



## **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY**

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### **CERTIFICATE**

This is to certify that the project work entitled "VEHICLE THEFT CONTROL AND ALCOHOL DETECTION INTIMATION THROUGH SMS" is being submitted by J.PRAVALLIKA (17U41A0418), D.ALEKHYA (17U41A0409), S.SRINIVASA RAO (17U41A0451), B.DEEPAK SRINIVAS KUMAR (17U41A0423), S.SAI RAM (17U41A0455) in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

**Ms. Sheik Shabeena**

**(Asst. Professor of ECE)**

**(PROJECT GUIDE)**

**Mr. K. Joginaidu**

**(Assoc. Professor of ECE)**

**(HEAD OF THE DEPARTMENT)**

**EXTERNAL EXAMINER**

**BLOOD CELLS DETECTION AND COUNTNG FROM  
MICROSCOPIC BLOOD IMAGES**

A Project Report submitted in partial fulfilment of the  
Requirements for the award of the Degree of  
Bachelor of Technology In

**ELECTRONICS AND COMMUNICATION  
ENGINEERING**

Submitted by

Y. Lavanya	17U41A0462
S.Divya	18U45A0412
k.Mounika	17U41A0468
Ch. Chetan Satya	17U41A0471

Under the Esteemed Guidance of  
**Mr. M. Kishore Kumar M.Tech,(Ph.D)**  
Asst.Professor, Department of ECE



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**NH-16, Anakapalle-531002, Visakhapatnam, A.P.2020-2021**

**Diet** **DADI INSTITUTE OF ENGINEERING & TECHNOLOGY**

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NH-16, Anakapalle-531002, Visakhapatnam, A.P.2020-2021

**CERTIFICATE**

This is to certify that the Project work entitled "BLOOD CELLS DETECTION AND COUNTING FROM MICROSCOPIC BLOOD IMAGES "is being submitted by Y.Lavanya(17U41A0462), S.Divya(18U45A0412), K.Mounika(17U41A0468), CH.Chetan satya(17U41A0471) by in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

*M. Kishore Kumar*

Mr. M.KISHORE KUMAR  
(ASSISTANT PROFESSOR)  
(PROJECT GUIDE)

*P. Room No 29/7 bi*  
*for* Mr. K.JOGINAIDU

(ASSOCIATE PROFESSOR)  
(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER



**VEHICLE THEFT CONTROL AND ALCOHOL  
DETECTION INTIMATION THROUGH SMS**

A Project Report submitted in partial fulfillment of the  
requirements for the award of the Degree of

**BACHELOR OF TECHNOLOGY**  
**IN**  
**ELECTRONICS AND COMMUNICATION**  
**ENGINEERING**

Submitted by

<b>T. DIVYA</b>	<b>(18U45A0421)</b>
<b>G. CHANDRA KALA</b>	<b>(17U41A0470)</b>
<b>K. SIRISHA</b>	<b>(18U45A0413)</b>
<b>K. KUSUMA</b>	<b>(18U45A0416)</b>
<b>K. CHANDRA MOULI</b>	<b>(18U45A0419)</b>

Under the Guidance of

**Mrs. B. T. Archana** M. Tech

Asst. Professor, Dept. of ECE



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Institution

**NH16, Anakapalle -531002, Visakhapatnam, A.P**

**CERTIFICATE**

This is to certify that the project work entitled "VEHICLE THEFT CONTROL AND ALCOHOL DETECTION INTIMATION THROUGH SMS" is being submitted by T. DIVYA (18U45A0421), G. CHANDRA KALA (17U41A0470), K. SIRISHA (18U45A0413), K. KUSUMA (18U45A0416), K. CHANDRA MOULI (18U45A0419) in partial fulfillment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

*Aschaff*

**Mrs. B.T. Archana**  
(Asst. Professor of ECE)  
(PROJECT GUIDE)

*P-Poornima*  
*29/7/21*  
**Mr. K. Joginaidu**  
(Assoc. Professor of ECE)  
(HEAD OF THE DEPARTMENT)

