



**Major Projects Phase-2 (BEE786)**

Semester: VII  
 AY: 2025-26

Sl No	USN	Name	Title	Guide Name	Signature
1	1RR22EE003	AKSHAY L	PRE Crash System & Landslide Update System for Vehicles in Deep curves	Prof. Shivalingaiah KL	
	1RR22EE009	CHINMAY SWAROOP CP			
	1RR22EE029	SIDDARAJU N			
	1RR22EE033	SUBHAS G			
2	1RR22EE001	ADARSH RK	Fault Detection in Grid using Machine Learning & IOT	Prof.Kiruthika K	
	1RR22EE002	AKASH SHIVAPPA BELAKUD			
	1RR22EE007	BASAVARAJ N			
	1RR22EE037	ULLAS U			
3	1RR23EE403	BHARATH KUMAR C	Automatic Load sharing system for Transformers using Fuzzy Logic	Prof.Ramya R	
	1RR23EE406	CHANDAN N			
4	1RR22EE005	ARUNKUMAR	An Efficient LoRa-Enabled smart fault detection & Monitoring Platform for the Power Distribution System Using Self-Powered IoT Devices	Prof. Dr. P Ebby Darney	
	1RR22EE021	PRAJWAL RJ			
	1RR23EE410	HAJILALSAB			
	1RR23EE421	PUGGI BHARATH			
5	1RR22EE006	ASHER SUMITH	Nexus Elite Vehicle Wash	Prof.Sincy Elezebeth Kuruvilla	
	1RR22EE013	GANDIKOTA VISHNU DATTA			
	1RR22EE014	JEEVAN P			
	1RR22EE017	LTHISH M R			
6	1RR22EE036	TEJAS GOWDA M L	Smart Grid fault detection & monitoring system using Raspberry Pi & IOT	Prof. Dr Arul Jose	
	1RR23EE412	KUMAR SAGAR A			
	1RR23EE418	MOHAMMED ASIM H			
	1RR23EE427	THAMBARA SELVA S			
7	1RR22EE031	SPANDANA S S	Silkworm Monitoring for Real Time growth & Silk Production	Prof,Shwetha R	
	1RR23EE400	ANILKUMAR			
	1RR23EE414	MAHAMMAD SUHEL			



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**Department of Electrical and Electronics Engineering**

8	1RR22EE011	DIVYA D	Smart Automated walking bridge with RFID Access & Voice over Assistance for Railway Stations	Prof.Shwetha R	<i>shwetha</i>
	1RR22EE015	KIRANA J			
	1RR22EE035	TABASSUM A			
	1RR22EE004	ANUSHA M			
9	1RR22EE027	SHOBHITHA N	Advanced Neonatal incubator using IOT for continuous monitoring	Prof.Udhyami MB	<i>Udhyami</i>
	1RR22EE034	SUSHMA L			
	1RR23EE401	ARPITHA M			
	1RR23EE408	DEEKSHITHA TP			
10	1RR23EE417	MANOJ KUMAR N	Quadcopter for crop health monitoring & precision farming	Prof.Avinash CM	<i>AF</i>
	1RR23EE409	GURUKIRAN AL			
	1RR23EE411	KAVANA N			
	1RR23EE426	TEJASHREE R			
11	1RR23EE419	PAVAN B R	IOT based Robotic Arm to support labours in substations	Prof.Udhyami MB	<i>Udhyami</i>
	1RR23EE420	PREM KUMAR M			
	1RR23EE425	SANTHOSH M			
12	1RR22EE020	PAVAN KUMAR RL	Smart energy meter with solar power analysis & Power consumption Tracking	Prof.Avinash CM	<i>AF</i>
	1RR22EE024	RISHITHA H S			
	1RR22EE030	SONIYA M CHAVAN			
	1RR23EE402	B M DARSHAN			
13	1RR22EE028	SHREYAS KS	Prosthetic Hand for Physically challenged people	Prof. Nandini N	<i>nn</i>
	1RR22EE032	SRIVATHSA N			
	1RR22EE040	YASHAS B			
14	1RR22EE022	PRAJWAL L	Multitudinous Electric Eye using Raspberry using PI in Defence	Prof. Prutha G	<i>Prutha</i>
	1RR22EE008	CHIDANANDA SWAMY			
	1RR23EE407	CHANDANA N			
	1RR23EE428	THEJASWINI N			
15	1RR22EE018	MADHUSHUDHAN	Mega -E –Tron for Defense	Prof. Prutha G	<i>Prutha</i>
	1RR22EE023	RAGINI SHARMA R			
	1RR22EE026	SAMPRAS ANDREW ANGELO			
	1RR22EE039	WANEGAON ADITYA RAJ KUMAR			
16	1RR22EE010	DEEKSHITH A REDDY	Smart organ transport system with Real Time monitoring & GPS Tracking using Quadcopter	Prof. Dr. Arul Jose R	<i>Arul Jose R</i>
	1RR23EE405	C VINOD KUMAR			
	1RR23EE415	MALLIKARJUNA KM			
	1RR23EE423	SAMEER BASHA			



