REPORT OF THE STUDENT PROJECTS

(Approved by AICTE, New Delhi)(Affiliated to Jawaharlal Nehru Technological University, Kakinada) Narasaraopet-522601, Guntur (Dist), A.P.

DEPARTMENT OF CIVIL ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the report entitled "PLANNING, ANALYSIS AND DESIGN OF G+5 RESIDENTIAL BUILDING BY USING AUTOCAD & STAADPROV8i SOFTWARES "is the bonafide work done by

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In partial fulfilment of requirement for the award of the degree of Bachelor of technology in Civil Engineering of the NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET, during the year 2017-2021

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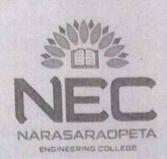
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BONAFIDE CERTIFICATE

This is to certify that project report entitled PLANNING, ANALYSIS AND DESIGNOF G+2 RESIDENTIAL BUILDING LOCATED AT HILLY TERRAIN WITH HIGH WIND VELOCITY

SUBMITTED BY

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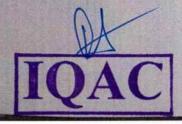
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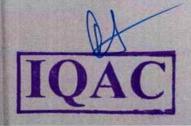
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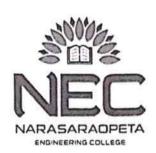
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BONAFIDE CERTIFICATE

This is to certify that project report entitled "PLANNING, ANALYSIS & CONSTRUCTION CONTROLLING OF G+5 BUILDING BY USING PRIMAVERA" is a bonaifide record of the working done by.

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H. Bolo Ghi Killy EXTERNAL EXAMINER 4/8/21

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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

NARASARAOPET - 522 601 Guntur (Dist.), A.P.



NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS) DEPARTMENT OF CIVIL ENGINEERING



BONAFIDE CERTIFICATE

This is to certify that the thesis titled 'MORPHOMETRIC ANALYSIS OF BUDAMANERU BASIN USING REMOTE SENSING AND GIS TECHNIQUES' is a bonafied record of the work done by

B. AJAY BHASKAR REDDY	-	17471A0125
G. CHANTI BABU	•	17471A0152
P. LAKSHMA REDDY	-	17471A0171
K. SRIKANTH REDDY	-	17471A0103
G. VENKATA REDDY	-	17471A0142

In partial fulfilment of requirement for the award of the degree of Bachelor of technology in Civil Engineering of the NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPETA, During the year 2017-2021

Dr.P.NAGASOWJANYA

Project guide Associate professor HEASTON THE GERAL SOLAT INFRANCE PROPERTY AND ASSOCIATE PROPERTY ENGINEERING CHARLES ASSOCIATE PROPERTY OF THE PROPERTY OF THE

Project viva-voice held on.....

K. B. G. H. K. S. L. 18121 EXTERNAL EXAMINER

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PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

NARASARAOPET - 522 601 Guntur (Dist.), A.P.

NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPETA - 522601

BONAFIDE CERTIFICTAE

Certified that the project report "IDENTIFICATION OF GROUNDWATER QUALITY AND IRRIGATION SUITABILITY OF GROUNDWATER OF BAPATLA MANDAL USING WATER QUALITY INDEX" is a bonafide record of the work done by

Mr. S.V. LEELA KRISHNA (17471A0116) (17471A0156) Mr. K. MANI BABU Mr. K. P. SAI KUMAR (17471A0160) (17471A0137) Mr. G. SUDHAKAR (17471A0140)

In Partial fulfillment of requirement for the award of the degree of Bachelor of Technology in Civil Engineering of the NARASARAOPETA ENGINEERING COLLEGE

Narasaraopeta, during the year 2017-2021

Mr. M. KIRAN KUMAR

Dr. G. BABURAO M.Sc., M. Bhil., PhD., FSIESRP

ASSOCIATE PROESSOR DEPT. OF CIVIL ENGINEERING

ASSOCIATE PROFESSOR DEPT. OF CIVIL ENGINEERING

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET (AUTONOMOUS)

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the project entitled "PV AND BATTERY OPERATED HIGH SPEED WITH BLDC MOTOR CONTROL" is a bonafide work done by "K.Raj kumar (17471A0205), D.Sivakumar (17471A0230), M.Kotaiah (18475A0211), P.Sudharshan rao (18475A0208), S.Naveen (17471A0213)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2020-2021.

PROJECT GUIDE

Mr.SK.MD.SHAREEF M.Tech.,(Ph.D)
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NARASARAOPET-522601(A.P) DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Main Project entitled "TWO HYBRID SOURCE BASED THREE PHASE FIVE LEVEL GRID CONNECTED INVERTER ADVANCED LEVEL" is a bonafide work carried out by M. MADHAVI (18475A0201), SK. NAGURBASHA (18475A0214), K.MANASA(17471A0215), D.SATISH(1875A0221), T.PREM YADAV(18475A0222) under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING from JNTUK, Andhra Pradesh, during the year 2020-2021.

The content of the main project have not been submitted earlier for the award of any other degree or certificate and we heartily comment the work done by him in this connection.

PROJECT GUIDE

Mr. G.NAVEEN, M. Tech.

Assistant Professor.

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HEAD OF THE DEPARTMENT

Dr. P. LAKSHMANAN, M.E. Ph.D.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



This is to certify that the project report entitled "A SEAMLESS CONTROL METHODOLOGY FOR A GRID CONNECTED AND ISOLATED PV-DIESEL MICROGRID" is a bonafide work carried out by M. HARIKA (17471A0222), P.JOHN LUKE(1747LA0202), N.SATYA SIVAMANI (17471A0201), K. KRISHNA MURTHY (18475A0216), B. AJAY KUMAR (17471A0208) under our supervision and guidance in partial fulfilment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING from JNTUK, Andhra Pradesh, during the year 2020-2021.

The content of the project report have not been submitted earlier for the award of any other degree or certificate and we heartily comment the work done by him in this connection.

PROJECT GUIDE

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Assistant Professor.

Electrical and Electronics Engineering Narasaraopeta Engineering College.

HEAD OF THE DEPARTMENT Dr. P. LAKSHMANAN, M.E., Ph.D.

Head of the Department

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EXTERNATION

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NARASARAOPETA ENGINEERING COLLEGE
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Guntur (Dist.), A.P.

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NARASARAOPET-522601(A.P)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Project entitled "STUDY OF AC & DC MICROGRID SYSTEM" is a bonafied work carried out by K. SAIKRISHNA (17471A0203), T. KRISHNA VAMSI (18475A0213), R. SATISH BABU (17471A0219), B. RAKUMAR (17471A0231), P. RAMANJANEYULU (18475A0220) under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Andhra Pradesh, during the year 2020-2021.

PROJECT GUIDE

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EXTERNAL EXAMINER

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PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET - 522 601

(Autonomous)

(Approved by AICTE, New Delhi, Accredited by NAAC with 'A' Grade and by NBA, Affiliated to J.N.T.U.K)

Kotappakonda Road, Yallamanda, Narasaraopet - 522601, Guntur (Dist.), Andhra Pradesh. February, 2021

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINNERING

CERTIFICATE



This is to certify the main project entitled "WPT OF HIGH SPEED EV'S APPLICATIONS" is the bonafide work carried out by MS.T.Tejaswani (17471A228), Ms.K.Sailaja (17471A0207), , Mr.B.Koteswara rao (17471A0212) Mr.P.Rajeev Prasad (17471A0229), Mr.G.Pavan Kalyan (17471A0227) in partial fulfilment of the requirements for the award of degree Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University Kakinada , Kakinada during the year 2020-21 under my supervision and guidance.

Project Guide

G.Nagaraju M. Techi Ph. Di

Head of the Department

Dr.P.Lakshmanan - M.E.Ph D

External Examiner

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Main Project entitled "A 65 LEVEL LOGIC BASED SWITCHING METHODOLOGY FOR A CASCADED H-BRIDGE MULTILEVEL INVERTER" is a bonafide work carried out by J.HARI TEJA (17471A0209), G.MANI MAHESWARA RAO (18475A0205), M.YAMINI (17471A0220), T.MUTHYAL RAO (17471A0214), S.SAI RAM(17471A0216) Under Our supervision and guidance in partial fulfillment of requirement for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Andhra Pradesh, during the year 2020-2021.

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the project entitled "IMPROVEMENT OF VOLTAGE STABILITY WITH STATCOM" is a bonafide work done by "T.Bala Sri Ram Murthy (17471A0225), CH.Rajesh (18475A0207), J.Mattaiah (17471A0226), P.Mahendra Kumar (17471A0211), K.Venkatesh (17471A0223) "in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of ELECTRICAL AND ELECTRONICS ENGINEERING during the academic year 2020-2021.

PROJECT GUIDE

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Project entitled "CONTROL OF UPOC BASED ON STEADY STATE LINEAR KALMAN FILTER FOR COMPENSATION OF POWER QUALITY PROBLEMS" is a bonafide work carried out by A. SAI KRISHNA (18475A0203), A.N.V.D. TARUN (17471A0217), G. YASHWANTH KRISHNA (17471A0224), G. RAJENDRA PRASAD (17471A0233), G. PRAVEEN KUMAR (18475A0219) under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Andhra Pradesh, during the year 2020-2021.

The content of the Project report have not been submitted earlier for the award of any other degree of certificate and we heartly comment the work done by him in this connection.

PROMECT GUIDE

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NARASARAOPET-522601(A.P.)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Final Project entitled "FULL-BRIDGE REACTIVE POWER COMPENSATOR WITH MINIMIZED EQUIPPED CAPACITOR AND ITS APPLICATION TO STATIC VAR COMPENSATOR" is a bonafide work carried out by SK.ALLA BAKSH (18475A0210), A.POORNA CHANDRA RAO (17471A0210), T. VAMSI KRISHNA (18475A0212), B.MADHU (18475A0204), G. MAHENDRA REDDY (17471A0221) under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Andhra Pradesh, during the year 2020-2021.

PROJECT GUIDE

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NARASARAOPET-522601(A.P.)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Final Project entitled "AN ADAPTIVE FUZZY LOGIC CONTROL STRATEGY FOR PERFORMANCE ENHANCEMENT OF A GRID CONNECTED PMSG BASED WIND TURBINE" is a bonafide work carried out by B.GOPI (18475A0217), M.RAJESH (18475A0226), L.ABHI RAM REDDY (17471A0206), S. JEEVA RATNAM (17471A0235), under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Andhra Pradesh, during the year 2020-2021.

PROJECT OUIDE:

Dr. P. LAKSHMANAN M.E, Ph.D.

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EXTERNAL EXAMINE

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PRINCIPAL
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NARASARAOPET - 522 601

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NARASARAOPET-522601(A.P)

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



CERTIFICATE

This is to certify that the Project report entitled "A FUZZY LOGIC BASED CASCADED H-BRIDGE15 LEVEL MULTI LEVEL INVERTER" is a bonafide work carried out by M. Ravi kumar (18475A0218), S. Akhil kumar (18475A0225), V. Ramakrishna (18475A0209) J.Pothu Raju (18475A0206) under our supervision and guidance in partial fulfillment of requirements for the award of Degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING, from JNTUK, Andhra Pradesh, during the year 2020-2021.

PROJECTO UIDE:

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Narasaraopeta Engineering college

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HEAD OF DEPARTMENT:

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CERTIFICATE

This is to certify that the project entitled "ANALYSIS AND COMPARISON OF THE DC-DC CONVERTERS FOR REDUCING CURRENT RIPPLE" is a bonafide work carried out by K. NAGA DEEPTHI (17471A0218), CH. HARSHA (18475A0223), B. GOVARDHAN REDDY (18475A0215), P. KALYAN BABU (18475A0202), M. RAVI TEJA (18475A0224) Under our supervision and guidance in partial fulfillment of the requirements for the award of BACHELOR OF TECHNOLOGY in ELECTRICAL AND ELECTRONICS ENGINEERING, from JNTUK, Andhra Pradesh, during the year 2020- 2021.

PROJECT GUIDE

P.D.V.S.K. KISHORE, MTech., (Ph.D.)

Assoc. Professor

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Professor & HOD

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NARASARAOPET - 522 601



CERTIFICATE

This is to certify that the Project entitled "DESIGN AND FABRICATION OF 360 DESK LAMP" (3D PRINTING) is being submitted by Mr. T.PAVAN KUMAR(17471A0335), Mr.P.GOVARDHAN BABU(17471A0328), Mr.S.KAMALA KUMAR(17471A0332), Mr.G.NARENDRA(17471A0305), Mr.V.TEJA(17471A0334), Mr.K.RAKESH SAINATH REDDY(17471A0345) in partial fulfillment for the award of B Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project guide

Dr. M. Sreenivaša Kumar M.Tech., Ph.D.(UK)., MISTE.,FIE(I) Head of the Department

Dr. B. Venkata Siva

M.Tech.Ph.D., FIE(I), MISTE, ISNT

Internal Examiner

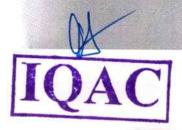
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PRINCIPAL

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This is to certify that the Project entitled "DESIGN AND FABRICATION OF FULLY 3D-PRINTABLE TURNTABLE" is being submitted by T.SRIHARI (18475A0301), M.LOKESH (17471A0363), K.VENKATESH (17471A0351), G.PAVAN KALYAN (17471A0371), G.AKASH (17471A0380), P.VENKATESH (17471A0365), N.SIVA NAGARAJU (17471A0379) in partial fulfillment for the award of B. Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project Guide

Sk.Bajan

Head of the Department

Dr. B. Venkata Siva

Internal Examiner

External Examiner

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This is to certify that the Project entitled "DESIGN AND FABRICATION OF WALKING MECHANISM" is being submitted by Mr.SK.NAGUR BASHA(18475A0315),Mr.SK.MASTANVALI((18475A0316),Mr.DOKKU.PAVA NKUMAR(18475A0302),Mr.R.BALAJI(17471A0376),Mr.K.VIJAY(17471A0354),Mr.N.YAGNA MALLESAWRARAO(17471A0359) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

M. Venkai _

Project Guide
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HeadoftheDepartment

Dr.B.VENKATASIVA,Ph.D.

Internal Examiner

External Examiner

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IQAC

This is to certify that the Project entitled "MODELING AND OPTIMISATION OF PISTON BY USING SOLID WORKS AND ANSYSA" is being submitted by Mr S.KOTI REDDY (18475A0327), T.KARTHEEK (18475A0325), SK AFRIDE (18475A0337), B.VIJAY SAI KUMAR (18475A0345), P.ASHOK (18475A0344), Y.VENKAT (18475A0357) in partial fulfilment for the award of B.Tech in DEPARTMENT OF MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project guide

KANDRU JOHN BABU M. Tech Assistant professor Head of the Department

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Internal Examiner

External Examiner

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PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET - 522 601

Guntur (Dist.), A.P.

