

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi -590014



**An Internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfilment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SAI LOKESH C S**

**1KG21EC076**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr. Manu D K**

Associate Professor

Dept. Of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr. Hanumantha Reddy**

CEO/DIRECTOR

PYGENICARC

Bangalore



**KSSEM**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

Department of Electronics and Communication Engineering



## CERTIFICATE

This is to certify that an internship on “**Web Application Development**” is carried out by SAI LOKESH C S (1KG21EC076) a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**

Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

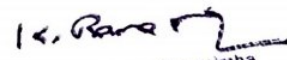


**Dr. K Senthil Babu**

Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Professor & Head**

Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

  
Dr. K. Rama Narasimha  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**

Principal/ Director  
KSSEM, Bangalore



---

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi -590014



## **An Internship report** **“EMBEDDED AND MODEL-BASED** **DESIGN TOOLS”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SHASHANK G NAYAK**

**1KG21EC083**

**Internship carried out at**

**TENET TECHNETRONICS**

**INTERNAL GUIDE**

**Dr. Manu D K**

Associate Professor

Dept. Of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr. Pandi Durai**

Design Architect

Tenet Technetronics

Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**





# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an internship on “Embedded and Model-Based Design Tool” is carried out by SHASHANK G NAYAK (1KG21EC083) a bonafide student of **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Mahu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Professor & Head**

Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore





# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi -590014



**An Internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfilment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SANJANA P**

**1KG21EC079**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**  
**Dr. Manu D K**  
Associate Professor  
Dept. Of ECE  
KSSEM, Bangalore

**EXTERNAL GUIDE**  
**Mr. Hanumantha Reddy**  
CEO/DIRECTOR  
PYGENICARC  
Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**  
**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

Department of Electronics and Communication Engineering



## CERTIFICATE

This is to certify that an internship on “**Web Application Development**” is carried out by SANJANA P (1KG21EC079) a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

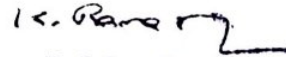
  
**Dr. Manu DK**

Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore



**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109



Dr. K. Rama Narasimha  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi -590014



**An Internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SAI MEGHANA K M**

**1KG21EC077**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr. Manu D K**

Associate Professor

Dept. Of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr. Hanumantha Reddy**

CEO/DIRECTOR

PYGENICARC

Bangalore



**KSSEM**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING K.  
S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**





# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



### CERTIFICATE

This is to certify that an Internship on “**Web Application Development**” is carried out by SAI MEGHANA K M (1KG21EC077) a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT49) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.



**Dr. Manu DK**  
Internship Co-Ordinator  
Dept. of ECE,  
KSSEM, Bangalore



**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore  
**Professor & Head**

Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109



**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director .  
KSSEM, Bangalore

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SIMRAN TAJ B**

**1KG21EC087**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr. Manu D K**

Associate Professor

Dept. Of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr. Hanumantha Reddy**

CEO/DIRECTOR

PYGENICARC

Bangalore



**KSSEM**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING K.  
S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

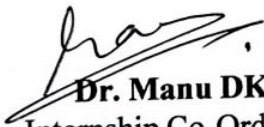
## Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

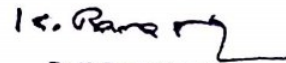
This is to certify that an Internship on “**Web Application Development**” is carried out by SIMRAN TAJ B(1KG21EC087) a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT49) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.



**Dr. Manu DK**  
Internship Co-Ordinator  
Dept. of ECE,  
KSSEM, Bangalore



**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore



**Dr. K. Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director .  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109



# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“EMBEDDED AND MODEL-BASED  
DESIGN TOOLS”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SHASHANK S**

**1KG21EC084**

**Internship carried out at**

**TENET TECHNETRONICS**

**INTERNAL GUIDE**

**Dr. Manu D K**

Associate Professor

Dept. Of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr. Pandi Durai**

Design Architect

Tenet Technetronics

Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an internship on “Embedded and Model-Based Design Tool” is carried out by SHASHANK S (1KG21EC084) a bonafide student of **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

**Dr. K. Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“SMART STREET LIGHT USING LDR SENSORS”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**NITHIN B**

