# SRI SIVANI COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE



This to certify that the project report entitled "BEHAVIOUR OF RCC BUILDING FRAME ON PLANE AND SLOPED GROUND" that is being submitted by B. Kavya (17W61A0105), L. Naveen kumar (18W65A0114), K. Mahesh (18W65A0109), P. Naresh (18W65A0119), M. Bhushana rao (17W61A0107), in partial fulfilment award of B. Tech in Sri Sivani College of Engineering, Chilakapalem, affiliated to the Jawaharlal Nehru Technological University, Kakinada.

Signature of the Guide

PulleBur

Mr. G.Sudharam Assistant Professor Department of CE Signature of the HOD

Mr. S.V.N Sunil Kumar Assistant Professor Department of CE

Signature of External Examiner

# SRI SIVANI COLLEGE OF ENGINEERING DEPARTMEN OF CIVIL ENGINEERING CERTIFICATE



This to certify that the project report entitled "UTILIZATION OF GLASS FIBRE ON FLY-ASH BASED CONCRETE" that is being submitted by V.PRADEEP (17W61A0122), A.RAMARAJU(18W65A0101), G.ANILKUMAR(17W61A0110), K.RAJKU MAR (18W65A0111), CH.MANIKANTA(18W65A0106) in partial fulfilment award of B Tech in Sri Sivani College of Engineering, chilakapalem affiliated to the Jawaharlal Nehru Technological University, Kakinada

Signature of the Guide

Mr.N.Bhaskara Rao

Assistant professor

Department of CE

signature of the HOD

Mr. S.V.N Sunil Kumar

Assistant Professor

Department of CE

SIGNATURE OF EXTERNAL EXAMINER

# SRI SIVANI COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING CERTIFICATE



This to certify that the project report entitled "COMPARISION ON BEHAVIOUR OF SELF SUPPORTED ANGLE AND PIPE SECTIONED TELECOMMUNICATION TOWERS" that is being submitted by B. Sai kumar (17W61A0104), T. Vamsi krishna (18W65A0121), G. Nagamani (17W61A0111), S.R. Sai mahesh (17W61A0121), R. Srikanth reddy (17W61A0118), in partial fulfilment award of B. Tech in Sri Sivani College of Engineering, Chilakapalem, affiliated to the Jawaharlal Nehru Technological University, Kakinada.

Signature of the Guide

Mr. CH.Lokesh Assistant Professor Department of CE Mr. S.V.N Sunil Kumar

Assistant Professor Department of CE

Signature of the H

Signature of External Examiner

#### DEPARTMENT OF CIVIL ENGINEERING

#### CERTIFICATE



This to certify that the project report entitled "SOLID WASTE CHARACTERIZATION & ITS IMPACT ON GROUND WATER IN THE VICINITY OF DUMP YARD" that is being submitted by Y. Vineeth kumar (18W65A0126), K. Suresh (17W61A0112), P. Mohana rao (17W61A0117), B. Dhanunjaya (17W61A0108) and B. Sanjeev (17W61A0103) in partial fulfilment award of B. Tech in Sri Sivani College of Engineering, Chilakapalem, affiliated to the Jawaharlal Nehru Technological University, Kakinada.

Signature of the Guide

Mr. S.V.N Sunil Kumar

Assistant Professor

Department of CE

Signature of the HOD

Mr. S.V.N Sunil Kumar

Assistant Professor

Department of CE

Signature of External Examiner

#### DEPARTMEN OF CIVIL ENGINEERING

#### CERTIFICATE



This to certify that the project report entitled "ANALYSIS OF DRAINAGE WATER ENTERING RIVER NAGAVALI" that is being submitted by A. PRAVALLIKA(17W61A0102),M.SANTOSH(17W61A0116),T.VENKATESH(18W65A0123), A.BHARGAVANAIDU(17W61A0101),K. SHIVA KUMAR(18W65A0110) in partial fulfilment award of B.Tech in Sri Sivani College of Engineering, chilakapalem affiliated to the Jawaharlal Nehru Technological University, Kakinada.

Signature of the Guide

Mr. S.V.N Sunil Kumar

Assistant professor

Department of CE

signature of the HOD

Mr. S.V.N Sunil Kumar

Assistant Professor

Department of CE

SIGNATURE OF EXTERNAL EXAMINER

(Affiliated to JNTU-KAKINADA)

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



#### CERTIFICATE

This is to certify that the main project work entitled "SMART GLOVES FOR PHYSICALLY IMPAIRED PERSONS" is the original work done by S. BHAGYA LAKSHMI (18W65A0230), I. V. NEERAJA (17W61A0203), M. SAI TEJA (18W65A0221), P. PUSHPA LATHA (18W65A0228) of final year B. TECH and has been carried out under my guidance and supervision. This work is submitted to the "Department of Electrical and Electronics Engineering" in partial fulfillment for the award of Bachelor of Technology Degree in Electrical and Electronics Engineering during 2017-2021.

Project Guide

Mr. ASISH KUMAR PANIGRAHI

Assistant Professor,

Dept. of EEE.

Heathor the Bartment

Electrical & Electrome of Engineering
Stri Mann College of Engineering
Chilakapalem In., Shaksri NVXs

Assistant Professor.

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING SRI SIVANI COLLEGE OF ENGINEERING



#### CERTIFICATE

This is to certify that the major project report entitled "ACCIDENT DETECTION SYSTEM USING GSM AND GPS" being submitted by by K.SOWMYA (18W65A0215), T.BHASKARARAO (18W65A0233), K.SAI LAXMI (18W65A02013), P.NARESH (17W61A0208) in partial fulfilment for the award of the Degree of Bachelor of Technology in Electrical and Electronics Engineering is a record of bonafide work done by them under my supervision during the academic year 2018-2021.