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17	1RR22EE016	LIKITH A	Thermoelectric Power Generation	Prof. Nandini N	
	1RR22EE019	NITHIN A			
	1RR22EE038	VIJAY KUMARA H K			
	1RR23EE404	BHARATH N J			
18	1RR23EE413	LIKITH P	Object sorting conveyor using Delta PLC	Prof. Ramya R	
	1RR23EE416	MANI DEEPAK S			
	1RR23EE422	PUNITH KUMAR G			
	1RR23EE424	SANDEEP BM			

**HOD-EEE**

Professor & HOD  
Dept. of Electrical & Electronics Engg.  
Rajarajeswari College Of Engineering  
Bengaluru-74

VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
Jnana Sangama, Belagavi – 590018



Project Phase -II

(BEE786)

Main Project Report on

**“PRE Crash System and Landslide Update System for Vehicles in Deep Curves”**

Submitted in partial fulfilment for the award of degree of

**BACHELOR OF ENGINEERING**

**In**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

**AKSHAY L  
CHINMAY C P  
SDDARAJU N  
SUBHASH G**

**(IRR22EE003)  
(IRR22EE009)  
(IRR22EE029)  
(IRR22EE033)**

Under the guidance of

**Prof. SHIVALINGAIAH K L**

**Assistant Professor**

**Department of Electrical and Electronics Engineering**



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2024-2025




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Delhi] #14, Ramohalli Cross, Mysore Road, Kumbalgodu, Bengaluru-74  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**




**CERTIFICATE**

This is to certify that the project work entitled on **“PRE Crash System and Landslide Update System for Vehicles in Deep Curve”** is a Bonafede work carried out by **AKSHAY(1RR22EE003), CHINMAY C P(1RR22EE009), SIDDARAJU N(1RR22EE029), SUBHASH G(1RR22EE033)** in partial fulfilment the award of **Bachelor of Engineering** in ‘**Electrical and Electronics Engineering**’ of the **Visvesvaraya Technological University, Belgaum** during the year **2025- 2026**. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

  
Signature of the Guide

Prof. Shivalingaiah K L

  
Signature of the HOD

Dr. P Ebby Darney

  
Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. Shivalingaiah K L
2. Rajeshwari N

Signature with Date

Shivalingaiah K L 28/11/26  
Rajeshwari N

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**PROJECT PHASE -2**

**BEE786**

**“Fault Detection in Grid using Machine Learning and IoT”**

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

**BACHELOR OF ENGINEERING**  
**In**  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

ADARSH RK	(1RR22EE001)
AKASH S B	(1RR22EE002)
BASAVARAJ N	(1RR22EE007)
ULLAS U	(1RR22EE037)

Under the guidance of  
**Prof. KIRUTHIKA K**  
Assistant Professor

**Department of Electrical and Electronics Engineering**



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**2025-2026**



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled on “**Fault Detection in Grid using Machine Learning and IoT**” is a Bonafede work carried out by **Adarsh R K (1RR22EE001)**, **Akash S B (1RR22EE002)**, **Basavaraj N (1RR22EE007)**, **Ullas U (1RR22EE037)**, in partial fulfilment the award of **Bachelor of Engineering in ‘Electrical and Electronics Engineering’** of the **Visvesvaraya Technological university**, Belgaum during the year **2025 - 2026**. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

Signature of the Guide

Prof. Kiruthika K

Signature of the HOD

Dr. P Ebby Darney

Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. Shivalingaiah *SH*
2. Rakesh *HN*

Signature with Date

Shivalingaiah 8/11/26  
Rakesh 8/11/26

V VISVESVARAYATECHNOLOGICAL UNIVERSITY  
Jnana Sangama, Belagavi – 590018



Phase -1

Main Project Report on  
“Automatic Load-Sharing System for Transformers using Fuzzy Logic”  
Submitted in partial fulfilment for the award of degree of  
BACHELOR OF ENGINEERING  
In  
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

CHANDAN N  
BHARATH KUMAR C

(1RR23EE406)  
(1RR23EE403)