**EXTERNAL EXAMINER**



5

**IDENTIFYING AND CLASSIFICATION OF GAIT  
IMAGES USING GEI DECOMPOSITION AND SVM**

A Project Report submitted in partial fulfilment of the  
requirements for the award of the Degree of  
**BACHELOR OF TECHNOLOGY IN  
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

<b>N.SIRISHA</b>	<b>(17U41A0440)</b>
<b>CH.SRITHA RAMALAKSHMI</b>	<b>(17U41A0408)</b>
<b>P.TEJA</b>	<b>(17U41A0443)</b>
<b>G.SAI GANESH</b>	<b>(17U41A0415)</b>
<b>B.NARENDRA ASHOK</b>	<b>(17U41A0403)</b>

*Under the Esteemed Guidance of*

**Mrs. B.T. Archana M.Tech**

Asst. Professor, Department of E.C.E



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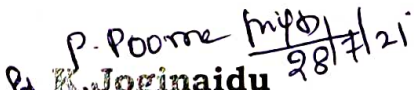

2021

**CERTIFICATE**

This is to certify that the project work entitled "IDENTIFYING AND CLASSIFICATION OF GAIT IMAGES USING GEI DECOMPOSITION AND SVM" is being submitted by N.SIRISHA (17U41A0440), CH.SRITHA RAMALAKSHMI (17U41A0408), P.TEJA (17U41A0443), G.SAI GANESH (17U41A0415), B.NARENDRA ASHOK (17U41A0403) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

  
**Mrs B.T.Archana**  
(Asst. Professor of ECE)

(Project Guide)

  
**P. Poornima**  
  
**K. Joginaidu**  
(Associate Professor)

(Head of the department)

EXTERNAL EXAMINER



**ROBUST IMAGE WATERMARKING IN  
FREQUENCY DOMAIN USING BACK  
PROPAGATION NEURAL NETWORKS**

*A Project Report submitted in partial fulfillment of the requirements for the  
award of the Degree of BACHELOR OF TECHNOLOGY*

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

*Submitted by*

<b>G.V.S. ARUN KUMAR</b>	<b>17U41A0435</b>
<b>N. ALEKHYA</b>	<b>17U41A0437</b>
<b>A. ROHIT NAIDU</b>	<b>17U41A0402</b>
<b>S. SANTHOSHI</b>	<b>17U41A0456</b>

*Under the Esteemed Guidance of*

**Dr. P. Poorna Priya**

**Associate Professor, Department of ECE**



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NH-5, Anakapalle-531002, Visakhapatnam, A.P 2020-2021

### CERTIFICATE

This is to certify that the Project work entitled "ROBUST IMAGE WATERMARKING IN FREQUENCY DOMAIN USING BACK PROPAGATION NEURAL NETWORKS" is being submitted by G.V.S. ARUN KUMAR (17U41A0435), N. ALEKHYA (17U41A0437), A.ROHIT NAIDU (17U41A0402), S. SANTHOSHI (17U41A0456) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020-2021.

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**Dr. P. Poorna Priya**

(ASSOCIATE PROFESSOR)

(PROJECT GUIDE)

*Dr. P. Poorna Priya 26/7/21*  
**Mr. K. JOGI NAIDU**

(ASSOCIATE PROFESSOR)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER



# **ESP32 CAM BASED SURVEILLANCE SPY CAR**

**A Project Report submitted in partial fulfilment of the  
requirements for the award of the Degree of**

## **BACHELOR OF TECHNOLOGY**

**IN**

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

*Submitted by*

PREETI SAH	17U41A0447
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P. JANARDHAN	17U41A0445
S. BHAVANI	17U41A0452
S. NAGAMANI	17U41A0453

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**Mrs. M. KASIYAMMAL B.E, M.Tech**

Asst. Professor, Department of ECE



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NH-5, Anakapalle-531002, Visakhapatnam, A.P

**CERTIFICATE**

This is to certify that the Project work entitled "ESP32 CAM BASED SURVEILLANCE SPY CAR" is being submitted by PREETI SAH (17U41A0447), B DIVYA MAHIMA (17U41A0404), P JANARDHAN (17U41A0445), S BHAVANI (17U41A0452), and S NAGAMANI (17U41A0453) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020-2021.