PROJECT GUIDE

MISS. M. SAI SUDHA

Assistant Professor, Department of E.E.E, Sri Sivani College of Engineering, Srikakulam. HEAD OF THE DEPARTMENT

Mr. N.NAGA SRINIVAS

Assistant Professor Department of E.E.E, Sri Sivani College of Engineering, Srikakulam.

Head of the Department Electrical & Electronics Engineering Sri Sivani College of Engineering Chilakapalem Jn., Srikakulam-5324/1

## IDEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING SRI SIVANI COLLEGE OF ENGINEERING



#### CERTIFICATE

This is to certify that the major project report entitled "ACCIDENT DETECTION SYSTEM USING GSM AND GPS" being submitted by by K. RAMESH (18W65A0211) S.KOUSHIK (18W65A02336), K. PAVAN KUMAR (18W65A0217), P. SANTOSH KUMAR (17W61A0207), K.SOWMYA (18W65A0215), T.BHASKARARAO (18W65A0233), K.SAI LAXMI (18W65A02013), P.NARESH (17W61A0208 in partial fulfilment for the award of the Degree of Bachelor of Technology in Electrical and Electronics Engineering is a record of bonafide work done by them under my supervision during the academic year 2018-2021.

PROJECT GUIDE

Mr. M. CHANDRA SEKHAR MISS, M. SAI SUDHA

Assistant Professor, Department of E.E.E, Sri Sivani College of Engineering, Srikakulam HEAD OF THE DEPARTMENT

Head of the Department
Electrical & Electronics Engineering
Mr. B. NAGA SRINI YAS meeting
Chilakapaten Jin, Stikakulain-532402

Assistant Professor Department of E.E.E. Sri Sivani College of Engineering, Srikakulam

(Affiliated to JNTU-KAKINADA)

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



#### CERTIFICATE

This is to certify that the main project work entitled "TWO DEGREE OF FREEDOM TILT INTEGRAL DERIVATIVE CONTROLLER BASED FIREFLY OPTIMIZATION FOR AUTOMATIC GENERATION CONTROL OF RESTRUCTURED POWER SYSTEM" is being submitted by S. SREE LAKSHMI (18W65A0232), P.CHANDANA (18W65A0203), K. RAJESH (18W65A0216) and B. MOHAN RAO (18W65A0235). This work Submitted to Department of Electrical & Electronics Engineering in partial fulfillment of the requirements for the award of Degree of Bachelor of Technology during the academic year 2020-2021.

Project Guide

Head of the Department

Dr. G.T.CHANDRA SEKHAR

Associate Professor

Sri, N. NAGA SRINIVAS

Assistant Professor

(Affiliated to JNTU-KAKINADA)

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



#### CERTIFICATE

This is to certify that the main project work entitled "INTEGRATED MULTI-INPUT DC-DC CONVERTER WITH REDUCED SWITCHES" is being submitted by G. DIVYA (18W65A0207), G. VINEETHA (17W61A0202), P. KIRAN (17W61A0206) and P. PRAKASH (18W65A0225). This work Submitted to Department of Electrical & Electronics Engineering in partial fulfillment of the requirements for the award of Degree of Bachelor of Technology during the academic year 2020-2021.

Dr. G.T. CHANDRA SEKHAR

Associate Professor

Head of the Department

Sri. N. NAGA SRINIVAS

Assistant Professor

Head of the Department Electrical & Electronics Engineering Sri Smani College of Engineering Chilaxepaten Jie, Shkakman-532407

## SRI SIVANI COLLEGE OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING



#### CERTIFICATE

This is to certify that the project work entitled "EFFECT OF FRICTION STIR

PROCESSING WITH B4C PARTICLES ON MECHANICAL PROPERTIES OF AA6061 "
is the bonafide work G.ANIL (18W65A0315), CH. UDAY SHANKAR (18W65A0308), A.

NARENDRA (18W65A0301) and M. CHANDU BABU (17W61A0315) of IV B. Tech in

Mechanical Engineering, Sri Sivani college of Engineering, Affiliated to Jawaharlal

Technological University Kakinada during the year 2018-2019 in partial fulfillment of the
requirement for the Award of the Bachelor of Technology in Mechanical Engineering.

Project guide

Mr.R.PAVAN KUMAR Asst Professor HOD

Mr.R. PAVAN KUMAR
Asst.Professor
Head of The Department
Mechanical Engineering
Sri Sivani College of Engineering
Chilakapalem Jn., Srikakulam

## SRI SIVANI COLLEGE OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING



#### CERTIFICATE

This is to certify that the project work entitled "FLUENT ANALYSIS OF EXHAUST MANIFOLD WITH DIFFERENT FLOW RATE" is the bonafide work S. SAICHANDRA (18W65A0350), K. CHAITANYA SAI (18W65A0362), G. SANDEEP KUMAR (18W65A0363) and of IV B Tech in Mechanical Engineering, Sri Sivani college of Engineering, Affiliated to Jawaharlal Technological University Kakinada during the year 2020-2021 in partial fulfillment of the requirement for the Award of the Bachelor of Technology in Mechanical Engineering.

Project guide

D r. J. BALA BHASKARA RAO Professor

Mr. R. PAVAN KUMAR

Asst Professor

Head of The Department
Mechanical Engineering
Sri Sivani College of Engineering
Chilakapalem Jn., Srikakulam

## DEPARTMENT OF MECHANICAL ENGINEERING



#### CERTIFICATE

This is to certify that the project work entitled "DESIGN AND ANALYSIS OF WIND TURBINE BLADE BY USING POLYMER NANO COMPOSITE MATERIALS" is the bonafide work D.SAI KIRAN(18W65A0310),S.MANOJKUMAR(17W61A0325),G.RAVI KUMAR(17W61A0320),N.BHAGIRADHI BEHARA(17W61A0304) of IV B.Tech in Mechanical Engineering, Sri Sivani college of Engineering, Affiliated to Jawaharlal Technological University Kakinada during the year 2020-2021 in partial fulfillment of the requirement for the Award of the Bachelor of Technology in Mechanical Engineering.