Under the guidance of

Prof. RAMYA R

Assistant Professor  
Department of Electrical and Electronics Engineering



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Bengaluru-74 2024-2025



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS  
ENGINEERING

## CERTIFICATE

This is to certify that the project work entitled on "Automatic Load-Sharing System for Transformers using Fuzzy Logic" is a Bonafede work carried out by CHANDAN N (1RR23EE406), BHARATH KUMAR C (1RR23EE403) in partial fulfilment the award of Bachelor of Engineering in 'Electrical and Electronics Engineering' of the Visvesvaraya Technological university, Belgaum during the year 2024- 2025. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

  
Signature of the Guide

Prof. Ramya R

  
Signature of the HOD

Dr. P Ebby Darney


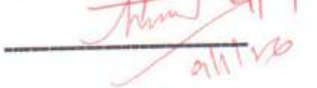
  
Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. EBBY DARNEY P
2. Dr Amanulla

Signature with Date

  
  
9/11/20

**VISVESVARAYATECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**PROJECT PHASE -2**

**BEE786**

**"An Efficient LoRa-Enabled Smart Fault Detection and Monitoring Platform for the Power Distribution System Using Self-Powered IoT Devices "**

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

**BACHELOR OF ENGINEERING**  
**In**  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

<b>ARUNKUMAR M W</b>	<b>(1RR22EE005)</b>
<b>PRAJWAL R J</b>	<b>(1RR22EE021)</b>
<b>HAJILALSAB</b>	<b>(1RR23EE410)</b>
<b>PUGGI BHARATH</b>	<b>(1RR23EE421)</b>

Under the guidance of

**Dr. P Ebby Darney**

**Professor**

**Department of Electrical and Electronics Engineering**



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**2025-2026**



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled on "An Efficient LoRa-Enabled Smart Fault Detection and Monitoring Platform for the Power Distribution System Using Self-Powered IoT Devices" is a Bonafede work carried out by **ARUNKUMAR(1RR22EE005), PRAJWAL(1RR22EE021), HAJILALSAB(1RR23EE410), PUGGIBHARATH(1RR23EE421)**, in partial fulfilment the award of **Bachelor of Engineering in 'Electrical and Electronics Engineering'** of the **Visvesvaraya Technological university, Belgaum** during the year **2024- 2025**. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

Signature of the Guide

Dr. P Ebby Darney

Signature of the HOD

Dr. P Ebby Darney

Signature of the Principal

Dr. Balakrishna R

Name of Examiners

- Prinvalingal
- Rakesh MN

Signature with Date

Prinvalingal 8/11/26  
Rakesh MN

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**PROJECT PHASE -2**

**BEE786**

**“NEXUS ELITE VEHICLE WASH”**

Submitted in partial fulfilment of the award for the degree

**BACHELOR OF ENGINEERING**

**In**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

ASHER SUMITH	(1RR22EE006)
G VISHNU DATTA	(1RR22EE013)
JEEVAN P	(1RR22EE014)
LITHISH M R	(1RR22EE017)

Under the guidance of

**Prof. SINCY ELEZEBETH KURUVILLA**

Assistant Professor

Department of Electrical and Electronics Engineering



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**2025-2026**



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**




**CERTIFICATE**

This is to certify that the project work entitled on “NEXUS ELITE VEHICLE WASH” is a Bonafide work carried out by Asher Sumith (1RR22EE006), G Vishnu Datta (1RR22EE013), Jeevan P (1RR22EE014), Lithish M R (1RR22EE017), in partial fulfilment the award of **Bachelor of Engineering in ‘Electrical and Electronics Engineering’** of the **Visvesvaraya Technological university, Belgaum** during the year **2025 - 2026**. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

  
Signature of the Guide

Prof. Sincy Elezebeth  
Kuruvilla

  
Signature of the HOD

Dr. P Ebby Darney


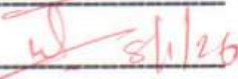
  
Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. Privalingaiah
2. Karkash MN

Signature with Date

 8/1/26  
 8/1/26

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**Jnana Sangama, Belagavi – 590018**



**PROJECT PHASE -2**

**BEE786**

**“SMART GRID FAULT DETECTION AND MONITORING SYSTEM  
USING RASPBERRY PI AND IOT ”**

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

**BACHELOR OF ENGINEERING**  
**In**  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

THEJAS GOWDA	M L	(1RR22EE036)
KUMAR SAGAR	A	(1RR23EE412)
MOHAMMED ASIM	H	(1RR23EE418)
THAMBARA SELVA	S	(1RR23EE427)

Under the guidance of

**Dr.R Arul Jose**

**Associate Professor**

**Department of Electrical and Electronics Engineering**



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**2025-2026**



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## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