This is to certify that the Project entitled "DESIGN AND DEVELOPMENT OF 3D PRINTED LINEAR ACTUATOR" is being submitted by Mr. P.ANJI BABU (18475A0305), N.LAKSHMAREDDY (17471A0361), CH.GOPI KRISHNA (17471A0366), D.ASHOK KUMAR (17471A0369), E.SUNIL (17471A0372), B.SUMANTH (17471A0381) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project Guide

B. Rajiv Kumar

Head of the Department

Dr. B. Venkata Siva

Internal Examiner

External Examiner

IOAC

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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This is to certify that the Project entitled "DESIGN ANALYSIS AND OPTIMIZATION OF TWO-WHEELER DISC BRAKE ROTOR" is being submitted by Mr. REDDY RAJA NAVEEN (18475A0328), SHAIK BADULLA (18475A0321), SYED MOHAMMAD ADIL (18475A0361), NETTAM PRAVEEN KUMAR(18475A0348), PAKANATI GOUTHAM KUMAR REDDY (18475A0362), PALAKAYALA SATYA SAI (18475A0343), in partial fulfilment for the award of B.Tech in DEPARTMENT OF MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project guide

KANDRU JOHN BABU M. Tech Assistant professor Head of the Department

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ii



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NARASARAOPET - 522 601

Guntur (Dist.), A.P.

This Is To Certify That The Project Entitled "DESIGN AND ANALYSIS OF DIFFERENTIAL GEAR BOX" Is Being Submitted By A Anil Kumar (18475A0338), P.Mokthar Basha (18475A0366), B. Maharshi Pavan Kalyan Naik (18475A0371), B. Venkata Gopi Nath (18475A0349), M. Venkatesh (18475A0332), K. Nitish Kumar (18475A0342), N. Chiranjeevulu (18475A0358). In Partial Fulfillment Of The Award Of B. Tech In "BACHELOUR OF TECHNOLOGY in MECHANICAL ENGINEERING" From Narasaraopeta Engineering College Narasaraopet Affiliated To Jawaharlal Nehru Technological University Kakinada.

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

PROJECT GUIDE

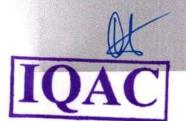
Mr T.ASHOK KUMAR M.Tech

HEAD OF THE DEPARTMENT

Dr.B. VENKATA SIVA Ph.D

INTERNAL PLAMINER

EXTERNAL EXAMINAR



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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

This is to certify that the Project entitled "FABRICATION OF APPARATUS TO DETERMINE THE THERMAL CONDUCTIVITY OF PURE METALS AND COMPOSITES" is being submitted by Mr. M. OM PRAKASH REDDY, B.HOSANNA, R.RAMARAO NAIK, B.EMMANUEL, N.RAVI CHANDRA, CH.MANIKANTA and B.C HAKRAVARTHI in partial fulfilment for the award of B.Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him under our guidance.

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

Signature of the Guide

Dr. D. SUNEEL M.Tech, Ph.D., FIE(I), MISTE, MRSI

VICE PRINCIPAL
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NARASARAOPET - 522 601,
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Internal Examiner

Signature of the HOD

Dr. B. VENKATA SIVA M.Toch, Ph.D.

External Examiner

IQAC

iii

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601
Guntur (Dist.), A.P.

This is to certify that Project entitled "MANUFACTURING OF HYPERBOLOIDAL GEAR MODEL USING ULTIMAKER 85 3D PRINTING MAHINE" is being submitted by Mr. C. VENKATA NAI RAM(17471A0343), V.KOUSHIK KUMAR(17471A0321), B.V.MANIKANTA REDDY (17471A0364), M.ROOP CHANDH (17471A0363), P.SRIKANTH(16471A0326), A.PRUDHVI(17471A0329) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project Guide

Mr. BACHALI RAMBABU

Head of the Department

Dr. B.VENKATA SIVA

Internal Examiner

External Examinar

IQAC

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

This is to certify that the Project entitled "DETERMINATION OF CLENGINE PERFORMANCE CHARACTERISTICS USING BIO-DIESEL AND TITANIUM OXIDE NANOPARTICLES BLENDER" is being submitted by Mr.P. KISHORE (18475A0369), Mr.V. BEIDVAN CHANDAR (18475A0367), Mr.K. HARIBABU (18475A0365), Mr.V. VIJAY (18475A0359), Mr. B.GANESH REDDY (18475A0330), Mr.V. ASHOR (18475A0324). In partial fulfillment for the award of BACHELOR OF TECHNOLOGY in the Department of MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Signature of the Guide

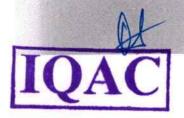
Ch.Sekhar

Signature of the HEAD

Dr.B.Venkata Siva

Internal Examiner

External Examiner



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NARASARAOPET - 522 601
Guntur (Dist.), A.P.

This is to certify that a major project entitled "DESIGN AND FABRICATION OF EXPERIMENTAL SETUP TO DETERMINE MOMENT OF INERTIA" is being submitted by Mr. K. SAI KUMAR (18475A0350), B. AKHIL REDDY (18475A0352), S. SAI RAJU (18475A0331), G. SAI MAHENDHAR (18475A0363), K. SATHISH (18475A0326), M. HARISH (18475A0355), S PAVAN KUMAR (18475A0354), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project Guide

Mr. M. Venkanna Babu

Head of the Department

Dr. B. Venkata Siva

Internal Examiner

External Suring

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iii

PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 601

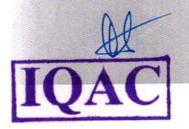
Guntur (Dist.), A.P.

This is to certify that the Project entitled "DESIGN AND CFD ANALYSIS OF SHELL AND TUBE HEAT EXCHANGER" is being submitted by Mr. A. CHANDRA SEKHAR REDDY (18475A0341), NUTHALAPATI. ANIL (18475A0335), V.GANESH BABU (18475A0339), Y. SAIDULU (18475A0368), A. PRAVEEN KUMAR (18475A0364), B. RAJA SEKHAR (16471A0314) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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P. Sravani

Dr. B. Venkata Siva



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

This is to certify that the Project entitled "PERFORMANCE OF CI ENGINE BY USING BIODIESEL AND IRON OXIDE NANO PARTICLES" is being submitted by P.MALLIKHARJUNA RAO (17471A0311), SK.BAJI (17471A0315), K.RAVINDRA (17471A0349), B.JOHN BABU (17471A0324), M.MAHESH (17471A0330), D.SAI MOHESH (16471A0345), and CH. SITA RAM (16471A0367). In partial fulfilment for the award of BACHELOR OF TECHNOLOGY in the Department of MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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Signature of the Guide

Dr.D.Jagadish

Signature of the Head

Dr.B. Venkata Siva

Internal Examiner

External Examiner

IQAC

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601

Guntur (Dist.). A.P.

This is to certify that the Project entitled "DESIGN AND DEVELOPMENT OF 3D PRINTED LINEAR ACTUATOR" is being submitted by Mr. P.ANJI BABU (18475A0305), N.LAKSHMAREDDY (17471A0361), CH.GOPI KRISHNA (17471A0366), D.ASHOK KUMAR (17471A0369), E.SUNIL (17471A0372), B.SUMANTH (17471A0381) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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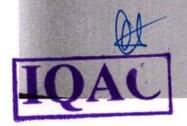
Project Guide

B. Rajiv Kumar

Head of the Department

Dr. B. Venkata Siva

External Examiner



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601

Guntur (Dist.), A.P.

This is to certify that Project entitled "AUTOMATION OF IGUS ROBO ARM FOR SERVING BEVERAGES BY USING OCR" is being submitted by Mr. SK.JOHN SAIDA (18475A0307), CH.CHANDU(18475A0319), Y.RAVI KUMAR (17471A0377), A RAO(18471A0310), U.GANESH(18475A0320), SEKHAR TEJA(17471A0374) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS). NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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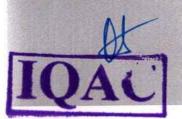
Project Guide

Mr. MOJESWARARAO DUDUKU

Head of the Department

Dr. B.VENKATA SIVA

External Examiner



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 522 691

Guntur (Dist.), A.P.

This is to certify that the Project entitled "DETERMINATION OF CI ENGINE PERFORMANCE CHARACTERISTICS USING BIO-DIESEL AND TITANIUM OXIDE NANOPARTICLES BLENDER" is being submitted by Mr P. KISHORF (18475A0369), Mr. V. BHIL VAN

CHANDAR (18475A0367), Mr.K.HARIBABU (18475A0365), Mr.V.VUAY

(18475A0359).

Mr.B.GANESH REDDY (18475A0330), Mr.V. ASHOK (18475A0324). In partial fulfillment for the award of BACHELOR OF TECHNOLOGY in the Department of MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Signature of the Guide

Ch.Sekhar

Signature of the HEAD

Dr.B. Venkata Siva

Internal Examiner

External Examiner

IQAC

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

This is to certify that the Project entitled "DESIGN AND CFD ANALYSIS OF SHELL AND TUBE HEAT EXCHANGER" is being submitted by Mr. A. CHANDRA SEKHAR REDDY (18475A0341), NUTHALAPATI.ANIL (18475A0335) V.GANESH BABU (18475A0339), Y. SAIDULU (18475A0368), A. PRAVEEN KUMAR (18475A0364), B. RAJA SEKHAR (16471A0314) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project Guide

P. Sravani

Head of the Department

Dr. B. Venkata Siva

Internal Examiner

External Framiner



PRINCIPAL III
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601 .
Guntur (Dist.), A.P.

This is to certify that an industrial training entitled "DESIGN AND ANALYSIS OF IC ENGINE PISTON AND PISTON RINGS BY USING DIFFERENT MATERIALS" is being submitted by Mr. AKHIL SAI TALLURI (17471A0301), B HARI KRISHNA (17471A0307), VV SHANMUKH (17471A0322), D NAGARAJU (17471A0327), P MANI KANTA (17471A0331), D GOPI NAIDU (17471A0338), K SIVA GOPI (17471A0348), in partial fulfillment for the award of Bachelor of technology in Mechanical engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonfire work carried out by him/her under our guidance.

The results embodied in this these is having not been submitted to any other University or Institute for the award of any degree or diploma.

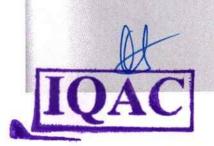
Project Guide

Mr. T N V MAHESH BABU

Head of the Department

Dr. B. VENKATA SIVA

External Examiner



NARASARAOPETA ENGIÑEERING COLLEGE NARASARAOPET - 522 601

Guntur (Dist.). A.P.

This is to certify that a major project entitled "DESIGN AND FABRICATION OF EXPERIMENTAL SETUP TO DETERMINE NATURAL FREQUENCY" is being submitted by, Mr. VENNAPUSALA SRIKANTH (17471A0316), Mr. DAREDDY RAMIREDDY (17471A0344), Mr. BOMMINENI ASHOK BABU (17471A0313), Mr. KUNDURU NAGIREDDY (17471A0308), Mr. PATAN MOHIDDHEEN (17471A0318), Mr. NALUKURTHI SUKUMAR (16471A0308), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project Guide

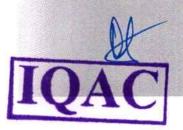
Mr. M. Venkanna Babu

Head of the Department

Dr. B. Venkata Siva

Internal Examiner

External Examiner



PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

This is to certify that the second year these is on "DESIGN AND OPTIMISATION OF RAILWAY AXLE" is the bonafide work of P. NAGA SAI DILEEP (17471A0339), B. MAHESH (17471A0314), G. VENUBABU (17471A0309), M. BALA NAVEEN KUMAR (17471A0326), K. MANI PAVAN (17471A0306), SK. SURAJAHMAD (17471A0340). Under the guidance and supervision submitted in partial fulfilment of the requirement for the award of the B. Tech, MECHANICAL, IN NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET during 2020-2021.

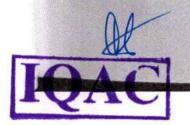
The results embodied in this these is have not been submitted to any other University or Institute for the award of any degree or diploma.

N. V. Sekhoz Project guide N. VIJAYA SEKAR

Head of the Department

Dr.B. Venkata Siva

Internal Examiner.



NARASARAOPETA ENGINEERING COLLEGE

NARASARAOPET - 522 601

Guntur (Dist.). A.P.

This is to certify that the Project entitled "DESIGN AND FABRICATION OF 360 DESK LAMP" (3D PRINTING) is being submitted by Mr. T.PAVAN KUMAR(17471A0335), Mr.P.GOVARDHAN BABU(17471A0328), Mr.S.KAMALA KUMAR(17471A0332), Mr.G.NARENDRA(17471A0305), Mr.V.TEJA(17471A0334), Mr.K.RAKESH SAINATH REDDY(17471A0345) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project guide

Dr. M. Sreenivasa Kumar

M.Tech., Ph.D.(UK)., MISTE.,FIE(I)

Head of the Department

Dr. B. Venkata Siva

M.Tech.Ph.D., FIE(I), MISTE, ISNT

Internal Examiner

External Examiner

PRINCIPAL III
NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)
NARASARAOPET - 522 601

Guntur (Dist.), A.P.



This is to certify that a major project entitled "DESIGN AND FABRICATION OF EXPERIMENTAL SETUP TO DETERMINE MOMENT OF INERTIA" is being submitted by Mr. K. SAI KUMAR (18475A0350), B. AKHIL REDDY (18475A0352), S. SAI RAJU (18475A0331), G. SAI MAHENDHAR (18475A0363), K. SATHISH (18475A0326), M. HARISH (18475A0355), S PAVAN KUMAR (18475A0354), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project Guide

Mr. M. Venkanna Babu

Head of the Department

Dr. B. Venkata Siva

Internal Examiner

External Examiner



PRINCIPAL
NARASARADPETA ENGINEERING COLLEGE
(AUTONOMOUS)

This is to certify that a major project entitled "MANIPULATION OF A ROBOTIC ARM FOR SERVING OF BEVERAGE" is being submitted by Mr. SHAIK. YASIN(17471A0323), Mr. S. CHETANA KRISHNA KUMARA (17471A0347), Mr. J. PURNA CHANDRA RAO (17471A0325), Mr. B. RAJU (17471A0336), Mr. K. NAGARJUNA (17471A0342), Mr. P. RUPANAND(17471A0320), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

bustedy.

Project Guide

Mr. P. Sarath Chandra. Assistant Professor

Dr. B. Venkata Siva. Professor and Head



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601

iDist.I. A.P.

This is to certify that the Project entitled "FABRCATION AND ANALYSIS OF A356-SiC AND A356-GRAPHITE METAL MATRIX COMPOSITES BY USING STIR CASTING METHOD" is being submitted by Mr. CHAITANYA BANTU (17471A0312), P SAI PRAVEEN (17471A0302), PRAKASH G (17471A0317), M S D MAHENDRA (17471A0332), K SEKHAR BABU (17471A0341), P VENKAIAH (17471A0346), SYED NURUDDIN (17471A0350) in partial fulfillment for the award of B. Tech in MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonfire work carried out by him/her under our guidance.

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

Signature of the Guide

Dr. P SURESH BABU

Associate Professor

Dept. of Mechanical Egg.

Signature of HOD

Dr. B.VENKATA SIVA

Prof. & HOD

Dept. of Mechanical Egg.

Internal Examiner

External Examiner

IQAC

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

This is to certify that the Project entitled "FABRICATION OF APPARATUS TO DETERMINE THE THERMAL CONDUCTIVITY OF PURE METALS AND COMPOSITES" is being submitted by Mr. M. OM PRAKASH REDDY, B.HOSANNA, R.RAMARAO NAIK, B.EMMANUEL, N.RAVI CHANDRA, CH.MANIKANTA and B.C HAKRAVARTHI in partial fulfilment for the award of B.Tech in Mechanical Engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him under our guidance.