Project guide

V.RAMUDU Asst.Professor Mr. R. PAVAN KUMAR

Asst.Professor

Head of The Department
Mechanical Engineering
Sri Sivani College of Engineering
Chilakapalem In., Srikakulam

#### DEPARTMENT OF MECHANICAL ENGINEERING



#### CERTIFICATE

This is to certify that the project work entitled "HEAT TRANSFER ANALYSIS OF HELICAL COILED DOUBLE PIPE HEAT EXCHANGER BY USING CATIA AND ANSYS" is the bonafide work K.SAI KIRAN (18W65A0321), L. NAGU (18W65A0323), S. CHANDRASEKHAR (18W65A0344), V. GEETHA LAKSHMI (18W65A0352) of IV B. Tech in Mechanical Engineering, Sri Sivani college of Engineering, Affiliated to Jawaharlal Technological University Kakinada during the year 2020-2021 in partial fulfillment of the requirement for the Award of the Bachelor of Technology in Mechanical Engineering.

Project guide

D r. J. BALA BHASKARA RAO

Professor

Mr. R. PAVAN KUMAR

Asst Professor

Head of The Department
Mechanical Engineering
Sri Siyani College of Engineering
Chilakapalem Jn., Srikakulam

## DEPARTMENT OF MECHANICAL ENGINEERING



## CERTIFICATE

This is to certify that the project work entitled \*\* COMPARISON OF BIO-BRIQUETTES USING PALM BRANCHES WITH OTHER AGRO WASTES\*\* is the bonafide work G.NAGA RAJU (18W65A0312), B.VINOD KUMAR (18W65A0303), L.JANARDHANA RAO (17W61A0312), M.GOPALA KRISHNA NAIDU (17W61A0313) of IV B.Tech in Mechanical Engineering, Sri Sivani college of Engineering, Affiliated to Jawaharlal Technological University Kakinada during the year 2020-2021 in partial fulfillment of the requirement for the Award of the Bachelor of Technology in Mechanical Engineering.

PROJECT GUIDE

MR.N.SURYA NARAYANA Asst.Professor. Head of HOO es rement

Head of HOO es rement

Mr. AMES STANDAN PLANS HAKUISM

Sri SHOOL AND HONESSOR.

(Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada)

Accredited by N.A.A.C with 'B'grade

Chilakapalem Junction, Srikakulam-532410, Andhra Pradesh.



## CERTIFICATE

This is to certify that the project report entitled "SPECKLE NOISE REDUCTION TECHNIQUE FOR SAR IMAGES USING STATISTICAL CHARACTERISTICS OF SPECKLE NOISE AND DISCRETE WAVELET TRANSFORM" is submitted by the following students D.TULASI (17W61A0408) ,P.I.ALITHA (17W61A0425) , S.SAMEERA (17W61A0429), K.UDAY KIRAN (17W61A0416) in partial fulfillment of the requirements for the award of degree of Bachelor Of Technology in Electronics and Communication Engineering from SRI SIVANI COLLEGE OF ENGINEERING , Chilakapalem, Srikakulam, affiliated to the Jawaharlal Nehru Technological University Kakinada (JNTUK), during the academic year 2017-2021, is a bonafide work carried out by them under my guidance and supervision.

B. Oklo R. O6/09/21

Mrs.B.USHARANI

Assistant Professor

Department of ECE

Head of the Department

Mr R. HARI PRASADARAO

Assistant Professor Communicat

Chilakapalem In., Srikakulam.

(Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Accredited by

N.A.A.C with 'B'grade

Chilakapalem Junction, Srikakulam-532410, Andhra Pradesh.



#### CERTIFICATE

This is to certify that the project report entitled " MEDICAL IMAGE FORGERY DETECTION SYSTEM FOR SMART HEALTHCARE" is submitted by the following students S.HARIKA (17W61A0430), K.SOWJANYA (17W61A0415), M.SAI SRI RAMA HARSHA (16W61A0432), M. SUNIL (17W61A0420) in partial fulfilment of the requirements for the award of degree of Bachelor Of Technology in Electronics and Communication Engineering from SRI SIVANI COLLEGE OF ENGINEERING, Chilakapalem, Srikakulam, affiliated to the Jawaharlal Nehru Technological University Kakinada (JNTUK), during the academic year (2017-2021), is a bonafide work carried out by them under my guidance and supervision.

Mr R. HARI PRASADA RAO

Assistant Professor Department of ECE

Head of the Department Mr R. HARI PRASADA RAO

Assistant Professor

Department of ECE

Dept. of Electronics & Communication. Sri Sivani College of Engg.

Chilakapalem Jn., Srikakulam.

**External Examiner** 

(Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada)
Accredited by N.A.A.C with 'B'grade
Chilakapalem Junction, Srikakulam-532410, Andhra Pradesh.



#### CERTIFICATE

This is to certify that the project report entitled "ENERGY HARVESTING AND RANSMISSION USING SPACE SHIFT KEYING" is submitted by the following students G. MURALI KRISHNA (18W65A0404), A. SUDARSANA KUMAR (17W61A0402), B. UPENDRA (17W61A0404), L. DEVI (17W61A0417) partial fulfilment of the requirements for the award of degree of Bachelor Of Technology in Electronics and Communication Engineering from SRI SIVANI COLLEGE OF ENGINEERING, Chilakapalem, Srikakulam. affiliated to the Jawaharlal Nehru Technological University Kakinada (INTUK), during the academic year 2017-2021, is a bonafide work carried out by them under my guidance and supervision.