### CERTIFICATE

This is to certify that the project work entitled on “Smart grid Fault detection and Monitoring System Using Raspberry pi and Iot” is a Bonafede work carried out by **Thambara Selva S (1RR23EE427), Kumar Sagar A (1RR23EE412), Mohammed Aim H (1RR23EE418), Thejas Gowda M L (1RR22EE036)**, in partial fulfilment the award of **Bachelor of Engineering in ‘Electrical and Electronics Engineering’** of the **Visvesvaraya Technological university, Belgaum** during the year **2025 - 2026**. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

  
Signature of the Guide

Dr. R Arul Jose

  
Signature of the HOD

Dr. P Ebby Darney



  
Signature of the Principal

Dr. Balakrishna R

Name of Examiners

- EBBY DARNEY P
- Dr. Amanullah

Signature with Date

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**Phase - II**

**Main Project Report on**

**“SILKWORM MONITORING FOR REAL-TIME  
GROWTH AND SILK PRODUCTION”**

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

**BACHELOR OF ENGINEERING  
IN  
ELECTRICAL AND ELECTRONICS ENGINEERING**

**Submitted by**

<b>SPANDANA S S</b>	<b>(1RR22EE031)</b>
<b>ANILKUMAR</b>	<b>(1RR23EE400)</b>
<b>MAHAMMAD SUHEL</b>	<b>(1RR23EE414)</b>

**Under the guidance of**

**Prof. Shwetha R**  
**Assistant Professor**

**Department of Electrical and Electronics Engineering**



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**2025-2026**



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**

This is to certify that the project work entitled on “SILKWORM MONITORING SYSTEM FOR REAL TIME GROWTH AND SILK PRODUCTION “is a Bonafede work carried out by SPANDANA S S(1RR22EE031), ANILKUMAR(1RR23EE400), MAHAMMAD SUHEL(1RR23EE414) in partial fulfilment the award of **Bachelor of Engineering** in ‘**Electrical and Electronics Engineering**’ of the **Visvesvaraya Technological university**, Belgaum during the year **2025-2026**. It is certified that all correction suggestions for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

*Shwetha R*  
Signature of the Guide

Prof. Shwetha R

*P Ebby Darney*  
Signature of the HOD

Dr. P Ebby Darney

*R. Balakrishna R*  
Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. *EBBY DARNLEY P*
2. *Dr. Amanna*

Signature with Date

*P Ebby Darney*  
-----  
*Amanna*  
-----  
*21/12/26*

VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
Jnana Sangama, Belagavi – 590018



Project Phase -II [BEE685]

Main Project Report on

**“Smart Automated Walking Bridge with RFID Access & Voice Assistance for  
Railway Stations”**

Submitted in partial fulfilment for the award of degree of

**BACHELOR OF ENGINEERING  
In  
ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

**DIVYA D  
KIRANA J  
TABASSUM  
ANUSHA M**

**(1RR22EE011)  
(1RR22EE015)  
(1RR22EE035)  
(1RR22EE004)**

Under the guidance of

**Prof. Shwetha R**

Assistant Professor

Department of Electrical and Electronics Engineering



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2025-2026




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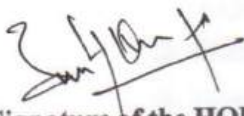


**CERTIFICATE**

This is to certify that the project work entitled on “SMART AUTOMATED WALKING BRIDGE WITH RFID ACCESS & VOICE ASSISTANCE FOR RAILWAY STATIONS” is a Bonafede work carried out by DIVYA D (1RR22EE011), KIRANA J (1RR22EE015), TABASSUM (1RR22EE035), ANUSHA M(1RR22EE004) in partial fulfilment the award of Bachelor of Engineering in ‘Electrical and Electronics Engineering’ of the Visvesvaraya Technological university, Belgaum during the year 2025- 2026. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

  
Signature of the Guide

Prof . Shwetha. R

  
Signature of the HOD

Dr. P Ebby Darney



  
Signature of the Principal

Dr. Balakrishna R

Name of Examiners

- Shivaji Lal ce
- Rakesh M

Signature with Date

VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
Jnana Sangama, Belagavi – 590018



Project Phase -II

(BEE786)

Main Project Report on  
**“ADVANCED NEONATAL INCUBATOR USING IoT FOR  
CONTINUOUS MONITORING”**

Submitted in partial fulfilment for the award of degree of

**BACHELOR OF ENGINEERING**  
In  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

**SHOBHITHA N**  
**SUSHMA L**  
**ARPITHA M**  
**DEEKSHITHA T P**

**(1RR22EE027)**  
**(1RR22EE034)**  
**(1RR23EE401)**  
**(1RR23EE408)**

Under the guidance of  
**Prof. UDHYAMI M B**  
Assistant Professor

Department of Electrical and Electronics Engineering



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2025-2026



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**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**