**Mrs M. KASIYAMMAL**

**(ASST.PROFESSOR)**

**(PROJECT GUIDE)**

**Mr K. JOGI NAIDU**  
**(ASSOCIATE PROFESSOR)**

**(HEAD OF THE DEPARTMENT)**

**EXTERNAL EXAMINER**



# ARDUINO BASED WATER QUALITY MANAGEMENT SYSTEM

*A Project Report submitted in fulfillment of the requirements  
for the award of the Degree of BACHELOR OF  
TECHNOLOGY IN ELECTRONICS AND  
COMMUNICATION ENGINEERING.*

Submitted by

V.HARICHANDANA  
S. VASUNDHARA  
V.N.D.N. PAVAN

17U41A0459  
17U41A0457  
17U41A0460

Under the Esteemed Guidance of  
**Mr. S. SURESH KUMAR**

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Asst. Professor, Department of ECE



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NH-5, Anakapalle-531002, Visakhapatnam,

A.P2020-2021

### CERTIFICATE

This is to certify that the Project work entitled "ARDUINO BASED WATERQUALITY MANAGEMENT SYSTEM" is being submitted by V.HARICHANDANA (17U41A0459), S.VASUNDHARA (17U41A0457), V.N.D.N.PAVAN (17U41A0460), in fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020-2021.

*P. Poorn Prigo*  
Mr. S.SURESHKUMAR

*for* (ASST.PROFESSOR)

(PROJECTGUIDE)

*P. Poorn Prigo*  
Mr. K.JOGINAIDU

(ASSOCIATE PROFESSOR)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER



# **ANDROID BASED REAL TIME VEHICLE TRACKING SYSTEM**

A project report submitted in partial  
fulfillment of the requirement for award of the degree of  
**Bachelor of Technology**

In

**ELECTRONICS AND COMMUNICATIONS ENGINEERING**

*Has been jointly carried out by*

R.LAXMI VINEETHA	17U41A0450
K.CHANDRA HARSHA	17U41A0426
B.DHARANI	17U41A0406
K.SATISH KUMAR	17U41A0428
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Under the Esteemed Guidance of

**Dr. A. SUNDARABALA, M.Tech**

Asst. Professor, Dept of ECE



Department of Electronics and Communications Engineering

**DADI INSTITUTE OF ENGINEERING & TECHNOLOGY**

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National Highway-16, Anakapalle-531002, Visakhapatnam Dist, Andhra Pradesh





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National Highway -16, Anakapalle – 531002, Visakhapatnam Dist., A.P.

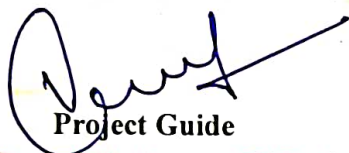
Phone: 9963981111, e-mail: [info@diet.edu.in](mailto:info@diet.edu.in), Web: [www.diet.edu.in](http://www.diet.edu.in)

---

**Department of Electronics & Communication Engineering**

**CERTIFICATE**

This is to certify that the project work entitled “ **ANDROID BASED REAL TIME VEHICLE TRACKING SYSTEM** ” is a bonafied work of **R. LAXMI VINEETHA , K. CHANDRA HARSHA , B.DHARANI, K. SATISH KUMAR, S.RAJITHA** Bearing Regd.No's: **17U41A0450, 17U41A0426, 17U41A0407, 17U41A0428, 17U41A0454** has submitted in the partial fulfillment of the requirements for the award of Bachelor of Technology in “ **Electronics & Communications Engineering** ” during the academic year 2020-2021.



**Project Guide**  
**Er. A.S.N. Varma, M.Tech.**  
**Asst.Professor, Dept of ECE**

*P. Poorna Priya*  
30/7/21  
**Head of the Department**  
**Dr. P. Poorna Priya, PhD.**  
**Asso.Professor, Dept of ECE**

**External Examiner**



# **Blind People Supporting System using Arduino**

**A Project Report submitted in partial fulfillment of the requirements for the award of the Degree of**

**BACHELOR OF TECHNOLOGY**

**IN**

**ENGINEERING**

**Submitted by**

<b>K. VENKATAPRASANNA</b>	<b>18U45A0417</b>
<b>M. MOUNIKA</b>	<b>18U45A0404</b>
<b>T. BABA</b>	<b>18U45A0429</b>
<b>L. SUNITHA</b>	<b>17U41A0463</b>
<b>P. UDAY KUMAR</b>	<b>18U45A0425</b>