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

Signature of the Guide

Dr. D. SUNEEL M.Tech, Ph.D., FIE(I), MISTE, MRSI

VICE PRINCIPAL
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Internal Examiner

Signature of the HOD

Dr. B. VENKATA SIVA M.Tech, Ph.D.

External Examiner

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NARASARAUPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAUPET - 522 601

Guntur (Dist.), A.P.

This Is To Certify That The Project Entitled "DESIGN AND ANALYSIS OF DIFFERENTIAL GEAR BOX" Is Being Submitted By A.Anil Kumar (18475A0338), P.Mokthar Basha (18475A0366), B. Maharshi Pavan Kalyan Naik (18475A0371), B. Venkata Gopi Nath (18475A0349), M. Venkatesh (18475A0332), K. Nitish Kumar (18475A0342), N. Chiranjeevulu (18475A0358). In Partial Fulfillment Of The Award Of B. Tech In "BACHELOUR OF TECHNOLOGY in MECHANICAL ENGINEERING" From Narasaraopeta Engineering College Narasaraopet Affiliated To Jawaharlal Nehru Technological University Kakinada.

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

PROJECT GUIDE

Mr T.ASHOK KUMAR M. Tech

HEAD OF THE DEPARTMENT

Dr.B. VENKATA SIVA Ph.D.

INTERNAL EXAMINER

EXTERNAL EXÂMINAR



PRINCE AL
NARASARADPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARADPET - 522 601

Guntur (Dist.), A.P.

This is to certify that the Project entitled "DESIGN ANALYSIS AND OPTIMIZATION OF TWO-WHEELER DISC BRAKE ROTOR" is being submitted by Mr. REDDY RAJA NAVEEN (18475A0328), SHAIK BADULLA (18475A0321), SYED MOHAMMAD ADIL (18475A0361), NETTAM PRAVIEN KUMAR(18475A0348), PAKANATI GOUTHAM KUMAR REDDY (18475A0362), PALAKAYALA SATYA SAI (18475A0343). in partial fulfilment for the award of B.Tech in DEPARTMENT OF MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project guille

KANDRU JOHN BABU M. Tech Assistant professor Head of the Department

Dr. B. VENKATA SIVA M. Tech, Ph.D. Professor & HOD

Internal Examiner

External Examiner

IQAC

PRINCIPAL NARASARADPETA ENGINEERING COLLEG (AUTONOMOUS)

This is to certify that the Project entitled "MODELING AND OPTIMISATION OF PISTON BY USING SOLID WORKS AND ANSYSA" is being submitted by Mr S.KOTT REDDY (18475A0327), T.KARTHEEK (18475A0325), SK AFRIDE (18475A0337), B.VLIAY SAI KUMAR (18475A0345), P.ASHOK (18475A0344), Y.VENKAT (18475A0357) in partial fulfilment for the award of B.Tech in DEPARTMENT OF MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project guide

KANDRU JOHN BABU M. Tech Assistant professor Head of the Department

Dr. B. VENKATA SIVA M. Tech, PhD.
Professor & HOD

Internal Examiner

External Examiner

IOAC

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Principal
NARASARAOPETA ENGINEERING CÖLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 6
Guntur (Dist.), A...

This is to certify that the Project entitled "PERFORMANCE OF CI ENGINE BY USING BIODIESEL AND IRON OXIDE NANO PARTICLES" is being submitted by PAMALLIKHARH NA RAO (17471A0311), SK.BAJI (17471A0315), K.RAVINDRA (17471A0349), B.JOHN BABI (17471A0324), M.MAHESH (17471A0330), D.SAI MOHESH (16471A0345), and CH. SITA RAM (16471A0367). In partial fulfilment for the award of BACHELOR OF TECHNOLOGY in the Department of MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Signature of the Guide

Dr.D.Jagadish

Signature of the Head

Dr.B. Venkata Siva

Internal Examiner

External Examiner



NARASARAOPETA ENGINEERING COHFGE (AUTONOMOUS) NARASARAOPET - 522 601 Guntur (Dist.), A.P.

This is to certify that the Project entitled "DESIGN AND FABRICATION OF 3D PRINTED PROSTHETIC HAND" is being submitted by Mr. SK. AKBAR JANI (18475A0356), D.VENKATA BHASKAR (18475A0353), P.VENKATA DINESH (18475A0329), V. RAMALINGESWARA RAO (18475A0370), B.HARIKRISHNA REDDY (184750333), B. SRIKANTH NAIK (18475A0334),B.NAGARJUNA REDDY (18475A0336) in partial fulfillment for the award of B. Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project Guide

N Valia Sit

SK. NAGUL MEERAVALI

Head of the Department

Dr. B. VENKATA SIVA

Internal Examiner

F. 47 19.0

IQAC

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601

Guntur (Dist.), A.P.

This is to certify that the Project entitled "DESIGN AND ANALYSIS OF WHEEL RIM ON RADIAL LOADS" Is being submitted by Mr./Mrs./Ms. D. SAIKRISHNA REDDY (18475A0304). A. SRIKANTH (18475A0312), P. SYAMBABU (17471A0355), G. TRINADH (17471A0382), P. RAGHAVENDRABABU (17471A0367), K. APPARAO (18475A0318), in partial fulfilment for the award of B.Tech in MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project guide

K. KIRAN CHAND

Head of Department

Dr. B. VENKATA SIVA

Internal Examiner

External Examiner

IQAC

PRINCIPAL
NARASARADPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601
Guntur (Dist.), A.P.

This is to certify that the second year these is on "DESIGN AND OPTIMISATION OF RAIL WAY AXLE" is the bonafide work of P. NAGA SAI DILEEP (17471A0339), B. MAHESH (17471A0314), G. VENUBABU (17471A0309), M. BALA NAVEEN KUMAR (17471A0326), K. MANI PAVAN (17471A0306), SK. SURAJAHMAD (17471A0340). Under the guidance and supervision submitted in partial fulfilment of the requirement for the award of the B. Tech, MECHANICAL, IN NARASARAOPETA ENGINEERING COLLEGE, NARASARAOPET during 2020-2021.

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

N.V. Sekhaz_ Project guide

N. VIJAYA SEKAR

Head of the Department

Dr.B. Venkata Siva

Internal Examiner.

External Examiner.

IQAC

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NARASARAOPET - 522 661
Guntur (Dist.), A.P.

This is to certify that a major project entitled "MANIPULATION OF A ROBOTIC ARM FOR SERVING OF BEVERAGE" is being submitted by Mr. SHAIK. YASIN(17471A0323), Mr. S. CHETANA KRISHNA KUMARA (17471A0347), Mr. J. PURNA CHANDRA RAO (17471A0325), Mr. B. RAJU (17471A0336), Mr. K. NAGARJUNA (17471A0342), Mr. P. RUPANAND(17471A0320), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project Guide

Mr. P. Sarath Chandra, Assistant Professor Head of the Department

Dr. B. Venkata Siva, Professor and Head

Internal Examiner

External Examiner



PRINCIPAL
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NARASARAOPET - 522 601
Guntur (Dist.), A.P.

This is to certify that the Project entitled "EXPERIMENTAL ANALYSIS OF SINGLECYLINDER DIESEL ENGINE FUELED WITH BIODIESEL AND COBALT ONDE NANOPARTICLES" is being submitted by P.MANI (18475A0311), SK.BAJI (18475A0317), B. E. S. W. A. R. A. V. E. N. K. A. T. A. S. A. F. Y. E. S. W. A. N. I. H. (17471A0370), K.JITHENDRA KUMAR (18475A0308), A.HARINATH (17471A0358), V.HEMANTH REDDY (17471A0357). In partial fulfilment for the award of BACHELOR OF TECHNOLOGY in the Department of Mechanical Engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Signature of the Project Guide

P.SRINIVASARAO M.Tech

Head of the Department

Dr. B. Venkata Siva, M. Tech, Ph.D.

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Guntur (Dist.), A.P.

This is to certify that the Project entitled "PERFORMANCE OF CI ENGINE BY USING BIO DIESEL AND MAGNESIUM OXIDE NANO PARTICLES" is being submitted by J.BHANUPRASAD (18475A0309), N.PRAVENKUMAR (18475A0313) SK.SHAHUL (17471A0352), R.GURAVAREDDY (18475A0306), CH.V.MANIKUMAR (17471A0364), and D.P.VIJAYKUMAR (17471A0378). In partial fulfillment for the award of BACHELOR OF TECHNOLOGY in the Department of MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project of the Guide

Dr.D.Jagadish Professor, Dept. of Mech. Engg. Head of the Department

Dr.B. Venkata Siva Professor, Dept. of Mech. Engg.

Internal Examiner

External Examiner

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NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET - 522 601

Guntur (Dist.), A.P.

This is to certify that the Project entitled "DESIGN AND ANALYSIS OF WHEEL RIM ON RADIAL LOADS" Is being submitted by Mr./Mrs./Ms. D. SAIKRISHNA REDDY (18475A0304). A. SRIKANTH (18475A0312). P. SYAMBABU (17471A0355). G. TRINADH (17471A0382), P. RAGHAVENDRABABU (17471A0367), K. APPARAO (18475A0318). in partial fulfilment for the award of B.Tech in MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project guide

K. KIRAN CHAND

Head of Department

Dr. B. VENKATA SIVA

Internal Examiner

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PRINCIPAL
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NARASARAOPET - 522 601
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This is to certify that the project entitled "DESIGN AND OPTIMIZATION OF FLYWHEEL" is being submitted by Mr. SK. SATTAR (18475A0303), M.DURGA MANI PAVAN (17471A0353), I.NAVEEN (17471A0356), B.PRAKASH (17471A0360), CH. SAI SANDEEP (17471A0362), B. THIRUPATIRAO (17471A0368), CH. RAVITEJA (17471A0373) in partial fulfilment for the award of B.Tech in Mechanical Engineering to the Narasraopeta Engineering college(AUTONOMOUS), Narasaraopeta is a record of bonafide work carried out by him under our guidance.

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

Project Guide

Dr.B.VENKATA SIVA Ph.D., MISTE, ISNT, FIE(I)

Head of the Department

Dr.B. VENKATA SIVA Ph.D., MISTE, ISNT, FIE(I)

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NARASARAOPET - 522 601

Guntur (Dist.), A.P.

This is to certify that the Project entitled "DESIGN AND FABRICATION OF FULLY 3D-PRINTABLE TURNTABLE" is being submitted by T.SRIHARI (18475A0301), M.LOKESH (17471A0363), K.VENKATESH (17471A0351), G.PAVAN KALYAN (17471A0371), G.AKASH (17471A0380), P.VENKATESH (17471A0365), N.SIVA NAGARAJU (17471A0379) in partial fulfillment for the award of B. Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project duide

Sk.Bajan

Head of the Department

Dr. B.Venkata Siva

Internal Examiner

External Examiner

QAC

This is to certify that the Project entitled "DESIGN AND FABRICATION OF WALKING MECHANISM" is being submitted by Mr. SK.NAGUR BASHA (18475A0315),Mr.SK.MASTANVALI(18475A0316),Mr.DOKKU.PAVANKUM AR(18475A0302), Mr.R.BALAJI (17471A0376), Mr.K.VIJAY(17471A0354), Mr.N.YAGNA MALLESAWRARAO(17471A0359) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance. The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

M.Venkai _____ Project Guide

Mr.M.VENKAIAH , M.Tech.

HeadoftheDepartment

Dr.B.VENKATASIVA,Ph.D.

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External Examiner

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IQAC

This is to certify that a major project entitled "MANIPULATION OF A ROBOTIC ARM FOR SERVING OF BEVERAGE" is being submitted by Mr. SHAIK. YASIN(17471A0323), Mr. S. CHETANA KRISHNA KUMARA (17471A0347), Mr. J. PURNA CHANDRA RAO (17471A0325), Mr. B. RAJU (17471A0336), Mr. K. NAGARJUNA (17471A0342), Mr. P. RUPANAND(17471A0320), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Residence Project Guide

Mr. P. Sarath Chandra, Assistant Professor Head of the Department

Dr. B. Venkata Siva, Professor and Head

Internal Examiner

External Examiner

IQAC

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This is to certify that the Project entitled "DESIGN AND FABRICATION OF 3D PRINTED PROSTHETIC HAND" is being submitted by Mr. SK. AKBAR JANI (18475A0356), D.VENKATA BHASKAR (18475A0353), P.VENKATA DINESH (18475A0329), V. RAMALINGESWARA RAO (18475A0370), B.HARIKRISHNA REDDY (184750333), B. SRIKANTH NAIK (18475A0334), B.NAGARJUNA REDDY (18475A0336) in partial fulfillment for the award of B. Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Nali. Soik

Project Guide

SK. NAGUL MEERAVALI

Head of the Department Dr. B. VENKATA SIVA

Internal Examiner

Externor

IQAC

This is to certify that a major project entitled "DESIGN AND FABRICATION OF EXPERIMENTAL SETUP TO DETERMINE NATURAL FREQUENCY" is being submitted by, Mr. VENNAPUSALA SRIKANTH (17471A0316), Mr. DAREDDY RAMIREDDY (17471A0344), Mr. BOMMINENI ASHOK BABU (17471A0313), Mr. KUNDURU NAGIREDDY (17471A0308), Mr. PATAN MOHIDDHEEN (17471A0318), Mr. NALUKURTHI SUKUMAR (16471A0308), in partial fulfillment for the award of B. Tech in Mechanical engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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

Project Guide

Mr. M. Venkanna Babu

Head of the Department

Dr. B. Venkata Siva

Internal Examiner

External Examiner

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III

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NARASARAOPETA ENGINEERING COLLEGE
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Guntur (Dist.), A.P.

This is to certify that an industrial training entitled "DESIGN AND ANALYSIS OF IC ENGINE PISTON AND PISTON RINGS BY USING DIFFERENT MATERIALS" is being submitted by Mr. AKHIL SAI TALLURI (17471A0301), B HARI KRISHNA (17471A0307), VV SHANMUKH (17471A0322), D NAGARAJU (17471A0327), P MANI KANTA (17471A0331), D GOPI NAIDU (17471A0338), K SIVA GOPI (17471A0348), in partial fulfillment for the award of Bachelor of technology in Mechanical engineering to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonfire work carried out by him/her under our guidance.

The results embodied in this these is having not been submitted to any other University or Institute for the award of any degree or diploma.

Project Guide

Mr. T N V MAHESH BABU

Head of the Department

Dr. B. VENKATA SIVA

Internal Examiner

Externa Examiner

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This is to certify that Project entitled "MANUFACTURING OF USING ULTIMAKER S5 3D HYPERBOLOIDAL GEAR MODEL PRINTING MAHINE" is being submitted by Mr. C. VENKATA SAI RAM(17471A0343), Y.KOUSHIK KUMAR(17471A0321), B.V.MANIKANTA CHANDH (17471A0303). (17471A0304), M.ROOP REDDY P.SRIKANTH(16471A0326), A.PRUDHVI(17471A0329) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the (AUTONOMOUS), COLLEGE NARASAROPETA **ENGINEERING** NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project Guide

Mr. BACHALI RAMBABU

Head of the Department

Dr. B.VENKATA SIVA

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External Examiner

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NARASARAOPET - 522 601 Guntur (Dist.), A.P.