This is to certify that the project work entitled on **“ADVANCED NEONATAL INCUBATOR IoT FOR CONTINUOUS MONITORING”** is a Bonafede work carried out by **SHOBHITHA N (1RR22EE027), SUSHMA L(1RR22EE034), DEEKSHITHA T P(1RR23EEE408), ARPITHA M (1RR23EE401)** in partial fulfilment the award of **Bachelor of Engineering** in ‘**Electrical and Electronics Engineering**’ of the **Visvesvaraya Technological University, Belgaum** during the year **2025- 2026**. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

Signature of the Guide

Prof. Udhyami M B

Signature of the HOD

Dr. P Ebby Darney

Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. EBBY DARNEY P
2. Dr. Amanulla

Signature with Date

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi – 590018**



**Phase -II**

**Main Project Report on**

**“QUADCOPTER for crop health monitoring and precision farming”**

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

**BACHELOR OF ENGINEERING**

**IN**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

**MANOJ KUMAR N (1RR23EE417)**

**GURU KIRAN AL (1RR23EE409)**

**KAVANA N (1RR23EE411)**

**TEJASHREE R (1RR23EE426)**

Under the guidance of

**Prof. AVINASH C M**

**Assistant professor**

**Department of Electrical and Electronics Engineering**



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**2025-2026**



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#14, Ramohalli Cross, Mysore Road, Kumbalagodu, Bengaluru-74

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



### CERTIFICATE

This is to certify that the project work entitled - "QUADCOPTER for crop health monitoring and precision farming" is a bonafide work carried out by Manoj Kumar N (1RR23EE417), Guru Kiran AL(1RR23EE409), Kavana N (1RR23EE411), Tejashree R (1RR23EE426), of Rajarajeswari college of Engineering in partial fulfillment for the award of Bachelor of Engineering in 'Electrical and Electronics Engineering' of the Visvesvaraya Technological university, Belagavi during the year 2025- 2026. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report & deposited in the department library. The renewable energy source project report has been approved as it satisfies the academic requirement for the said degree.

Signature of the Guide

Prof. Avinash C M

Signature of HOD

Dr. P Ebby Darney

Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. EBBY DARNEY P

2. Dr. Anwar ulhaq

Signature with Date

1. Dr. P Ebby Darney 21/1/26

2. Dr. Anwar ulhaq 21/1/26

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi – 590018**



**Phase -II**

**Main Project Report on**

**“QUADCOPTER for crop health monitoring and precision farming”**

**Submitted in partial fulfilment of the requirement for the award of degree of**

**BACHELOR OF ENGINEERING  
IN  
ELECTRICAL AND ELECTRONICS ENGINEERING**

**Submitted by**

<b>KAVANA N</b>	<b>(1RR23EE411)</b>
<b>GURU KIRAN AL</b>	<b>(1RR23EE409)</b>
<b>MANOJ KUMAR N</b>	<b>(1RR23EE417)</b>
<b>TEJASHREE R</b>	<b>(1RR23EE426)</b>

**Under the guidance of**

**Prof. AVINASH C M**

**Assistant professor**

**Department of Electrical and Electronics Engineering**



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**2025-2026**



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#14, Ramohalli Cross, Mysore Road, Kumbalagodu, Bengaluru-74

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



### CERTIFICATE

This is to certify that the project work entitled - "QUADCOPTER for crop health monitoring and precision farming" is a bonafide work carried out by, Kavana N (1RR23EE411), Guru Kiran AL (1RR23EE409), Manoj Kumar N (1RR23EE417) Tejashree R (1RR23EE426), of Rajarajeswari college of Engineering in partial fulfilment for the award of Bachelor of Engineering in 'Electrical and Electronics Engineering' of the Visvesvaraya Technological university, Belagavi during the year 2025- 2026. It is certified that all corrections / suggestions indicated for internal assessment have been incorporated in the report & deposited in the department library. The renewable energy source project report has been approved as it satisfies the academic requirement for the said degree.

