Professor & Head of Department	Principal
Associate Professor	Dept. of ECE	Sir MVIT
Dept. of ECE		

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of examiners:	**Signature with date:**
1. Seema. S	Seema 24/5/23
2. Manjunath M	Manjunath M 24/5/23

DECLARATION

We, students of 8th semester hereby declare that the Project Report on **"ELECTRONIC BOX SECURITY SYSTEM"** has been presented under the guidance of **Mrs. Vijaya Lakshmi, Department of ECE, Sir M. Visvesvaraya Institute of Technology, Bengaluru** as partial fulfilment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University, Belagavi** during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date: 22-05-2023

Signature of students:

GOVIND JEE

(1MV19EC039)

HIMANSHU KUMAR GUPTA

(1MV19EC046)

PALA SAITEJA

(1MV19EC074)

Y JAYA SUPREETH REDDY

(1MV19EC126)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi - 590 018

PROJECT (18ECP83) REPORT
ON

"FOREST NAVIGATION AND MONITORING SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the Degree

BACHELOR OF ENGINEERING
In
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

SYED ADNAN	**USN: 1MV19EC117**
RAHUL R	**USN: 1MV19EC087**
VIVEK N RAJ	**USN: 1MV19EC125**
SACHIN KENCHANAGOWDAR	**USN: 1MV19EC098**

Under the Guidance of

Ms. Seema S
Assistant Professor
Dept. of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project work (18ECP83) entitled **"FOREST NAVIGATION AND MONITORING SYSTEM"** is a bonafide work carried out by **SYED ADNAN (1MV19EC117), RAHUL R (1MV19EC087) , VIVEK N RAJ (1MV19EC125) , SACHIN KENCHANAGOWDAR (1MV19EC098)** of **Sir M. Visvesvaraya Institute of Technology, B**, 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 academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report submitted to department library. The project phase-1 report has been approved as it satisfies the academic requirements in respect of project work prescribed for Bachelor of Engineering degree.

Seema 23/5/23

Ms. SEEMA S.
Assistant Professor
Dept. of ECE

Dr. V. G. Supriya
Professor & Head
Dept. of ECE

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Prof. RAKESH SG
Principal
Sir M V I T

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of the Examiners

Signature with Date

1. Krishnapriya S Sharma — 23/05/2023
2. Lazuriya H.S — 23/05/23

ACKNOWLEDGEMENT

A project is incomplete if it fails to thank all those instrumental in the successful completion of the project.

We express our deep sense of gratitude to our principal **Prof. Rakesh S G** and **SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY**, Bangalore, which has provided us an opportunity in fulfilling our desired goal.

Whole-heartedly we express our sincere thanks to our beloved **Head of the Department Dr.V.G.Supriya,** Department of Electronics and Communication Engineering, Sir.M.Visvesvaraya Institute of Technology who patronized throughout our career and facilities provided to carry out this work successfully.

We are indebted to our internal guide **Ms. SEEMA S, Assistant Professor, Department of Electronics and Communication Engineering.** Department of Electronics and Communication Engineering, Sir.M.Visvesvaraya Institute of Technology without whose consistent encouragement and support this work wouldn't have been possible today.

We also extend our gratitude to our parents, staff of ECE and our friends for their moral support and their encouragement, which motivated towards successful completion of project work.

Date:

Place: Bengaluru

SYED ADNAN **(1MV19EC117)**

RAHUL R **(1MV19EC087)**

VIVEK N RAJ **(1MV19EC125)**

SACHIN KENCHANAGOWDAR **(1MV19EC098)**

DECLARATION

We, students of eight semester hereby declare that the Project Report on **"FOREST NAVIGATION AND MONITORING SYSTEM"** has been presented under the guidance of **MRS SEEMA S**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute of Technology**, Bengaluru as partial fulfilment for the award of Bachelor of Engineering in **Electronics and Communication by Visvesvaraya Technological University**, Belgavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other departments of Sir MVIT.

Place: Bengaluru
Date:

Name of the students and their signatures:

Syed Adnan

SYED ADNAN
(1MV19EC117)

VIVEK N RAJ
(1MV19EC125)

Rahul R

RAHUL R
(1MV19EC087)

Sachin B K

SACHIN KENCHANAGOWDAR
(1MV19EC098)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELGAVI - 590014

PROJECT REPORT (18ECP83)

ON

" WASTE MANAGEMENT AND ENERGY CONVERSION"

Submitted in partial fulfilment for the requirements for the award of the degree

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by:

NIKITHA S REDDY	**(1MV19EC073)**
PUSHPANJALI A V	**(1MV19EC085)**
PUNYA P	**(1MV19EC084)**
VIDYA S	**(1MV19EC121)**

Under the guidance of

Dr. V G SUPRIYA

Professor &HOD

Department of ECE, Sir MVIT

DEPA RTMENT OF ELECTRONICS AND COMMUNICATION

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, Bangalore – 562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project entitled "**WASTE MANAGEMENT AND ENERGY CONVERSION**" is bonafide work carried out by **NIKITHA S REDDY(1MV19EC073), PUSHPANJALI A V(1MV19EC085),PUNYA P(1MV19EC084), VIDYA S(1MV19EC121), Sir M Visvesvaraya Institute of Technology,** Bangalore, in partial fulfilment for the 8th semester for the award of the Degree of Bachelor of Engineering in **Electronics and Communication** Engineering of the **Visvesvaraya Technology University**, Belagavi during the academic year 2022-2023. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The project has been approved as it satisfies the academic requirements in respect of project work phase-2(18ECP83) prescribed for the course of Bachelor of Engineering.

Dr. SUPRIYA V.G	**Dr. V G SUPRIYA**	PRINCIPAL SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY Krishnadevarayanagar, Hunasemaranahalli International Airport Road, Bangalore-562 157
Professor & Hod	Head of the Department	**Dr. RAKESH S.C**
Dept. of ECE	Dept. of ECE	Principal
Sir MVIT, Bangalore	Sir MVIT, Bangalore	Sir MVIT, Bangalore

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore 562 157

External Viva

Name of Examiners:

1) Krishnapriya S Sharma
2) Laxmi Devi H.S

Signature with date

23/05/2023
23/05/23

DECLARATION

We student of 8th semester here by declare that the project report on **"WASTE MANAGEMENT AND ENERGY CONVERSION"** has been presented under the guidance of **Dr. V G SUPRIYA**, professor & Hod , Department of ECE, **Sir M Visvesvaraya Institution of Technology,** Bangalore. As partial fulfilment of requirement for the award of Bachelor of Engineering in **Electronics and Communication Engineering** under **Visvesvaraya Technological University**, Belagavi during the academic year 2022-23. This topic has not been submitted previously in the Dept.ECE and any other Department of SIR MVIT

Place: Bangalore

Date: 23-05-2023

SIGNATURE OF STUDENTS:

Nikitha S. Reddy
NIKITHA S REDDY

(1MV19EC073)

Pushpanjali. A. V.
PUSHPANJALI A V

(1MV19EC085)

PUNYA P

(1MV19EC084)

Vidya
VIDYA S

(1MV19EC121)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAUM-590018



PROJECT WORK PHASE-2 (18ECP83) REPORT

ON

"SMART EXAM INSPECTION SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

DEVIKA A	**1MV19EC031**
DEVIKA S G	**1MV19EC032**
KAVANA T U	**1MV19EC056**
SANTHOSH K S	**1MV19EC101**

Under the guidance of

Mr. G Shashibhushan

Assistant Professor

Department of ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, Bangalore-562157

2022-2023

SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

It is certified that the Project work Phase – 2 (18ECP83) entitled **"SMART EXAM INSPECTION SYSTEM"** is a bonafide work carried out by **DEVIKA A (1MV19EC031), DEVIKA S G (1MV19EC032), KAVANA T U (1MV19EC056), SANTHOSH K S (1MV19EC101)** of Sir M. Visvesvaraya Institute of Technology in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University Belagavi during the year 2022- 2023.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 Bachelor of engineering degree.

Mr. G Shashibhushan
Guide
Department of ECE

Dr. V.G. Supriya
Professor and Head
Department of ECE

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

PRINCIPAL
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Krishnadevarayanagar, Hunasemaranahalli
International Airport Road, Bangalore-562 157

Prof. Rakesh.S
Principal
Sir MVIT

External Exam Viva

Name of the Examiner	Signature with date
1. Seema .S	Seema 24/5/23
2. Manjunath.M	Manjunath.M 24/5/23

DECLARATION

We the students of seventh semester hereby declare that the Project Report on **"SMART EXAM INSPECTION SYSTEM"** has been presented under the guidance of **Mr. G SHASHIBHUSHAN** Assistant professor of Department of ECE, **Sir M. Visvesvaraya Institute of Technology**, Bangalore as partial fulfillment of requirement for the award of Bachelor of Engineering in **Electronics & Communication by Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date:

Name of the Students and Signature:

DEVIKA A
(1MV19EC031)

DEVIKA S G
(1MV19EC032)

KAVANA T U
(1MV19EC056)

SANTHOSH K S
(1MV19EC101)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI- 590018

PROJECT WORK PHASE-II REPORT (18ECP83)

ON

"IOT ENABLED DATA ACQUISITION SYSTEM FOR ELECTRIC VEHICLE"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

ALOK KUMAR	**1MV19EC008**
ANJALI KANTHALIYA	**1MV19EC012**
KISHAN KUMAR	**1MV19EC057**
KOMAL PRIYA	**1MV19EC060**

Under the guidance of

Mr. G. Shashibhushan

Assistant Professor, Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the project entitled "**IoT enabled data acquisition system for Electric Vehicle**" is a bonafide work carried out by **Alok Kumar (1MV19EC008), Anjali Kanthaliya (1MV19EC012), Kishan Kumar (1MV19EC057) & Komal Priya (1MV19EC060)** of **Sir M. Visvesvaraya Institute of Technology,** Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in **Electronics and Communication** of the **Visvesvaraya Technological University,** Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Project work Phase II (18ECP83) prescribed for Bachelor of Engineering degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bengaluru-562 157

for **Mr. G. SHASHIBHUSHAN**
Internal Guide
Department of ECE

Dr. V.G. SUPRIYA
Professor & Head
Department of ECE

Prof. RAKESH S.G
Principal
Sir MVIT, Bengaluru

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External viva

Name of Examiners	Signature with Date
1. Krishnappa S Sharma	23/05/2023
2. Laxmisha H.S	23/5/23

DECLARATION

We hereby declare that the entire work embodied in this discussion has been carried out by us and no part of it has been submitted previously for any degree or diploma of any institution.

Place: Bengaluru
Date: 23/05/2023

Name of the students and their signature:

Alok

Alok Kumar
(1MV19EC008)

Anjali

Anjali Kanthaliya
(1MV19EC012)

Kishan

Kishan Kumar
(1MV19EC057)

Komal

Komal Priya
(1MV19EC060)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK PHASE-2 REPORT (18ECP83)

ON

"SUSTAINABLE AND ENERGY EFFICIENT STREET LIGHTING SYSTEM"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

AKASH AWASTHI	**1MV19EC006**
AYUSH RAJ	**1MV19EC021**
RISHABH VERMA	**1MV19EC092**
SANKET GUPTA	**1MV19EC100**

Under the guidance of

Mrs. POONGOTHAI C.

Assistant Professor / Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled **"SUSTAINABLE AND ENERGY EFFICIENT STREET LIGHTING SYSTEM"** is a bonafide work carried out by **Akash Awasthi (1MV19EC006), Ayush Raj (1MV19EC021), Rishabh Verma(1MV19EC092), Sanket Gupta(1MV19EC100)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase-2 (18ECP83) prescribed for the said Degree.

Mrs. Poongothai C.	**Dr. V. G. Supriya**	**Prof. Rakesh S.G.**
Assistant Professor / Internal Guide	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Department of Electronics & Communication Engineering
Sir M. VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Prakasha G	25/5/23
2. Vijayalakshmi S	25/5/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on "**SUSTAINABLE AND ENERGY EFFICIENT STREET LIGHTING SYSTEM**" has been presented under the guidance of **Mrs. Poongothai C.**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date:

Name of the Students and Signature:

AKASH AWASTHI
(1MV19EC006)

AYUSH RAJ
(1MV19EC021)

RISHABH VERMA
(1MV19EC092)

SANKET GUPTA
(1MV19EC100)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK PHASE-1 (18ECP78) REPORT

ON

"CHARGING STATION FOR E-VEHICLES USING SOLAR WITH IoT"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

K. DEEPTHI	**1MV19EC051**
PAYYAVULA DEEPA	**1MV19EC077**
MANASA.G. B	**1MV20EC406**
BHUVANESHWARI	**1MV17EC024**

Under the guidance of

Ms. SHEETAL BAGALI

Assistant Professor

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the Project work Phase-I (18ECP78) **"CHARGING STATION FOR E-VEHICLES USING SOLAR WITH IoT"** is a bonafide work carried out by **K. DEEPTHI (1MV19EC051), PAYYAVULA DEEPA (1MV19EC077), MANASA G. B (1MV20EC406), BHUVANESHWARI (1MV17EC024)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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.

Ms. Sheetal Bagali	**Dr. Supriya V.G.**	**Prof. Rakesh. S**
Assistant Professor	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
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Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Krishnapriya S Sharma	23/05/2023
2. Laxmisagar H.S	22/05/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on "**CHARGING STATION FOR E-VEHICLES USING SOLAR WITH IoT**" has been presented under the guidance of **Ms. SHEETAL BAGALI**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfilment of requirement for the award of Bachelor of Engineering in Electronics & Communication Engineering by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date: 23/5/23

Name of the Students and Signature:

K. Deepthi

K. DEEPTHI
(1MV19EC051)

PAYYAVULA DEEPA
(1MV19EC077)

Manasa

MANASA.G. B
(1MV20EC406)

BHUVANESHWARI
(1MV17EC024)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANASANGAMA BELAGAVI - 590018

PROJECT REPORT (18ECP83)

ON

"WATER LEAKAGE DETECTION AND CONTROL SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

ARNAB CHAKRABORTY	**1MV19EC016**
RAHUL KUMAR	**1MV19EC086**
SRICHARAN R	**1MV19EC110**
SUPRIT KUMAR	**1MV19EC115**

Under the guidance of

Mrs. Seema S.
Assistant Professor,
Dept. of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022 - 2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru – 562157

Department Of Electronics and Communication Engineering

CERTIFICATE

It is certified that the major project work (18ECP83) entitled **WATER LEAKAGE DETECTION AND CONTROL SYSTEM** is a bonafide work carried out by **ARNAB CHAKRABORTY (1MV19EC016), RAHUL KUMAR (1MV19EC086), SRICHARAN R IYENGAR (1MV19EC110), SUPRIT KUMAR (1MV19EC115)**, bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022- 2023. 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 major-Project work prescribed for the said Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, B.G. Bangalore-562 157

Seema 22/5/23		
Mrs. SEEMA S.	**Dr. V.G. SUPRIYA**	**Professor Rajesh S.**
Assistant Professor,	Professor & Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the examiner	Signature with Date
1. Dr. R. Sundaragurn	22/5/2023
2. Dr. Rashmi N	22/5/23

DECLARATION

We, students of eighth semester hereby declare that the Project Report on **"WATER LEAKAGE DETECTION AND CONTROL SYSTEM"** has been presented under the guidance of **Mrs. SEEMA S**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute of Technology**, Bengaluru as partial fulfilment of requirement for the award of Bachelor of Engineering in **Electronics & Communication by Visvesvaraya Technological University,** Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other departments of Sir MVIT.

Place: Bengaluru

Date: 22-05-23

SIGNATURE OF STUDENTS:

ARNAB CHAKRABORTY

(1MV19EC016)

RAHUL KUMAR

(1MV19EC086)

SRICHARAN R IYENGAR

(1MV19EC110)

SUPRIT KUMAR

(1MV19EC115)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI – 590018



PROJECT (18ECP83) REPORT

ON

"SMART VOTING SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

Bindhushree S	1MV19EC025
Peshitha K J	1MV19EC079
S K Puneeth	1MV19EC097
Spoorthi P K	1MV19EC109

Under the guidance of

Mrs. Krishnapriya S Sharma

Associate professor

Department of ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

(Affiliated to Visvesvaraya Technological University, Belagavi, Karnataka)

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work phase-II (18ECP83) entitled **"Smart voting system"** is a bonafide work carried out by **BINDHUSHREE S (1MV19EC025), POSHITHA K J (1MV19EC079), S K PUNEETH (1MV19EC097) SPOORTHI P K (1MV19EC109)** of **Sir M. Visvesvaraya Institute of technology,** Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in **Electronics and Communication** of the **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for Bachelor of Engineering degree.

Signature of the Guide	Signature of HOD	Signature of Principal
Mrs. Krishnapriya S Sharma	**Dr. V. G. Supriya**	**Prof. Rakesh S**
Associate professor	Professor & Head	Principal
Dept. of ECE	Dept. of ECE	Sir MVIT, Bengaluru

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of the Examiners	Signature with Date
1. Dr. R. Sundareswaran	22/5/2023
2. Dr. Rashmi N	

DECLARATION

We hereby declare that the project work on "**SMART VOTING SYSTEM**" has been carried out under the guidance of Mrs. Krishnapriya S Sharma, Associate professor, Dept. of ECE, Sir MVIT, Bangalore as partial fulfillment of requirement for the award of Bachelor of Engineering in **Electronics and Communication by Visvesvaraya Technological University,** Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT

Place: Bengaluru

Date: 22/05/2023

Name of the Students and their Signatures:

S.Bindhushree

BINDHUSHREE S

(1MV19EC025)

Poshitha

POSHITHA K J

(1MV19EC079)

S.K.Puneeth

S K PUNEETH

(1MV19EC097)

Spoorthi

SPOORTHI PK

(1MV19EC109)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018



PROJECT REPORT (18ECP78)

ON

"RESCUE AND SURVEILLANCE WITH SMART ROBOT"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

ANKITHA. K. K	**1MV19EC013**
HARINI SAMPATH	**1MV19EC042**
N.B. VIDHYASHREE	**1MV19EC068**
PANICKER CHAITRA	**1MV19EC075**

Under the guidance of

Dr. SASMITA MOHAPATRA

Associate Professor

Department of ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OFTECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled **"RESCUE AND SURVEILLANCE WITH SMART ROBOT"** is a bonafide work carried out by **ANKITHA. K. K(1MV19EC013), HARINI SAMPATH(1MV19EC042), N.B.VIDHYASHREE(1MV19EC068), PANICKER CHAITRA (1MV19EC075)** students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics and Communication of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. It is certified that all corrections and suggestions indicated for InternalAssessment 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 (18ECP78) prescribed for the said degree.

Dr. Sasmita Mohapatra
Associate Professor & Internal Guide
Department of ECE

Dr. V.G.Supriya
Professor and Head
Department of ECE

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya ... Chikkasamarahalli
International ... Bangalore-562 157

Prof. Rakesh S.G.
Principal
Sir MVIT

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Dr. R. Sundaragiri	2/5/23
2. Dr. Rashmi. N	2/5/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on "RESCUE AND SURVEILLANCE WITH SMART ROBOT" has been presented under the guidance of **Dr. SASMITA MOHAPATRA**, Associate Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date:

Name of the Students and Signature:

ANKITHA. K. K
(1MV19EC013)

HARINI SAMPATH
(1MV19EC042)

N.B. VIDHYASHREE
(1MV19EC068)

PANICKER CHAITRA
(1MV19EC075)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANASANGAMA BELAGAVI - 590018



PROJECT REPORT (18ECP83)

ON

"WATER LEAKAGE DETECTION AND CONTROL SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

ARNAB CHAKRABORTY	**1MV19EC016**
RAHUL KUMAR	**1MV19EC086**
SRICHARAN R	**1MV19EC110**
SUPRIT KUMAR	**1MV19EC115**

Under the guidance of

Mrs. Seema S.
Assistant Professor,
Dept. of ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022 - 2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru – 562157

Department Of Electronics and Communication Engineering

CERTIFICATE

It is certified that the major project work (18ECP83) entitled **WATER LEAKAGE DETECTION AND CONTROL SYSTEM** is a bonafide work carried out by **ARNAB CHAKRABORTY (1MV19EC016), RAHUL KUMAR (1MV19EC086), SRICHARAN R IYENGAR (1MV19EC110), SUPRIT KUMAR (1MV19EC115)**, bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi during the year 2022- 2023. 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 major-Project work prescribed for the said Degree.

Seema 22/5/23

Mrs. SEEMA S.
Assistant Professor,
Department of ECE

Dr. V.G. SUPRIYA
Professor & Head
Department of ECE

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Professor Rakesh S.G.
Principal
Sir MVIT, Bengaluru

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the examiner	Signature with Date
1. Dr. R. Sundaraguru	22/5/2023
2. Dr. Rashmi. N	22/5/23

DECLARATION

We, students of eighth semester hereby declare that the Project Report on **"WATER LEAKAGE DETECTION AND CONTROL SYSTEM"** has been presented under the guidance of **Mrs. SEEMA S**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute of Technology**, Bengaluru as partial fulfilment of requirement for the award of Bachelor of Engineering in **Electronics & Communication by Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other departments of Sir MVIT.

Place: Bengaluru

Date: 22-05-2023

SIGNATURE OF STUDENTS:

ARNAB CHAKRABORTY

(1MV19EC016)

RAHUL KUMAR

(1MV19EC086)

SRICHARAN R IYENGAR

(1MV19EC110)

SUPRIT KUMAR

(1MV19EC115)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAVI - 590018

PROJECT WORK PHASE-II REPORT (18ECP83)

ON

"SMART SERICULTURE SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NIKITA S PAI	**(1MV19EC072)**
PRATHIKSHA A	**(1MV19EC082)**
V DEEPASHREE	**(1MV19EC119)**
VINUTHA H	**(1MV19EC124)**

Under the guidance of

Mrs. Praveena N

Assistant Professor,

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project entitled **"SMART SERICULTURE SYSTEM"**is a bonafide work carried out by **NIKITA S PAI (1MV19EC072), PRATHIKSHA A (1MV19EC082), V DEEPASHREE (1MV19EC119), VINUTHA H (1MV19EC124),** of **Sir M. Visvesvaraya Institute of Technology, Bangalore,** 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 academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Project work Phase-II (18ECP83) prescribed for Bachelor of Engineering degree.