Project Guide:

Mr. V. JEEVAN KUMAR

Assistant Professor

Department of ECE

Head of the Department:

Mr. R. HARI PRASAD RAO

Assistant Professor

Department of ECE

Dept. of Electronics & Communication Sri Sivani College of English Chilakapalem Jn., Srikakulam.

(Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada)

Accredited by N.A.A.C with \_B'grade

Chilakapalem Junction, Srikakulam-532410, Andhra Pradesh.



#### CERTIFICATE

This is to certify that the project report entitled "IMPLEMENTATION OF COVID EMERGENCY VENILATOR" is submitted by the following students

E.TRIVENI DEVI(18W65A0402), T.PAVANI(17W61A0431), R.MEENAKSHI(17W61A0428),

P.VENKATESH(17W61A0423) in partial fulfillment of the requirements for the award of degree of Bachelor Of Technology in Electronics and Communication Engineering from SRI SIVANI COLLEGE OF ENGINEERING, Chilakapalem, Srikakulam, affiliated to the Jawaharlal Nehru Technological University Kakinada (JNTUK), during the academic year 2017-2021, is a bonafide work carried out by them under my guidance and supervision.

Project Guide

Mr.D.SHIVA

Assistant Professor

Department of ECE

Head of the Department

Mr.R.HARIPRASAD RAO

Assistant Professor

Department of ECE

HEAD

Sri Sivani College of Engg. Chilakapalem Jn., Srikakulam.

(Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada)

Accredited by N.A.A.C with 'B' grade

Chilakapalem Junction, Srikakulam-532410, Andhra Pradesh.



#### CERTIFICATE

This is to certify that the project report entitled "ANALYSIS OF BIOMETRIC
AUTHENTICATION SYSTEM - SECURITY, ISSUES AND WORKING USING
VISUAL CRYPTOGRAPHY" is Submitted by following student

P.DEVENDRA(17W61A0427), B.LAKSHMLURMILA(17W61A0407), K.GOWTHAMI(17W61A0414),
G.NATARAJU(17W61A0411) in partial fulfilment of the requirements for the award of degree of
Bachelor Of Technology in Electronics and Communication Engineering from SRI SIVANI
COLLEGE OF ENGINEERING, Chilakapalem, Srikakulam, affiliated to the Jawaharlal
Nehru Technological University Kakinada (JNTUK), during the academic year 2017-2021 is a
bonafide work carried out by them under my guidance and supervision.

KBR 10 08 21 Project Guide

Mrs.K.B.RANI

Assistant Professor

Department of ECE

Head of the Department

Mr.R. HARIPRASAD RAO

Assistant Professor

DepartmentableCE

Jept. of Electronics & Communication

Sri Sivani College of Engg.

Chilakapalem Jn., Srikakulam.

## Department of Electronics & Communication Engineering

## SRI SIVANI COLLEGE OF ENGINEERING

Accredited to NAAC& NBA

(Approved by A.I.C.T.E., New Delhi & Affiliated to JNTU, Kakinada)

Chilakapalem Jn., Srikakulam - 532 402



## CERTIFICATE

the first of the first the same of the sam

This is to certify that the project work entitled "COVID-19 DETECTION IN CT IMAGE BY USING CLUSTERING METHOD" is the original work done by P.MEENA KUMARI (17W61A0422), D.VIKAS(17W61A0409), A.RAMBABU(17W61A0401)&M.SUMANJALI (17W61A0418) of final year B. TECH and has been carried out under my guidance and supervision. This work is submitted to the "Department of Electronics & Communication Engineering" in partial fulfillment for the award of Bachelor of Technology Degree in Electronics & Communication Engineering during the academic year 2017-2021.

K. La Vanya Signature of the Supervisor

Date: 10-08-2021

Ms. K.LAVANYA

Assistant Professor

Department of ECE.

Signature of the He

Date:

(AZI

Communication.

Jesti N. FIRE PASA BARAGO

Assistiakapalesson, Srikakulam.

Department of ECE.

External Examiner

(Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Accredited by N.A.A.C with 'B'grade

Chilakapalem Junction, Srikakulam-532410, Andhra Pradesh.



This is to certify that the project report entitled "SMART PARKING SYSTEM USING INTERNET OF THINGS " is submitted by the following students V SIVANI( 17W61A0433 ) , B H.S.V.PRASAD (17W61A0412), A KEERTHI (17W61A0403), P SANDHYA (18W65A0407), in partial fulfilment of the requirements for the award of degree of Bachelor Of Technology in Electronics and Communication Engineering from SRI SIVANI COLLEGE OF ENGINEERING Chilakapalem, Srikakulam, affiliated to the Jawaharlal Nehru Technological University Kakinada (JNTUK), during the academic year 2017-2021, is a bonafide work carried out by them under my guidance and supervision.

Mr.K.VIJAYA KRISHNA M.Tech.,

Assistant professor Department of ECE. SIGNATURE OF T Sri R.HARI PRASAD RAO

Assistant professor Department of ECE.

HEAD

Dept. of Electronics & Communication Sri Sivani College of Engg. Chilakapalem Jn., Srikakulam,

(Approved by AICTE, New Delhi, Permanently Affiliated to JNTU-K, Kakinada, CC: W6,

Accredited by NAAC 'A' Grade by AP Knowledge Mission, ISO 9001:2015 Certified campus)



#### CERTIFICATE

This is to certify that the project work entitled "Content Based Image Retrieval of Remote Sensing Images Using Deep Learning With Different Distance Measures" is the bonafide work of B.Kartheekraj(17W61A0506), B.Uttej(17W61A0502), Y.Santhosh kumar (17W61A0561), N.Sai kiran (17W61A0530) of IV B.Tech in Computer Science and Engineering, Sri Sivani College of Engineering, affiliated to Jawaharlal Nehru Technological University Kakinada during the year 2020-2021 in partial fulfillment of the requirement for the award of the Bachelor of Technology in Computer Science and Engineering.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.