**Under the Esteemed Guidance of**

**Mr. S. SURESH KUMAR, M.Tech.**

**Assistant Professor, Department of ECE**



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**NH-16, Anakapalle-531002, Visakhapatnam, A.P.2020-2021**

**CERTIFICATE**

This is to certify that the Project work entitled "BLIND PEOPLE SUPPORTING SYSTEM" is being submitted by K. VENKATAPRASANNA (18U45A0417), M. MOUNIKA (18U45A0404), T. BABA (18U45A0429), L. SUNITHA (17U41A0463), P. UADY KUMAR (18U45A0425) by in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

*P. Poornima*  
*26/7/21*  
By **Mr. S. SURESH KUMAR**

**(ASSISTANT PROFESSOR)**

**(PROJECT GUIDE)**

*P. Poornima*  
*26/7/21*  
By **Mr. K. JOGI NAIDU**

**(ASSOCIATE PROFESSOR)**

**(HEAD OF THE DEPARTMENT)**

**EXTERNAL EXAMINER**



**ARDUINO BASED WATER QUALITY MANAGEMENT SYSTEM**

**A Project Report submitted in fulfillment of the  
requirements for the award of the Degree of  
BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATIONS  
ENGINEERING**

**Submitted by**

<b>N ARUNA SREE</b>	<b>(18U45A0405)</b>
<b>K J GANAVARDHAN</b>	<b>(18U45A0415)</b>
<b>M BHAGYA SRI</b>	<b>(18U45A0403)</b>
<b>A TEJASWINI</b>	<b>(18U45A0409)</b>
<b>R RAJYA LAXMI</b>	<b>(18U45A0414)</b>

**Under the Esteemed Guidance of**

**Mrs. M. KASIYANMAL**

**B.E, M.Tech**

**Asst. Professor, Department of ECE**



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**2021**



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Certified Institution**

**NH-16, Anakapalle-531002, Visakhapatnam, AP**

**2021**

**CERTIFICATE**

This is to certify that the Project work entitled "ARDUINO BASED WATER QUALITY MANAGEMENT SYSTEM" is being submitted by N.ARUNASREE(18U45A0405), K.J.GANWARDHAN(18U45A0415), A.TEJASWI(18U45A0409), M.BHAGASRI(18U45A0403), RAJYALAXMI (18U45A0414) in fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020-2021.



**Mrs. M. KASIYAMMAL**

(ASST. PROFESSOR)

(PROJECT GUIDE)



**Mr. K. JOGINAIDU**

(ASSOCIATE PROFESSOR)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER



# **SOCIAL DISTANCING ID CARD**

*A Project Report submitted in partial fulfillment of  
the Requirements for the award of the degree of*

## **BACHELOR OF TECHNOLOGY**

**IN**

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

*Submitted by*

V.YAMINI	17U41A0461
J.SATYAVATHI	18U45A0411
K.BHAVANASREE	18U45A0423
M.BHARATH	18U45A0402
V.MADHU	17U41A0469

Under the Esteemed Guidance of

**Mr. KURITI JOGINAIDU M.Tech.,(Ph.D.)**

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Institution NH16, Anakapalli-531002, Visakhapatnam, A.P.

### **CERTIFICATE**

This is to certify that the project work entitled "SOCIAL DISTANCING ID CARD" is being submitted by V.YAMINI (17U41A0461), J.SATYAVATHI (18U45A0411), K.BHAVANASREE (18U45A0423), M.BHARATH (18U45A0402) V.MADHU (17U41A0461) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020- 2021.