MRS. **PRAVEENA N**	**Dr. V. G. SUPRIYA**	**Prof. RAKESH. S. G**
Assistant Professor &	Professor and Head	Principal
Internal Guide	Department of ECE	Sir MVIT
Department of ECE		

PRINCIPAL
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Krishnadevaraya Nagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore-562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Krishnapriya S Sharma	23/05/2023
2.	23/05/23

DECLARATION

We, students of eighth semester hereby declare that the Project Report on **"SMART SERICULTURE SYSTEM"** has been presented under the guidance of **MRS. PRAVEENA.N**, Assistant Professor, Department of ECE, **Sir M Visvesvaraya Institute of Technology** ,Bengaluru as partial fulfillment of requirements for the award of Bachelor of Engineering in **Electronics & Communication by Visvesvaraya Technological University,** Belagavi during the academic year 2022-2023.This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date:23-05-2023

Name of the students and their signature:

NIKITA S PAI
(1MV19EC072)

PRATHIKSHA A
(1MV19EC082)

V DEEPASHREE
(1MV19EC119)

VINUTHA H
(1MV19EC124)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018



PROJECT REPORT (18ECP83)ON

"SMART JACKET FOR ARMY"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

ANUBHAV JHA	**1MV19EC014**
DHEERAJ KUMAR	**1MV19EC034**
ISHU SINGH	**1MV19EC047**

Under the guidance of

Mrs. Shalini P

Associate Professor / Department of ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled **"SMART JACKET FOR ARMY"** is a bonafide work carried out by **ANUBHAV JHA (1MV19EC014), DHEERAJ KUMAR (1MV19EC034), ISHU SINGH (1MV19EC047)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase-2 (18ECP83) prescribed for the said Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Mrs. Smitha P 25/5/23	**Dr. V. G. Supriya**	**Prof. Ramesha S.G**
Associate Professor	Professor and Head	Principal/Sir MVIT
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

Head of the Department
Electronics & Communications Engineering
Sir M. VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Prakasha.G	25/5/23
2. Vijayalakshmi.S	25/5/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on "**SMART JACKET FOR ARMY**" has been presented under the guidance of **Mrs. SHALINI P**, Associate Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date:25/05/2023

Name of the Students and Signature:

ANUBHAV JHA
(1MV19EC014)

DHEERAJ KUMAR
(1MV19EC034)

ISHU SINGH
(1MV19EC047)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-590 018

PROJECT WORK PHASE – II (18ECP83)

REPORT ON

"SMART NURSE ROBOT FOR COVID-19 PATIENTS"

Submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Report Submitted by

ASHOK KUMER G	1MV20EC400
GAGAN GOWDA K M	1MV20EC402
KIRAN K N	1MV20EC403
VIKAS M	1MV20EC410

Under the Guidance of

Mr. NATARAJA R

Associate Professor, Department of ECE

Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)

Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157

Department of Electronics and Communication Engineering

2022-2023

Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi, Affiliated to VTU, Belagavi, ISO 9001:2008 Certified)

Off International Airport Road, Krishnadevaraya Nagar, Bengaluru – 562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the project entitled **"SMART NURSE ROBOT FOR COVID-19 PATIENTS"** carried out by **ASHOK KUMAR G (1MV20EC400), GAGAN GOWDA K M (1MV20EC402), KIRAN K N (1MV20EC403), VIKAS M (1MV20EC410),** bonafide students of **Sir M. Visvesvaraya Institute of Technology, Bengaluru** in partial fulfillment for the requirements for the award of the degree of **Bachelor of Engineering** in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University,** Belagavi during the year **2022-2023.** It is certified that all corrections/suggestions indicated have been incorporated in the report deposited in the department library. The project work phase -II report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above-mentioned degree.

Mr. Nataraja R
Associate Professor
Dept. of ECE

Dr. V G Supriya
Professor and Head
Dept. of ECE

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Prof. Rakesh S.G.
Principal
Sir M V I T

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore-562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Prakasha S	25/5/23
2. Vijayalakshmi. S	25/5/23

DECLARATION

We, **ASHOK KUMAR G (1MV20EC400), GAGAN GOWDA K M (1MV20EC402), KIRAN K N (1MV20EC403), VIKAS M (1MV20EC410),** hereby declare that the project work entitled **"SMART NURSE ROBOT FOR COVID-19 PATIENTS"** has been carried out by us under the guidance of, **Mr. Nataraja** Associate Professor, Department of Electronics and Communication Engineering in partial fulfillment for the award of **Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belagavi** during the year 2021-2022. The matter embodied in this project report has not been submitted to any other university or institute for the award of any other degree or diploma.

Place: Bengaluru

Date: 25-05-2023

Ashok Kumar G

(1MV20EC400)

Gagan Gowda K M

(1MV20EC402)

Kiran K N

(1MV20EC403)

Vikas M

(1MV20EC410)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018



PROJECT WORK PHASE-2 (18ECP83) REPORT
ON

"INTELLIGENT ANIMAL REPELLING SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

ADARSH C HEGDE	**1MV19EC003**
AKSHAY MYAKERI	**1MV19EC007**
NIKHIL JEERIGANUR	**1MV19EC071**
SHASHANK R KASHYAP	**1MV18EC095**

Under the guidance of

Mrs. K N RAJESWARI
Assistant Professor
Department of ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the Project work Phase-1 (18ECP83) entitled "**INTELLIGENT ANIMAL REPELLING SYSTEM**" is a bonafide work carried out by **ADARSH C HEGDE (1MV19EC003), AKSHAY MYAKERI (1MV19EC007), NIKHIL JEERIGANUR (1MV19EC071), SHASHANK R KASHYAP (1MV18EC095)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University,Belagavi** during the year **2022-2023**. 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.

Mrs. K N Rajeswari
Internal Guide
Assistant Professor
Department of ECE

Dr. Supriya V G
Professor and Head
Department of ECE

Dr. Rakesh S.G.
Principal
Sir MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Dr R. Sundaraguru	22/5/2023
2. Dr. Rashmi N	22/5/2023

DECLARATION

We, students of the seventh semester hereby declare that the Project Report on **"INTELLIGENT ANIMAL REPELLING SYSTEM"** has been presented under the guidance of **Mrs. K N RAJESWARI**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of the requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date: 22-05-2023

Name of the Students and Signature:

ADARSH C HEGDE
(1MV19EC003)

AKSHAY MYAKERI
(1MV19EC007)

NIKHIL JEERIGANUR
(1MV19EC071)

SHASHANK R KASHYAP
(1MV18EC095)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-590 018



PROJECT (18ECP83) REPORT

on

"AUTONOMOUS ROBOT FEEDING WITH ARDUINO"

submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS & COMMUNICATION ENGINEERING

Submitted by

Mr. Aman Kumar Manjhi	**1MV19EC010**
Ms. Sonal Jha	**1MV19EC108**
Ms. Ritika Mishra	**1MV19EC095**
Mr. Malik Ul Ashar	**1MV19EC065**

Under the Guidance of

Dr. R SUNDARAGURU

Professor

Department of ECE



Department of Electronics and Communication Engineering

Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru – 562157

2022 – 2023

Sir M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru – 562157

Department of Electronics and Communication Engineering

CERTIFICATE

Certified that the project report **(18ECP83)** entitled **"AUTONOMOUS ROBOT FEEDING WITH ARDUINO"** carried out by **Ms. Sonal Jha (1MV19EC108), Mr. Malik Ul Ashtar Lalji (1MV19EC065), Mr. Aman Kumar Manjhi (1MV19EC010), Ms. Ritika Mishra (1MV19EC095)** bonafide students of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY,** Bengaluru in partial fulfillment for the requirements for the award of the degree of Bachelor of Engineering in Electronics & Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year 2022-2023. It is certified that all corrections/suggestions indicated have been incorporated in the report deposited in the department library. The project work report has been approved as it satisfies the academic requirements in respect of project work prescribed for the above-mentioned degree.

Signature Guide	**Signature of HOD**	**Signature of Principal**
Dr. R Sundaraguru	Dr. V.G.Supriya	Prof. Rakesh S G
Professor	Professor & HOD	Principal
Dept. of ECE	Dept. Of ECE	Sir MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanapura, Visvesvaraya Industrial & Technological Area,
International Airport Road, Bengaluru-560 049

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore-562 157

External Examination

Name of Examiners	Signature with Date
1. Dr. R. Sundaraguru	22/5/23
2. Dr. Rashmi. N	22/5/23.

DECLARATION

We are 8th semester students, **Ms. Sonal Jha (1MV19EC108), Mr. Malik Ul Ashtar (1MV19EC065), Mr. Aman Kumar Manjhi (1MV19EC010), Ms. Ritika Mishra (1MV19EC095)** hereby declare that the project work entitled **"AUTONOMOUS ROBOT FEEDING WITH ARDUINO"** has been carried out by us under the guidance of **Dr. R Sundaraguru Professor**, Department of Electronics & Communication in partial fulfilment for the award of **Bachelor of Engineering Electronics & Communication Engineering of the Visvesvaraya Technological University, Belagavi** during the year 2022-2023. The matter embodied in this project report has not been submitted to any other university or institute for the award of any other degree or diploma.

Place: Bengaluru

Date:

Sonal Jha (1MV19EC108)

Malik Ul Ashtar (1MV19EC065)

Aman Kumar Manjhi (1MV19EC010)

Ritika Mishra (1MV19EC095)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK PHASE-2 REPORT (18ECP83)

ON

"DRONE DETECTION AND SURVEILLANCE"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

K.S. BHAVISHYA	**1MV19EC050**
G.SAI VAMSI	**1MV19EC041**
K. YASWANTH REDDY	**1MV19EC059**
I. S. KRISHNACHAITHANYA	**1MV19EC048**

Under the guidance of

Mrs. KRISHNAPRIYA S SHARMA

Associate Professor / Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled **"DRONE DETECTION AND SURVEILLANCE"** is a bonafide work carried out by **K.S. BHAVISHYA (1MV19EC050), G.SAI VAMSI (1MV19EC041), K. YASWANTH REDDY(1MV19EC059) I.S.KRISHNA CHAITHANYA (1MV19EC048)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase-2 (18ECP83) prescribed for the said Degree.

Mrs. Krishnapriya S Sharma	**Dr. V. G. Supriya**	**Prof. Rakesh S.G.**
Associate Professor / Guide	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Chikkajala, Varanahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Seema. S	Seema 24/5/23
2. Manjunath.M	Manjunath M 24/5/23

DECLARATION

We, students of 8th semester hereby declare that the Project Report on **"DRONE DETECTION AND SURVEILLANCE"** has been presented under the guidance of **Mrs. KRISHNAPRIYA S SHARMA**, Associate Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously for any degree or diploma of any institution previously.

Place: Bengaluru

Date: 24/05/2023

Name of the Students and Signature:

Bhavishya.K.S

K. S. BHAVISHYA
(1MV19EC050)

G. Sai Vamsi

G. SAI VAMSI
(1MV19EC041)

K. Yaswanth Reddy

K. YASWANTH REDDY
(1MV19EC059)

I.S. Krishnachaithanya

I. S. KRISHNACHAITHANYA
(1MV19EC048)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK PHASE-2 REPORT
(18ECP83)ON

"STROKE DISEASE PREDICTION SYSTEM"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF
ENGINEERINGIN

ELECTRONICS AND COMMUNICATION

Submitted by

ABDUL ALEEM	1MV19EC001
CHUDESH VANNY V	1MV19EC026
SHASHANK G NAIK	1MV19EC103
VINAY KV	1MV19EC123

Under the guidance of

Mrs. PRAVEENA N

Assistant Professor / Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled **"STROKE DISEASE PREDICTION SYSTEM"** is a bonafide work carried out by **ABDUL ALEEM (1MV19EC001), CHUDESH VANNY V (1MV19EC026), SHASHANK G NAIK (1MV19EC103), VINAY KV (1MV19EC123)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** duringthe year **2022-2023**. 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 Projectwork Phase-II (18ECP83) prescribed for the said Degree.

Mrs. Praveena N	**Dr.V.G.Supriya**	**Prof. Rakesh S.C**
Internal Guide	Professor and Head	Principal
Department of ECE	Department of ECE	SIR MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Educational Trust, Chikkasandra, Hesaraghatta Hobli, Somaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the examiner	Signature with date
1. Seema S	Seema 24/5/23
2. Manjunath.M	24/5/23

DECLARATION

We, students of eight semester hereby declare that the Project Report on "**STROKE DISEASE PREDICTION SYSTEM**" has been presented under the guidance of **Mrs. PRAVEENA N**, Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfilment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously inthe Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date: 24-05-2023

Name of the Students and Signature:

ABDUL ALEEM
(1MV19EC001)

CHUDESH VANNY V
(1MV19EC026)

SHASHANK G NAIK
(1MV19EC103)

VINAY KV
(1MV19EC123)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAUM – 590018

PROJECT WORK PHASE-2 REPORT (18ECP83)

ON

APP BASED SUSTAINABLE SMART IRRIGATION SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

AMAN SHANTI	1MV19EC011
ARYAN DUBEY	1MV19EC019
PUNIT K N	1MV19EC083
SUHANI	1MV19EC114

Under the guidance of

Mrs. SWETHA L
Assistant Professor
Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project entitled **"APP BASED SUSTAINABLE SMART IRRIGATION SYSTEM"** is a bonafide work carried out by **Aman Shanti (1MV19EC011), Aryan Dubey (1MV19EC019), Punit K N (1MV19EC083), Suhani (1MV19EC114)** of **Sir M. Visvesvaraya Institute of Technology, Bengaluru** in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023.** It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Project work Phase – 2 (18ECP83) prescribed for Bachelor of Engineering degree.

Mrs. Swetha L	**Dr. V. G. Supriya**	**Prof. Rakesh S.G**
Assistant Professor /Internal Guide	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
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International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of the Examiner	Signature
1) Krishnapriya S Sharma	23/05/2023
2) Laxmisha H.S	23/05/2023

DECLARATION

We hereby declare that the entire work embodied in this dissertation has been carried out by us and no part of it has been submitted previously for any degree or diploma of any institution.

Place: Bengaluru
Date: 23/05/2023

Name of the students and their signature:

AMAN SHANTI

(1MV19EC011)

SUHANI

(1MV19EC114)

ARYAN DUBEY

(1MV19EC019)

PUNIT K N

(1MV19EC083)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAUM – 590018

PROJECT WORK PHASE-2 REPORT (18ECP83)

ON

"Currency Segregation and Counting System"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

Aditya Singh (1MV19EC005)

Aryan Dixit (1MV19EC018)

Disha Gandhi (1MV19EC036)

Deekshith S (1MV20EC401)

Under the guidance of

Dr. R. Sundaraguru

Professor, Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the project entitled **"CURRENCY SEGREGATION AND COUNTING SYSTEM"** is a bonafide work carried out by **ADITYA SINGH (1MV19EC005), ARYAN DIXIT (1MV19EC018), DISHA GANDHI (1MV19EC036), DEEKSHITH S (1MV20EC401)** of **Sir M. Visvesvaraya Institute of Technology**, Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in **Electronics and Communication** of the **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Project work Phase -2 (18ECP83) prescribed for Bachelor of Engineering degree.

PRINCIPAL
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Dr. R. SUNDARAGURU	Dr. SUPRIYA V. G.	Prof. RAKESH S. G.
Professor	Professor & Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of Examiners:	Signature with Date
1. Prakasha G	25/5/23
2. Vijayalakshmi S	25/5/23

DECLARATION

We, 8th semester students hereby declare that the entire work embodied in this discussion has been carried out by us and no part of it has been submitted previously for any degree or diploma of any institution. We hereby declare that the project work on **"CURRENCY SEGREGATION AND COUNTING SYSTEM"** has been presented under the guidance of **Dr. R. Sundaraguru**, Professor, Department of ECE, Sir MVIT, Bangalore as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics and Communication by Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT

Place: Bengaluru

Date: 25/05/2023

Name of the students and their signature:

Aditya Singh

Aditya Singh

(1MV19EC005)

Aditya

Aryan Dixit

(1MV19EC018)

Disha

Disha Gandhi

(1MV19EC036)

Deekshith S

Deekshith S

(1MV20EC41)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi - 590 018

PROJECT (18ECP83) REPORT
ON

"COUNTING PEOPLE AND FACIAL RECOGNITION USING DEEP LEARNING"

Submitted in partial fulfillment of the requirements for the award of the Degree

BACHELOR OF ENGINEERING
In
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

SHIWANGI SINGH	**USN: 1MV19EC104**
MANOJ P	**USN: 1MV20EC407**
SADDAM HUSEN	**USN: 1MV20EC408**
SURAJ KUMAR MONDAL	**USN: 1MV20EC409**

Under the Guidance of

Mr. Nataraja R
Associate Professor
Dept. of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru -562157

2022-2023

SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157
Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the Project work (18ECP83) entitled **"COUNTING PEOPLE AND FACIAL RECOGNITION USING DEEP LEARNING"** is a bonafide work carried out by **SHIWANGI SINGH (1MV19EC104), MANOJ P (1MV20EC407), SADDAM HUSEN (1MV20EC408), SURAJ KUMAR MONDAL (1MV20EC409)** of **Sir M. Visvesvaraya Institute of Technology, B**, 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 academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report submitted to department library. The project phase-1 report has been approved as it satisfies the academic requirements in respect of project work prescribed for Bachelor of Engineering degree.

Mr. Nataraj R	**Dr. V. G. Supriya**	**Prof. RAKESH S G**
Associate Professor	Professor & Head	Principal
Dept. of ECE	Dept. of ECE	Sir M V I T

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasemaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of the Examiners	Signature with Date
1. Prakasha. G	25/5/23
2. Vijayalakshmi. S	25/5/23

DECLARATION

We, students of eight semester hereby declare that the Project Report on **"COUNTING PEOPLE AND FACIAL RECOGNITION USING DEEP LEARNING"** has been presented under the guidance of **MR. NATARAJA R**, Associate Professor, Department of ECE, **Sir M. Visvesvaraya Institute of Technology**, Bengaluru as partial fulfilment for the award of Bachelor of Engineering in **Electronics and Communication by Visvesvaraya Technological University**, Belgavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other departments of Sir MVIT.

Place: Bengaluru

Date: 25/05/23

Name of the students and their signatures:

SHIWANGI SINGH
(1MV19EC104)

MANOJ P
(1MV20EC407)

SADDAM HUSEN
(1MV20EC408)

SUARAJ KUMAR MONDAL
(1MV20EC409)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAVI - 590018

PROJECT WORK REPORT (18ECP83)

ON

"EV BMS WITH CHARGE CONTROL AND FIRE PROTECTION"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

Adarsh Abhay	**1MV18EC003**
Deepesh Keswani	**1MV19EC030**
Shivam Singh	**1MV18EC098**
Sidharth Kumar Pandey	**1MV18EC102**

Under the guidance of

Mrs. Krishnapriya S Sharma

Associate Professor

Department of Electronics and Communication

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, Bangalore-562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the project entitled **"EV BMS With Charge Monitor and Fire Protection"** is a bonafide work carried out by **ADARSH ABHAY (1MV18EC003), DEEPESH KESWANI (1MV18EC030), SHIVAM SINGH (1MV18EC098), SIDHARTH KUMAR PANDEY (1MV18EC102)** of **Sir M. Visvesvaraya Institute of Technology,** Bangalore, in partial fulfilment for the award of degree of Bachelor Of Engineering in Electronics and Communication of the Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been as it satisfies the academic requirements in respect of project (18ECP83) prescribed for Bachelor of Engineering degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Mrs. Krishnapriya S Sharma	Dr. V.G Supriya	Prof. Rakesh S C
Associate Professor	**Head of Department**	**Principal**
Dept of ECE	Dept of ECE	Sir MVIT, Bengaluru
Sir MVIT, Bengaluru	Sir MVIT, Bengaluru	

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Seema.S	Seema 24/5/23
2. Manjunath.M	Manjunath.M 24/5/23

DECLARATION

We, students of eighth semester hereby declare that the Project Report on "**EV BMS WITH CHARGE CONTROL AND FIRE PROTECTION**" has been presented under the guidance of **Mrs. Krishnapriya S Sharma**, Associate Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023. This topic has not been submitted previously in the Dept. of ECE and any other Departments of Sir MVIT.

Place: Bengaluru

Date:

Name of the Students and Signature:



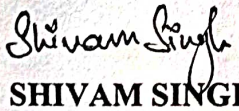
ADARSH ABHAY

(1MV18EC003)



DEEPESH KESHWANI

(1MV19EC030)



SHIVAM SINGH

(1MV18EC098)



SIDHARTH KUMAR PANDEY

(1MV18EC102

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

PROJECT WORK (18ECP78)

ON

"SMART GLASSES MULTIMETER"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

AMAN GUPTA	**1MV19EC009**
AYUSH AGRAWAL	**1MV19EC020**
DISHANT BANIK	**1MV19EC037**
KANHA AGRAWAL	**1MV19EC054**

Under the guidance of

Mrs. BHUVANESWARI N.

Assistant Professor

Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OFTECHNOLOGY

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru -562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled **"SMART GLASSES MULTIMETER"** is a bonafide work carried out by **AMAN GUPTA (1MV19EC009), AYUSH AGRAWAL (1MV19EC020), DISHANT BANIK (1MV19EC037), KANHA AGRAWAL (1MV19EC054)** bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022-2023**. 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 Phase-1 (18ECP78) prescribed for the said Degree.

Mrs. Bhuvaneswari N	**Dr. V. G. Supriya**	**Prof. Rakesh S.G.**
Assistant Professor	Professor and Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1. Seema. S	Seema 24/5/23
2. Manjunath.m	Manjunath.m 24/5/23

DECLARATION

We, students of seventh semester hereby declare that the Project Report on "**SMART GLASSES MULTIMETER**" has been presented under the guidance of **Mrs. BHUVANESWARI N.** Assistant Professor, Department of ECE, **Sir M. Visvesvaraya Institute Technology**, Bengaluru as partial fulfillment of requirement for the award of Bachelor of Engineering in Electronics & Communication by **Visvesvaraya Technological University**, Belagavi during the academic year 2022-2023.