Signature of the Guide

(Mr.S.Sudeer kumar, M.Tech)

Assistant professor

Head of the Department

(Dr. M Jayanthi Rao, Ph.D)

Asso, professor

Head of the Department Computer Science and Engineering Sn Sivani College of Engineering Chilakapalem Jn., Srikakulam-532402

(Approved by AICTE, New Delhi, Permanently Affiliated to JNTU-K, Kakinada, CC: W6, Accredited by NAAC 'A' Grade by AP Knowledge Mission, ISO 9001:2015 Certified campus)



#### CERTIFICATE

This is to certify that the project work entitled "Analyzing Of Parkinson's Disease. Using Machine Learning Techniques" is the bonafide work of P.Bhavyasree(17W61A0539), K.Rajaswari(17W61A0524), Ch.Sudheer(17W61A0509), Ch.Nagaraj(18W65A0501) of IV B.Tech in Computer Science and Engineering, Sri Sivani College of Engineering, affiliated to Jawaharlal Technological University Kakinada during the year 2020-2021 in partial fulfillment of the requirement for the award of the Bachelor of Technology in Computer Science and Engineering. The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.

O Paryelle Signature of the Guide

(Mrs. D. Priyanka, M. Tech)

Assistant Professor

Head of the Department

(Dr.M.Jayanti Rao, Ph.D.)

Associate Professor

Head of the Department
Computer Science and Engineering
Sri Sivani College of Engineering
Chilakapalem Jn., Srikakulam-532402

(Approved by AICTE, New Delhi, Permanently Affiliated to JNTU-K, Kakinada, CC: W6, by AP Knowledge Mission, ISO 9001:2015 Certified campus)



#### CERTIFICATE

This is to certify that the project work entitled "CURSOR MOVEMENT ON OBJECT MOTION BY HAND GESTURE" is the bonafide work of P. MADHURI (17W61A0534), D. ASWINI (17W61A0511), P. SRINIVASA RAO (17W61A0541), M. PUJITHA (17W61A0542) of IV B.Tech in Computer Science and Engineering, Sri Sivani College of Engineering, affiliated to Jawaharlal Technological University Kakinada during the year 2020-2021 in partial fulfillment of the requirement for the award of the Bachelor of Technology in Computer Science and Engineering.

The results embodied in this project report have not been submitted to any other University or Institute for the award of any degree.

Signature of the Guide

(Mr. Y. Jagadeesh Kumar, M. Tech)

Assistant Professor

Head of the Department

(Dr. M. Jayanthi Rao, Ph.

Associate Professor
Head of the Department
Computer Science and Engineering
Sn Stvani College of Engineering
LisChilakapalem Jn., Srikakulam-532402

1.

(Approved by AICTE, New Delhi, Permanently Affiliated to JNTU-K, Kakinada, CC: W6,

Accredited by NAAC 'A' Grade by AP Knowledge Mission, ISO 9001:2015 Certified campus)



#### **CERTIFCATE**

This is to certify that the project work entitled "FINDING MISSING PERSON USING MACHINE LEARNING ALGORITHM" is the bonafide work of G.Siva(17W61A0518),M.Yamuna(18W65A0503),Puja.Rawlo(17W61A0547),

L.Anusha(17W61A0525) of IV B. Tech in Computer Science and Engineering, Sri Sivani College of Engineering, affiliated to Jawaharlal Technological University Kakinada during the year 2020-2021 in partial fulfillment of the requirement for the award of the Bachelor of Technology in Computer Science and Engineering.

The results embodied in this project report have not been submitted to any other University of Institute for the award of any degree.

Signisture of the Guide

(Dr.M.Jayantin Rao, M.Tech ,Ph.D.)

Associate Professor

Hend of the Department

(Dr.M.Jayanthi Rao, M.Tech, Ph.D)

Associate Professor

Head of the Department
Computer Science and Engineering
Sn Sivani College of Engineering
Chilakapalem Jn., Srikakulam-532402

(Approved by AICTE, New Delhi, Permanently Affiliated to JNTU-K, Kakinada, CC: W6, Accredited by NAAC 'A' Grade by AP Knowledge Mission, ISO 9001:2015 Certified campus)



#### CERTIFICATE

This is to certify that the project work entitled "Fake News Detection Using Machine Learning" is the bonafide work of S.Keerthana (17W61A0552),G.Neha (17W61A0516),R.Vandana(17W61A0543),N.SaiMahendra (17W61A0529) of IV B.Tech in Computer Science and Engineering, Sri Sivani College of Engineering, affiliated to Jawaharlal Technological University Kakinada during the year 2020-2021 in partial fulfillment of the requirement for the award of the Bachelor of Technology in Computer Science and Engineering.

The results embodied in this project report have not been submitted to any other.

University or Institute for the award of any degree.

Signature of the Guide

Mr. K.Dileep Kumar, M.Tech

Assistant Professor

Head of the Department

Dr. M.Jayanthi Rao Ph.Ph.
Actical of the Department
Computer Science and Engineering
Sri Sivani College of Engineering
Chilakapalem Jn., Srikakulam-532402



## SRI SIVANI COLLEGE OF ENGINEERING CHILAKAPALEM, SRIKAKULAM

#### CERTIFICATE

This is to certify that the report entitled a study on "TRAINING AND DEVELOPMENT" With reference to "INDUS HOSPITAL, VISAKHAPATANAM" is a bonafied work done and Submitted by VOONNA TARUN (Regd. No. 19W61E0053) with a duration of six weeks i.e., from 20th April 2020 to 30th May 2020 under my guidance in partial fulfillment of the requirement for the award "Master of Business Administration" in "SRI SIVANI COLLEGE OF ENGINEERING" which is affiliated to "JNTU Kakinada" is a record of bonafied work carried out by him under my guidance.