*P. Poornima*  
Mr. K.JOGI NAIDU *28/7/21*  
*for*  
(ASSOCIATE PROFESSOR)

(PROJECT GUIDE)

*P. Poornima*  
Mr. K.JOGI NAIDU *28/7/21*  
*for*  
(ASSOCIATE PROFESSOR)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER



DESIGN OF A NEW LOW-POWER AND FAST  
FULL ADDER BY EXPLORING NEW XOR  
AND XNOR GATES

*A Project Report submitted in partial fulfillment of  
the requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY  
IN  
ELECTRONICS AND COMMUNICATION ENGINEERING**

***Submitted by***

K. YAMINI	18U45A0401
P. UDAY BHANU	17U41A0466
T. RAJU	18U45A0424
A. SAI KRISHNA	18U45A0430
S. VARUN BHASKHAR	18U45A0407

*Under the Esteemed Guidance of*  
**Ms. SHEIK SHABEENA M. Tech,**  
Assistant Professor, Department of ECE



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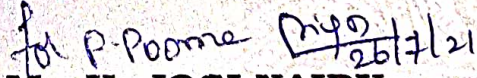
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NH -16, Anakapalle - 531002, Visakhapatnam, A.P.

## **CERTIFICATE**

This is to certify that the project work entitled "DESIGN OF A NEW LOW- POWER AND FAST FULL ADDER BY EXPLORING NEW XOR AND XNOR GATES" is being submitted by K. YAMINI (18U45A0401), P. UDAY BHANU (17U41A0466), T. RAJU (18U45A0424), A. SAI KRISHNA (18U45A0430), S. VARUN BHASKHAR (18U45A0407) by in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

  
**Ms. SHEIK SHABEENA**  
(ASSISTANT PROFESSOR)  
(PROJECT GUIDE)

  
**Mr. K. JOGI NAIDU**  
(ASSOCIATE PROFESSOR)  
(HEAD OF THE DEPARTMENT)

**EXTERNAL EXAMINER**



# **DIGITAL PARKING SYSTEM**

*A Project Report submitted in partial fulfillment of the requirements for  
the award of the Degree of BACHELOR OF TECHNOLOGY*

IN

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

D.VANI 17U41A0410

K. BHARATH KUMAR 17U41A0425

M.NANI BABU 17U41A0433

B. LAVANYA 17U41A0407

P. CHANDRIKA 17U41A0444

Under the Esteemed Guidance of

**Mrs. P. AMRUTHA**

M. Tech

Asst. Professor, Department of ECE



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2020-2021





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NH-5, Anakapalle-531002, Visakhapatnam, A.P 2020-2021

**CERTIFICATE**

This is to certify that the project work entitled "DIGITAL PARKING SYSTEM" is being submitted by D. VANI (17U41A0410), K.BHARATHKUMAR (17U41A0425), M. NANIBABU (17U41A0433), B.LAVANYA(17U41A0407), P.CHANDRIKA (17U41A0444) in partial fulfilment of the requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020-2021.

PROJECT GUIDE

*Amrutha P*  
Mrs. P. AMRUTHA

(ASST.PROFESSOR)

(PROJECT GUIDE)

*P. Poornima*  
MR. K. JOGINAIDU

(ASSOC.PROFESSOR)

(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER



# **SIXTH SENSE ROBOT BY USING IMAGE GRABBING**

*A Project report submitted in partial fulfilment of the requirements  
for the award of Degree of*

## **BACHELOR OF TECHNOLOGY**

**IN**

## **ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted by**

P.SANTOSH	18U45A0406
E.SEKHAR	18U45A0428
A.V HEMANTH KUMAR	18U45A0410
T.K SUPRIYA	17U41A0464
P.KUMAR SWAMY	17U41A0465

Under the Esteemed Guidance of

**Mr.K S N V Someswara Rao**

M.Tech. (Assistant Professor, Dept. of ECE)



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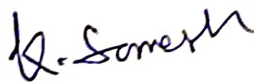


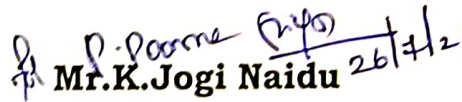
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**NAAC Accredited Institute**  
National Highway-16, Anakapalli-531002, Vishakhapatnam Dist., A.P

---

### **CERTIFICATE**

This is to certify that project entitled "SIXTH SENSE ROBOT BY USING IMAGE GRABBING", being submitted by P.SANTOSH (18U45A0406), E.SEKHAR (18U45A0428), A.V HEMANTH KUMAR (18U45A0410), T.K SUPRIYA (17U41A0464), P.KUMARSWAMY (17U41A0465) in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in ECE to the Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by them under my guidance and supervision. The results embodied in this thesis have not been submitted to any other University or institute for the award of any degree or diploma.