**1KG21EC058**

**Internship carried out at**

**DEV MINDS**

**INTERNAL GUIDE**

**Dr.Manu D K**

Associate Professor

Dept.of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr Paramesh kumar**

IoT Developer

Mentor

Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**





# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

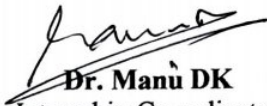
## Department of Electronics and Communication Engineering




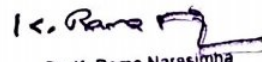
**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “SMART STREET LIGHT USING LDR SENSORS” is carried out by **NITHIN B(1KG21EC058)** a bonafide student of **K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Rama Narasimha**  
Principal/Director  
K.S. School of Engineering and Management  
Bangalore - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  
Jnana Sangama, Belagavi -590014



**An Internship report**  
**“SMART STREET LIGHT USING LDR SENSOR”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SUDHEERSHANA KV**

**1KG21EC092**

**Internship carried out at**

**DEV MINDS**

**INTERNAL GUIDE**

**Dr.Manu D K**

Associate Professor

Dept.of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Shankarling Kalashetty**

Software Developer

Dev Minds

Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

**K.S. School of Engineering and Management**  
No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

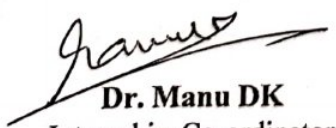
**Department of Electronics and Communication Engineering**



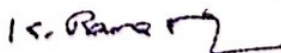
**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

**CERTIFICATE**

This is to certify that an Internship on “SMART STREET LIGHT USING LDR SENSOR” is carried out by SUDHEERSHANA K V (1KG21EC092) a bonafide student of K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore  
**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

  
**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore



# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

Jnana Sangama, Belagavi -590014



## **An Internship report**

**“SMART ALTERING SYSTEMS USING TELGRAMBOT AND NODEMCU”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**T VENKATESH**

**1KG21EC094**

**Internship carried out at**

**DEV MINDS**

**INTERNAL GUIDE**

**Dr. Manu D K**  
Associate Professor  
Dept.of ECE  
KSSEM, Bangalore

**EXTERNAL GUIDE**  
**Shankarling kalashetty**  
Founder of DevMinds  
Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

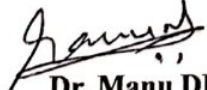
## Department of Electronics and Communication Engineering



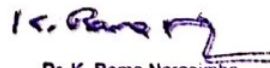
**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “Smart Altering Systems using Telegram Bot and Node MCU” is carried out by T VENKATESH (1KG21EC094) a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore  
**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

  
**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangalore - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

Jnana Sangama, Belagavi -590014



## **An Internship report “WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**TEJAS.K**

**1KG21EC095**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr.Manu D K**

Associate Professor

Dept.of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr.Hanumantha Reddy**

CEO/DIRECTOR

PYGENICARC

Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



**K.S. School of Engineering and Management**  
No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109


**Department of Electronics and Communication Engineering**




**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

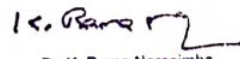
## CERTIFICATE

This is to certify that an Internship on “**Web Application Development**” is carried out by **TEJAS.K (1KG21EC095)** a bonafide student of **K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

  
**Dr. K. Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

Jnana Sangama, Belagavi -590014



**An Internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfilment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**THANUSHA R**

**1KG21EC096**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr. Manu D K**

**Associate Professor**

**Dept. Of ECE**

**KSSEM, Bangalore**

**EXTERNAL GUIDE**

**Mr. Hanumantha Reddy**

**CEO/DIRECTOR**

**PYGENICARC**

**Bangalore**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

## CERTIFICATE

This is to certify that an internship on “**Web Application Development**” is carried Out by **THANUSHAR(1KG21EC096)** a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfilment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**

Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore



**Dr. K Senthil Babu**

Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109



**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bengaluru - 560 109

**Dr. K Rama Narasimha**

Principal/ Director  
KSSEM, Bangalore

**VISVESVARAYATECHNOLOGICALUNIVERSITY**

**JnanaSangama,Belagavi-590014**



**An Internship report**

**“AARIV Technologies”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**THARUN KUMAR D R**

**1KG21EC097**

**Internship carried out at**

**AARIV Technologies**

**INTERNALGUIDE**  
**Dr.Manu D K**  
Associate Professor  
Dept. of ECE  
KSSEM ,Bangalore

**EXTERNALGUIDE**  
**Mr .Vinay**  
CEO/DIRECTOR  
AARIV TECHNOLOGIES  
Bangalore



**DEPARTMENTOFELECTRONICSANDCOMMUNICATIONENGINEERING**  
**K.S.SCHOOLOFENGINEERINGAND MANAGEMENTBENGALURU-560109**

**2023-24**



# K.S. School of Engineering and Management

No.15, Mallasandra, off Kanakapura Road, Bangalore 560109

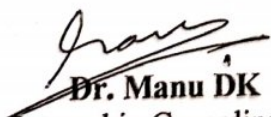
## Department of Electronics and Communication Engineering




**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on "RTL Design and verification" is carried out by THARUN KUMAR D R(1KG21EC097) a bonafide student of K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. KSenthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K. Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangalore - 560 109  
**Dr. K Rama Narasimha**  
Principal/Director  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109



# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship Report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**THEERTHA RAJ G**

**1KG21EC098**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr. Manu D K**

**Associate Professor**

**Dept. of ECE**

**KSSEM, Bangalore**

**EXTERNAL GUIDE**

**Mr. Hanumantha Reddy**

**CEO/DIRECTOR**

**PYGENICARC**

**Bangalore**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



**KSSEM**  
K S SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an internship on “**Web Application Development**” is carried out by THEERTHA RAJ(1KG21EC098) a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belagavi during the year 2023-24. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K. Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director.  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi -590014



**An Internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SAHANA S**

**1KG21EC074**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr. Manu D K**  
Associate Professor  
Dept. Of ECE  
KSSEM, Bangalore

**EXTERNAL GUIDE**  
**Mr. Hanumantha Reddy**  
CEO/DIRECTOR  
PYGENICARC  
Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109


## Department of Electronics and Communication Engineering




**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “Web Application Development” is carried out by SAHANA S (1KG21EC074) a bonafide student of K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT49) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-Ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore  
**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

  
**Dr. K Rama Narasimha**  
Principal/Director  
K.S. School of Engineering and Management  
Bangalore - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore



# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“EMBEDDED SYSTEM DEVELOPMENT TRAINEE”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**ROHITH M J**

**1KG21EC073**

**Internship carried out at**

**KONIGTRONICS(OPC)  
PRIVATE LIMITED**

**INTERNAL GUIDE**

**Dr.Manu D K**  
Associate Professor  
Dept.of ECE  
KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr Vishesh S**  
Managing Director  
Konigtronics(opc)  
PVT LTD, Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

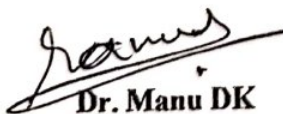
**K.S. School of Engineering and Management**  
No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109


**Department of Electronics and Communication Engineering**

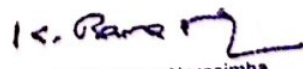


## CERTIFICATE

This is to certify that an Internship on “**Embedded System Development Trainee**” is carried out by , **ROHITH M J (1KG21EC073)** a bonafide student of **K S SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangalore - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

Jnana Sangama, Belagavi -590014



## **An Internship report**

**“SMART ALTERING SYSTEMS USING TELGRAMBOT AND NODEMCU”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**RAYAVARAM ABHINASH**

**1KG21EC072**

**Internship carried out at**

**DEV MINDS**

**INTERNAL GUIDE**

**Dr.Manu D K**

Associate Professor

Dept.of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Shankarling kalashetty**

Founder of DevMinds

Bangalore



**KSSEM**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “Smart Altering Systems using Telegram Bot and Node MCU” is carried out by RAYAVARAM ABHINASH (1KG21EC072) a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore  
**Professor & Head**

Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi -590014



**An Internship report**

**“EMBEDDED AND MODEL-BASED  
DESIGN TOOLS”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**RAM PRASAD P V**

**1KG21EC071**

**Internship carried out at**

**TENET TECHNETRONICS**

**INTERNAL GUIDE**

**Dr. Manu D K**

Associate Professor

Dept. Of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr. Pandi Durai**

Design Architect

Tenet Technetronics

Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

Department of Electronics and Communication Engineering



**KSSEM**  
K.S. School of Engineering and Management

## CERTIFICATE

This is to certify that an internship on “Embedded and Model-Based Design Tool” is carried out by RAM PRASAD P V (1KG21EC071) a bonafide student of **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangalore - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109



# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi -590014



**An Internship report**

**“RTL DESIGN AND VERIFICATION ”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SAI CHOWDARY L**

**1KG21EC075**

**Internship carried out at**

**AARIV Technologies**

**INTERNAL GUIDE**

**Dr.Manu D K**

Associate Professor

Dept.of ECE

KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr.VINAY**

CEO/DIRECTOR

AARIV TECNOLOGY

Bangalore



**KSSEM**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

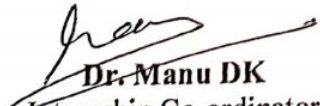
## Department of Electronics and Communication Engineering

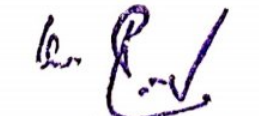


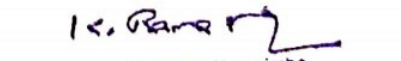
**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “RTL Design and verification” is carried out by SAI CHOWDARY L (1KG21EC075) a bonafide student of **K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Rama Narasimha**  
Principal/Director  
K.S. School of Engineering and Management  
Bangalore - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfillment of the Requirements for  
Bachelor of Engineering**

**IN**

**Electronics and Communication Engineering**

**Submitted by**

**SPOORTHI V**

**1KG21EC090**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr. MANU DK**

Associate Professor

Dept. of ECE

KSSEM, Bangalore.

**EXTERNAL GUIDE**

**Mr. Hanumantha Reddy**

CEO/DIRECTOR

PYGENICARC

Bangalore.



**KSSEM**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 - 24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

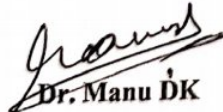
## Department of Electronics and Communication Engineering




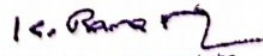
**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an internship on “**Web Application Development**” is carried out by **SPOORTHI V (1KG21EC090)**, a bonafide student of **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE**, in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under Visvesvaraya Technological University, Belgaum, during the years 2023–24. It is certified that all corrections and suggestions indicated for internal assessment have been incorporated into the report deposited in the departmental library. The internship report (21INT68) has been approved as it satisfied the academic requirements with respect to the internship work prescribed for the said degree.

  
**Dr. Manu DK**  
Internship Co-Ordinator  
Dept. of ECE,  
KSSEM, Bangalore.

  
**Dr. K Senthil Babu**  
Professor & Head  
Dept. of ECE,  
KSSEM, Bangalore.

  
**Dr. K. Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/Director  
KSSEM, Bangalore.

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“EMBEDDED AND MODEL-BASED  
DESIGN TOOLS”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SHASHANK B VENKATESH**

**1KG21EC082**

**Internship carried out at**

**TENET TECHNETRONICS**

**INTERNAL GUIDE**

**Dr. Manu D K**  
Associate Professor  
Dept. Of ECE  
KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr. Pandi Durai**  
Design Architect  
Tenet Technetronics  
Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

## CERTIFICATE

This is to certify that an internship on “Embedded and Model-Based Design Tool” is carried out by SHASHANK B VENKATESH (1KG21EC082) a bonafide student of **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109



# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SATHVIK A N**

**1KG21EC081**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr.Manu D K**

**Associate Professor**

**Dept.of ECE**

**KSSEM, Bangalore**

**EXTERNAL GUIDE**

**Mr.Hanumantha Reddy**

**CEO/DIRECTOR**

**PYGENICARC**

**Bangalore**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



**KSSEM**  
K S SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “**Web Application Development**” is carried out by SATHVIK A N (1KG21EC081) a bonafide student of **K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“BLINKING LED USING LDR SENSORS”**

**Submitted in Partial Fulfillment of the Requirements for  
Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SARIPUTI CHENNAKESAVA NAIDU**