Department Of their Stordie SriSivan Chiley & Engl

Project Guide

Mr.K.RAVI KUMAR, MBA, MHRM

Miss.J.Divya Jyothi,MBA

External Examiner



## SRI SIVANI COLLEGE OF ENGINEERING CHILAKAPALEM, SRIKAKULAM

#### CERTIFICATE

This is to certify that the project work entitled A Study On "COLLECTIVE BARGAINING" with reference to "RASHTRIYA ISPAT NIGAM LIMITED" is a bonefied work done and submitted by THANGI KANAKARAJU (Regd No.19W61E0052). In partial fulfillment of the requirements for the award of "MASTER OF BUSINESS ADMINISTRATION" in "SRI SIVANI COLLEGE OF ENGINEERING" which is affiliated to "JNTU KAKINADA" is a record of bonafied work carried out by him under my guidance.

HEAD Mgt. Studie

Mr. K. RAVI KUMAR, M.B.A. MHRM

PROJECT GUIDE

Mrs, CH.KEERTHANA, MBA.

EXTERNAL EXAMINER



## SRI SIVANI COLLEGE OF ENGINEERING CHILAKAPALEM, SRIKAKULAM CERTIFICATE

This is to certify that the project work entitled A Study on "JOB SATISFACTION" with reference to "NACL INDUSTRIES LIMITED" is a bonafied work done and submitted by, SIGIREDDLSUNITHA REGD(NO.19W61E0048) with duration of periods 6 weeks from 20-04-2020 to 30-05-2020.of In partial fulfillment of the requirements for the award of the degree of "MASTER OF BUSINESS ADMINISTRATION" in SRI SIVANI COLLEGE OF ENGINEERING is a record of bonafied work carried out by her under my guidance.

Mr. K. RAYUKOMAR, M.B.A, MHRM

PROJECT GUIDE

Miss. J.DIVYJYOTHI, M.B.A

**EXTERNAL EXAMINER** 



## SRI SIVANI COLLEGE OF ENGINEERING CHILAKAPALEM, SRIKAKULAM

CERTIFICATE

This is to certify that the project work entitled A Study On "ONLINE TRADING IN CAPITAL MARKET-NSE" is a bonafied work done and submitted by Mr MASTHAN SHEIK (Regd No19W61E0032) with a duration of 6weeks i.e., from 20th April 2020 to 30th May2020. In partial fulfillment of the requirements for the award of "MASTER OF BUSINESS ADMINISTRATION" in SRI SIVANI COLLEGE OF ENGINEERING is a record of bonafied work carried out by him under my guidance.

UMAR, M.B.A, MHRM

PROJECT GUIDE

Dr.M.P.SURI GANESH

RNAL EXAMINER



## SRI SIVANI COLLEGE OF ENGINEERING CHILAKAPALEM, SRIKAKULAM

#### CERTIFICATE

This is to certify that the project work entitled A Study on "TRAINING AND DEVELOPMENT" with reference to "SMART CHEM TECHNOLOGIES LIMITED PONNADA" is a bonafied work done and submitted by, SAHUKARI VINAY REGD NO.19W61E0047 with duration of periods 6 weeks from 20-04-2020 to 30- 05- 2020.of in partial fulfillment of the requirements for the award of the degree of "MASTER OF BUSINESS ADMINISTRATION" in SRI SIVANI COLLEGE OFENGINEERING is a record of bonafied work carried out by him under my guidance.

Department Official Studie SriSivani College Of Engy Chilakapalem ,Srikakulam

Mr. K. RAVI KUMAR, M.B.A, MHRM

PROJECTOUIDE

Mr. K. RAVI KUMAR, M.B.A,MHRM

EXTERNAL EXAMINER

(Affiliated to JN1U - KAKINADA)

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



#### CERTIFICATE

This is to certify that the main project work entitled "Space Vector Modulation Based 31 Level Multi-Level Inverter for Nonlinear Loads" is being submitted by BARATAM HARITHA, (19W61D4303). This work Submitted to Department of Electrical & Electronics Engineering in partial fulfillment of the requirements for the award of Degree of Master of Technology during the academic year 2021.

Signature of the Guide

Date: 27/11/2221.

Mr. N. Naga Srinivas

Assistant Professor

Department of E.E.E.

Signature of the HOD

Date: 27/11/2001

Mr. N. Naga Srinivas

Assistant Professor

Department of E.E.E

(Accredited by NAAC, Affiliated to JNTU Kakinada),

Chilakapalem Jn., Srikakulam (A.P) - 532410

## DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



#### CERTIFICATE

This is to certify that thesis entitled "Performance Analysis of Novel Cascaded Multilevel Inverter Topology" is being submitted by Mr. PAIDI BALARAJU, Regd No: 15W61D4307inpartial fulfillment of requirements for the award of the degree of Master of Technology in Power Electronics to the Department of Electrical and Electronics Engineering, Sri Sivani College of Engineering, Chilakapalem is a record of bonafide work carried out by his under my guidance and supervision. The results submitted in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other university for the award of the any other degree/diploma.

Signature of the Guide

Dr. G.T.CHANDRA SEKHAR

Assoc. Professor, Dept. of EEE

Signature of Head of the Department

Smt. A. SANTHI

Assoc. Professor, Dept. of EEE

Head of the Department

Electrical & Electronics Engineering
Sri Sivani College of Engineering
Chilakapaiem Jn., Shikakuram-5324-23

(Accredited by NAAC, Affiliated to JNTU Kakinada), Chilakapalem in., Srikakulam (A.P) - 532410 DEPARTMENT OF ELECTRICAL AND



#### CERTIFICATE

This is to certify that thesis entitled "Minimization of Power Quality Problems using Fuzzy logic Controller" is being submitted by Mr. T.SANTISWAROOP, Regd No. 17W61D4312 in partial fulfillment of requirements for the award of the degree of Master of Technology in Power Electronics to the Department of Electrical and Electronics Engineering, Sri Sivani College of Engineering, Chilakapalem is a record of bonafide work carried out by him under my guidance and supervision. The results submitted in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other university for the award of the any other degree/diploma.