Place: Bengaluru

Date:24/05/2023

Name of the Students and Signature:

AMAN GUPTA

(1MV19EC009)

AYUSH AGRAWAL

(1MV19EC020)

DISHANT BANIK

(1MV19EC037)

KANHA AGRAWAL

(1MV19EC054)

SRI KRISHNADEVARAYA EDUCATIONAL TRUST
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Department of Electronics and Communication Engineering

Internship (18ECI85)Details - 8 A (2022-23)

SL.No.	USN	Name	Internal Guide	External Guide (If any)	Date of internship starting	Date of internship ending	Place of Internship	Topic of Internship
1	1MV19EC001	ABDUL ALEEM	Praveena N	Spoorthi H C	23/08/2022	27/09/2022	Varcons Technologies Pvt Ltd	Full Stack web development
2	1MV19EC002	ABHISHEK S MASGAL	Phanindar Ravi	Nitin K S	23/08/2022	27/09/2022	comsoft technologies pvt ltd	Machine learning with python
3	1MV19EC003	ADARSH C HEGDE	K N Rajeswari	Nitin K S	23/08/2022	27/09/2022	Ltd	Machine Learning with Python
4	1MV19EC005	ADITYA SINGH	Sundaraguru		25/08/2022	29/09/2022	(online)	Machine Learning with Python
5	1MV19EC006	AKASH AWASTHI	Mrs. Poongothai	Spoorthi H C	23/08/2022	27/09/2022	Varcons Technologies Pvt Ltd	Machine Learning with Python
6	1MV19EC007	AKSHAY MYAKERI	K. N. Rajeswari	Ganesh G	23/08/2022	27/09/2022	IC Solutions	Full Stack web development
7	1MV19EC008	ALOK KUMAR	Shashibhushan		23/08/2022	27/09/2022	Online	Full Stack web development
8	1MV19EC009	AMAN GUPTA	Bhuvaneswari N		23/08/2022	27/09/2022	Sain Informatix Pvt Ltd(Online)	Machine learning with Python
9	1MV19EC010	AMAN KUMAR MANJHI	Sundaraguru		22/08/2022	29/09/2022	Online	Full Stack Web Development
10	1MV19EC011	AMAN SHANTI	Mrs.Swetha L		22/08/2022	29/09/2022	Pixaflip Tech	Web Development Using Python Django
11	1MV19EC012	ANJALI KANTHALIYA	Shashibhushan		23/08/2022	27/09/2022	Online	Full Stack Web Development
12	1MV19EC013	ANKITHA K K	Mahopatra		23/8/2022	27/9/2022	Online	Full Stack Web Development
13	1MV19EC014	ANUBHAV JHA	Shalini P		25/08/2022	29/09/2022	Online	Full Stack Web Development
14	1MV19EC015	ARCHANA B R	R.Sundaraguru		22/08/2022	22/09/2022	Online	Machine learning with Python
15	1MV19EC016	ARNAB CHAKRABORTY	Seema S		23/08/2022	27/09/2022	Online	Full Stack Web Development
16	1MV19EC017	ARPIT KABRA	Mohapatra		22/08/22	29/09/22	Online	Full stack Web Development
17	1MV19EC018	ARYAN DIXIT	R. Sundaraguru		25/08/2022	29/09/2022	Online	Full Stack Web Development
18	1MV19EC019	ARYAN KUMAR DUBEY	Swetha L		22/08/2022	22/09/22	Aqmenz automation pvt. Ltd	Artificial intelligence and machine learning
19	1MV19EC020	AYUSH AGRAWAL	Bhuvaneswari N		22/08/2022	22/09/22	Aqmenz Automation Pvt. Ltd	Artificial Intelligence & Machine Learning
20	1MV19EC021	AYUSH RAJ	Mrs Poongothai C		23/08/2022	27/09/2022	Compsoft Technologies	Full Stack Web Development
21	1MV19EC022	B PUNIT KUMAR	Phanindar Ravi P		23/08/2022	27/09/2022	Compsoft Technologies	Machine learning with python
22	1MV19EC023	BHASKAR JAISWAL	Vijaya Lakshmi		23/08/2022	27/09/2022	Online	Full stack web development
23	1MV19EC024	BHAVANA U	R. Sundaraguru		23/08/2022	27/09/2022	IC Solutions	Machine learning with python
24	1MV19EC025	BINDHUSHREE S	krishnapriya S sharma	Annamalai	01/08/2022	29/09/2022	Bariflo labs	Internet of things
25	1MV19EC026	CHUDESH VANNY V	Praveena N	spoorthi HC	23/08/2022	27/09/2022	Varcons Technologies Pvt Ltd	Full stack Web Development
26	1MV19EC027	D H GOWDA	sasmita mohapatra		23/08/2022	27/09/2022	Compsoft Technologies	Machine learning with python
27	1MV19EC028	D MANOJ KUMAR	Phanindar Ravi P		23/08/2022	27/09/2022	Compsoft Technologies	Machine learning with python

28	1MV19EC029	DEBANJAL GUHA	Phanindar Ravi P		22/08/22	17/10/22	Tata Steel Pvt. Ltd.	Web Development Using Python Django
29	1MV19EC030	DEEPESH KESWANI	Krishna priya	Mr. sharanabasava malipatil	13/08/2022	12/10/2022	3sc supply chain solutions	Python developer(backend)
30	1MV19EC031	DEVIKA A	G Shashibhushan		01/09/2022	30/09/2022	Indian Tech keys	Embedded system designs and development
31	1MV19EC032	DEVIKA S G	G Shashibhushan		01/09/2022	30/09/2022	Indian Tech keys	Embedded system designs and development
32	1MV19EC033	DHANANJAYA MITHTHANTHAYA	P. Shalini		25/08/2022	29/09/2022	Compsoft Technologies (online)	Machine learning with python
33	1MV19EC034	DHEERAJ KUMAR	P. Shalini		25/08/2022	29/09/2022	online	Full Stack Web Development
34	1MV19EC035	DIPANJAN SAMADDAR	Mrs Rajeshwari K N		25/08/2022	29/09/2022	ProTech Digital	Web Development Using Python Django
35	1MV19EC036	DISHA GANDHI	Dr. R Sundaraguru		14/09/2022	28/10/2022	online	AHB2APB bridge design using Verilog Hdl
36	1MV19EC037	DISHANT BANIK	Mrs Bhuvaneswari N		9/9/2022	8/10/22	offline (HAL KOLKATA)	Communication system and radio instruments of cheetah and chetak helicopters
37	1MV19EC038	GANESH HEGDE	Shalini P		23/08/2022	27/09/2022	Comsoft Technologies	Machine learning with python
38	1MV19EC039	GOVIND JEE	Vijaya Lakshmi S		23/08/2022	27/09/2022	Compsoft Technologies	Full Stack Web Development
39	1MV19EC041	GUDIKAL SAI VAMSI	Krishnapriya s sharma	Mohammed Azhar Hussain	22/08/2022	22/09/2022	Aqmenz Automation Pvt. Ltd.	Artficial Intelligence and Machine Learning
40	1MV19EC042	HARINI SAMPATH	Dr. Sasmita Mahopatra	M Ramesh Kumar	22/08/2022	22/09/2022	Orno Technologies Pvt. Ltd.	Long Range RFID Detection
41	1MV19EC043	HARSH DUBEY	Mrs Sheetal Bagali		22/08/2022	22/09/2022	Compsoft Technologies	Full stack web development
42	1MV19EC044	HARSH PANDYA	Sheetal Bagali	Mr. Santhu	23/08/2022	27/09/2022	Sain Informatix Pvt Ltd(Online)	Full stack web development
43	1MV19EC045	HARSHITA SRIVASTAVA	Sheetal Bagali	Mr. Santhu	23/08/2022	27/09/2022	Sain Informatix Pvt Ltd(Online)	Full stack web development
44	1MV19EC046	HIMANSHU KUMAR GUPTA	Vijaya Laxmi S		23/08/2022	27/09/2022	online	Full stack web development
45	1MV19EC047	ISHU SINGH	Shalini P		25/08/2022	29/09/2022	online	Full stack web development
46	1MV19EC048	ISUKAPALLI SAI KRISHNACHAITHANYA	Krishnapriya S Sharma	M Ramesh Kumar	22/08/2022	22/09/2022	Orno Technologies Pvt Ltd	Long Range RFID Detection
47	1MV19EC049	JAISAN	R. Sundaraguru		23/08/2022	27/09/2022	Compsoft Technologies	Full stack web development
48	1MV19EC050	K S BHAVISHYA	Krishnapriya	M Ramesh	22-08-22	22-09-22	Orno Technologies	Long range RFID
49	1MV19EC051	KACHARAGADLA DEEPTHI	sheetal		23/08/22	27/09/22	Online	Machine learning with python
50	1MV19EC052	KALYAN KUMAR Y M	R. Sundaraguru		23/08/2022	27/09/2022	Sain Informatix Pvt Ltd(Online)	Full Stack web development
51	1MV19EC053	KANDANOOLU KOWSHIKA REDDY	V G Supriya		23/08/2022	25/10/2022	Contriver	Programming and development (Web development & ML)

52	1MV19EC054	KANHA AGRAWAL	Bhuvaneswari.N		23/08/2022	27/09/2022	compsoft technologies	full stack web development
53	1MV19EC055	KARTIK KESHARWANI	Vijaya Lakshmi S	Ganesh G	23/08/2022	27/09/2022	IC Solutions	Full Stack Web development
54	1MV19EC056	KAVANA T U	G Shashibhushan		01/09/2022	30/09/2022	Indian Tech keys	Embedded system designs and development
55	1MV19EC057	KISHAN KUMAR	G. Shashibhushan		23/08/2022	27/09/2022	online	Full Stack Web Development
56	1MV19EC058	K M UDHITH RAJU	V G Supriya		23/08/2022	25/10/2022	Contriver	Programming and development (Web development & ML)
57	1MV19EC059	KODATALA YASWANTH REDDY	Krishnapriya S Sharma	Mallikarjun Kumbar	20/08/2022	20/09/2022	Take It Smart (OPC) Pvt Ltd	Machine Learning
58	1MV19EC060	KOMAL PRIYA	G Shashibhushan		23/08/22	27/09/2022	online	Pickup elevator
59	1MV19EC061	KONDURU KAPIL RAJU	Bhuvaneswari				Take It Smart (OPC) Pvt Ltd	Machine learning with python
60	1MV19EC062	KUSHAL SEHRAWAT	Mr. Phaninder Ravi P.	Spoorthi HC	23/08/22	27/09/22	online	Full stack web developement
61	1MV19EC063	LOKESH KUMAR	Mrs Vijaya Lakshmi S	Spoorthi HC	23/08/22	27/09/22	Innovation Creation	Full Stack Web Development
62	1MV19EC064	MADHUSUDHAN GK	R. Sundaraguru		23/08/2022	27/09/2022	Varcons Technologies Pvt Ltd	Full Stack web development
63	1MV20EC400	ASHOK KUMAR G	Mr Nataraja R	Ganesh G	23/08/2022	27/09/2022	IC Solutions	Full Stack web development
64	1MV20EC401	DEEKSHITH S	Sasmita Mohapatra	Spoorthi H C	23/08/2022	27/08/22	Online	Full stack web development
65	1MV20EC402	GAGAN GOWDA K M	Nataraja R		23/08/22	20/9/22	online	Embedded systems and IOT
66	1MV20EC403	KIRAN K N	Nataraja R		23/08/22	20/9/22	online	Embedded systems and IOT
67	1MV20EC404	MADHVESH DIGGAVI	Sasmita Mohapatra	Spoorthi H C	23/08/2022	27/09/2022	online	Full stack web development
68	1MV20EC405	MAHANTESH GIRAMALLA AGASANAL	Natraj R		23/08/22	20/09/22	online	Embedded System and Iot
69	1MV17EC024	BHUVANESHWARI	Sheetal		23/08/2022	27/09/2022	online	machine learning with python
70	1MV18EC003	ADARSH ABHAY	Mrs Krishna Priya Sharma		23/08/2022	27/09/2022	IC Solution	Full stack web development

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Department of Electronics and Communication Engineering

Internship (18ECI85)Details - 8 B (2022-23)

SL.No.	SI. No.	USN	Name	Internal Guide	External Guide (If any)	Date of internship starting	Date of internship ending	Place of Internship	Topic of Internship
1	1	1MV19EC065	LALU	Dr R. Sundaraguru	Mrs. Spoorthi HC	25-Aug-2022	29-Sept-2022	Varcons Technologies Pvt Ltd	Full Stack Web development
2	2	1MV19EC066	ANWAR	Dr. Sasmita M	Mrs. Spoorthi HC	23-Aug-2022	27-Sept-2022	Varcons Technologies Pvt. Ltd.	Full Stack Web development
3	3	1MV19EC067	MUTHUKUMAR M	Dr. R Sundaraguru	Mrs. Spoorthi HC	25-Aug-2022	29-Sept-2022	Varcons Technologies Pvt Ltd	Full Stack Web development
4	4	1MV19EC068	N B VIDHYASHREE	Dr. Sasmita M	Ms.Trupthi Muralidhar	23-Aug-2022	27-Sepr-2022	Sain Informatix Pvt. Ltd.	Full Stack Web Development
5	5	1MV19EC069	N S PRATHVEESH	Mrs. Shalini P		23-Aug-2022	27-Sept-2022	Compsoft Technologies	Machine Learning with Python
6	6	1MV19EC070	NANNAT GUPTA	Dr R. Sundaraguru	Mrs. Spoorthi HC	25-Aug-2022	29-Sept-2022	Varcons Technologies Pvt Ltd	Full Stack Web development
7	7	1MV19EC071	NIKHIL JEERIGANUR	Mrs. K N Rajeswari	Mr Nithin K S	6-Feb-2023	9-March-2023	Compsoft Technologies	Full Stack Web development
8	8	1MV19EC072	NIKITA SHRIKANT PAI	Mrs. Praveena N	Mrs. Spoorthi HC	23-Aug-2022	27-Sept-2022	Varcons Technologies Pvt Ltd	Full Stack Web development
9	9	1MV19EC073	NIKITHA S REDDY	Dr. V G SUPRIYA		23-Aug-2022	27-Sept-2022	Compsoft Technologies	Machine Learning with Python
10	10	1MV19EC074	PALA SAITEJA	Mrs. Vijaya Lakshmi S	Mr. Nithin K.S	25-Aug-2022	29-Sept-2022	Compsoft Technologies	Machine Learning with Python
11	11	1MV19EC075	PANICKER CHAITRA	Dr. Sasmita M	Mr. Nitin K S	23-Aug-2022	27-Sept-2022	Compsoft Technologies	VASAVI MEDICALS WEBSITE
12	12	1MV19EC076	SREEKANTH REDDY	Dr.VG Supriya	Mr.Suhas Ramanatham	25-Aug-2022	27-Sep-2022	Prinston smart Engineers	Loan Predication
13	13	1MV19EC077	PAYYAVULA DEEPA	Mrs.Sheetal Bagali		20-Aug-2022	20-Sept-2022	Take It Smart (opc) Pvt Ltd	Machine Learning
14	14	1MV19EC078	PIYUSH PRABHAT	Mrs. K N Rajeswari	Mrs. Jyoti Thakur	22-Aug-2022	26-Sep-2022	Vpro Tech Digital Pvt. Ltd.	Web development.
15	15	1MV19EC079	POSHITHA K J	Sharma	Mr. Ashish Saini	22-Aug-2022	5-Oct-2022	Azure Skynet Solutions Pvt. Ltd.	Machine Learning
16	16	1MV19EC080	PRANAY RAJ	Mr. Phanindar Ravi P	Mrs. Spoorthi HC	23-Aug-2022	27-Sept-2022	Varcons Technologies Pvt Ltd	Full Stack Web development
17	17	1MV19EC081	PRASHANT KUMAR	Dr R Sundaraguru	Ganesh G	23 Aug- 2022	27th-Sept-2022	Ic soln	full stack web development
18	18	1MV19EC082	PRATHIKSHA A	Mrs. Praveena N	Mr Mohammed Azhar Hussain	22-Aug-2022	22-Sep-2022	Aqmenz Automation Pvt. Ltd.	Machine learning with Python
19	19	1MV19EC083	PUNIT K N	Mrs. Ekta jolly	Rohan.D	23- Aug -2023	23 September	Bharat electronics	Overview of Missile System
20	20	1MV19EC084	PUNYA P	Dr. V G SUPRIYA		23-Aug-2022	27-Sept-2022	Comsoft Technologies	Machine Learning with Python
21	21	1MV19EC085	PUSHPANJALI A V	Dr. V G Supriya		23-Aug-2022	27-Sept-2022	Comsoft Technologies	Machine learning with Python
22	22	1MV19EC086	RAHUL KUMAR	Mrs Seema S	Mrs. Spoorthi HC	23-Aug-2022	27-Sep-2022	Varcons Technology Pvt Ltd	Full Stack Web Development
23	23	1MV19EC087	RAHUL R	Mrs Seema S	Mr Nagaraj N	29- Aug-2022	28-Sept-2022	BEL	Overview of CMS
24	24	1MV19EC088	RAVI VARMA K	Dr. V G Supriya	Mr. Avinash Kundu	23-Aug-2022	25-Oct-2022	Contriver	Programming and Development
25	25	1MV19EC089	RAVINDRA D	Mrs. Shalini P		23-Aug-2022	27-Sept-2022	Varcons Technology Pvt Ltd	Machine Learning with Python
26	26	1MV19EC090	RISHABH JAIN	DR R SUNDARAGURU	GANESH G	23-Aug-2022	27-sept-2022	IC SOLN	full stack web development
27	27	1MV19EC091	RISHABH SINGH	Mrs Sheetal Bagali		20-Aug-2022	19-Sept-2022	Take it smart (opc) Pvt Ltd	Embedded system and IOT
28	28	1MV19EC092	RISHABH VERMA	Mrs Poongothai C	Praleed Suvarna	30-Aug-2022	5-Jan-2023	Flam	Data Engineering Intern
29	29	1MV19EC093	RISHAV KUMAR SINGH	Mrs. Vijaya Lakshmi S	Mr. Nithin K. S.	23 August 2022	26/09/2022	Compsoft Technologies	Medical store website development
30	30	1MV19EC094	RITIK KUMAR SINGH	Dr. Sasmita Mohaptra	Mr. Nithin K.S	25 August 2022	29 September 2022	Compsoft Technologies	Machine Learning with Python
31	31	1MV19EC095	RITIKA SUDHIR MISHRA	Dr. R Sundaraguru		23 August 2022	26 September 2023	Sain Informatix	crypto website
32	32	1MV19EC096	ROHINI	Mr.Nataraja R	Mr.Prajwal S Madhav	25-Aug-2022	29-Sep-2022	Compsoft Technologies	Machine learning with Python
33	33	1MV19EC097	S K PUNEETH	Mrs. Krishnapriya S Sharma	Mr. Avinash Kundu	23-Aug-2022	25-Oct-2022	Contriver	Programming and Development

34	34	1MV19EC098	SACHIN KENCHANAGOWDAR	Mrs Seema S	Mr Nagaraj N	29-Aug-2022	28-Sept-2022	BEL	Overview of Military Radar
35	35	1MV19EC099	SANDHYA H	Mr. Sundaraguru	Mr Mohammed Azhar Hussain	22-Aug-2022	22-Sep-2022	Aqmenz Automation Pvt. Ltd	Insurance Prediction
36	36	1MV19EC100	SANKET GUPTA	Mrs. Poongothai C	Spoorthi C	23-Aug-2022	27-Sept-2022	Varcons Technologies Pvt Ltd	Machine Learning with Python
37	37	1MV19EC101	SANTHOSHA K S	Dr G Shashibhushan	Mr Hemanth	20-Aug-2022	20-Sept-2022	Take it Smart pvt ltd	Embedded system
38	38	1MV19EC102	SHAIK AREEF	Mrs. Poongothai C	Mr.Prajwal S Madhav	23-Aug-2022	27-Sep-2022	IC Solutions	Machine learning with Python
39	39	1MV19EC103	SHASHANK G NAIK	Mrs Praveena N		23-Aug-2022	27-Sept-2022	Varcons Technologies	Full Stack Web Development
40	40	1MV19EC104	SHIWANGI SINGH	Mr.Nataraja R	Mr. Nitin K S	23- Aug-2022	27-Sept-2022	Compsoft technologies	Web development
41	41	1MV19EC105	SHRADDHA V GOUDAR	Mrs. Poongothai.C	Ms.Trupthi Muralidhar	23-Aug-2022	27-Sept-2022	Sain informatix	Full stack web development
42	42	1MV19EC106	SHUBHAM SRIVASTAVA	Mr. Phanindar Ravi P	Mrs. Jyoti Thakur	22-Aug	26Sep 2022	Vpro Tech Digital Pvt. Ltd.	Android Development
43	43	1MV19EC107	SHUBHRA DIXIT	Mrs. N Bhuvaneswari	Mr. Arun Kalyanaraman	21-Aug-2022	18-Sep-2022	Target Corp. Ltd.	Clickstream Data Pipeline
44	44	1MV19EC108	SONAL JHA	Mr. Sundaraguru	Mr Prashanth	21-Aug-2022	18-Sep-2022	Harmonizer	Method to detect, measure and analyse temperature and vibration of electronic motor using iot
45	45	1MV19EC109	SPOORTHI P K	Mrs Krishna Priya S Sharma	Mr. Prajwal S Madhav	23 August 2022	27-Sep-2022	IC Solutions	Machine learning with Python
46	46	1MV19EC110	SRICHARAN R IYENGAR	Mrs. Seema. S	Ms. Trupthi Muralidhar	23-Aug-2022	27-Sept-2022	Sain Informatix	Full stack web development
47	47	1MV19EC111	SRIJAY GANGULY	Mrs. K N Rajeswari	Mr. Nithin K S	23-Aug-2022	27-Sept-2022	Compsoft Technologies	Front-end Development - VASAVI MEDICALS WEBSITE
48	48	1MV19EC112	SUDARSH TANDON	Dr. R Sundaraguru	Mr.Vijay Kumar Jaiswal	20-Aug-2022	20-Sept-2022	PIE.INFOCOMM.PVT.LTd	Full stack web development
49	49	1MV19EC113	SUDESH S GAONKAR	Mr. Phanindar Ravi P	Mr. Nithin K s	23-Aug-2022	27-Sept-2022	Compsoft Technologies	Machine Learning with Python
50	50	1MV19EC114	SUHANI	Mrs.Swetha. L	Mr.Saudagar B	22 August 2022	30-sept-2022	Pixaflip Technologies	web Development
51	51	1MV19EC115	SUPRIT KUMAR	Mrs.Seema.S	Mrs. Spoorthi HC	23-Aug-2022	27-Sept-2022	Varcons Technologies Pvt Ltd	Full Stack web development
52	52	1MV19EC116	SUPRIYO SADHUKHA	Dr. Sasmita Mohaptra	Ms.Trupthi Muralidhar	23-Aug-2022	27-Sept-2022	Sain Informatix Pvt.Ltd.	Full Stack web development
53	53	1MV19EC117	SYED ADNAN	Mrs.Seema S	Mr.Nagaraj N	29-Aug-2022	28-Sept-2022	BEL	Overview of CMS
54	54	1MV19EC118	UJJWAL KUMAR	Mrs.Rajeshwari KN	Mrs. Spoorthi HC	23-Aug-2022	27-Sept-2022	Varcons Technologies Pvt Ltd	Full Stack web development
55	55	1MV19EC119	V DEEPASHREE	Mrs.Praveena.N	Mr.B.H.Basavaraju	03-Sept 2022	03-Oct 2022	BEML	Manufacturing of earth moving equipments
56	56	1MV19EC120	VARSHINI NS	Mrs. Poongothai C.	Ms. Trupti Muralidhar	23 Aug 2022	27 sept 2022	Sain Informatix Pvt. Ltd.	Full stack web development
57	57	1MV19EC121	VIDYA S	Dr. V G Supriya	Mr. Nithin K S	23-Aug-2022	27-Sep-2022	Compsoft Technologies	Machine learning with Python
58	58	1MV19EC122	VIKRAM S BHAT	Dr. Sasmita M	Mr. Jagannath A	20-Aug-2022	20-Sep-2022	Take it smart pvt.ltd	embedded + iot
59	59	1MV19EC123	VINAY K V	Mrs. Praveena. N	Mrs Spoorthi H C	23-Aug 2022	27 Sep-2022	Varcons Technologies	Full Stack Web Development
60	60	1MV19EC124	VINUTHA H	Mrs. Praveena. N	Mr. Anurag patwary	23-Aug-2022	27-Sept-2022	IC Solutions	Machine Learning with Python
61	61	1MV19EC125	VIVEK N RAJ	Mrs. Seema S	Mr. Nagaraj N	29-Aug-2022	28-Sept-2022	BEL	Overview of Military Radar
62	62	1MV19EC126	K JAYA SUPREETH REDDY	Mrs. Vijaya Lakshmi S	Mr. K Shashi Kiran	20-Aug-2022	19-Sept-2022	Take It Smart (opc) Pvt Ltd	Machine Learning Using Python
63	63	1MV19EC127	YERRAM CHETTY DWARAKESH	Mrs. Poongothai C		20-Aug-2022	19-Sept-2022	Take It Smart (opc) Pvt Ltd	Machine Learning
64	64	1MV20EC406	MANASA G B	Mrs Sheetal Bagali		20-Aug-2022	19-Sept-2022	Take it smart (opc) Pvt Ltd	Embedded system and IOT
65	65	1MV20EC407	MANOJ P	Mr. Nataraja R	Mr. Hanumantappa B R	26-Sep-2022	25-Oct-2022	BEL	Overview of Military Radar
66	66	1MV20EC408	SADDAM HUSEN	Mr Nataraja R		20-Aug-2022	19-Sept-2022	Take it smart (opc) Pvt Ltd	Embedded system and IOT

67	67	1MV20EC409	SURAJ KUMAR MONDAL	Mr Nataraja R		23 Aug 2022	27 sept 2022	Sain Informatix Pvt. Ltd.	Full stack web development
68	68	1MV20EC410	VIKAS M	Mr. Nataraja. R	Mr. Mallikarjun Mumbar	20-Aug-2022	20-Sep-2022	Take it smart (opc) Pvt Ltd	Embedded system and IOT
69	69	1MV18EC095	SHASHANK R KASHYAP	Mrs. Rajeshwari KN		23-Aug-2022	27-Sept-2022	Sain Informatix Pvt Ltd	Full Stack Web development
70	70	1MV18EC098	SHIVAM SINGH	Mrs. Krishna Priya Sharma	Mr. Nithin K.S.	23-Aug-2022	27-Sept-2022	Sain Informatix Pvt Ltd	Full Stack Web development
71	71	1MV18EC102	SIDHARTH KUMAR PANDEY	Mrs. Krishna Priya Sharma		23-Aug-2022	27-sept-2022	Varcons technology	Full Stack Web development

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CERTIFICATE

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Has successfully completed **Internship** on **"Artificial Intelligence & Machine Learning"** at **Aqmenz Automation Pvt. Ltd.** for a period of one month from 22.08.2022 to 22.09.2022.