  
**Mr.K S N V Someswara Rao**  
(Assistant Professor)  
(PROJECT GUIDE)

  
**Mr.K.Jogi Naidu** 26/1/21  
(Associate Professor)  
(HEAD OF THE DEPARTMENT)

**EXTERNAL EXAMINER**



# DESIGN AND ANALYSIS OF 2x2 MIMO ANTENNA

*A Project Report submitted in partial fulfillment of the requirements  
for the award of the Degree of BACHELOR OF TECHNOLOGY*

IN

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

D.SEETARAMA MURTHY	17U41A0413
K. SRINIVAS	17U41A0427
P. JANARDHAN	17U41A0442
P. HEMANTH	17U41A0446
E. BHOGESH	17U41A0414

Under the Esteemed Guidance of  
**Mr. R. SUNEEL KUMAR**

B. Tech, M. Tech

Asst. Professor, Department of ECE



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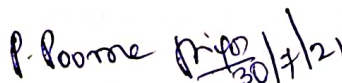
NH-5, Anakapalle-531002, Visakhapatnam, A.P

2020-2021

**CERTIFICATE**

This is to certify that the Project work entitled "DESIGN AND ANALYSIS OF 2x2 MIMO ANTENNA" is being submitted by D SEETARAMA MURTHY (17U41A0413), K SRINIVAS (17U41A0427), P JANARDHAN (17U41A0442), P HEMANTH (17U41A0446), E BHOGESH (17U41A0414) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020-2021.

  
Mr. R. SUNEEL KUMAR  
(ASST.PROFESSOR)  
(PROJECT GUIDE)

  
Dr. P. POORNA PRIYA  
(ASSOCIATE PROFESSOR)  
(HEAD OF THE DEPARTMENT)



**SPEED ESTIMATION OF VEHICLE IN  
INTELLIGENT TRAFFIC SURVEILLANCE  
SYSTEM USING VIDEO IMAGE PROCESSING**

*A Project Report submitted in partial fulfillment of the  
Requirements for the award of the Degree of  
BACHELOR OF TECHNOLOGY*

IN

**ELECTRONICS AND COMMUNICATION  
ENGINEERING**

*Submitted by*

K. Pavan Sai Teja	17U41A0420
P. Sirisha	17U41A0448
N. Kusal Kumar	17U41A0439
D. Dedeepya	17U41A0412
M. Ashok Kumar	17U41A0436

*Under the Esteemed Guidance of*

**Mr. MALLA. Kishore Kumar** M. Tech, (Ph.D)

Asst.Professor, Department of ECE



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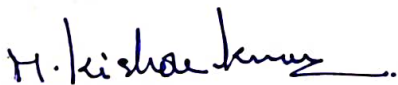
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**Institution NH-16, Anakapalle-531002, Visakhapatnam, A.P**

## **CERTIFICATE**

This is to certify that the Project work entitled "**SPEED ESTIMATION OF VEHICLE IN INTELLIGENT TRAFFIC SURVEILLANCE SYSTEM USING VIDEO IMAGE PROCESSING**" is being submitted by K. Pavan Sai Teja (17U41A0420), P. Sirisha (17U41A0448), N. Kusal Kumar (17U41A0439), D. Dedeepya (17U41A0412), M. Ashok Kumar (17U41A0436) in partial fulfilment of the requirements for the award of the BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION during the academic year 2020-2021.