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B.SESHASAI

Signature of Head of the Department

Smt. A. SANTHI

Electrical & Electronics Engineering gir Sivani College of Engineering Elicitationium In., Encanomis 537402

(ISO 9001:2015 Certified, Affiliated to JNTU Kakinada).

Chilakapatem, Srikakulam (A.P) - 532410

#### DEPARTMENT OF ELECTRICAL AND ELECTRONIS ENGINEERING



#### CERTIFICATE

This is to certify that thesis entitled "Impact of Unified Power Flow Controller plus Redox Flow Battery on Automatic Generation Control with a 2DOF-TID Controller" is being submitted by Ms. A. Padmini, Regd. No: 17W61D4302 in partial fulfillment of requirements for the award of the degree of Master of Technology in Power Electronics to the Department of Electrical and Electronics Engineering, Sri Sivani College of Engineering, Chilakapalem is a record of bonafide work carried out by her under my guidance and supervision. The results submitted in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other university for the award of the any other degree/diploma.

Signature of the Guide

Dr. G.T.CHANDRA SEKHAR

Associate Professor

Signature of Head of the Department

Smt. A. SANTHI

Associate Professor

Electrical & Electromics Engineering Sri Sivani College of Engineering Chizaapalem In., Srikaayaan 2,17407

(ISO 9001:2015 Certified, Affiliated to INTU Kakinada).

Chilakapalem, Srikakulam (A.P) - 532410

## DEPARTMENT OF ELECTRICAL AND ELECTRONIS ENGINEERING



#### CERTIFICATE

Series Capacitor for Load Frequency Control Problem" is being submitted by PANDIRI SWARNALATHA, Regd. No: 18W61D4312 in partial fulfillment of requirements for the award of the degree of Master of Technology in Power Electronics to the Department of Electrical and Electronics Engineering. Sri Sivani College of Engineering. Chilakapalem is a record of bonafide work carried out by her under my guidance and supervision. The results submitted in this thesis have been verified and are found to be satisfactory. The results embodied in this thesis have not been submitted to any other university for the award of the any other degree/diploma.

Signature of the Guide

Dr. G.T.CHANDRA SEKHAR

Associate Professor

Signature of Head of the Department

Smt. A. SANTHI

Associate Professor

Head of the Department

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CHILAKAPALEM Jn., SRIKAKULAM - 532402

Tel Fax: 08942231106

## Department of Electronics & Communication Engineering



#### CERTIFICATE

This is to certify that the major project report entitled "Implementation of Massive MIMO systems with Hybrid Space-Time Block Coded Spatial Modulation for 5G Communications" is being submitted by ARIPAKA.PAVAN KUMAR bearing (18W61D3801), in partial fulfillment of the requirement for the award of Master of Technology in Digital electronics and communication system to the Jawaharlal Nehru Technological University, Kakinada is a record of Bona fide work carried out by her under my/our guidance and supervision from 2018-2020.

The results presented in this thesis have been verified and are found to be satisfactory.

The results embodied in this project have not been submitted to any other university for the

award of any other degree or diploma.

Project Guide

Mr. R. HARI PRASADA RAO, M.Tech Assistant professor, Department of ECE. Head of the Department

Mr. R. HARI PRASADA RAO, M.Tech Assistant professor, Head of the Dept., ECE

Sri Sivani College of Engg.
Chilakapalem Jn., Srikala, lant.

(Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Chilakapalem Junction, Srikakulam-532410,

Andhra Pradesh.



#### CERTIFICATE

This is to certify that the project report entitled "IMAGE SPLICING FORGERY DETECTION BASED ON FUZZY LOGIC AND ARTIFICIAL NUERAL NETWORKS" is submitted by V.TEJASWINI (18W61D3806), in partial fulfilment of the requirements for the award of Degree of Master Of Technology in Digital Electronics and Communication system from SRI SIVANI COLLEGE OF ENGINEERING, Chilakapalem, Srikakulam, affiliated to the Jawaharlal Nehru Technological University Kakinada(JNTUK), during the academic year 2018-2020, is a Bona fide work carried out by student under my guidance and supervision.

Project Guide

Mr. N.P.V. Bhaskar Reddy, M. Tech

Associate professor,

Department of ECE.

Head of the Department

Sri D. Chiranjeevulu, M.Tech

Associate professor,

Department of ECE

Sri Siveri Cellege of Engg.
Ohlakapalem Jn., Srikakularii.

**External Examiner** 

(Affiliated to Jawaharlal Nehru Technological University Kakinada, Kakinada) Chilakapalem Junction, Srikakulam-532410,

Andhra Pradesh.



#### CERTIFICATE

This is to certify that the project report entitled "A NOVEL DEEP LEARNING

ALGORITHM FOR COPY MOVE FORGERY DETECTION IN

DIGITAL IMAGES\* is submitted by S.DHANA LAKSHMI (18W61D3805), in partial fulfilment of the requirements for the award of degree of Master Of Technology in Digital Electronics and Communication Systems from SRI SIVANI COLLEGE OF ENGINEERING, Chilakapalem, Srikakulam, affiliated to the Jawaharlal Nehru Technological University Kakinada(JNTUK), during the academic year 2018-2020, is a Bonafede work carried out by her under my guidance and supervision.

Project Guide

Head of the Department

Mr. Allu Venkateswra Rao

Sri D. Chiranjeevulu,

Associate professor,

Associate professor

Department of ECE.