CERTIFICATE ISSUE NO: IN / **9830** / FY2022

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CIN: U74999KA2018PTC117612

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CERTIFICATE

OF COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENT TO

Gudikal Sai Vamsi

1MV19EC041

Has successfully completed **Internship** on **"Artificial Intelligence & Machine Learning"** at **Aqmenz Automation Pvt. Ltd.** for a period of one month from 22.08.2022 to 22.09.2022.

CERTIFICATE ISSUE NO: IN / **9826** / FY2022

Mr Mohammed Azhar Hussain
Chief Technology Officer (CTO),
AQMENZ Automation Pvt. Ltd.,
Bengaluru - 560032

www.indoskill.in

AQMENZ Automation Private Limited
Bangalore
560 032

Mr Mohan V S
Chief Executive Officer (CEO),
AQMENZ Automation Pvt. Ltd.,
Bengaluru - 560032

PRATHIKSHA.A
1MV19EC082

Aqmenz Automation Private Limited

CIN: U74999KA2018PTC117612

INDOSKILL
FOR SKILL INDIA

CERTIFICATE

OF COMPLETION

THIS CERTIFICATE IS PROUDLY PRESENT TO

PRATHIKSHA A

1MV19EC082

Has successfully completed **Internship** on " **Machine Learning with Python** "

at **Aqmenz Automation Pvt. Ltd.** for a period of one month from 22.08.2022 to 22.09.2022.

CERTIFICATE ISSUE NO: IN / **9745** / FY2022

Mr Mohammed Azhar Hussain
Chief Technology Officer (CTO),
AQMENZ Automation Pvt. Ltd.,
Bengaluru - 560032

www.indoskill.in

AQMENZ Automation Private Limited
Bangalore
560 032

Mr Mohan V S
Chief Executive Officer (CEO),
AQMENZ Automation Pvt. Ltd.,
Bengaluru - 560032

Poshitha. K. J
1MV19EC079

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TECHNOLOGY | KNOWLEDGE | INNOVATION

INTERNSHIP LETTER

Serial No.: 6361377 **Date: 05-10-2022**

Upon the recommendation of the Academic Council, **Azure Skynet Solutions Pvt. Ltd., Gurgaon** in association with **COSMIC SKILLS EDU LLP** hereby confers **"Poshitha K J"** has successfully completed **Summer Internship** in the field of **"Machine Learning"** from 22nd Aug 2022 to 5 th Oct 2022 under the guidance of **Mr. Ashish Saini.**

At the time of internship, we found her sincere, hardworking and fully devoted. We wish her all the success in future.

Trainer:

Azure Skynet Authority

AZURE SKYNET * AZURE SKYNET *

Contact us: +91-7840042113/47113/48113
Mail: info@azureskynet.com
Website: www.azureskynet.com

Bindhushree.S
1MV19EC025

TEACHNOOK

Bariflolabs

CERTIFICATE
OF INTERNSHIP COMPLETION

Bindhushree S

has successfully completed internship program on Internet of Things
from Bariflolabs in associated with Teachnook from 1/8/2022 to 30/9/2022

During this internship, the student has found to be keen and enthusiastic Candidate.

Certificate ID : 499196555

Date : 21-10-2022

Academic Head

HR-Manager

Verified Certificate

A Verified Certificate from Teachnook can provide a proof for a student or other institution, an employer or other institution, that you have successfully completed an online course

RAHUL.R 1MV19EC087

ಭಾರತ್ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್
भारत इलेक्ट्रॉनिक्स
BHARAT ELECTRONICS
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Skill India
कौशल भारत-कुशल भारत

CENTRE FOR LEARNING AND DEVELOPMENT

BHARAT ELECTRONICS LIMITED
(A Govt. of India Enterprise, Ministry of Defence)
Jalahalli Post, Bengaluru - 560 013, India

Certificate

This is to certify that

Sri./~~Smt~~/~~Kum~~ . RAHUL. R . . . . . .

Ref No. 1410/CLD/HR/2022-23/27/253 . . . . . .

student of . SIR M.VISVESVARAYA INSTITUTE OF . . .

. . . . . TECHNOLOGY,. BENGALURU . . . . . .

carried out ~~Project~~ ~~Work~~/Internship on OVERVIEW OF .

. . . . . CMS . . . . . .

. . . . . .

in . C.M.S . . . . . .

SBU/CSG of BEL, Bengaluru from . 29-08-2022 . . . .

to . 28-09-2022 . . .

He/She was regular and punctual in his/her attendance and his/her conduct was satisfactory during the period.

Project / Internship Guide

Date : 03-10-2022
Place : Bengaluru

Head (HR/CLD)

सुजाता फ्रांसिस
SUJATHA FRANCIS
BCE 206759
प्रबंधक (मा. सं / सी एल डी)
MANAGER (HR/CLD)

1DV19EC098

SACHIN KENCHANA GOWDAR.

ಭಾರತ್ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್
भारत इलेक्ट्रॉनिक्स
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CENTRE FOR LEARNING AND DEVELOPMENT

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Jalahalli Post, Bengaluru - 560 013, India

Certificate

This is to certify that

Sri./~~Smt~~/~~Kum~~ SACHIN . KENCHENA . GOWDA . . . . . .

Ref No. 1410/CLD/HR/2022-23/27/250 . . . . . .

student of SIR. M . VISVESVARAYA . INSTITUTE . OF . . . .

. . . . . TECHNOLOGY ,, BENGALURU . . . . . .

carried out ~~Project~~ ~~Work~~/Internship on OVERVIEW OF .

. . . . . MILITARY . RADAR . . . . . .

. . . . . .

in . MILITARY . RADAR . . . . . .

SBU/CSG of BEL, Bengaluru from 29-08-2022 . . . . .

to . 28-09-2022 . . .

He/She was regular and punctual in his/her attendance and his/her conduct was satisfactory during the period.

Project / Internship Guide

Date : 03-10-2022
Place : Bengaluru

Head (HR/CLD)

सुजाता फ्रांसिस
SUJATHA FRANCIS
BCE 206759
प्रबंधक (मा. सं / सी एल डी)
AGM (HR/CLD)

भारत् इलेक्ट्रानिक्स्
भारत इलेक्ट्रॉनिक्स
BHARAT ELECTRONICS
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Syed Adnan
1MV19EC117.

Skill India
कौशल भारत-कुशल भारत

CENTRE FOR LEARNING AND DEVELOPMENT

BHARAT ELECTRONICS LIMITED
(A Govt. of India Enterprise, Ministry of Defence)
Jalahalli Post, Bengaluru - 560 013, India

Certificate

This is to certify that

Sri./~~Smt~~/~~Kum~~ . SYED . ADNAN . . . . . .

Ref No. 1410/CLD/HR/2022-23/27/252 . . . . . .

student of . SIR . M . VISVESVARAYA . INSTITUTE . OF . .

. . . . . TECHNOLOGY . BENGALURU . . . . . .

carried out ~~Project~~ ~~Work~~/Internship on OVERVIEW . OF .

. . . . . CMS . . . . . .

. . . . . .

in . . CMS . . . . . .

SBU/CSG of BEL, Bengaluru from . 29-.08-.2022 . . . .

to . 28-.09-.2022 . . .

He/She was regular and punctual in his/her attendance and his/her conduct was satisfactory during the period.

Project / Internship Guide

Date : 03-10-2022
Place : Bengaluru

Head (HR/CLD)

सुजाता फ्रांसिस
SUJATHA FRANCIS
BCE 206759
प्रबंधक (मा. सं / सी एल डी)
MANAGER (HR/CLD)

Vivek N Raj
1MV19EC125

BHARAT ELECTRONICS

Skill India
कौशल भारत - कुशल भारत

CENTRE FOR LEARNING AND DEVELOPMENT

BHARAT ELECTRONICS LIMITED
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Jalahalli Post, Bengaluru - 560 013, India

Certificate

This is to certify that

Sri./~~Smt~~/~~Kumi~~ VIVEK N RAJ

Ref No. 1410/CLD/HR/2022-23/27/251

student of SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU

carried out ~~Project~~ ~~Work~~/Internship on OVERVIEW OF MILITARY RADAR

in MILITARY RADAR

SBU/CSG of BEL, Bengaluru from 29-08-2022 *to* 28-09-2022.

He/She was regular and punctual in his/her attendance and his/her conduct was satisfactory during the period.

Project / Internship Guide

Date : 03-10-2022
Place : Bengaluru

Head (HR/CLD)

SUJATHA FRANCIS
SCE 206759
MANAGER (HR/CLD)

भारत इलेक्ट्रॉनिक्स
भारत इलेक्ट्रॉनिक्स
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CENTRE FOR LEARNING AND DEVELOPMENT

BHARAT ELECTRONICS LIMITED
(A Govt. of India Enterprise, Ministry of Defence)
Jalahalli Post, Bengaluru - 560 013, India

MANOJ. P
1MV20EC407

Certificate

This is to certify that

Sri./Smt/Kum MANOJ. P

Ref No. 1410/CLD/HR/2022-23/97/442

student of SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY - BANGALORE

carried out ~~Project Work~~/Internship on OVERVIEW OF MR

in MILIARY RADARS

SBU/CSG of BEL, Bengaluru from 26th Sep. 2022

to 25th Oct 2022 ....

He/~~She~~ was regular and punctual in his/~~her~~ attendance and his/~~her~~ conduct was satisfactory during the period.

Rohan. D. Bhat
Project / Internship Guide

Head (HR/CLD)

Date : 25/10/2022
Place : Bengaluru

V. DEEPASHREE
1MV19EC119

आत्मनिर्भर भारत

ಬಿಇಎಂಎಲ್ ಲಿಮಿಟೆಡ್
बीईएमएल लिमिटेड
BEML LIMITED

Schedule 'A' Company under Ministry of Defence, Govt. of India

Defence & Aerospace | Mining & Construction | Rail & Metro

Ref : EKT/2022/I-33
Dtd : 07.10.2022



INTERNSHIP TRAINING CERTIFICATE

This is to certify that

Miss. V DEEPASHREE (1MV19EC119) BE in (Electronics & Communication Engineering) student of **SIR M Visvesvaraya Institute of Technology Bengaluru,** has undergone **Internship Training** in our Organization at BEML Limited, K.G.F Complex from **03.09.2022 To 03.10.2022**

In the following Divisions

1) Earth Mover Division
2) Hydraulic & Power Line Division

Her Character and Conduct were Good during the above period.

For BEML LIMITED.

(MALATESH G TULAJANNAVARA)
SENIOR MANAGER-TRAINING

ಪ್ರಧಾನ ಕಚೇರಿ / **Corporate Office :**
ಬೆಮೆಲ್ ಸೌಧ, ೨೩/೧, ೪ನೇ ಮುಖ್ಯರಸ್ತೆ, ಸಂಪಂಗಿರಾಮನಗರ,
ಬೆಂಗಳೂರು – ೫೬೦೦೨೭
ದೂರವಾಣಿ ಸಂಖ್ಯೆ : +೯೧ ೮೦೨೨೯೬೩೨೦೦, ೧೮೦೦ ೪೨೫ ೨೩೬೫

BEML Soudha, 23/1, 4th Main, S R Nagar, Bangalore - 560027.
Tel : + 91 80 2296 3200, 1800 425 2365
CIN : L35202KA1964GOI001530, GST No. : 29AAACB8433D1ZU
www.bemliindia.in

ಬಿಇಎಂಎಲ್ ಲಿಮಿಟೆಡ್, ಕೆ.ಜಿ.ಎಫ್ ಸಂಕೀರ್ಣ, ಬಿಇಎಂಎಲ್ ನಗರ,
ಕೋಲಾರ್ ಗೋಲ್ಡ್ ಫೀಲ್ಡ್ಸ್–೫೬೩೧೧೫, ಕರ್ನಾಟಕ, ಭಾರತ
ದೂರವಾಣಿ ಸಂಖ್ಯೆ : ೦೮೧೫೩–೨೬೩೭೭೭, ೨೬೩೨೧೩,
ಫ್ಯಾಕ್ಸ್ : ೦೮೧೫೩–೨೬೩೨೭೪, ೨೬೩೮೮೦

BEML Limited, KGF Complex, BEML Nagar,
Kolar Gold Fields -563115, Karnataka, INDIA
Ph.: 08153-263777, 263213, Fax : 08153-263274, 263880
e-mail : ede@beml.co.in ek@beml.co.in

PUNIT. K.N
1MV19EC083

भारत इलेक्ट्रॉनिक्स
BHARAT ELECTRONICS
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Skill India
कौशल भारत-कुशल भारत

CENTRE FOR LEARNING AND DEVELOPMENT

BHARAT ELECTRONICS LIMITED
(A Govt. of India Enterprise, Ministry of Defence)
Jalahalli Post, Bengaluru - 560 013, India

Certificate

This is to certify that

Sri./Smt/Kum . PUNIT . K . N .....

Ref No. . 1410/CLD/HR/2022-23/27/199 .....

student of SIR . M . VISVESVARAYA . INSTITUTE . OF . . .

. . . . . TECHNOLOGY . . BANGALORE .....

carried out Project Work/Internship on . OVERVIEW . . .

. . . . . OF . . MISSILE . SYSTEM . . ..

.....

in . . MISSILE . SYSTEM .....

SBU/CSG of BEL, Bengaluru from . 24 . . AUG . 2022 . . .

to . . 23 . SEP . . 2022 . . .

He/She was regular and punctual in his/her attendance and his/her conduct was satisfactory during the period.

Rohan. D. Dsouza
Project / Internship Guide

Date : 23-09-2022
Place : Bengaluru

Head (HR/CLD)

MANAGER (HR/CLD)
BHARAT ELECTRONICS LTD
JALAHALLI POST, BANGALORE-560 013

ANJALI KANTHALIYA
1MV19EC012

Compsoft Technologies
Providing a Complete Suite of IT Solutions

Certificate of Internship

This is to certify that **Anjali Kanthaliya** whose USN is **1MV19EC012**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Book Review Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

COMPSOFT TECHNOLOGIES AUTHORIZED SIGNATORY

Nithin K S
Project Manager
Compsoft Technologies
No. 362, 19th main road,
1st Block Rajajinagar
Bangalore - 560010

www.compstechnlogies.com
services@compstechnologies.com

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Ankitha.K.K
1MV19EC013

Compsoft Technologies
Providing a Complete Suite of IT Solutions

Certificate of Internship

This is to certify that **Ankitha K K** whose USN is **1MV19EC013**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Book Review Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

COMPSOFT TECHNOLOGIES AUTHORIZED SIGNATORY

Nithin K S
Project Manager
Compsoft Technologies
No. 36, 10th Sweet road,
1st Block Rajajinagar
Bangalore - 560010

www.compstechnologies.com
services@compstechnologies.com

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Ayush Raj
1MV19EC021

Compsoft Technologies
Providing a Complete Suite of IT Solutions

Certificate of Internship

This is to certify that **Ayush Raj** whose USN is **1MV19EC021**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Website for a Drug Store**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time. To verify this certificate, click here

COMPSOFT TECHNOLOGIES AUTHORIZED SIGNATORY

NithinKS
Project Manager
Compsoft Technologies
No 301, 2nd Mainroad,

www.compstechnologies.com

services@compstechnologies.com 1st Block Rajajinagar

Bangalore - 560010

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Name :- B. Punit Kumar USN :- 1MV19EC022 Section : A 8th Sem

Compsoft Technologies
Providing a Complete Suite of IT Solutions

Certificate of Internship

This is to certify that **B PUNIT KUMAR** whose USN is **1MV19EC022**, has completed their **Machine Learning With Python (Research Based)** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Chatbot for Healthcare System**, as part of the project, they designed the Machine Learning Model, Demonstrated and tested the working of the Model, prepared a report highlighting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time. To verify this certificate, click here

COMPSOFT TECHNOLOGIES AUTHORIZED SIGNATORY

NithinKS
Project Manager
Compsoft Technologies

www.compstechnlogies.com
No.363/12 th mainroad,
services@compstechnologies.com 1st Block Rajajinagar
Bangalore - 560010

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D. H. Gowda
1MV19EC027

Compsoft Technologies
Providing a Complete Suite of IT Solutions

Certificate of Internship

This is to certify that **D H Gowda** whose USN is **1MV19EC027**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Chatbot for Healthcare System**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

COMPSOFT TECHNOLOGIES AUTHORIZED SIGNATORY

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Project Manager
Compsoft Technologies
No. 362, 19th main road,
1st Block Rajajinagar
Bangalore - 560010

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D Manoj Kumar
1MV19EC028

Compsoft Technologies
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Certificate of Internship

This is to certify that **D Manoj Kumar** whose USN is **1MV19EC028**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Chatbot for Healthcare System**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

COMPSOFT TECHNOLOGIES AUTHORIZED SIGNATORY

Nithin K S
Project Manager
Compsoft Technologies
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1st Block Rajajinagar
Bangalore - 560010

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1MV19EC039
Govind Jee

Compsoft Technologies
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Certificate of Internship

This is to certify that **Govind Jee** whose USN is **1MV19EC039**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Book Review Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

COMPSOFT TECHNOLOGIES AUTHORIZED SIGNATORY

Nithin K S
Project Manager
Compsoft Technologies
No. 362, 19th main road,
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1MV19EC043

Compsoft Technologies
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Certificate of Internship

This is to certify that **Harsh Dubey** whose USN is **1MV19EC043**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Website for a Pharmaceutical Company** . This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

COMPSOFT TECHNOLOGIES AUTHORIZED SIGNATORY

Nithin K S
Project Manager
Compsoft Technologies
No. 362, 10th main road,
1st Block Rajajinagar
Bangalore - 560010

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services@compstechnologies.com

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Jaisan
1MV19EC049

Compsoft Technologies
Providing a Complete Suite of IT Solutions

CERTIFICATE OF INTERNSHIP

This is to certify that **Jaisan** whose USN is **1MV19EC049**, has completed their **Full Stack Web Development** Internship organized and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Personal Training Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

COMPSOFT TECHNOLOGIES
AUTHORIZED SIGNATORY

Nithin K S
PROJECT MANAGER
COMPSOFT TECHNOLOGIES
No. 80, 10th cross road,
1st Block Rajajinagar
Bangalore - 560010

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services@compstechnologies.com

This certificate was generated using CERTIEFY.COM

KANHA AGRAWAL
1MV19EC054

Compsoft Technologies
Providing a Complete Suite of IT Solutions

Certificate of Internship

This is to certify that **Kanha Agrawal** whose USN is **1MV19EC054**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Website for a Pharmaceutical Company** . This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

COMPSOFT TECHNOLOGIES AUTHORIZED SIGNATORY

Nithin K S
Project Manager
Compsoft Technologies
No. 362, 19th main road,
1st Block Rajajinagar
Bangalore - 560010

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services@compstechnologies.com

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N.S.Prathveesh
1MV19EC069.

Compsoft Technologies
Providing a Complete Suite of IT Solutions

Certificate of Internship

This is to certify that **N S Prathveesh** whose USN is **1MV19EC069**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Virtual Assistance for Visually Impaired**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

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Nikhil.J
1MV19EC071

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Certificate of Internship

This is to certify that **Nikhil Jeeriganur** whose USN is **1MV19EC071**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies Pvt. Ltd** from **6th February, 2023** to **9th March, 2023**.

The person to whom this certificate is addressed to has worked on a project titled **Template for Farmaholic: A Site to sell seeds,fertilisers and other farming tools online**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Nikitha . S. Reddy
1MV19EC073

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Certificate of Internship

This is to certify that **Nikitha S Reddy** whose USN is **1MV19EC073**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Virtual Assistance for Visually Impaired**. As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Pala Saiteja
1MV19EC074

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Certificate of Internship

This is to certify that **Pala Saiteja** whose USN is **1MV19EC074**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **25th August, 2022** to **29th September, 2022.**

The person to whom this certificate is addressed to has worked on a project titled **Voice Classification using Machine learning**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Panicker Chaitra
1MV19EC075

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CERTIFICATE OF INTERNSHIP

This is to certify that **Panicker Chaitra** whose USN is **1MV19EC075**, has completed their **Front-End Development** Internship organized and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled Template **for Vasavi Medicals Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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RISHAV KUMAR SINGH
1MV19EC093

Compsoft Technologies
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Certificate of Internship

This is to certify that **Rishav Kumar Singh** whose USN is **1MV19EC093**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Website for a Drug Store**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Ritik Kumar singh
1MV19EC094

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Certificate of Internship

This is to certify that **Ritik Kumar Singh** whose USN is **1MV19EC094**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **25th August, 2022** to **29th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Voice Classification using Machine learning**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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ROHINI
1MV19EC096

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Certificate of Internship

This is to certify that **Rohini** whose USN is **1MV19EC096**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **25th August, 2022** to **29th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Voice Classification using Machine learning**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Shiwangi Singh
IMV19EC104

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Certificate of Internship

This is to certify that **Shiwangi Singh** whose USN is **IMV19EC104**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies** from 23rd August, 2022 to 27th September, 2022.

The person to whom this certificate is addressed to has worked on a project titled **Template- Website for a Drug Store**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Srijay Ganguly
1MV19EC111

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Certificate of Internship

This is to certify that **Srijay Ganguly** whose USN is **1MV19EC111**, has completed their **Full Stack Web Development** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Website for a Drug Store**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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SUDESH S. GAONKAR
1MV19EC113

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Certificate of Internship

This is to certify that **Sudesh S Gaonkar** whose USN is **1MV19EC113**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Chatbot for Healthcare System**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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SUDESH S. GAONKAR
1MV19EC113

Vidya S.
1MV19EC121

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CERTIFICATE OF INTERNSHIP

This is to certify that **Vidya S** whose USN is **1MV19EC121**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **25th August, 2022** to **29th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Virtual assistant for visually impaired**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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1MV19EC005
ADITYA SINGH

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Certificate of Internship

This is to certify that **Aditya Singh** whose USN is **1MV19EC005**, has completed their **Machine Learning with Python (Research Based)** Internship organised and handled by **company** from **25th August, 2022** to **29th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Voice Classification Using ML**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Name: Dhananjaya Miththanthaya
USN: 1MV19EC033

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Certificate of Internship

This is to certify that **Dhananjaya Miththanthaya** whose USN is **1MV19EC033**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **25th August, 2022** to **29th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Virtual assistant for visually impaired**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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1MV19EC003
Adarsh. C. Hegde

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CERTIFICATE OF INTERNSHIP

This is to certify that **Adarsh C Hegde** whose USN is **1MV19EC003**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Virtual Assistance for Visually Impaired**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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GANESH HEGDE
1MV19EC038

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Certificate of Internship

This is to certify that **Ganesh Hegde** whose USN is **1MV19EC038**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022.**

The person to whom this certificate is addressed to has worked on a project titled **Virtual Assistance for Visually Impaired**. As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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CERTIFICATE OF INTERNSHIP

This is to certify that **Punya P** whose USN is **1MV19EC084**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **25th August, 2022** to **29th September, 2022.**

The person to whom this certificate is addressed to has worked on a project titled **Virtual assistant for visually impaired**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Pushpanjali. A.V.
1MV19EC085

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Certificate of Internship

This is to certify that **Pushpanjali A V** whose USN is **1MV19EC085**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **25th August, 2022** to **29th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Virtual assistant for visually impaired**. As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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1MV19EC002
Abhishek S Masgal

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Certificate of Internship

This is to certify that **Abhishek S Masgal** whose USN is **1MV19EC002**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Compsoft Technologies** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Chatbot for Healthcare System**. As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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1MV19EC053
Kandanoolu Kowshika Reddy

CONTRIVER

INTERNSHIP CERTIFICATE

This is to certify that

KANDANOOLU KOWSHIKA REDDY

has undergone a 30 days internship training programme from 23/08/2022 to 25/10/2022.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Avinash Kundu and the grade awarded to the intern for the internship project is

S

Sanjay B
Chief Executive Officer

Ministry of MSME, Govt. of India

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1MV19EC058
Kannada K.M.UDHITH RAJU

CONTRIVER

INTERNSHIP CERTIFICATE

This is to certify that

KM UDHITH RAJU

has undergone a 30 days internship training programme from 23/08/2022 to 25/10/2022.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Avinash Kundu and the grade awarded to the intern for the internship project is

S

Sanjay B
Chief Executive Officer

Ministry of MSME, Govt. of India

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1MV19EC088
RAVI VARMA.K

CONTRIVER

INTERNSHIP CERTIFICATE

This is to certify that

RAVI VARMA K

has undergone a 30 days internship training programme from 23/08/2022 to 25/10/2022.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Avinash Kundu and the grade awarded to the intern for the internship project is

A+

Sanjay B
Chief Executive Officer

Ministry of MSME, Govt. of India

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1MV19ECO09
S.K. Puneeth

CONTRIVER

INTERNSHIP CERTIFICATE

This is to certify that

S K PUNEETH

has undergone a 30 days internship training programme from 23/08/2022 to 25/10/2022.