**Mr. MALLA. Kishore Kumar**

(Asst. Professor)

Project guide



**DR. Poorna Priya**

(Associate Professor)

(Head of the Department)

**EXTERNAL EXAMINER**



**ELECTRONIC CUSTOMER SERVICE MANAGEMENT  
SYSTEMS**

***A Project Report submitted in partial fulfillment of the  
requirements for the award of the Degree of***

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

<b>K. MADHURI</b>	<b>17U41A0473</b>
<b>Y. HEMALATHA</b>	<b>18U45A0408</b>
<b>L. HARITHA</b>	<b>18U45A0427</b>
<b>K. NAGARJUNA</b>	<b>18U45A0426</b>
<b>K. GANESH</b>	<b>17U41A0472</b>

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**Dr. P. POORNA PRIYA**

Associate Professor, Department of ECE



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**CERTIFICATE**

This is to certified that the project work entitled "ELECTRONIC CUSTOMER SERVICE MANAGELEMNT SYSTEM "is a being submitted by K. MADHURI (17U41A0473), Y. HEMALATHA (18U45A0408), L. HARITHA (18U45A0427), K. NAGRJUNA (18U45A0426), K. GANESH (17U41A472) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

**Dr. P. POORNA PRIYA**  
**(ASSOCIATE PROFESSOR)**  
**(PROJECT GUIDE)**

**MR. K. JOGI NAIDU**  
**(ASSOCIATE PROFESSOR)**  
**(HEAD OF THE DEPARTMENT)**

**EXTERNAL EXAMINER**



**ARRAY PATTERN SYNTHESIS USING UNIFORM AND  
NON-UNIFORM AMPLITUDE DISTRIBUTIONS**

*A Project Report submitted in partial fulfilment of the  
requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

*Submitted by*

B. Saicharan	17U41A0405
K. Roopa	17U41A0421
M. Srinu	17U41A0434
K. Sravani	17U41A0429
K. Madhuri	17U41A0438

*Under the guidance of*

Dr. J. BABU, B.TECH., M.TECH., Ph.D.

Professor, Department of ECE



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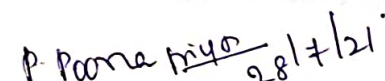
**CERTIFICATE**

This is to certify that the Project work entitled "ARRAY PATTERN SYNTHESIS USING UNIFORM AND NON-UNIFORM AMPLITUDE DISTRIBUTIONS" is a being submitted by B.SAI CHARAN (17U41A0405), K. ROOPA (17U41A0421), M. SRINU (17U41A0434), K. SRAVANI (17U41A0429), and K. MADHURI (17U41A0438) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRONICS AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

  
**Dr. J. BABU**

**( PROFESSOR )**

**( PROJECT GUIDE)**

  
**Dr. P. POORNA PRIYA**

**(ASSOCIATE PROFESSOR)**

**(HEAD OF DEPARTMENT)**

**EXTERNAL EXAMINER**



**ELECTRONIC CUSTOMER SERVICE MANAGEMENT  
SYSTEMS**

*A Project Report submitted in partial fulfillment of the  
requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted by**

K. MADHURI	17U41A0473
Y. HEMALATHA	18U45A0408
L. HARITHA	18U45A0427
K. NAGARJUNA	18U45A0426
K. GANESH	17U41A0472

*Under the Esteemed Guidance of*

**Dr. P. VIGNA PRIYA**

Associate Professor, Department of ECE



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NH -16, Anakapalle - 531002, Visakhapatnam, A.P.

### CERTIFICATE

This is to certified that the project work entitled "ELECTRONIC CUSTOMER SERVICE MANAGELEMNT SYSTEM" "is a being submitted by K. MADHURI (17U41A0473), Y. HEMALATHA (18U45A0408), L. HARITHA (18U45A0427), K. NAGARJUNA (18U45A0426), K. GANESH (17U41A472) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY AND COMMUNICATION ENGINEERING during the academic year 2020-2021.

*P. Poorna Priya*  
26/7/21  
**Dr. P. POORNA PRIYA**  
(ASSOCIATE PROFESSOR)  
(PROJECTGUIDE)

*P. Poorna Priya*  
26/7/21  
**K. JOGI NAIDU**  
(ASSOCIATE PROFESSOR)  
(HEAD OF THE DEPARTMENT)

EXTERNAL EXAMINER



## **SOCIAL DISTANCING ID CARD**

***A Project Report submitted in partial fulfillment of the  
Requirements for the award of the degree of***

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

*Submitted by*

M.SAI PRIYA	17A61A0429
R.HYMA	18U45A0432
T.SAI MENAKA	18U45A0431
V.SAI PREMIKA	18U45A0433

Under the Esteemed Guidance of

**Mrs. D.L.MYTHRI** M.Tech

Asst. Professor, Department of E.C.E



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### **CERTIFICATE**

This is to certify that the project work entitled "SOCIAL DISTANCING ID CARD" is being submitted by M.SAI PRIYA (17A61A0429), R.HYMA (18U45A0432), T.SAI MENAKA (18U45A0431), V.SAI PREMIKA (18U45A0433) in partial fulfillment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY IN ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2020-2021.