This is to certify that the Project entitled "FABRCATION AND ANALYSIS OF A356-SiC AND A356-GRAPHITE METAL MATRIX COMPOSITES BY USING STIR CASTING METHOD" is being submitted by Mr. CHAITANYA BANTU (17471A0312), P SAI PRAVEEN (17471A0302), PRAKASH G (17471A0317), M S D MAHENDRA (17471A0332), K SEKHAR BABU (17471A0341), P VENKAIAH (17471A0346), SYED NURUDDIN (17471A0350) in partial fulfillment for the award of B. Tech in MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University-Kakinada, Kakinada is a record of bonfire work carried out by him/her under our guidance.

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

Signature of the Guide

Dr. P SURESH BABU

Associate Professor

Dept. of Mechanical Egg.

Signature of HOD

Dr. B.VENKATA SIVA

Prof. & HOD

Dept. of Mechanical Egg.

Internal Examiner

External Examiner

IQAC

This is to certify that the project entitled "DESIGN AND OPTIMIZATION OF FLYWHEEL" is being submitted by Mr. SK. SATTAR (18475A0303), M.DURGA MANI PAVAN (17471A0353), I.NAVEEN (17471A0356), B.PRAKASH (17471A0360), CH. SAI SANDEEP (17471A0362), B. THIRUPATIRAO (17471A0368), CH. RAVITEJA (17471A0373) in partial fulfilment for the award of B.Tech in Mechanical Engineering to the Narasraopeta Engineering college(AUTONOMOUS), Narasraopeta is a record of bonafide work carried out by him under our guidance.

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

Project Guide

DT.B.VENKATA SIVA PLD, MISTE, ISNT, FIE(I)

Head of the Department

Dr.B.VENKATA SIVA Ph.D., MISTE, ISNT, FIE(I)

Internal Examiner

External Examiner

PRINCIPAL

NARASARASPETA ENGINEERING COLLEGE

NARASARAOPET - 522 00

Guntur (Dist.), A.P

This is to certify that Project entitled "AUTOMATION OF IGUS ROBO ARM FOR SERVING BEVERAGES BY USING OCR" is being submitted by Mr. SK.JOHN SAIDA (18475A0307). CH.CHANDU(18475A0319), Y.RAVI KUMAR (17471A0377), A CHADRA SEKHAR RAO(18471A0310), U.GANESH(18475A0320), B.RAVI TEJA(17471A0374) in partial fulfillment for the award of B.Tech in MECHANICAL ENGINEERING to the NARASAROPETA ENGINEERING COLLEGE (AUTONOMOUS), NARASARAOPET, is a record of bonafide work carried out by them under our guidance.

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

Project Guide

Mr. MOJESWARARAO DUDUKU

Head of the Department

Dr. B.VENKATA SIVA

Internal Examiner

External Examiner

PRINCIPAL
NARASARAOPETA ENGINEERIN
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NARASARAOPET - 520 Guntur (Dist.), A.P.



This is to certify that the Project entitled "EXPERIMENTAL ANALYSIS OF SINGLECYLINDER DIESEL ENGINE FUELED WITH BIODIESEL AND COBALT OXIDE NANOPARTICLES" is being submitted by P.MANI (18475A0311), SK.BAJI (18475A0317), B. E. S. W. A. R. A. V. E. N. K. A. T. A. S. A. T. Y. E. S. W. A. N. T. H. (17471A0370), K.JITHENDRA KUMAR (18475A0308), A.HARINATH (17471A0358), V.HEMANTH REDDY (17471A0357). In partial fulfilment for the award of BACHELOR OF TECHNOLOGY in the Department of Mechanical Engineering to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

The results embodied in this thesis have not been submitted to any other Universityor lastitute for the award of any degree or diploma

Signature of the Project Guide

PSRINIVASARAO M Tech

Head of the Department

Dr. B. Venkata Siva, M.Tech, Ph.D.

Internal Examiner

External Examiner

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601 Guntur (Dist.), A.P.

This is to certify that the Project entitled "PERFORMANCE OF CI ENGINE BY USING BIO DIESEL AND MAGNESIUM OXIDE NANO PARTICLES" is being submitted by J.BHANUPRASAD (18475A0309), N.PRAVENKUMAR (18475A0313) SK.SHAHUL (17471A0352), R.GURAVAREDDY (18475A0306), CH.V.MANIKUMAR (17471A0364), and D.P.VIJAYKUMAR (17471A0378). In partial fulfillment for the award of BACHELOR OF TECHNOLOGY in the Department of MECHANICAL ENGINEERING to the Jawaharlal Nehru Technological University- Kakinada, Kakinada is a record of bonafide work carried out by him/her under our guidance.

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Project of the Guide

Dr.D.Jagadish Professor, Dept. of Mech. Engg. Head of the Department

Dr.B. Venkata Siva Professor, Dept. of Mech. Engg.

Internal Examiner

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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that **Mr.** <u>Punati Manikanta</u>, with Roll no. <u>17471A0331</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of IC engine piston</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







TENTELLE TRANSPORTER

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To Whom It May Concern

This is to certify that Mr. <u>Potturi Naga Sai Dileep</u>, with Roll no. <u>17471A0339</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Optimization of Railway Axle</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.

Ay Durized Signature





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To Whom It May Concern

This is to certify that Mr. <u>Prattipati Raghavendra Babu</u>, with Roll no. <u>17471A0367</u>,

B.Tech Mechanical Engineering student from Narasaraopeta Engineering College

,Narasaraopet, has done his project work Titled <u>Design and Analysis of Wheel rim on</u>

<u>radial loads</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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To Whom It May Concern

This is to certify that **Mr.** <u>Prathipati Syam Babu</u>, with Roll no. <u>17471A0355</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of Wheel rim on radial loads</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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. And the equals followed

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To Whom It May Concern

This is to certify that Mr. Shaik Sattar, with Roll no. 18475A0303, B. Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled Design and Optimization of flywheel in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







CALLEGION SUMMERS

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To Whom It May Concern

This is to certify that **Mr.** <u>Shaik Surajahmad</u>, with **Roll no.** <u>17471A0340</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Optimization of Railway Axle</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







MANAGEROR FOR LEARNING

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To Whom It May Concern

This is to certify that **Mr.** <u>Talluri Akhil Sai</u>, with **Roll no.** <u>17471A0301</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of IC engine piston</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







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To Whom It May Concern

This is to certify that Mr. Vakkalagadda Ganesh Babu, with Roll no. 18475A0339, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled Design and CFD Analysis of Shell and Tube Heat Exchanger in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







. YURA 6/105/YUA Perinci

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To Whom It May Concern

This is to certify that Mr. <u>Vasa Venkat Shanmukh</u>, with Roll no. <u>17471A0322</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of IC engine piston</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







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To Whom It May Concern

This is to certify that Mr. <u>Yaragani Saidulu</u>, with Roll no. <u>18475A0368</u>, B.Tech

Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet,
has done his project work Titled <u>Design and CFD Analysis of Shell and Tube Heat</u>

<u>Exchanger</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.

Authorized digo ture

IQAC

PRINCIPAL
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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that **Mr.** <u>Kotra Mani Pavan</u>, with Roll no. <u>17471A0306</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Optimization of Railway Axle</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





PRINCIPAL
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(AUTONOMOUS)

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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. Kote Niteeshkumar, with Roll no. 18475A0342, B. Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled Design and Analysis of Differential Gear Box in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







CUTTEL OF BUILDING A ME

2nd Floor, Swarnalok complex, 4/1 Arundelpet, Guntur – 522002.

Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that **Mr.** <u>Katam Siva Gopi</u>, with Roll no. <u>17471A0348</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of IC engine piston</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. Madala Bala Naveen Kumar, with Roll no. 17471A0326,

B.Tech Mechanical Engineering student from Narasaraopeta Engineering College,

Narasaraopet, has done his project work Titled Design and Optimization of Railway Axle

in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Guntur (Dist.), A.P.



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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. Medisetty Durga Mani Pavan, with Roll no. 17471A0353,

B. Tech Mechanical Engineering student from Narasaraopeta Engineering College,

Narasaraopet, has done his project work Titled Design and Optimization of flywheel in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. Meka Venkatesh, with Roll no. 18475A0332, B.Tech

Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet,
has done his project work Titled Design and Analysis of Differential Gear Box in our
organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. Nuthalapati Anil, with Roll no. 18475A0335, B.Tech

Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet,
has done his project work Titled Design and CFD Analysis of Shell and Tube Heat

Exchanger in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







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To Whom It May Concern

This is to certify that Mr. Nakkala Chiranjeevulu, with Roll no. 18475A0358, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled Design and Analysis of Differential Gear Box in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







LOTER CLE "L. LUNG Le"

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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. Pothavaram Mokthar Bhasha, with Roll no. 18475A0366,

B. Tech Mechanical Engineering student from Narasaraopeta Engineering College,

Narasaraopet, has done his project work Titled Design and Analysis of Differential Gear

Box in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







CANTER CAUD PLITA FVE EM

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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that **Mr.** <u>Degala Gopi Naidu</u>, with Roll no. <u>17471A0338</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of IC engine piston</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







CANALA CADO PAULA PAR LIM

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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. <u>Darapaneni Naga Raju</u>, with Roll no. <u>17471A0327</u>, B. Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of IC engine piston</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







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J TER CADE NEED EVELLES

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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. <u>Devarakonda Sai Krishna Reddy</u>, with Roll no. <u>18475A0304</u>,

B.Tech Mechanical Engineering student from Narasaraopeta Engineering College,

Narasaraopet, has done his project work Titled <u>Design and Analysis of Wheel rim on</u>

<u>radial loads</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. <u>Garlapati Trinadh</u>, with Roll no. <u>17471A0382</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of Wheel rim on radial loads</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.







CANDER CALD HIGHA PVR Ind

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To Whom It May Concern

This is to certify that Mr. <u>Gurijala Venubabu</u>, with Roll no. <u>17471A0309</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Optimization of Railway Axle</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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To Whom It May Concern

This is to certify that **Mr.** <u>Indla Naveen</u>, with **Roll no.** <u>17471A0356</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Optimization of flywheel</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.

Authorized dignature

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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. <u>Kavuri Appa Rao</u>, with Roll no. <u>18475A0318</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of Wheel rim on radial loads</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that **Mr.** <u>Burri Prakash</u>, with Roll no. <u>17471A0360</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Optimization of flywheel</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. <u>Bokka Rajashekhar</u>, with Roll no. <u>16471A0314</u>, B.Tech

Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet,
has done his project work Titled <u>Design and CFD Analysis of Shell and Tube Heat</u>

<u>Exchanger</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that **Mr.** <u>Boddu Thirupathirao</u>, with Roll no. <u>17471A0368</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Optimization of flywheel</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





PRINCIPAL
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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. <u>Bhandla Venkatagopinath</u>, with Roll no. <u>18475A0349</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of Differential Gear Box</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that **Mr.** Chinthapalli Raviteja, with Roll no. 17471A0373, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled **Design and Optimization of flywheel** in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that **Mr.** Chollangi Sai Sandeep, with Roll no. 17471A0362, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled **Design and Optimization of flywheel** in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Ph: 9032220123

Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. <u>Atukuri Anil Kumar</u>, with Roll no. <u>18475A0338</u>, B.Tech Mechanical Engineering student from Narasaraopeta Engineering College, Narasaraopet, has done his project work Titled <u>Design and Analysis of Differential Gear Box</u> in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.





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Email: Guntur@cantercadd.com Website: www.cantercadd.com

To Whom It May Concern

This is to certify that Mr. Akkala Chandra Sekhar Reddy, with Roll no. 18475A0341,

B.Tech Mechanical Engineering student from Narasaraopeta Engineering College,

Narasaraopet, has done his project work Titled Design and CFD Analysis of Shell and

Tube Heat Exchanger in our organization from 05-04-2021 to 30-07-2021 as part of curriculum.

We have noticed that, during the period, he has shown keen interest in his assignments and was also regular in attendance.

Authorized dignature

PRINCIPAL
NARASARADPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 601

Guntur (Dist.), A.P.



HOME AUTOMATION USING DJANGO

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. T. MUKESH CHOWDARY	(17471A0453)
Mr. N. V S S PRUDHVI KUMAR	(16471A0405)
Mr. P. SAI PAVAN	(17471A0426)
Mr. N. ANJI REDDY	(17471A0456)
Mr. T. SURESH BABU	(17471A0452)

Under the guidance of Mr. P. BHAGYA RAJU Asst. Prof.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NBA, NAAC with 'A' Grade) Kotappakonda Road, Yallamanda (Post), NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh. July, 2021

NARASARAOPETA ENGINEERING COLL FOR (AUTONOMOUS) NARASARAOPET - 5

Guntur (Dist.), A.:.

DESING OF LOW POWER MCML D-FLIP FLOP TOPOLOGY EXPLOITING FORWARD BODY BIAS THRESHOLD LOWERING

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY
IN
ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. SHAIK ABTHAB	(17471A0451)
Ms. K. V V S PRATHYUSHA	(17471A0408)
Mr. M. NAGASAI	(17471A0435)
Mr. LS S R SASTRY	(17471A0436)
Mr. G. VAMSI	(17471A0434)

Under the guidance of Mrs. T. INDIRA Asst. Prof.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

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Accredited by NBA, NAAC with 'A' Grade)

Kotappakonda Road, Vallamanda (Post),

NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.

July, 2021

Principal /
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522:

Guntur (Dist.), A.P.



4-BIT ARITHEMATIC LOGIC UNIT USING VERY HIGH-SPEED INTEGRATED CIRCUIT HARDWARE DESCRIPTION LANGUAGE

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. T. VYSHNAVI	(17471A0446)
Ms. Y. NAVYA	(17471A0448)
Mr. K. CHAKRI SVC	(17471A0401)
Mr. P. RAMANJI	(17471A0438)
Ms. G. NAVYA SRI	(17471A0450)
Mr. R. SUMANTH	(17471A0459)

Under the guidance of Mr. E. NARENDRA Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.

July, 2021



Principal
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 ...
Guntur (Dist.), A.P.

SMART ATTENDENCE SYSTEM USING FACE RECOGNITION

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. N. VENKATA YASHASWINI	(17471A0417)
Mr. M. SAI SRIDHAR	(17471A0419)
Ms. SYED MANISHA	(17471A0433)
Mr. M. AKHIL SURYA	(17471A0442)
Mr. Y. SUDHEER KUMAR REDDY	(17471A0405)

Under the guidance of Dr. A. V. NAGESWARA RAO, Ph. D Associate Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.

July, 2021

IQAC

RESOLUTION ENHANCEMENT OF COVID-19 CHEST X-RAY IMAGES USING FUZZY LOGIC

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

Ву

Y. SAI VAMSIKRISHNA	(17471A0414)
P. YASWANTH GUPTHA	(17471A0420)
P. VENKATESH NAIDU	(17471A0443)
N. DURGA PRASAD	(17471A0429)
M.SAI BHARGAV REDDY	(17471A0418)

Under the guidance of Dr. K. Raju, M.E.PhD Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE (Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade&thrice by NBA)
Kotappakonda Road, Yallamanda (Post),
NARASARAOPET-522 601, Guntur Dist., Audhra Pradesh.
JULY, 2021

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Principal
NARASARAUPETA ENGINEERING (711 - CE
(AUTONOMOUS)
NARASARAOPET - 521 ...
Guntur (Dist.), A.P.