In the department of Programming and Development Contriver, Bengaluru. Under the guidance of Avinash Kundu and the grade awarded to the intern for the internship project is

A+

Sanjay B
Chief Executive Officer

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RISHABH VERMA 1MV19EC092

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BANGALORE, Bengaluru (Bangalore) Urban, Karnataka, 560037

Certificate of Experience

This is to certify that "**Rishabh Verma**" has completed his internship at Flam from **30 Aug '22 to 05 Jan '23** as a "**Data Engineering Intern**" under the supervision of Praleed Suvarna, Head of Data Engineering, Flam

We have found him to be a self-starter who is motivated, duty bound and hardworking. His performance during the internship was excellent.

We wish him all the best for future endeavors.

For FLYING FLAMINGOS INDIA PRIVATE LIMITED

DocuSigned by:
Jesaanto Reny Edwin
53C012834926484...

Jesaanto Reny Edwin
Human Resources Lead
24 Mar'23

IMV19EC037

बैरकपुर प्रभाग
हिन्दुस्तान एरोनाटिक्स लिमिटेड
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BARRACKPORE DIVISION
HINDUSTAN AERONAUTICS LIMITED
P.O. Barrackpore, Kolkata - 700120, India
Ph. / [illegible]: 91 33 2592 0157

HAL/BKP/HR INDUSTRIAL TRG/2022/699

08/10/2022

TO WHOM IT MAY CONCERN

This is to certify that **DISHANT BANIK** student of BE in Electronics & Communication Engineering from SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY, BENGALURU has successfully completed 4 weeks of Internship Training at our Organization on the topic "COMMUNICATION SYSTEMS AND RADIO INSTRUMENTS OF CHEETAH AND CHETAK HELICOPTERS" from 09/09/2022 to 08.10.2022.

We wish him all success in life.

(Samit Roy)
Manager (Training)

समीत राय
प्रबंधक (प्रशिक्षण)
Samit Roy
Manager (Training)
एच.ए.एल, बैरकपुर प्रभाग
HAL, Barrackpore Division

To
DISHANT BANIK
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Department of Electronics &
Communication Engineering
Bengaluru-562157, Karnataka.

हिंदुस्तान एरोनाटिक्स लिमिटेड HINDUSTAN AERONAUTICS LIMITED BARRACKPORE DIVISION बैरकपुर प्रभाग

Name: Sonal Jha.
USN: 1MV19ECI06
ECE 'B'

Harmonizer
Clarity Everywhere

Certificate of Internship

This is to Certify that
Sonal Jha,
6th Semester-ECE at sir.MVIT
has attended the Internship program conducted by Harmonizer India Pvt Ltd.,

Method to detect, measure, analyze Temperature, Vibration of Electric motor using IIoT and Machine Learning technologies

21st Aug – 20th Sept 2022

M.R.Srinivas - CTO

1MV19EC090 Rishabh Jain

innovation.creation

Certificate Of Internship

This is to certify that RISHABH JAIN(1MV19EC090), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website. This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

internship@icsoln.com www.icsoln.com 721 JP Nagar 7th Phase, Bengaluru 560078

Web Development • Digital Marketing • Branding
Graphic Designing • Video Editing/Animation

1MV19EC007
Akshay Myakeri

innovation.creation

Certificate Of Internship

This is to certify that Akshay Myakeri(1MV19EC007), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website. This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

internship@icsoln.com www.icsoln.com 721 JP Nagar 7th Phase, Bengaluru 560078

Web Development • Digital Marketing • Branding
Graphic Designing • Video Editing/Animation

1MV19EC024
BHAVANA.U

innovation.creation

Date- 19/10/2022

Certificate Of Internship

This is to certify that BHAVANA U (1MV19EC024), has completed their Machine Learning With Python Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled Social Media Sentiment Analysis. They designed the Machine Learning model, demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and Specifications that were provided.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

Kartik Kesharwani
1MV19EC055

innovation.creation

Certificate Of Internship

This is to certify that Kartik Kesharwani (1MV19EC055), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website. This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

internship@icsoln.com www.icsoln.com 721 JP Nagar 7th Phase, Bengaluru 560078

Web Development • Digital Marketing • Branding
Graphic Designing • Video Editing/Animation

1MV20EC400

innovation.creation

Certificate Of Internship

This is to certify that Ashok Kumar G (1MV20EC400), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website. This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

1MV20EC400

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

081

innovation.creation

Certificate Of Internship

This is to certify that Prashant Kumar (1MV19EC081), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website. This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

+91 99571 71355 www.icsoln.com 721 JP Nagar 7th Phase, Bengaluru 560078

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Graphic Designing • Video Editing/Animation

1MV19EC102, Shaik Areef

CERTIFICATE FROM THE COMPANY

innovation.creation

Date- 19/10/2022

Certificate Of Internship

This is to certify that shaik areef (1MV19EC102), has completed their Machine Learning With Python Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled Algorithm for predicting the risks of Chronic diseases. They designed the Machine Learning model, demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and Specifications that were provided.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

internship@icsoln.com www.icsoln.com 721 JP Nagar 7th Phase, Bengaluru 560078

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Graphic Designing • Video Editing/Animation

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Spoorthi P.K
1MV19EC109

Date- 19/10/2022

Certificate Of Internship

This is to certify that Spoorthi P K (1MV19EC109), has completed their Machine Learning With Python Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled Algorithm for predicting the risks of Chronic diseases. They designed the Machine Learning model, demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and Specifications that were provided.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

internship@icsoln.com www.icsoln.com 721 JP Nagar 7th Phase, Bengaluru 560078

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Graphic Designing • Video Editing/Animation

innovation.creation

VINUTHA.H
1MV19EC124

Date- 19/10/2022

Certificate Of Internship

This is to certify that Vinutha H (1MV19EC124), has completed their Machine Learning With Python Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled Social Media Sentiment Analysis. They designed the Machine Learning model, demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and Specifications that were provided.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

1MV19EC031

Indian Tech-Keys

Born To Innovate

11, R M N Towers, Near SVR Metro Station, Bengaluru-560 038.
11, R M N Towers, Near SVR Metro Station, Bengaluru-560 038.
www.indiantechkeys.com +91 95385 05796

TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Devika A (1MV19EC031)** student of **Sir M. Visvesvaraya Institute of Technology, Bengaluru** has successfuly completed Internship at **"ITK Innovation Centre", Bengaluru, KA-India** during the period from 01-09-2022 to 30-09-2022.

Her performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development.** Project during the Internship was demonstrating her desire to learn and critical thinking towards the problem solving in product development for various applications.

INDIAN TECH KEYS BANGALORE

Kotresh Mundrugi

Director

Indian Tech-Keys.

Devika. A

1MV19EC031

1MV19EC032

Indian Tech-Keys

Born To Innovate

11, R M N Towers, Near SVR Metro Station, Bengaluru-560 038.

www.indiantechkeys.com +919538505796

TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Devika S G (1MV19EC032)** student of **Sir M. Visvesvaraya Institute of Technology, Bengaluru** has successfuly completed Internship at **"ITK Innovation Centre", Bengaluru, KA-India** during the period from 01-09-2022 to 30-09-2022.

Her performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development.** Project during the Internship was demonstrating her desire to learn and critical thinking towards the problem solving in product development for various applications.

INDIAN TECH KEYS BANGALORE

Kotresh Mundrugi

Director

Indian Tech-Keys.

Devika S G
1MV19EC032

1MV19EC056
Kavana.T.U.

Indian Tech-Keys

Born To Innovate

11, R M N Towers, Near SVR Metro Station, Bengaluru-560 038.

www.indiantechkeys.com +919538505796

TO WHOMSOVER IT MAY CONCERN

This is to certify that **Ms. Kavana T U (1MV19EC056)** student of **Sir M. Visvesvaraya Institute of Technology, Bengaluru** has successfuly completed Internship at **"ITK Innovation Centre", Bengaluru, KA-India** during the period from 01-09-2022 to 30-09-2022.

Her performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development.** Project during the Internship was demonstrating her desire to learn and critical thinking towards the problem solving in product development for various applications.

Kotresh M

Kotresh Mundrugi

Director

Indian Tech-Keys.

Anubhav Jha - 1MV19EC014
18/04/2023

innovation.creation

Certificate Of Internship

This is to certify that Anubhav Jha (1MV19EC014), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 25th August, 2022 to 29th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

internship@icsoln.com www.icsoln.com 721 JP Nagar 7th Phase, Bengaluru 560078

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1MV19EC018

Certificate Of Internship

This is to certify that Aryan Dixit (1MV19EC018), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 25th August, 2022 to 29th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Aryan Dixit
1MV19EC018

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

internship@icsoln.com www.icsoln.com 721 JP Nagar 7th Phase, Bengaluru 560078

Bhaskar Jaiswal
1MV19.EC023

innovation.creation

Certificate Of Internship

This is to certify that Bhaskar Jaiswal (1MV19EC023), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website. This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

DHEERAJ KUMAR
1MV19EC034

innovation.creation

Certificate Of Internship

This is to certify that DHEERAJ KUMAR (1MV19EC034), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 25th August, 2022 to 29th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

1MV19EC047

innovation.creation

Certificate Of Internship

This is to certify that ISHU SINGH (1MV19EC047), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 25th August, 2022 to 29th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

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1MV19EC051

innovation.creation

Date- 19/10/2022

Certificate Of Internship

This is to certify that Kacharagdla Deepthi(1MV19EC051), has completed their Machine Learning With Python Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled Algorithm for predicting the risks of Chronic diseases. They designed the Machine Learning model, demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and Specifications that were provided.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

innovation.creation

Lokesh Kumar
1MV19EC063

Certificate Of Internship

This is to certify that Lokesh kumar (1MV19EC063), has completed their Full Stack Web Development Internship organised and handled by IC Solutions from 23rd August, 2022 to 27th September,2022.

The person to whom this certificate is addressed to has worked on a project titled IC Events-An Event Scheduler Website. This project was aimed at creating fully-fledged functional web template(s). As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Anurag Patwary
(Product Manager)

Ganesh G
(Human Resources Manager)

+91 99571 71355 www.icsoln.com 721 JP Nagar 7th Phase, Bengaluru 560078

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DISHA GANDHI
1MV19EC036

MS/DI/INT/2021-0468

aceic™ Design Partner

MAVEN SILICON Centre of Excellence in VLSI

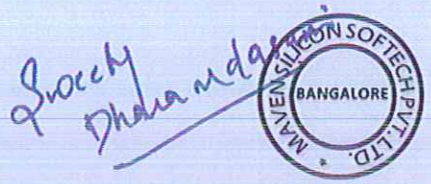
TO WHOMSOEVER IT MAY CONCERN

This is to certify that Disha Gandhi, a student of B.E ECE, 2023, Sir M Visvesvaraya Institute of Technology, VTU Karnataka has successfully completed her Online VLSI Design Internship Program from 14-September-2022 to 28-October-2022.

During her internship program with us, she worked on the below mentioned project.
AHB2APB bridge design using Verilog HDL.

We wish her all the best in her future endeavors.

For Maven Silicon Softech Ltd.



Sweety Dharamdasani
Head - Learning & Development

Place: Bangalore
Date: 16th Nov 2022

Maven Silicon Softech Pvt Ltd.,
Registered office : # 21/1A, III Floor, Marudhar Avenue, Gottigere, Uttarahalli Hobli, South Taluk
Bannerghatta Road, Bangalore - 560076
CIN No.:U72200KA2010PTC052736 Phone : +91 7406709555 Email : hr@maven-silicon.com www.maven-silicon.com

1MV19EC050

ORNO

CERTIFICATE OF INTERNSHIP

This is to certify that Ms. K. S. BHAVISHYA, student of Sir M. Visvesvaraya Institute of Technology has completed internship program on Long Range RFID Detection at our company as an Intern from 22- 08-2022 until 22-09-2022.

She was regular and punctual in her attendance and her performance was satisfactory during the tenure.

We wish her all the best for her future endeavors.

Signed by

ORNO TECHNOLOGIES PVT. LTD. Bangalore-82

M. RAMESH KUMAR
CEO

1MV19EC048

ORNO

CERTIFICATE OF INTERNSHIP

This is to certify that Mr. **Isukapalli Sai KrishnaChaithanya**, student of **Sir M. Visvesvaraya Institute of Technology** has completed internship program on **Long Range RFID Detection** at our company as an Intern from **22- 08-2022** until **22-09-2022**.

He was regular and punctual in his attendance and his performance was satisfactory during the tenure.

We wish him all the best for future endeavors.

Signed by

M. RAMESH KUMAR
CEO

HARINI SAMPATH
1MV19EC042

ORNO

CERTIFICATE OF INTERNSHIP

This is to certify that Ms. Harini Sampath, student of Sir M. Visvesvaraya Institute of Technology has completed internship program on Long Range RFID Detection at our company as an Intern from 22- 08-2022 until 22-09-2022.

She was regular and punctual in her attendance and her performance was satisfactory during the tenure.

We wish her all the best for her future endeavors.

Signed by

M. RAMESH KUMAR
CEO

Sudarsh Tandon
1MV19EC112

PIE INFOCOMM

ISO CERTIFIED Registration no. UPSA28727715

CERTIFICATE OF COMPLETION

This internship certificate for brilliant and consistent high standards of workmanship signed this day by the duly authorized officers is proudly presented to

Mr/Ms. Sudarsh Tandon

For the successful completion of internship in

Web Development

under Pie Infocomm Private Limited from 20th August, 2022 to 20th September, 2022. It led to the completion of Project titled "Portfolio Website"



Vijay Kumar Jaiswal
(Director)

1MV19EC011
Aman Shanti

PIXAFLIP
TECHNOLOGIES

CIN- U80904PN2019PTC181924
+91 8208674156
contact@pixaflip.in
C-804, Sarang, Nanded City,
Pune - 41

Internship Certificate

TO WHOMSOEVER IT MAY CONCERN

Date: 30/09/2022

This is to certify that **Mr. Aman Shanti** pursuing **BE** from **Sir M Visvesvaraya Institute of Technology Bangalore** is working as an **Web Developement Intern** at Pixaflip Technologies from 22nd August 2022 till date.

During this period, he has worked on designing and maintaining frontend and backend execution associated with Pixaflip Technologies' various projects. his performance during this tenure was outstanding.

We wish them all the very best for journey forward and looking forward on another collaboration on a long term basis.

Saudagar Barde
CEO

USN — 1MV19EC114

PIXAFLIP
TECHNOLOGIES

CIN- U80904PN2019PTC181924
+91 8208674156
contact@pixaflip.in
C-804, Sarang, Nanded City,
Pune - 41

Internship Certificate

TO WHOMSOEVER IT MAY CONCERN

Date: 30/09/2022

This is to certify that **Ms. Suhani** pursuing **BE** from **Sir M Visvesvaraya Institute of Technology Bangalore** is working as an **Web Developement Intern** at Pixaflip Technologies from 22nd August 2022 till date.

During this period, she has worked on designing and maintaining frontend and backend execution associated with Pixaflip Technologies' various projects. Her performance during this tenure was outstanding.

We wish her all the very best for journey forward and looking forward on another collaboration on a long term basis.

Saudagar Barde
CEO

Suhani
1MV19EC114

CERTIFICATE CODE: PSEML2593

Sreekant Reddy
1MV19EC076

Prinston Smart Engineers

Engineering, Maintenance & Training Services

AWARD

Internship Certificate

This Certificate is proudly presented to

P.Sreekanthreddy

For successful completion of internship in **"Machine Learning"** with Grade **"A"** from **August 20th to September 20th 2022.**

Usn : 1MV19EC076

College: SIR MVIT

Mode of Internship: Offline

Certificate of Excellence

ISO 9001:2015

Ministry of Micro, Small and Medium Enterprises, Government of India

MSME MICRO, SMALL & MEDIUM ENTERPRISES

UDYAM – DL-08-0031663

PRINSTON SMART ENGINEERS New Delhi

Authorized Signatory

info@prinstonsmart.com

www.prinstonsmart.com

1MV19EC035

VproTech digital

Ref No: VTD/2M/6M/22/830

Date: 14/03/2023

To

The Director
Training & Placement Officer,
Sir M. Visvesvaraya Institute of technology Banglore

Subject: Confirmation (NOC) for 1 month Industrial Training in Web development

Dear Sir/Madam,

We feel pleasure to acquaint with our company VproTech Digital, An ISO Certified Company, as pioneer in the field of Software Development & Industrial Internship. Our Company involves in Software Development, Web Designing, Industrial Training in Production and Manufacturing unit, On Site Training Corporate Training, Consulting and Promoting outstanding products of various companies. We have substantial experience in Analyzing, Designing, Developing, Testing, Implementing and Supporting projects.

We VproTech Digital confirm training of Mr. /Ms Dipanjan Samadder University Roll No. 1MV19EC035 of ECE branch in our esteemed organization and as per rule we are provide the No Objection Certificate for 1 month Industrial Training in our premises. His/her training will be starting from 22 Aug 2022

Our endeavor will be to impart & enhance knowledge of the student.

Thanks & Regards

Ms. Mamta Panwar
HR
8146759497

Certificate

VproTech digital

Certificate Of Training

Ref. No. VPRO/IM/22/830

This Certificate of Training is Presented To Dipanjan Samaddar

S/o/ D/o Gopal Samaddar of Sir M. Visvesvaraya Institute of technology, Banglore

has Successfully completed his/her training on Web development

from 22 Aug 2022 to 26 Sep 2022 During the tenure of the above Course, We found him/her a hardworking.

Jyoti
Training Incharge

Director

vprotechhead@gmail.com

www.vprotechdigital.com

Scan QR code to verify

Arpit Kabra
1MV19EC017.

SAIN INFORMATIX

Certificate of Internship

This is to certify that **ARPIT KABRA** whose USN is **1MV19EC017**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022.**

The person to whom this certificate is addressed to has worked on a project titled **Watsonisite- Information about Crypto Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Informatix Private Limited Bangalore

Nandini S
HR Manager

To verify this certificate, click here

Sain Informatix Pvt Ltd
1122, Cellar Floor, Service Road
Hampi Nagar, Bengaluru

www.saininformatix.tech
info@saininformatix.tech

This certificate was generated using CERTIEFY.COM

Ritika Sudhir Mishra
1MV19EC095

SAIN INFORMATIX

Certificate of Internship

This is to certify that **Ritika Sudhir Mishra** whose USN is **1MV19EC095**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Watsonisite- Information about Crypto Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

Sain Informatix Private Limited Bangalore

Nandini S
HR MANAGER

Sain Informatix Pvt Ltd
1122, Cellar Floor, Service Road
Hampi Nagar, Bengaluru

www.saininformatix.tech
info@saininformatix.tech

This certificate was generated using CERTIEFY.COM

1MV19EC105

Certificate of Internship

This is to certify that **Shraddha V Goudar** whose USN is **1MV19EC105**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Watsonisite- Information about Crypto Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

Sain Informatix Private Limited Bangalore

Nandini S
HR MANAGER

Sain Informatix Pvt Ltd
1122, Cellar Floor, Service Road
Hampi Nagar, Bengaluru

www.saininformatix.tech
info@saininformatix.tech

This certificate was generated using CERTIEFY.COM

SRICHARAN R IYENGAR
1MV19EC110

SAIN INFORMATIX

Certificate of Internship

This is to certify that **Sricharan R Iyengar** whose USN is **1MV19EC110**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Watsonisite- Information about Crypto Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

Informatix Private Limited Bangalore

Nandini S
HR MANAGER

SAIN INFORMATIX PVT LTD
1122, Cellar Floor, Service Road
Hampi Nagar, Bengaluru

www.saininformatix.tech
info@saininformatix.tech

This certificate was generated using CERTIEFY.COM

Shashank K. R. Kashyap
1MV18EC095

SAIN INFORMATIX

Certificate of Internship

This is to certify that **Shashank R Kashyap** whose USN is **1MV18EC095**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix** from **23rd August, 2022** to **27th September, 2022.**

The person to whom this certificate is addressed to has worked on a project titled **Template-Online-resume-creator**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

Informatix Private Limited Bangalore

NandiniS
HR Manager
Sain Informatix
1122, Cellar Floor, Service Road

To verify this certificate, click here

www.saininformatix.tech
info@saininformatix.tech

1MV19EC009
Aman Gupta

SAIN INFORMATIX

Certificate of Internship

This is to certify that **Aman Gupta** whose USN is **1MV19EC009**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Blind Assist- Object Detection and Navigation using ML**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Sain Informatix Private Limited Bangalore

Nandini S
HR. MANAGER
SAIN INFORMATIX PVT LTD
1122, Cellar Floor, Service Road
Hampi Nagar, Bengaluru

www.saininformatix.tech
info@saininformatix.tech

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HARSHITA
SRIVASTAVA
1MV19EC045

SAIN INFORMATIX

Certificate of Internship

This is to certify that **Harshita Srivastava** whose USN is **1MV19EC045**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Crackre for IELTS Training**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Informatix Private Limited Bangalore

Nandini S
HR. MANAGER

Sain Informatix Pvt Ltd
1122, Cellar Floor, Service Road
Hampi Nagar, Bengaluru

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info@saininformatix.tech

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1MV19EC052

SAIN INFORMATIX

Certificate of Internship

This is to certify that **Kalyankumar Y M** whose USN is **1MV19EC052**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Watsonisite- Information about Crypto Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Informatix Private Limited Bangalore

Vrandini S

HR MANAGER

SAIN INFORMATIX PVT LTD

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Hampi Nagar, Bengaluru

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info@saininformatix.tech

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N·B·VIDHYASHREE
1MV19EC068

SAIN INFORMATIX

Certificate of Internship

This is to certify that **N B Vidhyashree** whose USN is **1MV19EC068**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Watsonisite- Information about Crypto Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

Sain Informatix Private Limited Bangalore

Nandini S
HR MANAGER

Sain Informatix Pvt Ltd
1122, Cellar Floor, Service Road
Hampi Nagar, Bengaluru

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info@saininformatix.tech

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Varshini N.S.
1MV19EC120

SAIN INFORMATIX

Certificate of Internship

This is to certify that **Varshini N S** whose USN is **1MV19EC120**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Watsonisite- Information about Crypto Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Sain Informatix Private Limited Bangalore

Nandini S
HR MANAGER
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1122, Cellar Floor, Service Road
Hampi Nagar, Bengaluru

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info@saininformatix.tech

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Supriyo Sadhukha
1MV19EC116

CERTIFICATE FROM THE INDUSTRY

SAIN INFORMATIX

CERTIFICATE OF INTERNSHIP

This is to certify that **Supriyo Sadhukha** whose USN is **1MV19EC116**, has completed their **Full Stack Web Development** Internship organised and handled by **Sain Informatix Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Watsonisite- Information about Crypto Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Informatix Private Limited Bangalore Vinandini Vijay

HR MANAGER

SAIN INFORMATIX PVT LTD

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ISO 9001 :2015

IMV19EC059
KODATALA YASWANTH REDDY

Internship Certificate

This Certifies that

KODATALA YASWANTH REDDY

Student of SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Has completed Internship in Machine Learning

From 20th August 2022 to 20th September 2022

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

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Mallikarjun Kumbar
Director

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ISO 9001 :2015

1MV19EC061

Internship Certificate

This Certifies that

KONDURU KAPIL RAJU

Student of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY**

Has completed Internship in **Machine Learning Using Python**

From **20th August 2022 to 19th September 2022**

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

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1MV19EC061 Konduru Kapil Raju

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ISO 9001 :2015

1MV20EC402

Internship Certificate

This Certifies that

GAGANGOWDA K M

Student of **SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY**

Has completed Internship in **Embedded System and IoT**

From **20th August 2022 to 20th September 2022**

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

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Director

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1MV20EC403

Internship Certificate

This Certifies that

KIRAN K N USN: 1MV20EC403

Student of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY**

Has completed Internship in **Embedded System and IoT**

From **20th August 2022 to 20th September 2022**

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

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Mallikarjun Kumbar
Director

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ISO 9001 :2015

NAME :- Y. JAYA SUPREETH REDDY

USN :- 1MV19EC126

Internship Certificate

This Certifies that

Y JAYA SUPREETH REDDY

Student of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY**

Has completed Internship in **Machine Learning Using Python**

From **20th August 2022 to 19th September 2022**

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

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Mallikarjun Kumbar
Director

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Internship Certificate

This Certifies that

DWARAKESH YERRAMCHETTY

Student of SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Has completed Internship in Machine Learning

From 20th August 2022 to 20th September 2022

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

Y. Dwarakesh
1MV19EC127

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Reg No. : 150027

ISO 9001 :2015

Manasa G B
1MV20EC406

Internship Certificate

This Certifies that

MANASA G B

Student of SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Has completed Internship in Embedded System and IoT

From 20th August 2022 to 20th September 2022

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

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Director

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ISO 9001 :2015

Internship Certificate

This Certifies that

SADDAM HUSEN

Student of SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Has completed Internship in Embedded System and IoT

From 21st August 2022 to 21st September 2022

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

Saddam husen
1MV20EC408

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Mallikarjun Kumbar
Director

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ISO 9001 :2015

Internship Certificate

This Certifies that

VIKAS M

Student of SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Has completed Internship in Embedded System and IoT

From 20th August 2022 to 20th September 2022

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

Vikas M
1MV20EC410

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Mallikarjun Kumbar
Director

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SANTHOSHA K S 1MV19EC101

CERTIFICATE FROM THE INDUSTRY

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Internship Certificate

This Certifies that

SANTHOSHA K S

Student of SIR M VISVESRAYA INSTITUTE OF TECHNOLOGY

Has completed Internship in Embedded System

From 20th August 2022 to 20th September 2022

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

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Mallikarjun Kumbar
Director

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Reg No. : 150027

ISO 9001 :2015

Vikram S. Bhat
1MV19EC122.