Signature of the Guide

Prof. Avinash C M

Signature of HOD

Dr. P Ebby Darney

Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. EBBY DARNNEY

2. Dr. Amanulla

Signature with Date

1. [Signature] 21/1/2026

2. [Signature] 21/1/2026

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
Jnana Sangama, Belagavi – 590018



**Phase -II**

**Main Project Report on**  
**“IOT Based Robotic Arm to Support Labors in Substations”**

Submitted in partial fulfilment for the award of degree of

**BACHELOR OF ENGINEERING**  
In  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

**PAVAN B R** (1RR23EE419)

**PREM KUMAR M** (1RR23EE420)

**SANTHOSH M** (1RR23EE425)

Under the guidance of

**Dr. T C MANJUNATH**  
Dean Research (R&D)

**Prof. UDHYAMI M B.**  
Assistant professor

**Department of Electrical and Electronics Engineering**



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**#14, Ramohali Cross, Mysore Road, Kumbalagadu, Bengaluru-74**  
**2025-2026**



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#14, Ramohali Cross, Mysore Road, Kumbalagadu, Bengaluru-74

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled on "IOT Based Robotic Arm to Support Labors in Substations" is a Bonafide work carried out by PAVAN B R [1RR23EE419], PREM KUMAR M [1RR23EE420] & SANTHOSH M [1RR23EE425] in partial fulfilment the award of Bachelor of Engineering in 'Electrical and Electronics Engineering' of the Visvesvaraya Technological university, Belgaum during the year 2024- 2025. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

*T.C. Manjunath*  
10/11/25

**Dr. T.C. Manjunath**  
Dean Research (R&D)  
RRCE, Bangalore - 74  
Signature of the  
Guide

*Udhya M B*  
Signature of the  
Co-Guide

*P Ebby Darney*  
Signature of the  
HOD

*R. Balakrishna R*  
Signature of the  
Principal

Dr. T C Manjunath

Prof. Udhya M B

Dr. P Ebby Darney

Dr. Balakrishna R

Name of Examiner

1. *EBBY DARNEY P*
2. *Dr. Amanullah*

Signature with Date

*Jan 10 P*  
*7/1/26*  
*9/1/26*



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**PROJECT PHASE -2**

**BEE786**

**“SMART ENERGY METER WITH SOLAR POWER ANALYSIS AND  
POWER CONSUMPTION TRACKING”**

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

**BACHELOR OF ENGINEERING**

**In**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

**Submitted by**

<b>PAVAN KUMAR R L</b>	<b>(1RR22EE020)</b>
<b>RISHITHA H S</b>	<b>(1RR22EE024)</b>
<b>SONIYA M CHAVAN</b>	<b>(1RR22EE030)</b>
<b>B M DARSHAN</b>	<b>(1RR23EE402)</b>

**Under the guidance of  
Prof. AVINASH C M  
Assistant Professor**

**Department of Electrical and Electronics Engineering**



**RAJARAJESWARI COLLEGE OF ENGINEERING**

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**2025-2026**



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Delhi] #14, Ramohali Cross, Mysore Road, Kumbalagadu, Bengaluru-74  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**

This is to certify that the project work entitled on “SMART ENERGY METER WITH SOLAR POWER ANALYSIS AND POWER CONSUMPTION TRACKING” is a Bonafede work carried out by PAVAN KUMAR R L (1RR22EE020), RISHITHA H S (1RR22EE024), SONIYA M CHAVAN (1RR22EE030), B M DARSHAN (1RR23EE402), in partial fulfilment the award of Bachelor of Engineering in ‘Electrical and Electronics Engineering’ of the Visvesvaraya Technological university, Belgaum during the year 2025 - 2026. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

Signature of the Guide

Prof. Avinash C M

Signature of the HOD

Dr. P Ebby Darney

Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. EBBY DARNEY P

2. Dr. Amanulla

Signature with Date

Dr. Balakrishna R  
9/11/26

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**PROJECT PHASE -2**

**BEE786**

**“PROSTHETIC HAND FOR PHYSICALLY CHALLENGED PEOPLE”**

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

**BACHELOR OF ENGINEERING**  
**In**  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

**SHREYAS KS**  
**SRIVATHSA N**  
**YASHAS B**

**(1RR22EE028)**  
**(1RR22EE032)**  
**(1RR22EE040)**

Under the guidance of

**Prof. NANDINI N**

**Assistant Professor**

**Department of Electrical and Electronics Engineering**



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**2025-2026**



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Delhi] #14, Ramohali Cross, Mysore Road, Kumbalagadu, Bengaluru-74  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**

This is to certify that the project work entitled on **“PROSTHETIC HAND FOR PHYSICALLY CHALLENGED PEOPLE”** is a Bonafede work carried out by **SRIVATHSA N (IRR22EE032), SHREYAS KS (IRR22EE028), YASHAS B (IRR22EE040)** in partial fulfilment the award of **Bachelor of Engineering** in ‘**Electrical and Electronics Engineering**’ of the **Visvesvaraya Technological university, Belgaum** during the year **2025 - 2026**. It is certified that all correction suggestions for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