SMART COLD STORAGE SYSTEM USING IOT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY **ELECTRONICS AND COMMUNICATION ENGINEERING**

By

Mr. M. SAI RAM	(17471A0415)
Mr. CH. KALYAN KUMAR	(17471A0404)
Mr. M. YASWANTH CHOWDARY	(17471A0403)
Mr. K. VINAY	(17471A0410)
Mr. K. GANESH KRISHNA SAI	(17471A0457)

Under the guidance of Dr. Sk. BAJID VALI, M. Tech, Ph. D Associate Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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July, 2021

MARASARAOPETA ENGIN (AUTONOMOUS' NARASARAOPET - D Guntur (Dist), Far.

RAILWAY TRACK CRACK INSPECTION AND AUTOMATED GATE CONTROLLING SYSTEM USING IOT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. G. CHARITHA	(17471A0440)
Ms. CH. SAI PRAGNA	(17471A0432)
Mr. P. SRINIVASARAO	(17471A0437)
Mr. G. RAMBHUPAL REDDY	(17471A0413)
Mr. SK. SALMAN	(17471A0441)

Under the guidance of P.S.S. Chakravarthy M. Tech, Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade& Thrice by NBA)

Kotappakonda Road, Yallamanda (Post).

NARASARAOPE T-522 601, Guntur Dist., Andhra Pradesh.

July . 2021

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NARASARAOPET - 52

Guntur (Dist.), A.P.

HAND GESTURE SIGN LANGUAGE FOR DUMB AND DEAF A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. N. LINGAREDDY	(17471A0444)
Mr. CH. ESWAR RAO	(17471A0424)
Mr. Y. PRATHAP	(17471A0425)
Mr. P. SURESH	(17471A0439)
Mr. G. TEJESWAR REDDY	(17471A0445)

Under the guidance of Mr.CH. ADI BABU Asst. Prof



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada,

Accredited by NBA, NAAC with 'A' Grade)

Kotappakonda Road, Yallamanda (Post),

NARASARAOPET522 601, Guntur Dist., Andhra pradesh.

July,2021

IQAC

Principal
NARASARAOPETA ENGINERAING COLL FGE
(AUTONOMOUS)
NARASARAOPET - 5'
Guntur (Dist.), A.F.

MICROSTRIP U-SLOT PATCH ANTENNA FOR WIRELESS APPLICATIONS

A PROJECT REPORT

Submitted in partial fulfilment of requirements for the

Award of the degree

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. K. JEEVAN JITHENDRA	(17471A0427)
Mr. K. KRISHNA AKHIL	(17471A0422)
Mr. B. YASWANTH AMARESH	(17471A0430)
Mr. P. VENU	(17471A0421)
Mr. D. PRUDHVI SAI	(17471A0423)

Under the guidance of Dr. V. Venkata Rao Prof. & HOD



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada,

Accredited by NAAC with 'A' Grade & thrice by NBA)

Kotappakonda Road, Yallamanda (Post),

NARASARAOPET-522601, Guntur Dist., Andhra Pradesh.

JULY, 2021

IQAC

Principal
NARASARAOPETA ENGINEERING (2014)
(AUTONOMOUS)
NARASARAOPET - 'Guntur (Disk.), 2-11.

SOLAR TRACKING SYSTEM USING IOT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. SK. AFRID	(17471A04A5)
Mr. A. ASHOK KUMAR	(17471A04B0)
Mr. R. SASIDHAR	(17471A0484)
Mr. J. KIRAN BABU	(17471A0498)
Mr. K. SUMANTH	(17471A04A1)

Under the guidance of Dr. V. Venkata Rao Prof. & HOD



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE (Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade & thrice by NBA) Kotappakonda Road, Yallamanda (Post), NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.

July, 2021

IQAC

NARASARAUPETA ENGINEERING CO: "":

(AUTONOMOUS)

NARASARAOPET - 522 L...

Guntur (Dist.), A.P.

COMPARITIVE ANLYSIS OF FULL SUBTRACTOR USING GDI AND CMOS LOGIC TECHNIQUES

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. G.V.S.DILEEP KUMAR REDDY (17471A0475)

Ms. Sk. RUKSANA (17471A0491)

Mr. B. JOHN VICTOR (17471A0474)

Ms. P. VENKATESWARI (17471A0480)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade & thrice by NBA)

Kotappakonda Road, Yallamanda (Post),

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July, 2021

IQAC

Principal
NARASARAOPETA ENGINEERING COMMAN
(AUTONOMOUS)
NARASARAOPET - 520
Guntur (Dist.), A.:..

ENHANCEMENT OF MR BRAIN IMAGES USING FUZZY INTERPOLATION

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. V.N.V.S.L. MALLIKA BRAMARAMBIKA	(17471A04A2)
Mr. B. RAJENDRA	(17471A04B5)
Mr. M. MANOJ KUMAR	$(17471. \Lambda 0477)$
Ms. A. DURGA	(17471A0464)
Mr. B. MANI DEEPAK	(17471A0473)

Under the guidance of Dr. B. Raghavaiah Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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JULY, 2021

IQAC

Principal

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 GJ i.

Guntur (Dist.), A.P.

COVID PATIENT HEALTH MONITORING SYSTEM USING IOT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. R. KAVYA SRI	(17471A0499)
Ms. J. CHANDRIKA	(17471A04B4)
Mr. G. NAVEEN	(17471A04B7)
Mr. SK. T. CHINNA BAJI	(17471A04A8)
Mr. R. KASII VASII DEVA VEKATA REDDY	(17471A04B2)

Under the guidance of Dr. A.V. Nageswara Rao



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July,2021

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Principal
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 G. .
Guntur (Dist.), A.S.

IOT BASED PREPAID ENERGY METER

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. K. HEMANTH SAI	(17471A0485)
Ms. P. PREETHI KOUMIKA	(17471A0495)
Mr. K. GOPINADH	$(17471 \land 0470)$
Mr. B. SRI HARSHA	(17471A0490)
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July, 2021

IQAC

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NARASARAOPETA ENGINEERING CALL FRE
(AUTONOMOUS)
NARASARAOPET - 522
Guntur (Dist.), A.P.

LANDMINE DETECTION AND SURVEILLANCE ROBOT USING IOT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. J. YASASWINI JAYA BHARATHI SAHITHI	(17471A0468)
Ms. J. SAILAKSHMI SRAVANI	(17471A0469)
Ms. J. KEERTHI	(17471A04A4)
Mr. K. NAGA SAI RITHVIK	(17471A0465)
Mr. SD. MOHAMMAD GOUSE	(17471A0478)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE, (AUTONOMOUS) (Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade&thrice by NBA) Kotappakonda Road, Yallamanda (Post), NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.

July, 2021

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Principal
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 GU.
Guntur (Dist.), A.P.

DENSITY BASED TRAFFIC CONTROL SYSTEM USING IOT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. P. DILEEP KUMAR	(17471A0482)
Mr. G. JYOTHI PRAKASH	(17471A0476)
Mr. D. HEMA RAMACHANDRA VASU	(17471A04A7)
Mr. G. SRAVAN KRISHNA	(17471A04B3)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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Kotappakonda Road, Vallamanda (Post),
NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.

July, 2021

IQAC

UNMANNED PETROL PUMP SYSTEM USING RFID TECHNOLOGY

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. B. JOSEPH BALA YASWANTH BABU	(17471A04C0)
Mr. GOUSE MOMITH BAIG	(17471A04B9)
Mr. K. SIVA HEMANTH	(17471A04A9)
Mr. K. KRISHNA MOHAN	(17471A0483)
Mr. M. VISHNU BABU	(17471A0462)

Under the guidance of Dr. Shaik. Bajid Vali, M.Tech, Ph.D. Associate Professor



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JULY, 2021

IQAC

Principal
NARASARAOPETA ENGINEERING (COLLECT
(AUTONOMOUS)
NARASARAOPET Guntur (Dioc.)

LOW POWER DESIGN OF 4-BIT SIMULTANEOUS COUNTER USING DIGITAL SWITCHING CIRCUITS FOR LOW RANGE COUNT APPLICATIONS

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. KOPPURAVURI AKHILA (17471A0487)
Ms. NAIDU RACHANA (17471A0488)
Ms. DANDE NAGALAKSHMI (17471A0467)
Mr. RAMISETTY SAITEJA (17471A0472)
Mr. SHAIK JANIBASHA (17471A0496)

Under the guidance of

Mrs. T. Indira

Assistant professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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Kottappakonda Road, Yallamanda (Post),

Narasaraopet - 522601, Guntur (Dist.), Andhra Pradesh.

July, 2021

-IQAC

MACHINE LEARNING TECHNOLOGY USED FOR TOXIC LIQUID DETECTION

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. M. MANOJ KUMAR	(17471A04A0)
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Mr. K. SATYANARAYANA	(17471A0492)
Mr. Y. SAI PAVAN	(17471A04A6)
Mr. P. RAMESH	(17471A0461)

Under the guidance of Dr. K. Raju, M.E. Ph.D.. Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

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July, 2021

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Principal
NARASARAOPEVA ENGINEERING COL:
(AUTONOMOUS)
NARASARAOPET - 522 u. ...
Guntur (Dist.), A.P.

COMPARISION BETWEEN RECTANGULAR MICROSTRIP PATCH ANTENNA WITH AND WITHOUT DEFECTED GROUND STRUCTURE AT 1.85GHz A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. G. SRINIVASARAO Mr. R. RAMCHARAN Mr. V.H. VEERA REDDY Mr. T. PAVANKALYAN Mr. K. MUKUNDA SAI

(17471A0479) (17471A0463) (17471A0481) (17471A0489) (17471A04B8)

Under the guidance of Dr. Amit Gupta M.E, Ph.D, Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

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NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.

July, 2021

IQAC

Principal

NARASARAOPETA ENGINEERINGO 11157E

(AUTONOMOUS)

NARASARAOPET - 5.7

Guntur (Dist.), A.F.

FLOATING WATER WASTE COLLECTING ROBOT

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

N.VENKATA SIVASAI	18475A0406
G.KRANTHI	17471A04F3
R.SHYAM PREMKUMAR	18475A0402
M.VENKATA SANDEEP	18475A0408
CH.BRAHMA VENKATESWARLU	18475A0409
K.NAGA ANIL	17471A04F8

Under the esteemed guidance of

Dr. A.V. NAGESWARA RAO M.Tech, Ph.D

Associate Professor, Dept. of ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

(Approved by AICTE, New Delhi, Accredited thrice by NBA, Accredited by NAAC with 'A' Grade,

Affiliated to J.N.T.U.K, Kakinada and ISO 9001:2008 Certified Institution)

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JULY-2021

Principal
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 607.
Guntur (Dist.), A.P.



GAS LEAKAGE DETECTION ROBOT USING EMAIL ALERT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN FLECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. A. SARATH SAI	(17471A04C3)
Ms. P. MALI IKHARJUNARAO	(17471A04G2)
Mr. KAYENKATA SUBRAMANYAM	(17471A04D0)
Mr. P. SRINIVASULU	(17471A04D2)
Mr. D. PRASHANTH	(17471A04D5)
Mr V. SIVARAMAKRISHNA	(17471A04C1)

Under the guidance of Mrs.K.Siva Kumari, M.Tech Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

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NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.

July, 2021

NARASARAOPETA ENGIN**EERING CO** (AUTONOMOUS) NARASARAOPET - 522 Guntur (Dist.), A.P.

STUDY OF PERFORMANCE COMPARISON OF STATIC AND DYNAMIC APPROXIMATE REVERSE CARRY PROPAGATE FULL ADDER USING CMOS TECHNOLOGY

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. K. GANGA BHAVANI	(17471 \041.8)
Mr. G. JAGADEESH CHANDRA BOSE	(17471A(I4G5)
Ms. G. ROHITHA REDDY	(17471A04L9)
Ms, M. SRI BHARATHI	(17471A04E5)
Mr. P. RAMA KRISHNA	(17471A04H1)

Under the guidance of Mr. A. Raveendra Babu Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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July 2021

IQAC

Principal

NARASARAOPETA ENGINEERING COLLIGE

(AUTONOMOUS)

NARASARAOPET - 522 L.

Guntur (Dist.), A.P.

HIGH SPEED FULLY HOMOMORPHIC ENCRYPTION AND DECRYPTION FOR LARGE INTEGER MULTIPLIERS

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

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Ms. L. VENKATA SAI VYSHNAVI	(17471A04F0)
Mr. P. SRI PRASANNA	(17471A04C6)
Mr. R. SRINU	(17471A04F1)
Mr. G. NAVEEN CHOWDARY	(17471A04G6)

Under the guidance of Dr. B. Raghavaiah, Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE (Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade & thrice by NBA) Kotappakonda Road, Yallamanda (Post),

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July, 2021

IQAC

Principal

NARASARAOPETA ENGINEERING COURSE

(AUTONOMOUS)

NARASARAOPET - 522 - ...

Guntur (Dist.), A.P.

SMART SENSOR NETWORK BASED ATM MANAGEMENT SYSTEM USING IOT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. DEVARAPALLI NAGA POOJA SAI SRI	(17471A04F5)
Ms. PINNIKA SRIVANI	(17471A04C8)
Mr. MADDI KOTI KIRAN KUMAR	(17471A04C9)
Ms. SURISETTI ARCHANA	(18475A0403)
Mr. NALAGANGULA KOTI REDDY	(17471A04H2)

Under the guidance of

Dr.R. SAMBASIVA NAYAK

Associate Professor, Department of ECE.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.
July, 2021

IQAC

Principal

NARASARAOPETA ENGINEERING CON FEE

(AUTONOMOUS)

NARASARAOPET - 522 L...

Guntur (Dist.), A.P.

VARIOUS TOXIC GASES DETECTION USING THEIR RESPONSE AND RECOVERY TIMES AT DIFFERENT TEMPERATURES BY MACHINE LEARNING TECHNIQUE AND METAL OXIDE GAS SENSOR

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY

11

ELECTRONICS AND COMMUNICATION ENGINEERING

BY

Ms. B.TEJASWINI (1"4"1A04E6)

Ms. R.SRILAKSHMI TIRUMALESWARI (1"4"1A04H4)

Ms. P.DIVYA (174"1A04F3)

Ms. D.GOWTHAMY (17471A04H0)

Ms. Y.JAHNAVI (1"4"1A04G8)

Under the guidance of

Dr. K. Anjaneyulu vi Tech. Ph. D.MISTT

Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE (Autonomous)

(Approved by AICTE, Permanently Affiliated to JNTLK, Kakinada,

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July, 2021

Principal

MARASARAOPETA ENGINEERING CONTEGE

(AUTONOMOUS)

NARASARAOPET - 522 C. Guntur (Dist.), A.P.



IOT BASED DAM WATER AND GATE CONTROLLING SYSTEM

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. SK.SHAMEEM (17471A04D6)

Ms. V.MAMATHA (17471A04E4)

Ms. B.DURGA BHAVANI (17471A04F9)

Mr. K.PRATAP (17471A04D9)

Mr. G.SANKAR (17471A04H3)

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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Kotappakonda Road, Yallamanda (Post),
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July, 2021

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Principal
NARASARAUPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 65 ...
Guntur (Dist.), A.P.