Internship Certificate

This Certifies that

VIKRAM S BHAT

Student of Sir M Visvesvaraya Institute of technology

Has completed Internship in Embedded System and IoT

From 20th August 2022 to 19th September 2022

we found him/her sincere, Hardworking, Dedicated and Result oriented, She/he Worked well as Part of the team during his/her tenure. We take this opportunity to thank him / her And Wish him / her all the best for him / her future.

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Mallikarjun Kumbar
Director

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Shubhra Dixit
1MV19EC107



INTERNSHIP CERTIFICATE

Dated: 10th March 2023

This is to certify that **Shubhra Dixit**, a student of **Sir M Visvesarya Institute of Technology, Bangalore** (Batch) 2019-2023 has successfully completed Internship from 21st August 2022 to 18th September 2022.

She interned as part of the six month long **UpCurve** program and worked on building a minimum viable product **"CLICKSTREAM Data Pipeline for Digital Engagement and Effectiveness"**

During the internship, we found Shubhra's conduct satisfactory.

We wish Shubhra success in her future endeavors.

Human Resources
Target Corporation India Pvt. Ltd.

1MV19EC060
Komal Priya



INTERNSHIP CERTIFICATE

Dated: 10th March 2023

This is to certify that **Komal Priya**, a student of **Sir M Visvesarya Institute of Technology, Bangalore** (Batch) 2019-2023 has successfully completed Internship from 21st August 2022 to 18th September 2022.

She interned as part of the six month long **UpCurve** program and worked on building a minimum viable product **"PickUp Elevator"** which enables the guest to pick their orders from the elevators directly without reaching out to the Guest Contact centers at Store.

During the internship, we found Komal's conduct satisfactory.

We wish Komal success in her future endeavors.

Human Resources
Target Corporation India Pvt. Ltd.

Name :- Debanjal Guha
USN :- 1MV19EC029

Prashikshan -2021

SHAVAK NANAVATI TECHNICAL INSTITUTE

An ISO 9001:2015 Organization

CERTIFICATE

This is to certify that DEBANJAL GUHA (Reg. No. VT20222993),

Student of *SIR M VISVESVARAYA INSTITUTEOF TECHNOLOGY*,

has undergone Vocational Training Program at Tata Steel Ltd., Jamshedpur from **22-August ,2022** *to* **17-October ,2022** *. The details of the programme are as under:*

Department Covered	**WEB DEVELOPMENT USING PYTHON DJANGO**
Project Title	**RAILWAY RESERVATION SYSTEM**

He/She has successfully completed the Programme

Ammi kumari

Place : **Jamshedpur**
Date : **15-05-2023**
Ref No : **VT20222993**

Coordinator
Vocational Training
Internship
Tata Steel Ltd

SHAVAK NANAVATI TECHNICAL INSTITUTE, TATA STEEL LTD, N-ROAD, BISTUPUR, JAMSHEDPUR – 831001,
Telephone: 91-657-2320243, Fax: 91-657-2320243, E-mail- snit.office@tatasteel.com

1MV19EC046

Varcons Technologies Pvt Ltd

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Certificate of Internship

This is to certify that **Himanshu Kumar Gupta** whose USN is **1MV19EC046**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- A website to sell Caffeine**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

VARCONS TECHNOLOGIES Pvt Ltd AUTHORIZED SIGNATORY

Spoorthi C.
DIRECTOR
VARCONS TECHNLOGOIES PVT LTD

213, 2nd Floor
18 M G Road, Ulsoor, Bangalore-560001

www.varconstech.com
contact@varconstech.com

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(KISHAN KUMAR
1MV19EC057)

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Certificate of Internship

This is to certify that **Kishan Kumar** whose USN is **1MV19EC057**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022.**

The person to whom this certificate is addressed to has worked on a project titled **Template- To Check ticket availability**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

To verify this certificate, CLICK HERE

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Spoorthi C.
DIRECTOR
VARCONS TECHNLOGOIES PVT LTD
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18 M G Road, Ulsoor, Bangalore-560001

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contact@varconstech.com

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Kushal Sehrawat
1MV19EC062

Varcons Technologies Pvt Ltd
Communicate. Collaborate. Create

Certificate of Internship

This is to certify that **Kushal Sehrawat** whose USN is **1MV19EC062**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- A website to sell Caffeine**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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AUTHORIZED SIGNATORY

Vspoorthi C
DIRECTOR
VARCONS TECHNOLOGOIES PVT LTD
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18 M G Road, Ulsoor, Bangalore-560001

www.varconstech.com
contact@varconstech.com

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Shashank G Naik - 1MV19EC103.

Varcons Technologies Pvt Ltd
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Certificate of Internship

This is to certify that **Shashank G Naik** whose USN is **1MV19EC103**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template for Online Strength training Center**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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VARCONS TECHNOLOGIES Pvt Ltd
AUTHORIZED SIGNATORY

Spoorthi C.
DIRECTOR

VARCONS TECHNOLOGIES PVT LTD
21...
18 M G Road, Ulsoor, Bangalore-560001

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contact@varconstech.com

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1MV19EC123
Vinay K.V.

Varcons Technologies Pvt Ltd

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CERTIFICATE OF INTERNSHIP

This is to certify that **Vinay KV** whose USN is **1MV19EC123**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template for Online Strength training Center**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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AUTHORIZED SIGNATORY

Spoorthi C
DIRECTOR
VARCONS TECHNLOGOIES PVT LTD

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18 M G Road, Ulsoor, Bangalore-560001

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This is to certify that **Abdul Aleem** whose USN is **1MV19EC001**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template for Online Strength training Center**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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1MV19EC006
Akash Awasthi

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This is to certify that **Akash Awasthi** whose USN is **1MV19EC006**, has completed their **Machine Learning With Python(Research Based)** Internship organized and handled by **Varcons Technologies Pvt Ltd** from **23rdAugust, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Stockport ? Predictive Sentiment Analysis**, as part of the project, they designed the Machine Learning Model, Demonstrated and tested the working of the Model, prepared a report highlighting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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This is to certify that **Alok Kumar** whose USN is **1MV19EC008**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- To Check ticket availability**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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ARNAB CHAKRABORTY
1MV19EC016

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Certificate of Internship

This is to certify that **Arnab Chakraborty** whose USN is **1MV19EC016**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Photography Website** . This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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CHUDESH VANNY.V.
1MV19EC026

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This is to certify that **Chudesh Vanny V** whose USN is **1MV19EC026**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template for Online Strength training Center**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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This is to certify that **Madhusudhan Gk** whose USN is **1MV19EC064**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template for Online Yoga training center** . This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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1MV20EC401

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This is to certify that **Deekshith S** whose USN is **1MV20EC401**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- A website to sell Caffeine**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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Certificate of Internship

This is to certify that **Madhvesh Diggavi** whose USN is **1MV20EC404**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- A website to sell Caffeine**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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1MV17EC024

Internship Offer Letter

Varcons Technologies Pvt Ltd

Date: **23rd August, 2022**

Name: **Bhuvaneshwari**
USN: **1MV17EC024**

Dear Student,

We would like to congratulate you on being selected for the **Machine Learning With Python(Research Based)** Internship position with **Varcons Technologies Pvt Ltd**, effective Start Date **23rd August, 2022**, All of us are excited about this opportunity provided to you!

This internship is viewed as being an educational opportunity for you, rather than a part-time job. As such, your internship will include training/orientation and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts of **Machine Learning With Python(Research Based)** through hands-on application of the knowledge you learn while you train with the senior developers. You will be bound to follow the rules and regulations of the company during your internship duration.

Again, congratulations and we look forward to working with you!

Sincerely,

Spoorthi H C
Director
VARCONS TECHNOLOGIES PVT LTD
213, 2st Floor,
18 M G Road, Ulsoor,
Bangalore-560001

M.MuthuKumar
1MV19EC067

Varcons Technologies Pvt Ltd

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Certificate of Internship

This is to certify that **Muthukumar M** whose USN is **1MV19EC067**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **25th August, 2022** to **29th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Personal Training Website**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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Name:-Nikita.Shrikant.Pai
USN:-1MV19EC072

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This is to certify that **Nikita Shrikant Pai** whose USN is **1MV19EC072**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Online Yoga training Center** . This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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Pranay Raj
1MV19EC080

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Certificate of Internship

This is to certify that **Mr. Pranay Raj** whose USN is **1MV19EC080** , has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022.**

The person to whom this certificate is addressed to has worked on a project titled **Template - A website to sell Caffeine.** This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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Sanket Gupta
1MV19EC100

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This is to certify that **Sanket Gupta** whose USN is **1MV19EC100**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Stockport ? Predictive Sentiment Analysis**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

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SUPRIT KUMAR
1MV19EC115

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Certificate of Internship

This is to certify that **Suprit Kumar** whose USN is **1MV19EC115**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Photography Website** . This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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1MV19EC118
Ujjwal Kumar

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Certificate of Internship

This is to certify that **Ujjwal Kumar** whose USN is **1MV19EC118**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022.**

The person to whom this certificate is addressed to has worked on a project titled **Template- To Check ticket availability**. This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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MD ABDULLAH ANWAR
1MV19EC066

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Certificate of Internship

This is to certify that **Md Abdullah Anwar** whose USN is **1MV19EC066**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022.**

The person to whom this certificate is addressed to has worked on a project titled **Template- A website to sell Caffeine.** This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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1MV19EC086
Rahul Kumar

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This is to certify that **Rahul Kumar** whose USN is **1MV19EC086**, has completed their **Full Stack Web Development** Internship organised and handled by **Varcons Technlogoies Pvt Ltd** from **23rd August, 2022** to **27th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Template- Photography Website** . This project was aimed at creating fully-fledged functional **web template(s)** for a client of ours. As part of the project, they designed functional web pages, used databases to collect, store, and sort data, by understanding the design briefs and client specifications that were provided in the project proposal.

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1MV19EC089
D. Ravindra.

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This is to certify that **Ravindra D** whose USN is **1MV19EC089**, has completed their **Machine Learning With Python(Research Based)** Internship organised and handled by **Varcons Technologies Pvt Ltd** from **25th August, 2022** to **29th September, 2022**.

The person to whom this certificate is addressed to has worked on a project titled **Virtual Assistance for Visually Impaired**, As part of the project, They designed the Machine Learning Model, Demonstrated and tested the working of the Model, Prepared a report highligting its flaws by understanding the design briefs and client Specifications that were provided in the Proposal.

During the course of the internship, they demonstrated good design skills with a self-motivated attitude to learning new things. Their performance exceeded expectations and was able to complete the project successfully on time.

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1MV19EC089
D. Ravindra

Piyush Prabhat (0478)

Certificate

proTech digital

Certificate Of Training

Ref. No. VPRO/IM/22/829

This Certificate of Training is Presented To Piyush prabhat

S/o/ D/o Pradeep kumar of Sir M.Visvesvaraya institute of technology, Banglore

has Successfully completed his/her training on Web development

from 22 Aug 2022 to 26 Sep 2022 During the tenure of the above Course, We found him/her a hardworking.

Training Incharge

Director

vprotechhead@gmail.com

www.vprotechdigital.com

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Shubham Srivastava
1MV19EC106.

Certificate

proTech digital

Certificate Of Training

Ref. No. VPRO/TM/22/831

This Certificate of Training is Presented To Shubham Srivastava

S/o/ D/o Nitesh Kumar of Sir M. Visvesvaraya Institute of Technology, Banglore

has Successfully completed his/her training on Android development

from 22 Aug 2022 to 26 Sep 2022 During the tenure of the above Course, We found him/her a hardworking.

Jyoti
Training Incharge

Director

vprotechhead@gmail.com

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SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)

Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 1

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERI

Mini Project (18ECMP68) Batch list

Academic Year 2022-23

Batch No.	Name	USN	Sem/Sec	TITLE OF THE MINI PROJECT	Guide
	ANJAN KUMAR	1MV20EC015	VI A	WIFI NETWORK DEAUTHENTICATION BOT	Mrs. Poongothai C
	ANURAG NAIK	1MV20EC019	VI A		
	ARYAN SINGH	1MV20EC027	VI A		
1	KARTIK NANDAGAON	1MV20EC060	VI A		
	LAVANYA P	1MV20EC066	VI B	RFID BASED PETROL PUMP AUTOMATION	Mr. Phanindar Ravi P
	MALAKA BHASKAR REDDY	1MV20EC072	VI B		
	PAVAN TEJ P S	1MV20EC085	VI B		
2	VARSHIKHA K V	1MV20EC123	VI B		
	KRISHNA UPADHYAY	1MV20EC063	VI A	FOOD SPOILAGE DETECTION SYSTEM	Mrs. Poongothai C
	LAKSHMI S	1MV20EC065	VI B		
3	MONIKA P	1MV20EC078	VI B		
	ADARSH SINGH	1MV20EC006	VI A	REAL-TIME TRAFFIC ANALYSIS AND STREET LIGHT MANAGEMENT SYSTEM	Mr. R Nataraja
	ADITYA ANAND	1MV20EC007	VI A		
	AJITESH PRAKASH	1MV20EC010	VI A		
4	DEV PRAKASH	1MV20EC041	VI A		
	ANANYA SINGH	1MV20EC013	VI A	SMART PARKING SYSTEM BASED ON RFID TECHNOLOGY	Mrs. Swetha L
	HIMANSHU SHEKHAR	1MV20EC056	VI A		
	HITHA S	1MV20EC057	VI A		
5	MANSI PRIYA	1MV20EC074	VI B		
	AASTHA	1MV20EC001	VI A	HEART RATE DETECTOR	Mrs. Krishnapriya Sharma
	AMYA VERMA	1MV20EC012	VI A		
	ANISHA KUMARI	1MV20EC014	VI A		
6	ARUSHI GUPTA	1MV20EC025	VI A		
	PRIYANSHU HARSHA	1MV20EC090	VI B	3D HOLOGRAPHIC DISPLAY	Dr. Sasmita Mohapatra
	RISHABH SHARMA	1MV20EC096	VI B		
	SHRISTI RAJ	1MV20EC108	VI B		
7	UJJWAL KUMAR	1MV20EC120	VI B		

8	DIDDUKURI JOSHNA	1MV20EC044	VI A	CLONING BOT	Mrs. S Vijayalakshmi
	PADAPATI LIKHITH	1MV20EC068	VI B		
	MITAYI SAIGEETHIKA SINGH	1MV20EC076	VI B		
9	KISHOR K H	1MV20EC062	VI A	IOT BASED SALINE MONITORING SYSTEM	Mrs. Seema S
	MOHITH G S	1MV20EC077	VI B		
	MONISH M	1MV20EC080	VI B		
	NACHIKETH K V	1MV20EC081	VI B		
10	APARNA C	1MV20EC021	VI A	MILK ADULTERATION TESTING	Dr. R Sundaraguru
	HARSHITHA T A	1MV20EC054	VI A		
	SUDHEENDRA S KULKARNI	1MV20EC116	VI B		
11	DARSHAN BHANDARI	1MV20EC039	VI A	SECURED NODE DETECTION TECHNIQUE BASED ON ARTIFICIAL NEURAL NETWORK	Mrs. Krishnapriya Sharma
	DEEPTHI	1MV20EC040	VI A		
	HARSHA GANGOLLI	1MV20EC052	VI A		
12	ABHISHEK	1MV20EC003	VI A	REVOLUTIONIZING CITY STREETS: A COMPREHENSIVE APPROACH TO SMART INFRASTRUCTURE AND ACCIDENT PREVENTION	Dr. V G Supriya
	CHANDRASHEKHAR	1MV20EC036	VI A		
	DHANUSH B C	1MV20EC043	VI A		
	DILEEP	1MV20EC045	VI A		
13	ARYA KUMARI	1MV20EC026	VI A	IOT BASED FISH MONITORING SYSTEM FOR AQUA-CULTURE	Mrs. Santhoshini
	PRACHI SAWARN	1MV20EC088	VI B		
	ROHIT ANAND	1MV20EC100	VI B		
	V SUCHITRA	1MV20EC121	VI B		
14	VIKAS S BENAL	1MV20EC124	VI B	FIRE FIGHTING ROBOT	Mrs. Bhuvaneswari N
	NIRANJAN SRIDHAR	1MV20EC126	VI B		
	R SHANMUKHA SRINIVAS	1MV20EC127	VI B		
	VIJAY Y	1MV20EC128	VI B		
15	GALI SHASHIDHAR	1MV20EC049	VI A	SMART LIFEJACKET	Mrs. Swetha L
	GIRISHREDDY B	1MV20EC051	VI A		
	LIKITHA P	1MV20EC069	VI B		
	THASMEEN	1MV20EC118	VI B		

	G PAVITHRAN	1MV20EC047	VI A	PCB DEFECT DETECTION USING IMAGE PROCESSING	Dr. V G Supriya
	GAGANA R	1MV20EC048	VI A		
	KAMYASHREE T	1MV20EC059	VI A		
16	LAKSHITHA G	1MV20EC064	VI B		
	B KAVYA	1MV20EC032	VI A	PERFORMANCE ANALYSIS OF SRAM CELLS FOR LOW POWER REDUCTION USING LOW POWER TECHNIQUES	Mrs. Sheethal Bagali
	BALASETTY SRAVANI	1MV20EC033	VI A		
	M B VARALAKSHMI	1MV20EC070	VI B		
17	SRI LAKSHMI REDDY	1MV20EC113	VI B		
	RAJSHREE SINGH	1MV20EC094	VI B	PASSWORD BASED DISTRIBUTION PANEL AND CIRCUIT BREAKER	Mrs. Sheethal Bagali
	REETHU KL	1MV20EC095	VI B		
	SHIVAM KUMAR	1MV20EC107	VI B		
18	SUBRAMANIAM G	1MV20EC115	VI B		
	ABHISHEK KUMAR	1MV20EC004	VI A	VEHICLE CONTROL BY HAND GESTURES	Mrs. Praveena N
	ADAN BARI	1MV20EC005	VI A		
	AKSHAT GUPTA	1MV20EC011	VI A		
19	ANURAG SINGH	1MV20EC020	VI A		
	ANUBHAB SARKAR	1MV20EC017	VI A		Mrs. S Vijayalakshmi
	APOORV KUMAR	1MV20EC022	VI A		
	MIHIR KUMAR SHARMA	1MV20EC075	VI B	Earthquake Life bed	
20	SIDDHARTHA KUMAR	1MV20EC112	VI B		
	RAJRAJESWARI R	1MV20EC093	VI B	2 STAGE AMPLIFIER USING VLSI DESIGN	Mrs. Praveena N
	SHALINI K	1MV20EC103	VI B		
21	SWETHA	1MV20EC111	VI B		
	C A SRAVAN VARMA	1MV20EC037	VI A	ELECTRONIC VOTING MACHINE USING BIOMETRIC RECOGNITION	Mrs. P Shalini
	C M RAGHAVA RAKSHITH	1MV20EC038	VI A		
	DEVIKA	1MV20EC042	VI A		
22	NINGANAGOUDA	1MV20EC083	VI B		
23	AIZAZ AHMED	1MV20EC008	VI A	VEHICLE THEFT DETECTION	Mrs. Rajeshwari K N
	AJAY KUMAR N	1MV20EC009	VI A		
	ARANI GNANESH REDDY	1MV20EC023	VI A		