**1KG21EC080**

**Internship carried out at  
DEV MINDS, Bangalore**

**INTERNAL GUIDE**

**Dr. Manu D K**  
Associate Professor  
Dept. of ECE  
KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr. Paramesh Kumar**  
IoT Developer  
Mentor  
Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “BLINKING LED USING LDR SENSOR” is carried out by SARIPUTI CHENNAKESAVA NAIDU(1KG21EC080) a Bonafide student of K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Professor & Head**

Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

**Dr. K. Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director.  
KSSEM, Bangalore

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



## **An Internship report**

### **“SMART ALTERNATIVE SYSTEMS USING TELGRAM BOT AND NODEMCU”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**S ABHINAY**

**1KG21EC078**

**Internship carried out at**

**DEV MINDS**

**INTERNAL GUIDE**

**Dr.Manu D K**

**Associate Professor**

**Dept.of ECE**

**KSSEM, Bangalore**

**EXTERNAL GUIDE**

**Shankarling kalashetty**

**Founder of DevMinds**

**Bangalore**



**KSSEM**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109


## Department of Electronics and Communication Engineering



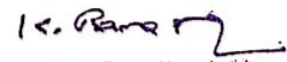
**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “Smart Alternative Systems using Telegram Bot and Node MCU” is carried out by S ABHINAY (1KG21EC078) a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore  
**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

  
**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore



# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SONU N**

**1KG21EC089**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr. Manu D K**

**Associate Professor**

**Dept. of ECE**

**KSSEM, Bangalore**

**EXTERNAL GUIDE**

**Mr. Hanumantha Reddy**

**CEO/DIRECTOR**

**PYGENICARC**

**Bangalore**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109


**Department of Electronics and Communication Engineering**




**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

## CERTIFICATE

This is to certify that an Internship on “Web Application Development” is carried out by Sonu N (1KG21EC089) a bonafide student of **K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore  
**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

  
**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“AUTOMATION OF LIGHT USING NODE MCU”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SONISH K R**

**1KG21EC088**

**Internship carried out at**

**DEV MINDS**

**INTERNAL GUIDE**

**Dr.Manu D K**

**Associate Professor**

**Dept.of ECE**

**KSSEM, Bangalore**

**EXTERNAL GUIDE**

**Shankarling kalashetty**

**Founder of DevMinds**

**Bangalore**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

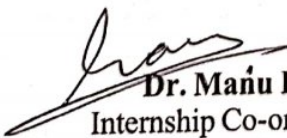
## Department of Electronics and Communication Engineering



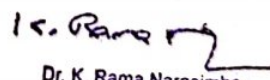
**KSSEM**  
K S SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “Automation of light using node mcu” is carried out by SONISH K R(1KG21EC088) a bonafide student of **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore  
**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

  
**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangalore - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“DESIGN INTERNSHIP – AHB2APB BRIDGE DESIGN”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SHREYA M DAMBAL**

**1KG21EC086**

**Internship carried out at**

**Maven Silicon VLSI Training Center**

**South Taluk, 21/1A, III Floor, MS Plaza, Gottigere Uttarahalli Hobli, Bannerghatta Rd,  
Bengaluru, Karnataka 560076**

**INTERNAL GUIDE**

**Dr.Manu D K**

**Associate Professor**

**Dept.of ECE**

**KSSEM, Bangalore**

**EXTERNAL GUIDE**

**Ms.Sathya / Ms. Sandhya**

**Maven Silicon VLSI Training**

**Bangalore**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

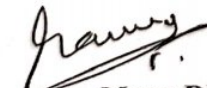
## Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “DESIGN INTERNSHIP – AHB2APB BRIDGE DESIGN” is carried out by SHREYA M DAMBAL (1KG21EC086) a bonafide student of K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE in complete fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore  
**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

  
**Dr. K Rama Narasimha**  
Principal/Director  
K.S. School of Engineering and Management  
Bangalore - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore



# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“WEB APPLICATION DEVELOPMENT”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**SHIJU LUKOSE**