IOT BASED ANTI THEFT DETECTION AND ALERTING SYSTEM USING SMTP

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. V. TULASIRAM	(17471A04D4)
Mr. M. GOPI KRISHNA	(17471A04F6)
Ms. P. DIVYA	(17471A04H5)
Ms. G. DEEPTHI	(17471A04E0)
Mr. K. SUNEEL	(17471A04D3)

Under the guidance of Mrs. B. SUNEETHA, M. Tech (Ph. D), Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE (Autonomous)

(Approved by AICTE, New Delhi, Accredited thrice by NBA, Accredited by NAAC with 'A' Grade, Affiliated to J.N.T.U.K, Kakinada and ISO 9001:2008 Certified Institution)

Kotappakonda Road, Yallamanda,

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July, 2021

Principal
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 523

Guntur (Dist.), A.P.

10T BASED BABY MONITORING SYSTEM FOR SMART CRADLE

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. SADINENI SOWJANYA	(17471A04F2)
Mr. PALADUGU GANESH	(18475A0404)
Mr. KUNCHALA GOPIKRISHNA	(17471A04H7)
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Mr. BOBBA PRASANTH	(17471A04G4)

Under the guidance of Mr. V. NAVEEN RAJA Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

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July, 2021

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NARASARAOPET - 522 65 ...
Guntur (Dist.), A.P.

IOT BASED SMART DISINFECTANT ROBOT USING RASPBERRY PI 3

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. SK. SAMEER	(17471A04H6)
Ms. M. NAGA SUSHMA	(17471A04G9)
Ms. K. DEVI CHAMUNDESWARI	(17471A04G3)
Mr. SK. JAVEED	(17471A04E7)
Mr. G. VENKATARAO	(17471A04C5)

Under the guidance of

Mrs. SK. AREEFA BEGAM M.Tech

Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATIONENGINEERING

NARASARAOPETA ENGINEERING COLLEGE (Autonomous)

(Approved by AICTE, New Delhi, Accredited thrice by NBA, Accredited by NAAC with 'A' Grade, Affiliated to J.N.T.U.K, Kakinada)

Kotappakonda Road, Yallamanda, Narasaraopet - 522601, Guntur (Dist.), Andhra Pradesh.

July, 2021

IQAC

Principal
NARASARAOPETA ENGINEERING COLFCE
(AUTONOMOUS)
NARASARAOPET - 522 G...
Guntur (Dist.), A.P.

10T BASED TRASH MANAGEMENT SYSTEM IN SMART CITIES

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. PARITALA HARITHA	(18475A0407)
Mr. BANDI CHINNAPAREDDY	(17471A04C7)
Ms. REPALLE PRATHUSHA	(17471A04F7)
Ms. VUYYURU SRILAKSHMI	(18475A0405)
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Under the guidance of Ms. SK. ASIFA Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

(Autonomous)

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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 GJ..
Guntur (Dist.), A.P.

SIMULATION OF PARASITIC RECTANGULAR PATCH ANTENNA RECESSED GROUND FOR WIDEBAND COMMUNICATION

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. G. PRATHYUSHA	(17471A04C2)
Ms. K. MANJU BHARGAVI	(17471A04G1)
Mr. SHAIK. NANNU SHAIDA	(17471A04E2)
Ms. D. SRAVANI	(17471A04G0)
Mr. G. KRISHNA REDDY	(17471A04H9)

Under the guidance of Dr. K. Anjaneyulu, M.Tech, Ph.D, MISTE Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING NARASARAOPETA ENGINEERING COLLEGE

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Kotappakonda Road, Yallamanda (Post),
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July, 2021

IQAC

NARASARAOPETA ENGINEERING (AUTONOMOUS)

NARASARAOPET - 52:

Guntur (Dist.), A.P.

ACCIDENT PREVENTION SYSTEM USING INTERNET OF THINGS

A PROJECT REPORT

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

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

BY

Mr. SHAIK. ARSHAD	(17471A04D1)
Mr. PUSALA. MADHU KUMAR	(17471A04H8)
Mr. GARIKAPATI. PAVAN KALYAN	(17471A04C4)
Mr. MEDA. RAVI TEJA	(17471A04I0)
Mr. POTHURI. MANIKANTA	(17471A04E1)
Mr. GANGASANI. ASHOK REDDY	(17471A04D8)

Under the guidance of Mr. N. SRINIVASA RAO Assistant Professor



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July, 2021.



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 522 L... Guntur (Dist.), A.P.

IOT BASED WARD SANITATION WITH ROOM MONITORING ROBOT

A PROJECT REPORT

Submitted in partial fulfilment of requirements for the

Award of the degree

BATCHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMUUNICATION ENGINEERING

By

Ms.N.UMAMAHESWARI

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Ms.V.YASASWI

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(17471A04J2)

Mr.S.KOTESWARAO

(17471A04L8)

Ms.G.VENKATESWARI

(16471A0424)

Under the guidance of

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Principal

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 L. . .

Guntur (Dist.), A.P.

IOT BASED FACIAL RECOGNITION SYSTEM FOR HOME SECURITY USING LPBH ALGORITHM

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr.A.GOPIKRISHNA	(18475A0414)
Mr.S.DILEEP SAGAR	(18475A0411)
Mr.V.KRISHNANJANEYULU	(18475A0423)
Mr.T.PRAMOD	(18475A0415)
Mr.T.SIVANAGARAJU	(16471A04D2)

Under the guidance of Dr. R.SAMBA SIVA NAYAK

Associate Professor

Department of E.C.E, Narasaraopeta Engineering College, Narasaraopet.



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July, 2021



Principal

NARASARAOPETA ENGINEERING CHIFFE

(AUTONOMOUS)

NARASARAOPET - 522 . . .

Guntur (Dist.), A.P.

IOT BASED SMART SENSOR NETWORK FOR AQUA CULTURE

A PROJECT REPORT

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

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

By

Mr. SK.K. MQULALI	(17471A04J8)
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Mr. D.NELSON RAJU	(17471A04J5)
Mr. U.PAVAN KALAYAN	(17471A04K7)
Mr. S.RAMA KRISHNA RAJU	(18475A0417)

Under the guidance of

Mr.J.NARASIMHA RAO Associate Professor



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July 2021

NARASARAOPETA ENGINEERING POTT FRE (AUTONOMOUS)

NARASARAOPET - 5. Guntur (Dist.), A.P.

ANTI THEFT DETECTION AND ALERTING SYSTEM USING IOT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

	Ву	
Mr. M. ANIL KUMAR REDDY	(17471	104N1)
Mr. T. PRABHU KUMAR	(17471	
Mr. T. AVINASH BABU	(17471)	10415)
Mr. T. BHARATH	(18475)	10410)
Mr. SK.MD.SHARIF	(17471)	
Mr. P. NARESH	(17471)	

Under the guidance of Mrs. B. SUNEETHA, M. Tech (Ph. D)



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(Autonomous)

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Principal
NARASARAOPETA ENGINEERING CO: "FOE
(AUTONOMOUS)
NARASARAOPET - 522 ...
Guntur (Dist.), A.P.

IoT BASED BLIND PERSON'S STICK

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

BY

Mr. CHILAKA VAMSI KRISHNA	(17471A04K1)
Mr. TELLAGORLA MANIKANTA GOPALA KRISHNA	(17471A0416)
Mr. JUPUDI RAJU	(17471A04L0)
Mr. JAMPANI KRISHNA VAMSI	(17471A041.5)
Mr. CHERUKURI RAVIKUMAR	(17471A0411)

Under the guidance of Mr. V. NAVEEN RAJA, M. Tech Assistant Professor



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE

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July, 2021

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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 52'
Guntur (Dist.), A.P.

IOT BASED SMART BAND SECURITY SYSTEM

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. Y. SUPRAJA	(17471A04J1)
Mr. M. UDAY BHASKAR	(17471A04J0)
Mr. K. RAKESH	(17471A0417)
Mr. K. PAWAN KALYAN	(17471A04I2)
Mr. SK. SAJID HASAN	(17471A04K6)

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July, 2021



Principal
NARASARAUPEYA ENGINEERING COUTS (AUTONOMOUS)
NARASARAOPET - 522 .
Guntur (Dist.), A.P.

FINGERPRINT BASED CAR IGNITION SYSTEM USING ARDUINO A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. SK. AFRIN	(17471A04J6)
Ms. N. KUSUMA	(17471A04K9)
Mr. P. VINAY KUMAR	(17471A04K5)
Mr. G. VENKATESH	(18475A0422)
Mr. S. LEELA PAVAN KUMAR	(18475A0416)

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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

NARASARAOPET - 522

Guntur (Dist.), A.P.

AREA OPTIMIZATION OF CMOS FULL ADDER DESIGN USING 3T XOR

A PROJECT REPORT

Submitted in partial fulfilment of requirements for the Award of the Degree

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. P. SHARONU	(17471A04K0)
Ms. K. PRIYANKA	(17471A0418)
Ms. A. SUMA PRIYA	(17471A04K4)
Mr. Y. MADHU BABU	(18475A0420)
Mr. J. MAHENDRA	(18475A0413)

Under the guidance of

Mr. A. RAVEENDRA BABU

Assistant Professor



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July, 2021



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NARASARAOPETA ENGINEERING COLT FOE
(AUTONOMOUS)
NARASARAOPET - 522 60 1.
Guntur (Dist.), A.P.

IMPLEMENTATION OF DATA TRANSFER USING LI-FI TECHNOLOGY

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Mr. M. Irfan	(17471A04LI)
Mr. K. Sudhakar	(17471A04N2)
Mr. G. Ashok	(17471A04K8)
Mr. B. Naga Uma Mahesh	(17471A04M4)
Mr. P. Siva	(16475A0415)

Under the guidance of Mr. N. Rajeev Reddy (Assistant Professor)



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NARASARAOPET-522 601, Guntur Dist., Andhra Pradesh.
JULY, 2021

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Principal
NARASARAUPETA ENGINEERING CANT 29
(AUTONOMOUS)
NARASARAOPET - 52.
Guntur (Dist.), A.P.

SIMULATION CU-DOPED SNO2 THICK FILM GAS SENSOR FOR METHONAL USING ANN TECHNIQUE

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. M. DIVYA	(17471A04L6)
Ms. V. PREETHI MANISHA	(17471A04L4)
Mr. V. MANISH PREETHAM	(17471A04L2)
Mr. G. RAJ KAMAL	(17471A04K2)
Mr. M. SUBRAHMANYAM	(18475A0421)

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July 2021

Principal

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 G. .

Guntur (Dist.), A.P.

GDI LOGIC BASED DESIGN OF HAMMING-CODE ENCODER AND DECODER FOR ERROR FREE DATA COMMUNICATION

A PROJECT REPORT

Submitted in partial fulfilment of requirements for the Award of the Degree

BACHELOR OFTECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

MS.N. TEJASWI	(17471A04J3)
MR.P. DURGA PRASAD	(17471A04M5)
MR.K. JASHUVA	(18475A0419)
MR.A. SYAM PRASAD	(18475A0418)
MR.SK. IMRAN	(17471A04M8)

Under the guidance of Mr. M. SRINIVASA RAO Assistant Professor



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July, 2021

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NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 Gu...
Guntur (Dist.), A.P.

ADVANCED COAL MINE GAS DETECTION ROBOT

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

Ms. B.VIJAYA LAKSIIMI	(17471A04M0)
Mr. SK.MASTAN VALI	(17471A04I4)
Mr. K.GURUKIRAN	(17471A04M2)
Mr. D.SARATH CHANDRA	(18475A0412)
Mr. S. NAVEEN KUMAR	(16471A04G1)

Under the guidance of Dr.K. Anjaneyulu, M.Tech,Ph.D,MISTE Professor



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July, 2021

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NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 6...
Guntur (Dist.), A.P.

DESIGN OF A SCALABLE LOW POWER 1-BIT HYBRID FULL ADDER FOR FAST COMPUTATION

A PROJECT REPORT

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

BACHELOR OF TECHNOLOGY IN ELECTRONICS AND COMMUNICATION ENGINEERING

By

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Mr. K. MARIYA BABU	(17471A04K3)
Mr. M. SAI KALYAN	(17471A04J7)
Mr. P. SRIKANTH	(17471A04M6)
Mr. D. ANIL KUMAR	(17471A04M3)

Under the guidance of Dr. K. RAJU, M.E, Ph.D. PROFESSOR



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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the mini project entitled " REDUCING COVID-19 READMISSIONS BY USING MACHINE LEARNING" is a bonafide work done by "A. L. Narendra Kumar(17471A0521), B. V. V. N. Sai Kumar(17471A0527)" in partial fulfillment of the requirements for 1the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Dr.K. LakshmiNadh M Teah Ph.D.

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Dr.S.N.TirumalaRao, M. Teeh.Ph.D

PROJECT CO-ORDINATOR

M.Sireesha, M. Tech. ph.D.

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS) NARASARAOPET - 522 60'

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ii

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the mini project entitled" CONVOLUTIONAL LSTM MODEL FOR SENTIMENT ANALYSIS IN SOCIAL BIG DATA" is a bonafide work done by "P. Raghuveer(17471A0537), V. Ananth Reddy(17471A0534), R.O.S.N.V.SaiKiran(1747 1A0511), T. Vignesh(17471A0529)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Dr.B. Jhansi Vazram, M Tech Ph D

PROJECT CO-ORDINATOR

M. Sireesha, M. Tech (Pti D)

HEAD OF THE DEPARTMENT Dr.S.N. TirumalaRao, M. Tech. Ph. 10

PROFESSOR & HEAD

Cool of Computer Science & Engineering Language AND EAU PETA ENGINEERING COLLEGE

MITONOMOUS)

SANAOPEJ - 522 881 Guntur (Dt.), A.P.

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

NARASARAOPET - 522 601 Guntur (Dist.), A.P.

П

NARASARAOPETA ENGINEERING COLLEGE NARASARAOPETA(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE



This is to certify that the mini project entitled "HOUSE PRICE PREDICTION" is a bonafide work done by "B.SowmyaReddy(17471A0513).

MAY manufPriya(17471A0550). P.Aidtya Lakshmi Manasa(17471A0517)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the department of COMPUTER SCIENCE AND ENGINEERING and 2021.

PROJECTGUIDE

B.V Suresh Reddy, M.Tech

PROJECTCO-ORDINATOR

M.Sireesha, M.Tech

HEAD OF THE DEPARTMENT

Dr.S.N.TirumalaRao, M. Tech., Ph.D.

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EXTERNALEXAMINER

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NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "WOMEN STYLES" is a bonafide work done by "A.L.V.N.S.A.Pravallika(17471A0515),

M.Deepthi(17471A0523), K.Aswini(17471A0535), " in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-

2021. Kung Loof J PROJECT GUIDE

K.V.Narasimha Reddy, M.Tech

Assistant professor

C. ... 774-

HEAD OF THE DEPARTMENT

Dr. S. N. Tirumala Rao, M.Tech., Ph.D.

PROJECT CO-ORDINAL

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EXPERNAL EXAMINER

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Guntur (Dist.), A.P.

NARASARAOPETA ENGINEERING COLLEGE NARASARAOPETA (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "PRIVATE CLOUD FOR DATA STORING AND MAINTAIN INTEGRTY USING RASPBERRY PI" is a bonafide work done by "T. V. J. Supriya (17471A0531), P. Tejaswini (17471A0528)" in partial fulfillment of the requirements for 1the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2019-2020.

PROJECT GUIDE

D- M. Venkata Reddy, M. Tech. Ph.D

HEAD OF THE DEPARTMENT

D- S. N. TirumalaRao, M. Tech, Ph.D.