	AVINASH HIREMATH	1MV20EC029	VI A		
	GEETHA PRIYA C.R.	1MV20EC050	VI A	IOT BASED SMART MIRROR	Mrs. P Shalini
	LAKSHMI B S	1MV21EC406	VI B		
	KEERTHANA A	1MV21EC405	VI A		
24	MANOJ D P	1MV21EC407	VI B		
	BACHCHANAKALLAPPA H	1MV20EC129	VI B	DETECTION OF ILLEGAL TREE CHOPPING	Mrs. Rajeshwari K N
	DODDAMANI MEHABOOB ALUM	1MV21EC402	VI A		
	GULAM GOUSE M	1MV21EC403	VI A		
25	TEJASWINI K	1MV21EC409	VI B		
	PRANAV RAJ	1MV20EC089	VI B	ANYTIME MEDICINE VENDING MACHINE	Mrs. Santhoshini
	RAGAVENDRA KUMAR	1MV20EC092	VI B		
	RITIK KUMAR DUBEY	1MV20EC098	VI B		
26	THUSHAR YADAV	1MV20EC119	VI B		
	AAYUSH SINHA	1MV20EC002	VI A	RFID TOKEN BASED APPOINTMENT CALLING SYSTEM	Mr. R Nataraja
	MANOBRATH DUTTA	1MV20EC073	VI B		
	RITHESH KUMAR RAI	1MV20EC097	VI B		
27	VAIBHAV KUMAR	1MV20EC122	VI B		
	ANUPAM	1MV20EC018	VI A	VOICE RECOGNIZED ELEVATOR/LIFT CONTROL	Mrs. Lakshmi H G
	P VISHAL KAUSHIK	1MV20EC086	VI B		
	PRIYNASHU RAJ	1MV20EC091	VI B		
28	SHANTANU KUMAR	1MV20EC104	VI B		
	BHAVYA M	1MV21EC400	VI A	BIRDS REPELLING ROBOT	Mrs. Seema S
	SHASHIKALA B	1MV21EC408	VI B		
29	VISHALA S S	1MV21EC410	VI B		
	ASHISH KUMAR	1MV20EC028	VI A	WIRELESS POWER TRANSMISSION USING IOT	Mrs. Lakshmi H G
	AYUSH KAUSHIK	1MV20EC030	VI A		
	AYUSH SINGH	1MV20EC031	VI A		
30	BHASKAR KUMAR SINHA	1MV20EC034	VI A		
31	MONISH GOWDA N S	1MV20EC079	VI B	LAND MINE DETECTOR	Mrs. Bhuvaneswari N

	NAVEENT KRISHNA	1MV20EC082	VI B		
	ROHITH G	1MV20EC101	VI B		
	SHEIK TANZEEM	1MV20EC106	VI B		
	ANKIT KUMAR	1MV20EC016	VI A	BABY MONITORING SYSTEM	Dr. Sasmita Mohapatra
	ARMAN ARYAN	1MV20EC024	VI A		
	HARSHIT	1MV20EC053	VI A		
32	HIMANSHU SEKHAR DAS	1MV20EC055	VI A		
	SATYAM	1MV20EC102	VI B	VOICE BASED NOTICE BOARD USING ANDROID	Mr. Phanindar Ravi P
	SHANTANU SINGH	1MV20EC105	VI B		
	SHWETA KUMARI	1MV20EC110	VI B		
33	YOGESH KUMAR	1MV20EC125	VI B		
	ENAM HABIBUR RAB	1MV20EC046	VI A	FALL DETECTION SYSTEM USING NODE MCU	Mr. G Shashibhushan
	JAGAN MOHANTY	1MV20EC058	VI A		
	KAUSHAL KISHORE	1MV20EC061	VI A		
34	LIKHITH C K	1MV20EC067	VI B		
	PIYUSH SINGH	1MV20EC087	VI B	GPS BASED INLAND VESSEL TRACKING SYSTEM	Dr. R Sundaraguru
	RITU RAJ SINGH RAJAWAT	1MV20EC099	VI B		
	SHUBHRADEEP DAS	1MV20EC109	VI B		
35	SUSHANTH KUMAR	1MV20EC117	VI B		

Mini project Incharge

1) Seema-S Asst Professr
2) Savitha.L. Asst Professr

Head of the Department
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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MINI PROJECT REPORT (18ECMP68)

On

"Wi-Fi Deauthentication Bot"

by

NAME	USN
Anjan Kumar ML	1MV20EC015
Anurag Rajendra Naik	1MV20EC019
Aryan Singh	1MV20EC027
Kartik Nandagaon	1MV20EC060

(Under the Guidance of)
Dr. Poongothai C
Assistant Proffesor
Dept. of ECE



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2022-23

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled **"Wi-Fi De-authentication Bot"** carried out by **ANJAN KUMAR ML (1MV20EC015), ANURAG RAJENDRA NAIK (1MV20EC019), ARYAN SINGH (1MV20EC027), KARTIK NANDAGAON (1MV20EC060)** the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

Dr. Poongothai C	Dr. V. G. Supriya	Prof. Rakesh S. G.
Assistant Professor	Professor and Head	Principal, Sir MVIT
Department of ECE	Deptartment of ECE.	

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Name of the examiners	Signature with date
1. P. Shalini	18/7/23
2. Dr. Sunil Kumar KN	18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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MINI-PROJECT REPORT
[18ECMP68]
on

"RFID BASED GAS STATION AUTOMATION"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

NAME	USN
1. Lavanya P	1MV20EC066
2. Malaka Baskar Reddy	1MV20EC072
3. Pavan Tej PS	1MV20EC085
4. Varshikha KV	1MV20EC123

Under the Guidance of
Mr.Phanindar Ravi P
Assistant Professor



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Certified that the Mini-project work entitled **"RFID BASED GAS STATION AUTOMATION"** carried out by **Lavanya P (1MV20EC066), Malaka Bhaskar Reddy (1MV20EC072), Pavan Tej PS (1MV20EC085), Varshikha KV (1MV20EC123),** bonafide students of **Sir M Visvesvaraya Institute of Technology** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University**, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

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Name & Signature of the guide	Name & Signature of the HOD	Signature of the Principal
Mr.PHANINDAR RAVI P	**Dr. V.G SUPRIYA**	**Prof. RAKESH S.G.**
Assistant Professor,	Professor and Head,	Principal
Dept of ECE	Dept of ECE	

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Name of the examiners	Signature with date
1 Dr. Sunil Kumar KN	19/12/23
2. Dr Supriya V G	19/07/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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MINI PROJECT REPORT (18ECMP68)

On

"Food Spoilage Detection System"

by

NAME	USN
Krishna Upadhyay	1MV20EC063
Lakshmi S	1MV20EC065
Monika P	1MV20EC078

(Under the Guidance of)
Dr. Poongothai C
Assistant Proffesor
Dept. of ECE



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Certified that the Mini-project work entitled **"Food Spoilage Detection System"** carried out by **KRISHNA UPADHYAY (1MV20EC063), LAKSHMI S (1MV20EC065), MONIKA P (1MV20EC078),** the bonafide students of Sir MVisvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineeringin Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

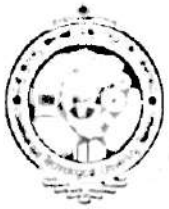
Dr. Poongothai C	Dr. V. G. Supriya	Prof. Rakesh S. C.
Assistant Professor	Professor and Head	Principal, Sir MVIT
Department of ECE	Deptartment of ECE.	

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Name of the examiners	Signature with date
1. Dr. Sunil kumar GN	19/2/23
2. Dr Supriya VG	19/02

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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MINI-PROJECT REPORT
on
Real-Time Traffic Analysis and Street Light Management System

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

ADARSH SINGH	**1MV20EC006**
ADITYA ANAND	**1MV20EC007**
AJITESH PRAKASH	**1MV20EC010**
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Under the Guidance of

Mr. Nataraja R.

Associate Professor, Department of ECE



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled **"Real-Time Traffic Analysis and Street Light Management System"** carried out by **Mr. Adarsh Singh (USN-1MV20EC006) , Mr. Aditya Anand (USN-1MV20EC007), Mr. Ajitesh Prakash (USN-1MV20EC010) and Mr. Dev Prakash (USN-1MV20EC041)** , the bonafide students of **Sir M. Visvesvaraya Institute of Technology** in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

Mr. NATARAJA R. G.	**Dr. V. G SUPRIYA**	**Prof. RAKESH S.**
Name & Signature of the Guide	Name & Signature of the HOD	Signature of the Principal

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1. P. Shalini	18/2/23
2. Dr. Sunil Kumar GN	18/2/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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MINI-PROJECT REPORT
On

"RFID BASED SMART PARKING SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

ANANYA SINGH	1MV20EC013
HIMANSHU SHEKHAR	1MV20EC056
HITHA S	1MV20EC057
MANSI PRIYA	1MV20EC074

Under the Guidance of

MRS. SWETHA L

ASSISTANT PROFESSOR



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CERTIFICATE

Certified that the Mini-project work entitled **"RFID BASED SMART PARKING SYSTEM"** carried out by **Ms. ANANYA SINGH(1MV20EC013), Mr. HIMANSHU SHEKHAR(1MV20EC056), Ms. HITHA S(1MV20EC057), Ms. MANSI PRIYA (1MV20EC074)**, the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

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Name of the examiners	Signature with date
1. Dr. Sunil Kumar KN	19/7/23
2. Dr Supriya V G	19/07/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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MINI-PROJECT REPORT
On
"Heart Rate Detector"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
AASTHA	1MV20EC001
AMYA VERMA	1MV20EC012
ANISHA KUMARI	1MV20EC014
ARUSHI GUPTA	1MV20EC025

Under the Guidance of

Mrs. Krishnapriya Sharma

(Associate Professor, ECE)

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Bengaluru-562157

2022-23

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Certified that the Mini-project work entitled **"HEARTRATE DETECTOR"** carried out by **Ms. AASTHA(1MV20EC001),Ms. AMYA VERMA(1MV20EC012),Ms. ANISHA KUMARI(1MV20EC014),Ms. ARUSHI GUPTA(1MV20EC025),** bonafide students of Sir M. Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

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Mrs. KRISHNAPRIYA SHARMA	Dr. VG SUPRIYA	PROF. RAKESH SG
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2. Dr. Sunil kumar K N	18/2/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
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MINI-PROJECT REPORT

on

"3D Holographic Display System"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Priyanshu Harsha	1MV20EC090
Rishabh Sharma	1MV20EC096
Shristi Raj	1MV20EC108
Ujjwal Kumar	1MV20EC120

Under the Guidance of

Dr. Sasmita Mohapatra

Professor of Electronics and Communication



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Certified that the Mini-project work entitled "**3D-HOLOGRAPHIC DISPLAY SYSTEM**" carried out by **Mr. PRIYANSHU HARSHA (1MV20EC090), Mr. RISHABH SHARMA (1MV20EC096), Mrs. SHRISTI RAJ (1MV20EC108), Mr. UJJWAL KUMAR (1MV20EC120),** bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

Name & Signature of the Guide

Name & Signature of the HOD

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Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

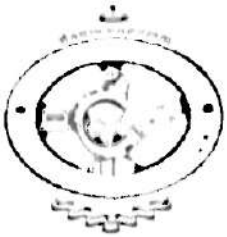
Signature of the Principal

Head of the Department
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Name of the examiners	Signature with date
1. Dr. R Sumbaragam	18/7/23
2. Vandhana. M	18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM - 590014



A MINI-PROJECT REPORT (18ECMP68)

"CLONING BOT."

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

Diddukuri Joshna	**(1MV20EC044)**
Padapati Likhith	**(1MV20EC068)**
Mitayi SaiGeethika Singh	**(1MV20EC076)**

Under the guidance of
Ms Vijayalakshmi S
AssociateProfessor



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2022-2023

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Certified that the Mini-project work entitled "**CLONING BOT**" is carried out by **DIDDUKURI JOSHNA (1MV20EC044), PADAPATI LIKHITH (1MV20EC068), MITAYI SAIGEETHIKA SINGH (1MV20EC076)**the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all corrections and 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 Mini Project work prescribed for the said Degree.

Ms. Vijayalakshmi S	**Dr. V.G Supriya**	**Prof. Rakesh S G**
Asso Prof, Dept of ECE	Prof. & Head, Dept of ECE	Principal
Sir MVIT Bangalore	Sir MVIT Bangalore	Sir MVIT Bangalore

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Sir M VIT Bangalore 562 157

External Viva

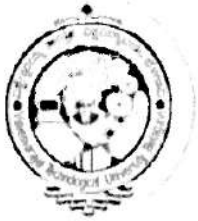
Name of the examiners

Signature with date

1 Dr. G. Sundaragurumurthy 18/7/23

2 Vandhana. M 18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

on

"IoT based Saline Monitoring System"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME OF THE STUDENTS	USN
1. Kishor Kumar Hegge	1MV20EC062
2. Mohith G.S.	1MV20EC077
3. Monish M	1MV20EC080
4. Nachiketh K.V.	1MV20EC081

Under the Guidance of

Mrs. SEEMA S

ASSISTANT PROFESSOR



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)

Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled "**IoT BASED SALINE MONITORING SYSTEM**" is carried out by **KISHOR KUMAR HEGGE (1MV20EC062), MOHITH G S (1MV20EC077), MONISH M (1MV20EC080), NACHIKETH K V (1MV20EC081)** the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all corrections and 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 Mini Project work prescribed for the said Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Mrs. Seema S	**Dr. V.G Supriya**	**Prof. Rakesh S. G**
Asst Prof, Dept of ECE	Prof. & Head, Dept of ECE	Principal
Sir MVIT Bangalore	Sir MVIT Bangalore	Sir MVIT Bangalore

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of the examiners Signature with date

1 ..D.R. Sundaraguru..... 18/7/23

2 ..Vandhana. M..... 18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI-590018



MINIPROJECT REPORT (18ECMP68)

On

MILK ADULTERATION TESTING USING ARDUINO

Submitted in partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF ENGINEERING IN ELECTRONICS & COMMUNICATION ENGINEERING

Submitted by

APARNA C	1MV20EC021
HARSHITHA T A	1MV20EC054
SUDHEENDRA S KULKARNI	1MV20EC116

Under the Guidance of

Dr R SUNDARAGURU

Professor / Dept. Of ECE



SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

Department of Electronics and Communication Engineering

Bengaluru-562157

2022-23

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)
Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled "**MILK ADULTERATION TESTING**" carried out by **Aparna C (1MV20EC021), Harshitha TA (1MV20EC054), Sudheendra S Kulkarni (1MV20EC116),** the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
Dr R Sundarguru	**Dr V Supriya**	**Dr Rakhesh SG**
Professor / Dept. of ECE	Professor & HOD of ECE	Principal

PRINCIPAL
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Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore 562 157

External Viva

Name of the examiners	Signature with date
1. Dr. Sunil Kumar U N	18/12/23
2. P. Shalini	18/12/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

On

"SECURE NODE DETECTION OF WSN BASED ON ANN"

by

NAME	USN
Darshan Ramdas Bhandari	1MV20EC039
Deepthi	1MV20EC040
Harsha D Gangolli	1MV20EC052

Under the Guidance of

Mrs. Krishnapriya Sharma

Associate Professor



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled "**SECURE NODE DETECTION OF WSN BASED ON ANN**" carried out by **Darshan Ramdas Bhandari(1MV20EC039), Deepthi (1MV20EC040), Harsha D Gangolli(1MV20EC052)** the Bonafide students of **Sir M Visvesvaraya Institute of Technology** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University, Belgaum** during the year **2022-23**. 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 Mini Project work prescribed for the said Degree.

Mrs. Krishnapriya Sharma	**Dr. V.G Supriya**	**Prof. Rakesh S.G.**
Associate Professor / Internal Guide	Professor and Head	Principal/Sir MVIT
Department of ECE	Department of ECE	

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
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International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of the examiners	**Signature with date**
1. Dr. Sunil Kumar KN	18/12/23
2 P. Shalini	18/12/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT on

"A Comprehensive Approach to Smart Infrastructure and Accident Detection"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Abhishek	1MV20EC003
Chandrashekar S V	1MV20EC036
Dhanush B C	1MV20EC043
Dileep G C	1MV20EC045

Under the Guidance of

Dr. V G Supriya
Head Of The Department



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-2023

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)
Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled **"A Comprehensive Approach to Smart Infrastructure and Accident Prevention"** carried out by **Abhishek (1MV20EC003), Chandrashekar S V (1MV20EC036), Dhanush B C (1MV20EC043), Dileep G C (1MV20EC045)**, the bonafide students **of Sir M Visvesvaraya Institute of Technology** in partial fulfilment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 MiniProject work prescribed for the said Degree.

Name & Signature of the Guide	Name & Signature of the HOD	Signature of Principal
Dr. V.G. Supriya,	**Dr. V.G. Supriya ,**	**Prof. Rakesh S G**
Professor & HOD,	Professor & HOD,	
Department of ECE	Department of ECE	

PRINCIPAL
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Krishnadevarayanagar, Hunasamaranahalli
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Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of the examiners	Signature with date
1 Dr. Sunil Kumar M N	18/2/23
2. P. Shalini	18/2/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI -590018

MINI-PROJECT REPORT
[18ECMP68]
on
"IOT BASED FISH MONITORING SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING IN
ELECTRONICS AND COMMUNICATION

Submitted by -

NAME	USN
ARYA KUMARI	1MV20EC026
PRACHI SAWARN	1MV20EC088
ROHIT ANAND	1MV20EC100
V SUCHITHRA	1MV20EC121

Under the Guidance
of
Mrs.Santhoshini S

Assistant Professor \ Department of ECE

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Bengaluru-562157

2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevrayanagar, Hunasamaranahalli Banglore-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



YEAR 2022-2023

CERTIFICATE

Certified that the mini-project (18ECMP68) work "IOT BASED FISH MONITORING SYSTEM IN AQUACULTURE" is a bonafide work that is carried out by, **ARYA KUMARI (1MV20EC026), PRACHI SAWARN (1MV20EC088), ROHIT ANAND (1MV20EC100), V SUCHITHRA (1MV20EC121)** students of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY** in partial fulfilment of the requirements for the Degree of Bachelor of Engineering in **Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgavi for the academic year **2022-2023**. It is certified that the all the correction and the suggestion indicated by the 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 the project work prescribed for the course of Bachelor of Engineering.

8/7/23		PRINCIPAL SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY Krishnadevarayanagar, Hunasamaranahalli International Airport Road, Bangalore-562 157
Mrs. Santhoshini.S	**Dr. V.G. Supriya.**	**Prof. Rakesh P**
Asst Professor	Professor and Head	Principal
Department of ECE	Department of ECE	SIR MVIT

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of Examiner	Signature with Date
1. Dr. R. Sundaragiri	18/7/23
2. Vardhana. M	19/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

on

"FIRE FIGHTING ROBOT"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Vikas S Benal	1MV20EC124
Niranjan Sridhar	1MV20EC126
R Shanmukha Srinivas	1MV20EC127
Vijay Y	1MV20EC128

Under the Guidance of

Mrs. N Bhuvaneswari
Assistant Professor, Dept of ECE



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

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Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled **"FIRE FIGHTING ROBOT"** is carried out by **VIKAS BENAL(1MV20EC124), NIRANJAN SRIDHAR(1MV20EC126), SHANMUKHA SRINIVAS(1MV20EC127), VIJAY Y(1MV20EC128)** the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all corrections and 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 Mini Project work prescribed for the said Degree.

Mrs. N Bhuvaneswari	**Dr. V.G Supriya**	**Prof. Rakesh S G**
Asst Prof, Dept of ECE	Prof. & Head, Dept of ECE	Principal
Sir MVIT Bangalore	Sir MVIT Bangalore	Sir MVIT Bangalore

PRINCIPAL
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International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of the examiners | Signature with date

1 Dr. R. Sundaraguru 18/7/23

2 Vandhana. M 18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT
[18ECMP68]
on

"SMART LIFE JACKET"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

NAME	USN
1.GALI SHASHIDHAR	1MV20EC049
2.GIRISH REDDY B	1MV20EC051
3.LIKITHA P	1MV20EC069
4.THASMEEN D	1MV20EC118

Under the Guidance of
Ms. Swetha L
Assistant Professor



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

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Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled "**SMART LIFE JACKET**" carried out by **Gali Shashidhar (1MV20EC049), Girishreddy B (1MV20EC051), Likitha P (1MV20EC069), Thasmeen D (1MV20EC118),** bonafide students of **Sir M Visvesvaraya Institute of Technology** in partial fulfillment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the **Visvesvaraya Technological University**, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

Name & Signature of the guide	Name & Signature of the HOD	Signature of the PRINCIPAL
Ms. SWETHA L	**Dr. V.G SUPRIYA**	**Prof. RAKESH S.**
Assistant Professor,	Professor and Head,	Principal
Dept of ECE	Dept of ECE	

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
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International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of the examiners	**Signature with date**
1 Dr R Sundaragiri	18/7/23
2. Vandhana. M	18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018

MINI-PROJECT REPORT

on

"PCB DEFECT DETECTION USING IMAGE PROCESSING"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
G Pavithran	1MV20EC047
Gagana R	1MV20EC048
Kamyashree T	1MV20EC059
Lakshitha G	1MV20EC064

Under the Guidance of

Dr. V G Supriya
Professor And Head Of The Department

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
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2022-2023

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

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Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled **"PCB defect detection using image processing"** carried out by Mr./Ms. **G Pavithran(1MV20EC047), Gagana R (1MV20EC048), Kamyashree T (1MV20EC059), Lakshitha G(1MV20EC064)**, the bonafide students **of Sir M Visvesvaraya Institute of Technology** in partial fulfilment for the award of Bachelor of Engineering in **Electronics and Communication Engineering** of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said degree.

Name & Signature of the Guide
Dr. V.G. Supriya,
Professor & HOD
Department of ECE

Name & Signature of the HOD
Dr. V.G. Supriya ,
Professor & HOD,
Department of ECE

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Nagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157
Signature of Principal
Prof. Rakesh S G

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore-562 157

External Viva

Name of the examiners
1. Dr. Sunil Kumar CN
2. P. Shalini

Signature with date
13/7/23
18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT
on
"PERFORMANCE ANALYSIS OF SRAM CELLS FOR POWER REDUCTION USING LOW POWER TECHNIQUES"

Submitted in partial fulfilment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Balasetty Sravani	1MV20EC033
B Kavya	1MV20EC032
M B Varalakshmi	1MV20EC070
Srilakshmi A Reddy	1MV20EC113

Under the Guidance of
Dr Sheetal Bagali
Assistant professor
Department of ECE



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-2023

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)
Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled "Performance analysis of SRAM cells for power reduction using low power techniques" carried out by Ms. BALASETTY SRAVANI(1MV20EC033) ,Ms. B KAVYA(1MV20EC032),Ms. M B VARALAKSHMI(1MV20EC070), Ms. SRI LAKSHMI A REDDY(1MV20EC113) the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECH...
Krishnadevarayanagar, Hunasamara...
International Airport Road, Bangalore-...

Signature of the Guide	Signature of the HOD	Signature of the Principal
Dr Sheetal Bagali	Dr Supriya V G	Prof Rakesh S G
Assistant professor	Professor and Head	Principal
Department of ECE	Department of ECE	Sir M V I T

Head of the Department
Electronics & Communications Engineering
Sir M.V.I.T. Bangalore 562 157

External Viva

Name of the examiners

1 Dr. Sunil kumar cv

2. P. Shalini

Signature with date

18/7/23

18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI - 590018

MINI PROJECT REPORT (18ECMP68)

ON

"Password Based Circuit Breaker and Distribution Panel"

Submitted in partial fulfilment for the requirements for the sixth semester of

BACHELOR OF ENGINEERING

IN

ELECTRONICS AND COMMUNICATION

Submitted by:

RAJSHREE SINGH	**(1MV20EC094)**
REETHU K L	**(1MV20EC095)**
SHIVAM KUMAR	**(1MV20EC107)**
SUBRAMANIAM G	**(1MV20EC115)**

Under the guidance of

Dr. SHEETAL BAGALI

Assistant Professor, Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru – 562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bengaluru – 562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

It is certified that the mini project work (18ECMP68) entitled "**PASSWORD BASED CIRCUIT BREAKER AND DISTRIBUTION PANEL**" is a carried out by **RAJSHREE SINGH (1MV20EC094), REETHU K L (1MV20EC095), SHIVAM KUMAR(1MV20EC107), SUBRAMANIAM G(1MV20EC115)**, bonafide students of **Sir M Visvesvaraya Institute of Technology** in partial fulfilment for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of the **Visvesvaraya Technological University, Belagavi** during the year **2022- 2023**. 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 Mini Project work prescribed for the said Degree.