  
Mrs. D.L.MYTHRI

**(ASSISTANT PROFESSOR)**

**(PROJECT GUIDE)**

  
Mr. K.JOGI NAIDU

**(ASSOCIATE PROFESSOR)**

**(HEAD OF THE DEPARTMENT)**

**EXTERNAL EXAMINER**



# **IMAGE SEGMENTATION USING HSI**

*A Project Report submitted in partial fulfilment of the requirements for the award of the Degree of*

**BACHELOR OF TECHNOLOGY**

**IN**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

*Submitted by*

R. BHAVANI	17U41A0467
S. JAGADEESH	18U45A0418
P. LAHARI PRIYA	18U45A0420
D.D.DINESH	18U45A0422

*Under the Esteemed Guidance of*

**Mrs. P. AMRUTHA**

Asst. Professor, Department of ECE



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Institution

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**CERTIFICATE**

This is to certify that the Project work entitled "IMAGE SEGMENTATION USING HSI" is a being submitted by R BHAVANI (17U41A0467), S. JAGADEESH (18U45A0418), P. LAHARIPRIYA (18U45A0420), D.D. DINESH (18U45A0422) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS & COMMUNICATION ENGINEERING during the academic year 2019-20.

  
**Mrs. P. AMRUTHA**

**(Asst. PROFESSOR)**  
**(PROJECT GUIDE)**

  
**Mr. K. JOGINAIDU**

**(ASSOCIATE PROFESSOR)**  
**(HEAD OF THE DEPARTMENT)**

**EXTERNAL EXAMINER**



**A SECURE IMAGE STEGANOGRAPHY BASED ON  
RSA ALGORITHM AND LSB MATCHING  
REVISITED TECHNIQUE**

***A Project Report submitted in partial fulfilment of the  
requirements for the award of the Degree of  
BACHELOR OF TECHNOLOGY***

**IN  
ELECTRONICS AND COMMUNICATIONS  
ENGINEERING**

*Submitted by*

A. NAVEEN KUMAR	17U41A0401
M. BABY SUMALATHA	17U41A0432
N. MOHAN RAO	17U41A0441
M. SAI KRISHNA	17U41A0431
K. SATISH	17U41A0419

*Under the Esteemed Guidance of*  
**K S N V SOMESWARARAO, M. Tech**  
Assistant Professor, Department of ECE

The logo for DADI Institute of Engineering & Technology (DIET) features the word "DIET" in a bold, orange, textured font. The letters are slightly shadowed and set against a background of a blue and white circular pattern that resembles a globe or a stylized 'D'.

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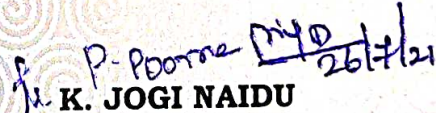
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### **CERTIFICATE**

This is to certify that the Project work entitled "A SECURE IMAGE STEGANOGRAPHY BASED ON RSA ALGORITHM AND LSB MATCHING REVISITED TECHNIQUE" is being submitted by A. NAVEEN KUMAR (17U41A0401), M. BABY SUMALATHA (17U41A0432), N. MOHAN RAO (17U41A0441), M. SAI KRISHNA (17U41A0431), K. SATISH (17U41A0419) in partial fulfilment of the Requirement for the award of the degree of BACHELOR OF TECHNOLOGY for ELECTRONICS AND COMMUNICATIONS ENGINEERING during the academic year 2020-21.

  
**K S N V SOMESWARAIAH**  
(ASSISTANT PROFESSOR)  
(PROJECT GUIDE)

  
**P. POORNIMA**  
**K. JOGI NAIDU**  
(ASSOCIATE PROFESSOR)  
(HEAD OF THE DEPARTMENT)

**EXTERNAL EXAMINER**