Department of ECE

MEND

crept of Electromics & Communication
Shi Shrani College of Engla
Dillakapalem in "Strainstant.

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CHILAKAPALEM Jil., SRIKAKU LAM - 532402

Tel Fax: 08942231106

## Department of Electronics & Communication Engineering



#### CERTIFICATE

This is to certify that the major project report entitled "BLUETOOTH PROXIMITY BEACONS BASED NON-GPS REAL TIME PUBLIC BUS LOCATION TRACKING

SYSTEM" is being submitted by MATSA.AMALA bearing 18W61D3803, in partial fulfillment of the requirement for the award of Master of Technology in Digital electronics and communication system design to the Jawaharlal Nehru Technological University, Kakinada is a record of Bonafede work carried out by her under my/our guidance and supervision from 2018-2020.

The results presented in this thesis have been verified and are found to be satisfactory.

The results embodied in this project have not been submitted to any other university for the award of any other degree or diploma.

Project Guide 18 1212010

Mr. R. HARI PRASADA RAO., M Tech

Assistant professor,

Department of ECE.

Sri Stran Control of Filement

Mr. D. CHIRANJEEVULU., M Tech

Associate professor,

Head of the Dept., (ECE)

# SRI SIVANI COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that this project work entitled EFFICIENT HEART DISEASE PREDICTION SYSTEM USING SEVERAL MACHINE LEARNING CLASSIFICATION ALGORITHMS is the bonafide work carried out by T.KAVYA (19W61D5812) submitted in Partial fulfillment of the requirement for the Award of Degree of Master of Technology in Computer Science & Engineering, during the year 2019-2021.

Project Guille

Dr.M.JayanthiRao, MTech, Ph.D

Asseniated the Department

omputer Science and Engineering on Smani College of Enginee y milakapatem in Smakkulam Head of The Department

Dr.M.JavanthiRao, M.Tech, Ph.D

Associate Professor Head of the Department Computer Science and Engineering

Sn Sivani Col
Shilakana

(Approved by AICTE, Affiliated in JNTU-K, Accredited by NBA, NAAC & 15O 9001:2008 Certified)



#### CERTIFICATE

This is to certify that this project work entitled "A SPATIAL - TEMPORAL BASED NEXT FRAME PREDICTION AND UNSUPERVISED CLASSIFICATION OF VIDEO ANOMALIES IN REAL TIME ESTIMATION" is the bonafide work carried out by SWAPNAKUMARI SAHU (19W61D5811) submitted in Partial fulfillment of the requirement for the Award of Degree of Master of Technology in Computer Science & Engineering, during the year 2019-2021.

Dr.M.JayanthiRao, M.Tech, Ph.D.

Associate Professor

Head of The Department

Dr.M.JayanthiRao, M.Tech, Ph.D.

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# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING SRI SIVANI COLLEGE OF ENGINEERING (ACCREDITED BY NBA, NAAC APPROVED BT AICTE & AFFILIATED TO JNTU-K) (An ISO 9001:2008 Certified Organization)



#### CERTIFICATE

This is to certify that the project report titled "HOSPITALS QUALITY EVALUATION BY USING ML WITH DATA ANALYSIS" is being submitted by KIRANKUMAR SISTU, bearing HT NO:( 19W61D5806) in M.tech Computer Science & Engineering is a record bonafied work carried out by them. The results embodied in this project report have not been submitted by any other University for the award of any Degree.

Dr.M.JayanthiRao, M.Tech, Ph.D

Asseriate of the Department

Smputer Science and Engineering
Sri Sivani College of Enginee /

Head of The Department

Dr.M. JavanthiRao, M.Tech, Ph.D.

Associate Professor

Computer Science and Engineering
Sn. Sivani Co.

"Dilakana"

# DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING SRI SIVANI COLLEGE OF ENGINEERING (ACCREDITED BY NBA, NAAC APPROVED BT AICTE & AFFILIATED TO JNTU-K) (An ISO 9001:2008 Certified Organization)



#### CERTIFICATE

This is to certify that the project report titled "PERFORMANCE EVALUATION OF CNN AND RNN ALGORITHMS FOR FACIAL EXPRESSION RECOGNITION" is being submitted by P. SIVACHAITANYA, bearing HT NO:(19W61D5810) in M.tech Computer Science & Engineering is a record bonafied work carried out by them. The results embodied in this project report have not been submitted by any other University for the award of any Degree.

Project Guide

Mr. SRINIVASA RAO KONNI, M.

Assistant Professor,

Dr.M.JayanthiRao, M.Tech, Ph.D

Assertate of the Department

Smouter Science and Engineering Shi Sivani College of Engineer y makapalem in Stratistian

#### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING SRI SIVANI COLLEGE OF ENGINEERING (ACCREDITED BY NBA, NAAC APPROVED BT AICTE & AFFILIATED TO JNTU-K) (An ISO 9001:2008 Certified Organization)



#### CERTIFICATE

This is to certify that the project report titled "DRIVER DROWSINESS DETECTION SYSTEM FOR PREVENTING ACCIDENTS USING VISUAL BEHAVIOUR AND MACHINE LEARNING ALGORITHMS" is being submitted by E.kartheek, bearing HT NO:(19W61D5803) in M.tech Computer Science & Engineering is a record bonafied work carried out by them. The results embodied in this project report have not been submitted by any other University for the award of any Degree.

Internal Guide

Mr. M.Murali Krishna, M.Tech

4. Hokain

Assistant Professor,

CSE Department.

the Department,

Dr. M.Jayanthi Rao, M. Tech, Ph.D.

Professor, Head of the Department

CSImplepastment and Engineering Sri Sivani College of Engineering

"hilakapalem In, Srikakulam-53240