  
Signature of the Guide

**Prof. Nandini N**

  
Signature of the HOD

**Dr. P Ebby Darney**

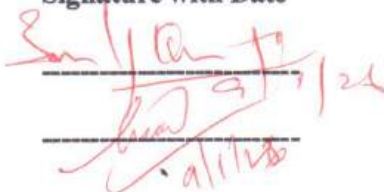
  
Signature of the Principal

**Dr. Balakrishna R**

**Name of Examiners**

1. EBBY DARNEY P
2. Dr. Amanulla

**Signature with Date**

  
\_\_\_\_\_ / \_\_\_\_ / 24  
\_\_\_\_\_

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**PROJECT PHASE -2**

**BEE786**

**“MULTITUDINOUS ELECTRIC EYE USING RASPBERRY PI IN  
DEFENCE”**

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

**BACHELOR OF ENGINEERING**  
**In**  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

**Submitted by**

<b>PRAJWAL L</b>	<b>(1RR22EE022)</b>
<b>CHIDANANDASWAMI</b>	<b>(1RR22EE008)</b>
<b>CHANDANA N</b>	<b>(1RR23EE407)</b>
<b>THEJASWINI N</b>	<b>(1RR23EE428)</b>

**Under the guidance of**  
**Prof. PRUTHA G**  
**Assistant Professor**  
**Department of Electrical and Electronics Engineering**



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**2025-2026**



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Delhi | #14, Ramohali Cross, Mysore Road, Kumbalagadu, Bengaluru-74  
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



**CERTIFICATE**

This is to certify that the project work entitled on “**MULTITUDINOUS ELECTRIC EYE USING RASPBERRY PI IN DEFENCE**” is a Bonafede work carried out by **PRAJWAL L (1RR22EE022)**, **CHIDANANDASWAMI (1RR22EE008)**, **CHANDANA N (1RR23EE407)**, **TEJASWINI (1RR23EE428)**, in partial fulfilment the award of **Bachelor of Engineering** in ‘**Electrical and Electronics Engineering**’ of the **Visvesvaraya Technological university**, Belgaum during the year **2025 - 2026**. It is certified that all correction suggestions for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

Signature of the Guide

Prof. PRUTHA G

Signature of the HOD

Dr. P Ebby Darney

Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. Shivalingaiah
2. Pavithra

Signature with Date

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**Phase -II**

**Major Project Report on**  
**MEGA-E-TRON For Defense**  
**Submitted in partial fulfillment for the award of degree of**  
**BACHELOR OF ENGINEERING**  
**In**  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

**MADHUSUDHAN.B (1RR22EE018)**  
**RAGINI SHARMA R (1RR22EE023)**  
**SAMPRAS ANGELO (1RR22EE026)**  
**ADITY WANEGON (1RR22EE039)**

Under the guidance of

**Prof. PRUTHA G**  
**Assistant professor**  
**Department of Electrical and Electronics Engineering**



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**2025-2026**



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Delhi] #14, Ramohali Cross, Mysore Road, Kumbalagadu, Bengaluru-74  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**

This is to certify that the project work entitled **MEGA-E-TRON for defense** is a Bonafede work carried out by **MADHUSUDHAN(1RR22EE018), RAGHINI SHARMA (1RR22EE023), SAMPRAS ANGELO(1RR22EE026), ADITYA WANEGON (1RR22EE039)** in partial fulfillment of the award of **Bachelor of Engineering in 'Electrical and Electronics Engineering'** of the **Visvesvaraya Technological University, Belgaum**, during the year **2025- 2026**. It is certified that all correction suggestions indicated for internal assessment have been incorporated in the report. The project report has been approved as it satisfies the academic requirement with respect to the project prescribed for the said degree.

Signature of the Guide

Prof. Prutha G

Signature of the HOD

Dr. P Ebby Darney

Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. Shivalingaiah
2. Rakesh M

Signature with Date

Prutha G 21/12/26  
ad 21/12/26

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
Jnana Sangama, Belagavi – 590018



**Phase -II**

**Major Project Report on**  
**“SMART ORGAN TRANSPORT SYSTEM WITH REAL TIME**  
**MONITORING AND GPS TRACKING USING QUADCOPTER”**

Submitted in partial fulfilment for the award of degree of  
**BACHELOR OF ENGINEERING**  
In  
**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

**DEEKSHITHA REDDY**  
**C VINOD KUMAR**  
**MALLIKARJUN K M**  
**SAMEER BASHA**

**(1RR22EE010)**  
**(1RR23EE405)**  
**(1RR23EE415)**  
**(1RR23EE423)**

Under the guidance of

**Dr. ARUL JOSE R**  
**ASSOCIATE PROFESSOR**  
Department of Electrical and Electronics Engineering



**RAJARAJESWARI COLLEGE OF ENGINEERING**

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2025-2026



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Delhi] #14, Ramohali Cross, Mysore Road, Kumbalagadu, Bengaluru-74  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**