**1KG21EC085**

**Internship carried out at**

**PYGENICARC**

**INTERNAL GUIDE**

**Dr.Manu D K**  
Associate Professor  
Dept.of ECE  
KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr.Hanumantha Reddy**  
CEO/DIRECTOR  
PYGENICARC  
Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “**Web Application Development**” is carried out by **SHIJU LUKOSE (1KG21EC085)** a bonafide student of **K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K. Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Professor & Head**

Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

**Dr. K. Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K. Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi -590014



An Internship report

## “AUTOMATION OF LIGHT USING NODE MCU”

Submitted in Partial fulfillment of the Requirements for

Bachelor of Engineering

In

Electronics and Communication Engineering

Submitted by

NIKHIL P N

1KG21EC057

Internship carried out at

DEV MINDS

INTERNAL GUIDE

**Dr. Manu D K**  
Associate Professor  
Dept. of ECE  
KSSEM, Bangalore

EXTERNAL GUIDE  
**Shankarling kalashetty**  
Founder of DevMinds  
Bangalore



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109

2023 -24



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an Internship on “Automation of light using node mcu” is carried out by NIKHIL P N (1KG21EC057) a bonafide student of **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangaluru - 560 109

**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109

# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**  
**“EMBEDDED AND MODEL-BASED  
DESIGN TOOLS”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**NITIN KUMAR N**

**1KG21EC059**

**Internship carried out at**

**TENET TECHNETRONICS**

**INTERNAL GUIDE**

**Dr. Manu D K**  
Associate Professor  
Dept. Of ECE  
KSSEM, Bangalore

**EXTERNAL GUIDE**

**Mr. Pandi Durai**  
Design Architect  
Tenet Technetronics  
Bangalore



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**



# K.S. School of Engineering and Management

No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109

## Department of Electronics and Communication Engineering



**KSSEM**  
K.S. SCHOOL OF ENGINEERING AND MANAGEMENT

### CERTIFICATE

This is to certify that an internship on “Embedded and Model-Based Design Tool” is carried out by NITIN KUMAR N (1KG21EC059) a bonafide student of **K. S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

**Dr. K Rama Narasimha**  
Principal/Director  
K S School of Engineering and Management  
Bangalore - 560 109  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109



# **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**Jnana Sangama, Belagavi -590014**



**An Internship report**

**“SMART STREET LIGHT USING LDR SENSORS”**

**Submitted in Partial fulfillment of the Requirements for**

**Bachelor of Engineering**

**In**

**Electronics and Communication Engineering**

**Submitted by**

**PATHAKAMURI BALACHANDRA**

**1KG21EC060**

**Internship carried out at**

**DEV MINDS, Bangalore**

**INTERNAL GUIDE**

**Dr. Manu D K**

**Associate Professor**

**Dept. of ECE**

**KSSEM, Bangalore**

**EXTERNAL GUIDE**

**Mr Paramesh kumar**

**IoT Developer**

**Mentor**

**Bangalore**



**KSSEM**

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT BENGALURU-560109**

**2023 -24**

# K.S. School of Engineering and Management


No. 15, Mallasandra, off Kanakapura Road, Bangalore 560109


## Department of Electronics and Communication Engineering

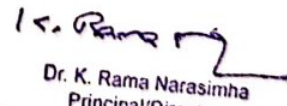


### CERTIFICATE

This is to certify that an Internship on “SMART STREET LIGHT USING LDR SENSORS” is carried out by PATHAKAMURI BALACHANDRA (1KG21EC060) a bonafide student of **K.S.SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE** in partial fulfillment for the award of Bachelor of Engineering in Electronics and Communication Engineering under 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 internship report (21INT68) has been approved as it satisfied the academic requirements in respect of internship work prescribed for the said Degree.

  
**Dr. Manu DK**  
Internship Co-ordinator  
Dept. of ECE,  
KSSEM, Bangalore

  
**Dr. K Senthil Babu**  
Professor & Head,  
Dept. of ECE,  
KSSEM, Bangalore

  
Dr. K. Rama Narasimha  
Principal/Director  
K S School of Engineering and Management  
**Dr. K Rama Narasimha**  
Principal/ Director  
KSSEM, Bangalore

**Professor & Head**  
Dept. of Electronics & Communication Engineering  
K.S. School of Engineering & Management  
Bangalore - 560 109