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PROJECT CO-ORDINATOR

Mr. K.V. NarasimhaReddy, M. Tech

EXTERNAL EXAMINER

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "PLANT DISEASE DETECTION" is a work done by "K.S.L Pavan Kumar (17471A0575), S. Mahesh (17471A05A6), G. Venkateswara Reddy (17471A05A1)" in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during 2020-2021.

Sy Vayafrade PROJECT GUIDE

Dr. G.L.N. Jayaprada M.Tech., Ph.D., Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao M.Tech., Ph.D.,

PROJECT COORDINATOR

Mrs. M. Sireesha M. Tech. (Ph.D.) Assoc.Professor

EXTERNAL EXAMINER

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601

Guntur (Dist.), A.P.

11

***ASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (Autonomous)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE



a bonafide work done by "M.N.S.L.P.Amulya(17471A0582), "CP Himaja(17471A05A2), G.Varshini (1747A0594)" in partial fulfillment of the mements for the award of the degree of BACHELOR OF TECHNOLOGY in Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021

PROJECT GUIDE

O. Aruna, B. Tech, M. Tech(PhD)

Assistant Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M. Tech., Ph. D.

PROJECT CO-ORDINTOR

Mrs.Sireesha.M. M. tech.,

Assoc. Professor

EXTERNAL EXAMINER

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PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET - 522 CC

Guntur (Dist.)

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPETA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

Thisisto certify that the mini project entitled "FAKE NEWS DETECTION SYSTEM" is a bonafide work done by

see San I all I had to be fine a see of the in partial fulfillment of the

requirements for the award of thedegree of BACHELOR OF TECHNOLOGY in the department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Mrs.O.Aruna, M.Tech.

Assistant Professor

PROJECT CO-ORDINATOR

Mrs. M. Sireesha, M.Tech., (Ph.D.)

Assoc. Professor

HEAD OF THE DEPARTMENT

Dr.S.N.TirumalaRao, M.Tech., Ph.D

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "ONLINE CLOTH SHOPPING" is a bonafide work done by "A. Sai Praveen (17471A05C6), D. Sai Teja (17471A05D1), P. Vijay Krishna (17471A05H8)" in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

ROJE T GUIDE

Mr. K.V.Srinivas ,M. Tech

PROJECTCO-ORDICATOR

Mr. K.V. Narasimha Reddy, M. Tech

HEAD OF THE DEPARTMENT

S. N. Tirumala Rao, M. Tech, Ph.D.

EXTERNAL EXAMINER

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IOAC



CERTIFICATE

This is to certify that the project entitled "HEART FAILURE PREDICTION" is a bonafide work done by "T.Hemalatha(17471A05D5), G.Mounika(17471A05H1), K.Prasanthi(17471A05E0), G.Hemavani(17471A05I0)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Dr. S.V.N.Sreenivasu, M.Tech., Ph.D.

Professor

PROJECT CO-ORDINATOR

Mrs. M. Sireesha, M. Tech., (Ph.D.)

Assoc. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. Tirumala Rao, M.Tech., Ph.D.

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CERTIFICATE

This is to certify that the project entitled "ONLINE STUDENT RESULT ANALYSIS" is a bonafide work done by "P.KARTHEEK (17471A05D7), S.SAI LAKSHMAN (17471A05F7), K.DURGA PRASAD(17471A05C7)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Mr. B.Sivakana araju, M. Tech.

Associate Professor

PROJECT CO-ORDINATOR

Mr. K.V. NarasimhaReddy, M. Tech

Assistant Professor

HEAD OF THE DEPARTMENT

Dr. S. N. Tirumala Rao, M. Tech., Ph.D.

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Guntur (Dist.). A.P.



CERTIFICATE

This is to certify that the project entitled "MELANOMA PREDICTION" is a bonafide work done by "N. Aishwarya(17471A05C9), D. Jaya Tejaswini(17471A05F6), J.Prasanthi(17471A05D8), T. Siri Chandana (17471A05D9)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Ch. Anil, M.Tech

AssitantProfessor

PROJECT CO-ORDINATOR

N.Siml

Mrs. M. Sireesha, M.Tech., (Ph.D.)

Asso. Professor

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Guntur (Dist.), A.P.



CERTIFICATE

This is to certify that the project entitled "SENSEIL SOIL ANALYZING APPLICATION" is a bonafide work done by "M.RAASI (17471A05E1), G.SANTHI SRI (17471A05G4), M.SRAVYA (17471A05E8)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Sk.Khaja Mohiddin Basha, M.Tech.,

Assistant. Professor

PROJECT CO-ORDINATOR

Mrs. M. Sireesha, M.Tech.,(Ph.D.)

Assoc. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. Tirumala Rao, M. Tech., Ph.D.

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CERTIFICATE

This is to certify that the project entitled "PNEUMONIA DETECTION USING CHEST X-RAY" is a bonafide work done by "N.V.S. KOWLINI (17471A05E2), K.V.L.N. KRISHNA VENI (17471A05E7), R. LAKSHMI PRASANNA (17471A05E3)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Dr. K. Lakshminadh, M.Tech., Ph.D.

Professor

PROJECT CO-ORDINATOR

Mrs. M. Sireesha, M. Tech. (Ph.D.)

Assoc. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. Tirumala Rao, M. Tech., Ph.D.

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NARASARAOPET - 522 601 Guntur (Dist.), A.P.



CERTIFICATE

This is to certify that the project entitled "HOSPITAL MANAGEMENT SYSTEM" is a bonafide work done by "B. Ayyappa Reddy (17471A05E4), S. Brahma Teja (17471A05F2), R. Praveen Reddy (17471A05G7) " in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

B.V. Suresh Reddy, M. Tech.

Assistant Professor

PROJECTCO-ORDINATA

Mr. K.V. NarasimhaReddy, M.Tech

Assistant Professor

HEAD OFTHEDEPARTMENT

Dr. S. N. Tirumala Rao, M. Tech., Ph.D.

EXTERNALEXAMINER

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PRINCIPAL

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Guntur (Dist.), A.P.

LUNG CANCER PREDICTION

A Project Report submitted in the partial fulfilment of the

requirements for the award of the degree

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

Submitted by

G.Naga Mallika

(17471A05F1)

M.Navyasri

(17471A05G1)

B.Sukanya

(17471A05G2)

Under the esteemed guidance of

CH.ANIL, M.Tech.,

Assistant Professor



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET

(Affiliated to JNTUK, Kakinada, Approved by AICTE & Accredited by NBA)

2020-2021



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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "IPL SCORE PREDICTION" is a bonafide work done by "D.RAJYA LAKSHMI (17471A05F4), N.LIKITHA (17471A05F5), M.ANMISHA (17471A05F3)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Mrs.Y.BhagyaLakshmi, M.Tech..

Assistant. Professor

PROJECT CO-ORDINATOR

Mrs. M. Sireesha, M.Tech.,(Ph.D.)

Assoc. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. Tirumala Rao, M.Tech., Ph.D.

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the mini project entitled "EXAM CELL MANAGEMENT SYSTEM" is a bonafide work done by "K.Uday(17471A05H5), K.Pavankumar (17471A05F8), B.Venkatesh(17471A05H9), B.Samara(17471A05G0) in partial fulfillment of the requirements for 1the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

C - 1 7011

K.V.NarasimhaReddy, M.Tech.

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M. Tech., Ph.D

PROJECT CO-ORDINATOR

K.V.NarasimhaReddy, M.Tech.

EXTERNAL EXAMINER

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the a project entitled "SPAM DETECTION AND FAKE USER IDENTIFICATION ON SOCIAL NETWORS" is a bonafide work done by M.HARISH(17471A05K7),K.JITHENDRA(17471A05L7),G.PAVAN TRINESH(17471A05L7) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

K.V.Srinivas, M.Tech

Assistant Professor

PROJECT CO-ORDINATOR

Mr.K.V. Narasimha Reddy, M. Tech

Assistant Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M. Tech., Ph.D

PROFESSOR & HEAD

Dent. of Computer Sularyce & Englaced a

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EXTERNAL EXAMINER

PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the mini project entitled "KIDNEY DISEASE ANALYSIS" is a bonafide work done by "CH.poornachandraRaju(17471A05I1),SkPodile.MohammadHilal (17471A05K3),Sk.Basha(17471A05M0)"partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020–2021.

PROJECT GUIDE

Mrs.Sd.Rizwana, M.Tech(Ph.D.) ASST. Professor Mrs. M. Sereesha, M. Tech., (Ph.D) ASSO Professor

3-12100

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, MTech., Ph.D.

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EXTERNAL EXAMINER

PRINCIPAL NARASARADPETA ENGINEERING (AUTONOMOUS)

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the a project entitled "PERFORMANCE ANALYSIS OF VEHICLE DETECTION ALGORITHM FOR INTELLIGENT TRAFFIC SYSTEM" is a bonafide work done by M.GOPI (17471A05L3), G.KRISHNA SAI(17471A05N1), SAMUEL (16471A05N6) in partial fulfillment of the requirements for 1the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

B. Siva Kanaka Raju ,M.Tech

Assistant Professor

PROJECT CO-ORDINATOR

Mr.K.V. Narasimha Reddy, M. Tech

Assistant Professor

HEAD OF THE DEPARTMENT

Carly Com

Dr. S. N. TirumalaRao, M. Tech., Ph.D. PROFESSOR & HEAD

Dept. of Computer Science & Engirer. NARAS RESPETA ENGINEERING COLLEGE

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PRINCIPAL

NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET - 522 601

Guntur (Dist.), A.P.

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASAOPETA DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "Stock Price Prediction Using Regression" is a bonafide work done by "G.Venkatrao (17471A05J0), D.Srinivasa Reddy (17471A05K1), V.Ashok Kumar(17471A05I9)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTERSCIENCE AND ENGINEERING during 2020 -2021

PROJECT GUIDE

Dr. B. Jhansi Vazram, M.Tech., Ph.D., Professor PROJECT CO-ORDINATOR

M.Sireesha, M.Tech. (Ph.D.)

Assoc. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. Tirumala Rao M. Tech, Ph.D.

PROPROFESSOR & HEAD

Dept of Computer Science & Engineering NARASAAAOPETA ENGINEERING UULLEGE

RACTET 522 60 , Guntur (Dt.), A.F.

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 601

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "FOREST FIRES DETECTION" is a bonafide work done by "N.S.Sesi Kiran (17471A0577). Sk.Mastanvali (17471A0562), P.Nivas (17471A0563)" in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Mr. P. Lakshmi Narayana Wech.

Assistant Professor

6.57162 HEAD OF THE DEPARTMENT

"THINGPARAGEMEND.Ph.D Must, of Computer Science & Engineering NARASANAOPESA ENGINESIMO CULLEGE

PONOSHIP ST period, ic . . .

Mrs. M. Sireesha M. Tech..(PhD).

Assoc.Professor

EXTERNAL EXAMINER

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601

NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the a project entitled "AGRICULTURE HELP LINE" is a bonafide work done by "K.Tirumala Rao (17471A0518), S.Sriniva Rao (17471A05M7), SK.Sharif (17471A05J1)" in partial fulfillment of the requirements for 1the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Mr.Y.Suresh, M.Tech

Assistant Professor

PROJECT CO-ORDINAT

Mr.K.V. Narasimha Reddy, M. Tech

Assistant Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M. Tech., Ph.D

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NARASARAOPETA ÉNGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 522 601 Guntur (Dist.), A.P. NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA
(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the mini project entitled "REVIEW SELECTION USING MICRO-REVIEWS" is a bonafide work done by G. Srikanth(17471A05L2), K. Sita ram kalyan(17471A05K4) in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during the academic year 2020-2021.

Project Guide

B. Siva Kanaka raju, M.Tech

Assit.Professor

PROJECT CO-ORDINATOR

K.V. Narasimha Reddy, M.Tech

Assit.professor

Head of the Department

Tima Aao M. Tech. Ph.D

External Examinedly

NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPETA

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "PREDICTION OF BRAIN STROKE DISEASES" is a bonafide work done by the team N. Abhinay Kumar (18471A05F8), D. Leela Sasi Krishna (18471A05D3), N. Yaswanth Reddy (18471A05F7) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

O. Aruna, M.Tech.(Ph.D)

Asst. Professor

M. Sireesha, м.тесh

CO ORDINATOR

Assoc. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M.Tech, Ph.D

Professor

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NARASARAOPET - 522 601

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name

"FAKE NEWS DETECTION" is a bonafide work done by the team G.Raghu

Prasad(18471A05D7), Sk.Imam Vali(18471A05G8), Sk.Yaseen(18471A05H4),

Ch.Santhi Tej(18471A05C7) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of

COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

BOJECT GUIDE

CH.Anil ,MTech

Asst. Professor

ROUCTONORDWATOR

Mrs.M.Sireesha, M.Tech.

Associate Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao,

M. Tech., Ph.D., Professor

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2

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "HIJACKING WEBSITES DETECTION" is a bonafide work done by the team SK.Baba saida(18471A05M4), Shaik. jakeer hussian(18471A05M5), ch. Guna sekhar(18471A05i8) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND E NGINEERING during 2020-2021.

PROJECT GUIDE

G.Lakshmi Narayana, M.Tech.,(Ph.D). Asst.Professor M. Sireesha, M.Tech. Assoc.Professor

RDINATOR

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M. Tech., Ph.D.,

Professor

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NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 60
Guntur (Dist.). 1032

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "HEART DISEASES PREDICTION SYSTEM" is a bonafide work done by the team K. Sampath Kumar (19475A0584), Ch. Sai Ganesh (18471A05J2), V. Raju (18471A05N5) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

Mr. Dilip Kumar. R, M.Tech., Asst. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M.Tech., Ph.D.,

Professor

PROJEC

Mr Sireestia .M. M. Tech.

Asst. Professor

11

NARASARAOPETA ENGINEERING COLLEGE NARASARAOPET - 522 601 Guntur (Dist.). A.P

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "OPEN DOOR ALERT" is a bonafide work done by the K Mithra (18471A05K4) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTERSCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Dr. K Lakshminadh M. Tech., Ph.D.,

Professor

PROJECTO-ORDINATOR

Mrs Sireesha .M, M.Tech.,

Assoc. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M.Tech., Ph.D.,

Professor

EXTERNAL EXAMPLER

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(AUTONOMOUS)

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Guntur (Dist.), A.P.

IQAC

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "MEDICAL INSURANCE PREMIUM PREDICTION" is a bonafide work done by the team E. Mahesh (18471A05J5), B. Rishith (18471A05I2), N. Prem Kumar (18471A05L4), Sk. Althaf (18471A05M3) in partial fulfilment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Mr M. Satyam Reddy, M.Tech., Asst. Professor PROJECT

Mrs M. Sireesha, M.Tech., (Ph.D)., Assoc. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M.Tech., Ph.D.,

Professor

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IQAC

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 52? 601 Guntur (Dist.). A

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "CREDIT CARD FRAUD DETECTION" is a bonafide work done by the team G.Pravallika (18471A0512), J.Yamini Sai Lakshmi(18471A0515), Ch.Harini(18471A0506), N.Mary Padma(18471A0536)in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Sk.Rafi, M.Tech.,(Ph.d-NIT Mizoram)., Asst. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M. Tech., Ph.d., Professor ROJE CO-ORDINATOR

M.Sireesha, M.Tech.,(Ph.d)
Assoc. Professor

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NARASARAOPET - 522 601
Guntur (Dist.), A.P.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



This is to certify that the project that is entitled with the name "Face Mask Detection" is a burnefide work done by the team Patan Irafan Khan(18471A0541), Pujala Charan Mandhata (1847A0543), Saikam Nagarjuna Reddy(18471A0549) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE 619121

Ms Thanuja. A, M.tech Assistant. Professor PROJECT CO-ORDINATOR

Ms Sireesha .M, M. Tech., Assoc. Professor

DES N. Tirumala Rao, M.Tech., Ph.D.,

Professor

EXTERNAL EXAMINER

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PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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NARASARAOPET - 522 6

Guntur (Dist.)