This is to certify that the project work entitled on **“SMART ORGAN TRANSPORT SYSTEM WITH REAL TIME MONITORING AND GPS TRACKING USING QUADCOPTER”** is a Bonafede work carried out by **DEEKSHITHA REDDY (1RR22EE010), C VINOD KUMAR (1RR23EE405) MALLIKARJUN K M (1RR23EE415), SAMEER BASHA(1RR23EE423)** in partial fulfilment the award of **Bachelor of Engineering** in ‘**Electrical and Electronics Engineering**’ of the **Visvesvaraya Technological university, Belgaum** during the year **2025- 2026**. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

SIGNATURE OF THE  
GUIDE

Dr. ARUL JOSE R

SIGNATURE OF THE  
HOD

DR. P EBBY DARNEY

SIGNATURE OF THE  
PRINCIPAL

DR. BALAKRISHNA R

Name of Examiners

1. Shivalingaiah
2. Rakesh MN

Signature with Date

Shivalingaiah 5/1/26  
Rakesh MN 5/1/26

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**PROJECT PHASE -2**

**BEE786**

**“THERMOELECTRIC POWER GENERATION”**

Submitted in partial fulfilment of the award for the degree

**BACHELOR OF ENGINEERING**

**In**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

LIKITH A

(1RR22EE016)

NITHIN A

(1RR22EE019)

VIJAY KUMAR H K

(1RR22EE038)

BHARATH N J

(1RR23EE404)

Under the guidance of

**Prof. NANDINI N**

Assistant Professor

Department of Electrical and Electronics Engineering



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2025-2026



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled on “**Thermoelectric Power Generation**” is a Bonafede work carried out by **Likith A (1RR22EE016), Nithin A (1RR22EE019), Vijay Kumar H K (1RR22EE038), Bharath N J (1RR23EE404)**, in partial fulfilment the award of **Bachelor of Engineering** in ‘**Electrical and Electronics Engineering**’ of the **Visvesvaraya Technological university, Belgaum** during the year **2025 - 2026**. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

  
Signature of the Guide

Prof. Nandini N

  
Signature of the HOD

Dr. P Ebby Darney

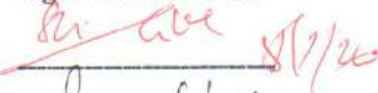
  
Signature of the Principal

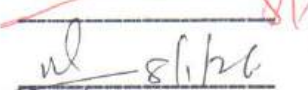
Dr. Balakrishna R

Name of Examiners

1. Shivalingaiah
2. Rakesh M N

Signature with Date

  
Shivalingaiah 8/12/26

  
Rakesh M N 8/12/26

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
**Jnana Sangama, Belagavi – 590018**



**Project Phase -II**

**BEE786**

**Major Project Report on**

**“OBJECT SORTING CONVEYOR USING DELTA PLC”**

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

**BACHELOR OF ENGINEERING**

**In**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

**Submitted by**

<b>LIKITH P</b>	<b>(1RR23EE413)</b>
<b>MANI DEEPAK S</b>	<b>(1RR23EE416)</b>
<b>PUNITH KUMAR G</b>	<b>(1RR23EE422)</b>
<b>SANDEEP B M</b>	<b>(1RR23EE424)</b>

**Under the guidance of**

**Ramya R**

**Assistant Professor**

**Department of Electrical and Electronics Engineering**



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**2025-2026**



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Delhi] #14, Ramohalli Cross, Mysore Road, Kumbalagadu, Bengaluru-74  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**



**CERTIFICATE**

This is to certify that the project work entitled on **“OBJECT SORTING CONVEYOR USING DELTA PLC”** is a Bonafede work carried out by **PUNITH KUMAR G (1RR23EE422), SANDEEP B M (1RR23EE424), MANI DEEPAK S (1RR23EE416), LIKITH P (1RR23EE413)** in partial fulfilment the award of **Bachelor of Engineering in ‘Electrical and Electronics Engineering’** of the **Visvesvaraya Technological university, Belgaum** during the year **2025-2026**. It is certified that all correction suggestions indication for internal assessment has been incorporated in the report. The project report has been approved as it satisfies the academic requirement in respect of project prescribed for the said degree.

*Ramyar*  
Signature of the Guide

Prof. Ramya R

*P Ebby Darney*  
Signature of the HOD

Dr. P Ebby Darney

*Balakrishna R*  
Signature of the Principal

Dr. Balakrishna R

Name of Examiners

1. *EBBY DARNEY P*
2. *Dr. Anantha*

Signature with Date

*P Ebby Darney*  
*Anantha*