DR. SHEETAL BAGALI	**Dr. V. G. SUPRIYA**	**Prof. RAKESH.S. G**
Assistant Professor	Professor and HOD	Principal
Dept. of ECE	Dept. of ECE	Sir MVIT

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
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International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communication Engineering
Sir M. VIT, Bangalore - 562 157

External Examination Viva

Name of the Examiner	Signature with Date
1) Dr. Sunil Kumar KN	18/12/23
2) P. Shalini	18/12/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

on

"Vehicle Control by Hand Gestures"

Submitted in partial fulfilment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

ABHISHEK KUMAR	**1MV20EC004**
ADAN BARI	**1MV20EC005**
AKSHAT GUPTA	**1MV20EC011**
ANURAG SINGH	**1MV20EC020**

Under the Guidance of

Mrs. PRAVEENA N
Assistant Professor,
Department of E&C



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

Sir M Visvesvaraya Institute Of Technology

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Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

Certified that the Mini-project work entitled "**VEHICLE CONTROL BY HAND GESTURES**" carried out by Mr. ABHISHEK KUMAR(1MV20EC004),ADAN BARI(1MV20EC005),AKSHAT GUPTA(1MV20EC011),ANURAG SINGH (1MV20EC020) ,the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaran
International ... Bangalore ... 17

Mrs. Praveena N	**Dr. V.G. Supriya**	**Prof. Rakesh S.G.**
Assistant Professor	Professor and HOD	Principal
Dept. Of E&C, Sir MVIT	Dept. of E&C, Sir MVIT	Sir MVIT

External Viva

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of the examiners	Signature with date
1. Dr Sunil Kumar KN	19/7/23
2. Dr Supriya VG	19/07/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

on

"EARTHQUAKE LIFE BED"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
ANUBHAB SARKAR	1MV20EC017
APOORV KUMAR	1MV20EC022
MIHIR KUMAR SHARMA	1MV20EC075
SIDDHARTHA KUMAR	1MV20EC112

Under the Guidance of

Ms. VIJAYALAKSHMI S

(ASSOCIATE PROFESSOR)



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)

Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled "**EARTHQUAKE LIFE BED**" carried out by bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TE
Krishnadevarayanagar, Hunasama
International Airport Road, Bangalore-

Mrs. VijayaLakshmi S	**Dr. Supriya V G**	**Dr. Rakesh H G**
Associate Professor	Professor and Head	Principal/SIR MVIT
Dept. of ECE	Dept of ECE	

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of the examiners	Signature with date
1. Dr. Sundaram	18/7/23
2. Vandhana. M	18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018

MINI-PROJECT REPORT

on

"DESIGN AND ANALYSIS OF CMOS TWO STAGE OP-AMP IN 180nm & 45nm TECHNOLOGY"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
RAJRAJESWARI R	1MV20EC093
SHALINI K	1MV20EC103
SHWETHA	1MV20EC111

Under the Guidance of

Mrs. PRAVEENA N

Assistant professor

Electronic & Communication engineering dept

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Bengaluru-562157
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



CERTIFICATE

This is to certify that the entitled **" DESIGN AND ANALYSIS OF CMOS TWO STAGE OPAMP IN 180nm & 45nm"** is a bonified work carried out by **Raj Rajeswari R(1MV20EC093),Shalini K(1MV20EC103),Shwetha(1MV20EC111)** students of SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY in partial fulfillment of the requirements for the award of the Degree of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University,Belagavi for the academic year 2021-2022.It is certified that all correction and 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 mini project(18CMP68) prescribed for the course of Bachelor of Engineering.

Signature of the guide	Signature of HOD	PRINCIPAL SIR M. VISVESVARAYA INSTITUTE OF TECH... Signature of Principal
Mrs.Praveena N	**Dr.Supriya V G**	**Prof.Rakesh S G**
Asst.Prof.Dept of ECE	Prof.&Head,Dept of ECE	Principal

External viva

Name of the Examiner	**Signature with Date**
1...Dr. R. Sundaraguru	1..... 19/7/23
2...Vandhana. M	2..... 18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA,BELAGAVI – 590018

MINI-PROJECTREPORT

ON

"ELECTRONIC VOTING MACHINE USING BIOMETRIC RECOGNITION"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING(18ECMP68)

IN

ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
C A SRAVAN VARMA	1MV20EC037
C M RAGHAVA RAKSHITH	1MV20EC038
DEVIKA H A	1MV20EC042
NINGANAGOUDA G T	1MV20EC083

Under the guidance of

Mrs. Shalini P

Associate professor

Department of ECE

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BENGALURU-562157

2022-2023

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)
Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled **'ELECTRONIC VOTING MACHINE USING BIOMETRIC RECOGNITION'** carried out by **C A SRAVAN VARMA (1MV20EC037), C M RAGHAVA RAKSHITH(1MV20EC038), DEVIKA H A (1MV20EC042), NINGANAGOUDA G T(1MV20EC083)** the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said degree.

Name & Signature of the Guide	Name & Signature of the HOD	Signature of the Principal
Mrs. Shalini P	**Dr. V. G. Supriya**	**Prof. Rakesh S.G.**
Associate Professor	Professor and Head,	Principal
Dept of ECE	Dept of ECE	

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
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International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M. VIT Bangalore 562 157

External Viva

Name of the examiners	Signature with date
1. Dr. Sunil Kumar K N	19/7/23
2. Dr Supriya V G	19/07/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAUM – 590018

MINI PROJECT REPORT (18ECMP68)

ON

"VEHICLE THEFT DETECTION"

Submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN ELECTRONICS AND COMMUNICATION

Submitted by

AIZAZ AHMED S	**1MV20EC008**
AJAY KUMAR N	**1MV20EC009**
ARANI GNANESH	**1MV20EC023**
AVINASH HIREMATH	**1MV20EC029**

Under the guidance of

K N Rajeswari

Assistant Professor, Department of ECE

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Bangalore -562157

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
BENGALURU-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the mini-project work (18ECMP68) entitled **"VEHICLE THEFT DETECTION"** is a bonafide work carried out by the bonafide students of Sir M. Visvesvaraya Institute of Technology, in partial fulfillment for the award of the Degree of Bachelor of Engineering in Electronics and Communication of Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/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 Mini Project work prescribed for the said degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
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Mrs. K N Rajeswari
Assistant Professor
Department of ECE

Dr. Supriya V G
Professor and Head
Department of ECE

Dr. Rakesh H G
Principal / Sir MVIT

Head of the Department
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Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562157

External Examination Viva

Name of the Examiner	Signature with Date
1. Dr. Sunil Kumar KN	19/7/23
2. Dr Supriya VG	19/07/23

VISVESVARAYA TECHNOLOGICAL UNIVERSIT
"Jnana Sangama", Belagavi-590 018

Mini-Project Report
On
"SMART MILITARY TENT"

Submitted in partial fulfillments of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
OF
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

GEETHA PRIYA CR	1MV20EC050
KEERTHANA A	1MV21EC405
LAKSHMI B S	1MV21EC406
MANOJ D P	1MV21EC407

Under the Guidance of
SHALINI.P
Associate Professor
Department of ECE

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)
Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Project Work entitled **"SMART MILITARY TENT"** carried out by **Ms. Geetha Priya CR (1MV20EC050) ,Ms. Keerthana A (1MV21EC405) , Ms. Lakshmi BS (1MV21EC406), Mr. Manoj DP(1MV21EC407)** the bonafide students of Sir M Visvesvaraya institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Electronics and communication Engineering of the Visvesvaraya Technological University, Belgaum 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 Mini project work prescribed for the said Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Signature of the Guide	Signature of the HOD	Signature of the Principal
Shalini P 18/7/23	**Dr.V.G. Supriya**	**Prof. Rakesh S.G**
Associate Prof.	Professor & Head	Principal
Of ECE Dept.	Department of ECE	Sir MVIT,Bengaluru

Head of the Department
Electronics & Communications Engineering
Sir M. VIT, Bangalore - 562 157

External Viva

Name of the examiners	**Signature with date**
1 Dr R. Sundaragiri	18/7/23
2. Vardhana. M	18/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

on

"AUTOMATIC PET FEEDER"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Bachchanakallappa H	1MV20EC129
Doddamani Mehaboob Alum	1MV21EC402
Gulam Gouse M	1MV21EC403
Tejaswi K	1MV21EC409

Under the Guidance of
Mrs.Rajeshwari K N
Assistant professor

Department of ECE



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

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Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled "AUTOMATIC PET FEEDER " carried out by **Mr. Bachchanakallappa H (1MV20EC129), Mr. Doddamani Mehaboob Alum (1MV21EC402), Mr. Gulam Gouse M (1MV21EC403), Ms.Tejaswini K (1MV21EC409)** the Bonafede students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
Ms. Mrs.Rajeshwari K N	Dr.V.G .Supriya	Prof Rakesh S.G.
Assistant professor	Professor &Head of	Prinicipal
Department of ECE	Department of ECE	Sir MVIT,Bengaluru

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Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of the examiners	Signature with date
1. Dr. R. Sundaraguru	19/7/23
2. Vandhana. M	19/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT (18ECMP68)

on

" ANYTIME MEDICINE VENDING MACHINE "

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Pranav Raj	1MV20EC089
Raghvendra Kumar	1MV20EC092
Ritik Kumar Dubey	1MV20EC098
Tushar Yadav	1MV20EC119

Under the Guidance of

Mrs. Santhoshini S

Assistant professor, Department of ECE



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-2023

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)

Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project(18ECMP68) work entitled **"ANYTIME MEDICINE VENDING MACHINE"** carried out by **Mr. PRANAV RAJ (1MV20EC089), Mr. RAGHVENDRA KUMAR (1MV20EC092), Mr. RITIK KUMAR DUBEY (1MV20EC098), Mr. TUSHAR YADAV (1MV20EC119),** bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

Mrs. Santhoshini S	**Dr. V G Supriya**	**Prof. Rakesh S. G**
Asst Prof, Dept of ECE	Prof. & Head, Dept. of ECE	Principal
Sir MVIT Bangalore	Sir MVIT Bangalore	Sir MVIT Bangalore

PRINCIPAL
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Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva

Name of the examiners	Signature with date
1. Dr. R. Sundaragum	19/7/23
2. Vandhana. M	19/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAUM – 590018

MINI-PROJECT REPORT

ON

"RFID Token-Based Appointment Calling System"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

Aayush Sinha	**(1MV20EC002)**
Manobrath Dutta	**(1MV20EC073)**
Ritesh Kumar Rai	**(1MV20EC097)**
Vaibhav Kumar	**(1MV20EC122)**

Under the guidance of

Mr. R Natraja

Associate Professor,

Department of ECE

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the project entitled **"RFID Token-Based Appointment Calling System"** is a bonafide work carried out by **AAYUSH SINHA (1MV20EC002 , MANOBRATH DUTTA (1MV20EC073 , RITESH KUMAR RAI (1MV20EC097) , VAIBHAV KUMAR (1MV20EC122)** of **Sir M. Visvesvaraya Institute of Technology,** Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in **Electronics and Communication** of the **Visvesvaraya Technological University,** Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Mini- project (18ECMP68) prescribed for Bachelor of Engineering degree.

Mr. R NATRAJA	**Dr. SUPRIYA V G**	**Prof. RAKESH S G**
Associate Professor	Professor & Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevaraya Layout, Chikkabanavara Post, Yeshwanthapura Samaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of Examiners: **External Examination** **Signature with Date**

1. Dr. S. Sundara Guru 19/7/23
2. Vandhana. M 19/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

on

"Voice Recognized Elevator Control"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Anupam	1MV20EC018
Vishal	1MV20EC086
Priyanshu	1MV20EC091
Shantanu	1MV20EC104

Under the Guidance of

Mrs. Lakshmi H. G.

Assistant Professor / Dept of ECE



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Bengaluru-562157

2022-23

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)

Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled "**Voice Recognized Elevator/Lift Control**" is carried out by **ANUPAM (1MV20EC018), VISHAL (1MV20EC086), PRIYANSHU (1MV20EC091), SHANTANU (1MV20EC104)** the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering inElectronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all corrections and suggestions indicated for Internal Assessment have been incorporated in the Reportdeposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Lakshmi H.G.		PRINCIPAL SIR M. VISVESVARAYA INSTITUTE OF TECHNO... Krishnadevarayanagar, Hunasamaranah... International Airport Road, B'gal...
Mrs. Lakshmi H. G.	**Dr. V.G Supriya**	**Prof. Rakesh S.G**
Asst Prof, Dept of ECE	Prof. & Head, Dept of ECE	Principal
Sir MVIT Bangalore	Sir MVIT Bangalore	Sir MVIT Bangalore

Head of the Department
Electronics & Communications Engineering
Sir M. VIT Bangalore 562 157

External Viva

Name of the examiners	Signature with date
1 ..... Dr. R Sundaragiri	..... 19/7/23
2 ..... Vandhana. R	..... 19/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

on

"BIRD REPELLENT SYSTEM"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Bhavya M	1MV21EC400
Shashikala R	1MV21EC408
Vishala S S	1MV21EC410

Under the Guidance of

SEEMA S

Assistant Professor

Electronics & Communication engineering dept

SIR MVIT , Bengaluru



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157
2022-23

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)
Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled "Bird repellent system" carried out by Ms.Bhavya M(1MV21EC400), Ms. Shashikala R(1MV21EC408), Ms.Vishala S S , (1MV21EC410), the bonafide students of Sir M Visvesvaraya Institute of Technologyin partial fulfilment for the award of Bachelor of Engineeringin Electronics and Communication Engineering of the Visvesvaraya Technological University,Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
Ms. Seema S.	Dr.V.G .Supriya	Prof Rakesh S.G.
Assistant professor	Professor &Head of	Prinicipal
Department of ECE	Department of ECE	Sir MVIT,Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bengalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M VIT, Bangalore 562 157

External Viva

Name of the examiners

1. Dr. R Sundaragum
2. Vandhana. M

Signature with date

19/7/23

19/7/23

30

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELAGAVI -590018



MINI PROJECT REPORT
(18ECMP68)
ON

"WIRELESS POWER TRANSMISSION USING MICROWAVE"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATIONS

Submitted by :

ASHISH KUMAR	**1MV20EC028**
AYUSH KAUSHIK	**1MV20EC030**
AYUSH SINGH	**1MV20EC031**
BHASKAR KR. SINHA	**1MV20EC034**

Under the Guidance of
Mrs. Lakshmi H.G.
Assistant Professor



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevrayanagar, Hunasamaranahalli Banglore-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

YEAR 2022-2023

CERTIFICATE

Certified that the project work "**WIRELESS POWER TRANSMISSION USING MICROWAVE**" is a bonafide work that is carried out by, **ASHISH KUMAR (1MV20EC028), AYUSH KAUSHIK (1MV20EC030), AYUSH SINGH (1MV20EC031), BHASKAR KUMAR SINHA (1MV20EC034)** students of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY** in partial fulfilment of the requirements for the Degree of Bachelor of Engineering in **Electronics and Communication Engineering** of Visvesvaraya Technological University, Belgavi for the academic year **2022-2023**. It is certified that the all the correction and the suggestion indicated by the 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 the project work prescribed for the course of Bachelor of Engineering.

Lakshmi H G.		PRINCIPAL
Mrs. Lakshmi H.G.	**Dr. V.G. Supriya.**	SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY Krishnadevraya Nagara, Hunasamaranahalli International Airport Road, Bangalore-562 157 **Prof. Rakesh S.G.**
Asst Professor	Professor and Head of	Principal
Department of ECE	Department of ECE	SIR MVIT

Head of the Department
Electronics & Communicatuons Engineering
Sir M VIT Bangalore 562 157

Name of Examiner	Signature with Date
1. Dr Sunil Kumar K N	19/12/23
2. Dr Supriya V G	19/07/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

on

"LAND MINE DETECTOR"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Monish Gowda NS	1MV20EC079
Navneet krishna	1MV20EC082
Rohith G	1MV20EC101
Sheik Tanzeem	1MV20EC106

Under the Guidance of

Mrs. N Bhuvaneswari
Assistant Professor, Dept of ECE



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)

Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled **"LAND MINE DETECTOR"** is carried out by **MONISH GOWDA NS(1MV20EC079), NAVNEET KRISHNA (1MV20EC082), ROHITH G(1MV20EC101), SHEIK TANZEEM (1MV20EC106)** the bonafide students of Sir M Visvesvaraya Institute of Technology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University, Belgaum during the year 2022-23. It is certified that all corrections and 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 Mini Project work prescribed for the said Degree.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

13/07/2023		
Mrs. N Bhuvaneswari	**Dr. V.G Supriya**	**Professor. Rakesh S. G**
Assistant Professor,	Professor & Head,	Principal
Department of ECE	Department of ECE	Sir MVIT Bangalore
Sir MVIT Bangalore	Sir MVIT Bangalore	

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of the examiners | Signature with date

1 ..Dr. P. Sundaragum..... ..... 19.7.23

2 ..Vandhana M..... ..... 19/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA, BELGAUM – 590018

MINI-PROJECT REPORT

ON

"Baby Monitoring System"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

Ankit Kumar	**(1MV20EC016)**
Arman Aryan	**(1MV20EC024)**
Harshit	**(1MV20EC053)**
Himanshu Sekhar Das	**(1MV20EC055)**

Under the guidance of

Dr. Sasmita Mohapatra

Professor, Department of ECE

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

BENGALURU-562157

Department of Electronics and Communication Engineering

CERTIFICATE

This is to certify that the project entitled **"BABY MONITORING SYSTEM"** is a bonafide work carried out by **ANKIT KUMAR (1MV20EC016), ARMAN ARYAN (1MV20EC024),HARSHIT (1MV20EC053), HIMANSHU SEKHAR DAS (1MV20EC055)** of **Sir M. Visvesvaraya Institute of Technology,** Bangalore, in partial fulfillment for the award of degree of Bachelor of Engineering in **Electronics and Communication** of the **Visvesvaraya Technological University,** Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of Mini-project (18ECMP68) prescribed for Bachelor of Engineering degree.

17.7.23		PRINCIPAL SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY Krishnadevakaipagar, Hunasamaranahalli International Airport Road, Bangalore-562 157
Dr. SASMITA MOHAPATRA	**Dr. SUPRIYA V. G.**	**Prof. RAKESH S. G**
Professor	Professor & Head	Principal
Department of ECE	Department of ECE	Sir MVIT, Bangaluru

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

Name of Examiners:	Signature with Date
1. Dr. Sunil Kumar KN	19/7/23
2. Dr. Supriya V G	19/07/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



REPORT on
MINI-PROJECT [18ECMP68]

"Voice Based Notice Board Using Android"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

NAME	USN
Satyam	1MV20EC102
Shantanu Singh	1MV20EC105
Shweta Kumari	1MV20EC110
Yogesh Kumar	1MV20EC125

Under the Guidance of

Mr. Phanindar Ravi P

Assistant Professor



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevrayanagar, Hunasamaranahalli Banglore-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the mini project work "**Voice Based Notice Board Using Android**" is a bonafide work that is carried out by, SATYAM(1MV20EC102), SHANTANU SINGH(1MV20EC105), SHWETA KUMARI(1MV20EC110), YOGESH KUMAR(1MV20EC125) students of SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY in partial fulfillment of the requirements for the Degree of Bachelor of Engineering in Electronics and Communication Engineering of Visvesvaraya Technological University, Belgavi for the academic year 2022-2023. It is certified that the all the correction and the suggestion indicated by the 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 the project work prescribed for the course of Bachelor of Engineering.

Phanindar Ravi .P	**Dr. Supriya .V. G**	PRINCIPAL SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY Krishnadevarayanagar, Hunasamaranahalli International Airport Road, Bangalore-562 157 **Prof. Rakesh .S.G**
Asst. Prof, Dept. of ECE	Prof. & Head of Dept.	Principal

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562

Name of Examiner	Signature with Date
1. Dr. R. Sundaragiri	19/7/23
2. Vandhana. M	19/7/23

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
JNANA SANGAMA, BELAGAVI -590018



MINI-PROJECT REPORT

on

"FALL DETECTION SYSTEM using Node MCU"

Submitted in partial fulfillment of the requirements for the award of the degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by

NAME	USN
Jagan Mohanty	1MV20EC058
Enam Habibur Rab	1MV21EC046
Kaushal Kishore	1MV21EC061
Likhith CK	1MV21EC067

Under the Guidance of

Dr. G. Shashibhushan
Assistant professor

Department of ECE



SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
Bengaluru-562157

2022-23

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

(Affiliated to VTU-Belagavi, Recognized by AICTE and Accredited by NBA & NAAC)

Krishnadevarayanagar, Off International Airport Road, Hunasamaranahalli, Bengaluru – 562 157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Mini-project work entitled **"FALL DETECTION SYSTEM using Node MCU"** carried out by **JAGAN MOHANTY (1MV20EC058), ENAM HABIBUR RAB (1MV20EC046), KAUSHAL KISHORE (1MV20EC061), LIKHITH CK (1MV20EC067)** the bonafide students of Sir M Visvesvaraya Institute ofTechnology in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering of the Visvesvaraya Technological University,Belgaum during the year 2022-23. 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 Mini Project work prescribed for the said Degree.

Signature of the Guide	Signature of the HOD	Signature of the Principal
Dr. G. Shashibhushan	**Dr.V.G .Supriya**	**Prof Rakesh S.G.**
Assistant professor	Professor &Head of	Prinicipal
Department of ECE	Department of ECE	Sir MVIT,Bengaluru

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
International Airport Road, Bangalore-562 157

Head of the Department
Electronics & Communications Engineering
Sir M. Visvesvaraya Institute of Technology
Bangalore - 562 157

External Viva

Name of the examiners	Signature with date
1. Dr. Sunil kumar C N	19/7/22
2. Dr. Supriya V G	19/07/22

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANASANGAMA, BELAGAVI -590018

MINI PROJECT REPORT(18ECMP68)
ON

GPS-GSM BASED INLAND VESSEL TRACKING SYSTEM FOR AUTOMATIC EMERGENCY DETECTION AND POSITION

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF ENGINEERING
IN
ELECTRONICS AND COMMUNICATION

Submitted by:

PIYUSH SINGH	**1MV20EC087**
RITURAJ SINGH RAJAWAT	**1MV20EC099**
SHUBRADEEP DAS	**1MV20EC109**
SUSHANT KUMAR	**1MV20EC117**

Under the Guidance of
Dr R. SUNDARAGURU

Professor / Dept. of ECE

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Bengaluru -562157

2022-2023

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevrayanagar, Hunasamaranahalli Banglore-562157

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the mini-project(18ECMP68) work **"GPS-GSM BASED INLAND VESSEL TRACKING SYSTEM FOR AUTOMATIC EMERGENCY DETECTION AND POSITION"** is a bonafide work that is carried out by, **PIYUSH SINGH (1MV20EC087), RITURAJ SINGH RAJAWAT (1MV20EC099), SHUBRADEEP DAS (1MV20EC109), SUSHANT KUMAR (1MV20EC117)** students of **SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY** in partial fulfilment of the requirements for the Degree of Bachelor of Engineering in **Electronics and Communication Engineering** of Visvesvaraya Technological University, Belagavi for the academic year 2022-2023. It is certified that all the correction and the suggestion indicated by the 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 the project work prescribed for the course of Bachelor of Engineering.

PRINCIPAL
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli
Bangalore-562 157

Signature of Guide	Signature of HOD	Signature of Principal
Dr R Sundaraguru	Dr Supriya V G	Prof. Rakesh S G
Professor / Dept. of ECE	HOD / Dept. of ECE	Principal

Head of the Department
Electronics & Communications Engineering
Sir M VIT Bangalore 562 157

External Viva Examination

Name of Examiner	Signature with Date
1. Dr. R. Sundaraguru	19/7/23
2. Vandhana. M	19/7/23