STUDENT SGPA PREDICTION

A Mini Project Report submitted in the partial fulfilment of the

requirements for the award of the degree

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING Submitted by

A.Siva Sai

(18471A0502)

A.Prakash Babu

(18471A0501)

Ch.Kalyan Chakravarthi

(18471A0508)

Under the Esteemed Guidance Of K.V.Narasimha Reddy M.Tech.

Asst.Professor



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPET (AUTONOMOUS)

(Affiliated to J.N.T.U, Kakinada, Approved by AICTE & Accredited by NBA)

2020-2021



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NARASARAOPETA ENGINEERING COLLEGE

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NARASARAOPET - 522 66:.

Guntur (Dist.), A.P.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "CREDIT CARD FRAUD DETECTION" is a bonafide work done by the team SHAIK MABU SUBHANI(18471A05H0), JAJA NAGASAI(18471A05E3), CHIGURUPATI SAIKUMAR(18471A05D0) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021

PROJECT GUIDE

Mr K.Arun, M.Tech.(P.hD)

Asst. Professor

HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M. Tech., Ph.D.,

Professor

PROJECT COORDINATOR

Ms Sireesha .M, M.Tech.,

Assoc. Professor

EXTERNAL EXAMINES

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PRINCIPAL
NARASARAOPETA ENGINEERING COLLEG
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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "LOAN PREDICTION" is a bonafide work done by the team G.L.L.Prasanna (18471A05E1), CH.Bhavya(18471A05C8), K.Sri Varshitha(18471A05E9) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2019-2020.

PROJECT GUIDE

U. Vijay Kumar, M.Tech.,(Ph.D)., Asst. Prof Mrs Sireesha .M,M.Tech., M.Tech., Assoc. Professor

-ORDINATOR

HEAD OF THE DEPARTMENT

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EXTERNAL ENAMINER

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CERTIFICATE

This is to certify that the project that is entitled with the name "BIKE SHARING DEMAND PREDICTION" is a bonafide work done by the team G.Venkata Gopi(18471A05D9), CH.Ravi Kishore (18471A05D2),R.Bala Gangadhar(18471A05C5), K. Srinivasa Reddy (18471A05E6) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Dr. SVN Srinivasu, M.Tech., Ph.D.,

Professor

HEAD OF THE DEPARTMENT

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PROJECT CO-ORDINATOR

Ms Sireesha .M, M.Tech.,

Assoc. Professor



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "HOUSE PRICE PREDICTION" is a bonafide work done by the team SK.M.SAHIL BASHA(18471A05H1), Y.ARUNKUMAR(18471A05I0), P.ESWAR(18471A05G 1), G.DEEPCHANDU(18471A05E2) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

Dr. S.N.Tirumala Rao M.Tech., Ph.D.,

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CERTIFICATE

This is to certify that the project that is entitled with the name "DIABETES DETECTION"is a bonafide work done by the team PUSALA.TMGOPINADH (18471A05G5),G.PRAMODAKUMARSHARMA(18471A05D6),M.NAGASANDEEP(18471 A05F5),S.VENKATESH(18471A05H5)in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021,

PROJECTGUIDE

SHAIK RAFI, M. Tech., Ph.D (NIT-IMZ)

ASST PROFESSOR

PROJECT

M.SIREESHA, M.Tech (Ph.D)

ASST PROFESSOR

HEAD OFTHEDEPARTMENT

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NARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 522 601

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the mini project that is entitled with the name "STOCK PRICE PREDICTION SYSTEM USING MACHINE LEARNING ALGORITHMS" is a bonafide work done by the team A, TarunReddy (18471A05C1), P.Manikanta (18471A05G0), K.SivaKoteswaraRao(18471A05E8), P.MadhavaRao(18471A05F9) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

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Guntur (Dist.). A.#

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CERTIFICATE

This is to certify that the project that is entitled with the name "GOLD PRICE" PREDICTION" is a bonafide work done by the team K. Sai Praneetha (18471A0K1), M.Amulya (18471A05L0), I. Jhansi (18471A05J6) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT

Mrs. Sireeshs.M, M.Tech., Assoc. Professor

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PROJECT CONTRIBUTOR

Mrs. Sireesha .M, M.Tech., Assoc. Professor

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "PHISHING WEBSITES DETECTION" is a bonafide work done by the team A.Bala Keerthimai (18471A05C4), K.Sruthi (18471A05E5), G.Sri Gowri Poojitha (18471A05D8), T.Vishnu Priya (18471A05H8) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

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B.Siva Kanaka Raju, M.Tech., Asst.Professor

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M. Sireesha , M. Tech.

Assoc.Professor

EXTERNAL

AMINER

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CERTIFICATE

This is to certify that the project that is entitled with the name "CAB FARE PREDICTION" is a bonafide work done by the team K.Srivalli (18471A05E7), A.K.N. V. Sravani (18471A05C2), CH. Naga Deepika (18471A05D1) ,D.Sirisha(18471A05D4) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021

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CERTIFICATE

bonafide work done by the team Vankayala Meher Rupasri (18471A0558), Pantangi Lakshmi (18471A0540), Narra Harika (18471A0533), Kantu Priyanka (18471A0517) in partial ment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

BOJECT GUIDE

Shaik Khaja Mohiddin Basha, M.Tech Assistant, Professor PROJECT CO-ORDINATOR

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Y EXTERNAL EXAMINER

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "PREDICTION OF DIABETES" is a bonafide work done by the team M.Ruchitha (18471A0588), Sk.Shaheena (18471A05B0) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2021-2022.

PROJECT GUIDE

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CERTIFICATE

This is to certify that the project that is entitled with the name "Email Classification" is a bonafide work done by the team K.Lavanya 12529), Y.Tejaswini(18471A0560), M.Vasantha(18471A0531), Sk.Hashma Raziya Alanhoo(18471A0550) in partial fulfillment of the requirements of the degree of BACHELOR OF TECHNOLOGY in the COMPUTER SCIENCE AND ENGINEERING during 2020-

ENOUGET GUIDE

Srinivasu, M. Tech, Ph.D

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CERTIFICATE

This is to certify that the project that is entitled with the name "IRIS FLOWER CLASSIFIATION" is a bonafide work done by the team K.Akhila 18471A0523), Ch.Srivalli (18471A0507), S.Venkata Ramya(18471A0554) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GOIDE

Venkata Reddy M .Tech, Ph.D Assoc. Professor PROJECT CONTINATOR

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Assoc. Professor

HE AD OF THE DEPARTMENT

Tirumala Rao, M. Tech., Ph.D.,

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) : NARASARAOPET

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the Machine Learning project entitled

the name "ENGINE ENERGY PREDICTION" is a bonafide work done by the

of N.SATHYA SWAROOP (18471A0534), K.VINAY(18471A0526), T.NITHISH

FEDDY (18471A0555) in partial fulfillment of requirements for the award of the degree

BACHELOR OF TECHNOLOGY in the department of COMPUTER SCIENCE

ENGINEERING during 2020-2021

PROJECT QUIDE

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HEAD OF THE DEPARTMENT

Dr. S. N. TirumalaRao, M.Tech., Ph.D.,

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PROJECTION DINATOR

Ms Sireesha .M, M.Tech., Assoc. Professor

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EXTERNAL EXAMINER

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "CAR PRICE PREDICTION SYSTEM USING MACHINE LEARNING ALGORITHMS" is a bonafide work done by the team V.Saketh Sri Harsha(18471A0557) R.V.V.SaiKumar(18471A0548) R.Charaj (18471A054) V. Sai Varun(18471A0559) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

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Professor

PROJECT CO ORDINATOR

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Assoc. Professor

HEAD OF THE DEPARTMENT

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "FLIGHT TICKET FARE PREDICTION" is a bonafide work done by the team D. Chakri Venkata Sai Teja (18471A0510), P. Israyelu (18471A0539), B. Vishnu Charan Teja (18471A0505), K. Soma Sekhar Pavan Kumar (18471A0520) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

Gr. Jayande PROJECT GUIDE

Dr. G. L. N. Jayaprada, M.Tech.PhD Assoc. Professor

HEAD OF THE DEPARTMENT

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PROJECT CO-ORDINATOR

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II

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CERTIFICATE

This is to certify that the project that is entitled with the name PREDICTION OF BREAST CANCER DISEASE" is a bonafide work done by the team SK.M. Sharukh (18471A0551), A.Rakesh (18471A0504), S. Pavan (18471A0553) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

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PROJECTO BEINATOR

Ms Sireesha .M, M.Tech., Assoc. Professor

EXTERNAL EXAMINER

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "Brain Tumor Detection" is a bonafide work done by the team Koppula Praveen Kumar(18471A0524), Padamutham Neeraj(1847A0537), Duaggupati VighneswraRao(18471A0509), Kolli Manikanta(18471A0522) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROTOGUIDE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project that is entitled with the name "BITCOIN PRICE PREDICTION" is a bonafide work done by the team Ch. Kavya Sudhanjali (18471A0566), J. Jayasree (18471A0574), Sk. Rumina Kousar (18471A05A9) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT

M. Sircesha M.Tech,(ph.D.)
Associative Professor

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HEAD OF THE DEPARTMENT Dr. S. N. TirumalaRao, M.Tech., Ph.D.

Professor

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PRINCIPAL
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NARASARAOPET - 522 601
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DISEASE PREDICTION

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

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

Submitted by
Shaik Mohammad Arshad(18471A05H2)
Ganugapenta Mallikharjuna Reddy(18471A05D5)
P Siva Koteswararao(18471A05G4)
M Yashwanth(18471A05F3)

Under the esteemed guidance of

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Guntur (Dist.), A.P.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CERTIFICATE



This is to certify that the project that is entitled with the name "Unauthorized Access Point Detection Using Machine Learning Algorithms for Information Protection" is a bonafide work done by the team B.Anil (18471A05C6), SK. Munwar Basha (18471A05H3), L. Prasad (18471A05F0) S. Sai Mahesh (18471A05G7), in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in the Department of COMPUTER SCIENCE AND ENGINEERING during 2020-2021.

PROJECT GUIDE

K.V.Narasimha Reddy M.Tech

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M.Sireesha M.Tech

EXTERNAL EXAMINER



2

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NARASARAOPETA ENGINEERING COLLEGE: NARASARAOPETA (AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the project entitled "HEART FAILURE PREDICTION"

work done by "Ch.Niharika (18471A05C9), N.Manogna Sai(18471A05F6).

of the degree of BACHELOR OF TECHNOLOGY in the department of

TER SCIENCE AND ENGINEERING during 2020-2021.

Reddy ,MTech,(Ph.D)

mt Professor

HE DEPARTMENT

Rao, M. Tech., Ph. D

PROJECT C

Mrs. M. Sireesha, M. Tech.

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CUSTOMER SATISFACTION WITH REFERENCE TO SANGAM MILK PRODUCT COMPANY LTD, VADLAMUDI" fulfillment is being submitted by M. MAHESH BABU bearing Regd. No. 19471E0027 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from JULY 2020 TO AUGUST 2020.

The results presented 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 any other degree.

Project guide

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Associate Professor

Head of the Department

Dr. S. VENKATA RAMANA

M. B.A., M.Phil., Ph.D.

Professor

K. GUYLINGER -

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The results presented in this is have been verified and are found to be satisfactory. The results embodied in this is have not been submitted to any other University for the award of any other degree.

Project guide

SK.KAREMBASHA

M.B.A., (Ph.D.) Associate Professor Head of the Department

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M.B.A., M.Phil., Ph.D.

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EXTERNAL EXAMINER

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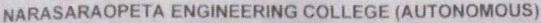
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An ISO 9001:2008 Certified Institution) Phone: 08647-239916, Website: WWW.nrtengg.com, Email: nrtec _mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY OF MARKETING MIX AT JOCIL LIMITED, DOKIPARRU" is being submitted by Perla koteswararao bearing Regd No. 19471E0067 in partial fulfillment of requirement for the award of the degree of M.B. Ain NARASARAO PETAENGINEERING COLLEGE, (AUTONOMOUS) affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from June-2020 to Aug-2020.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

Project Guide
Mrs.T.L. SRAVANI KUMARI
MBA. LLB

Assistant Proferssor

Head of the Department

Dr. S.VENKATA RAMANA

M.B.A., M.Phil., Ph.D.

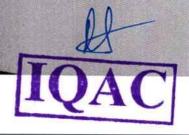
Professor

External Examiner

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(AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON SALES ANALYSIS OF TWO WHEELER IN YAMAHA MOTORS INDIA PVT LTD, GUNTUR" fulfillment is being submitted by Parsapu Subbarao bearing Regd. No. 19471E0066 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bona fide work carried out by him under our guidance and supervision from May-2020 to June-2020.

The results presented 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 any other degree.

Project guide

Y Suresh M.B.A., M.com, (M. Phil) Assistant Professor Head of the Department

Dr. S. VENKATARAMANA

M.B.A., M.Phil, Ph.D.

Professor

EXAMINER

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS). (Permanently Affiliated to J.N.F.U. Kakinada, Accredited by NAAC 'A', N.B.A. Aft. FF and INCOMES DESCRIPTIONS

DEPARTMENT OF MERA, NARASARAOPET - 522601



CERTIFICATE

This is to certify that the project entitled "A STUDY ON WORKING CAPITAL MANAGEMENT WITH REFERENCE TO VALLABHA FEEDS PVT, LTD. NARASARA OPET", is being submitted by Mr. MANJULA PEDDARAYUDU bearing Regd. No. 19471E0062 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE, Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him under our guidance and supervision from JULY-2020 to AUGUST-2020.

The results presented 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 any other degree.

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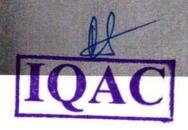
Y.SURESH MBA, M.Com(M.Phil) Head of the Department

Dr.S.VENKATA RAMANA MBA, M.Phil, Ph.d

Examiner

NARASARAOPETA ENGINEERING COLLEGE

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Contribed Institution) Phone (08547-230916). Website www.institugg.com/finall-instee inbasityaboo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON FOOD INDUSTRY WITH REFERENCE TO M.T.R.FOODS" fulfillment is being submitted by E.HEMA LATHA bearing Regd No 19471E0052 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision

The results presented 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 any other degree.

Project guide P.VENKATESWARARAO

M.B.A. (Ph.D.)
Associate Professor

Head of the Department
Dr. S. VENKATA RAMANA

M. B.A. M.Phil. Ph.D. Professor

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON INVENTORY MANAGEMENT with reference to KCP CEMENT LTD, MACHERLA", fulfillment is being submitted by N. SAILAJA bearing Regd. No. 19471E0032 in partial of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by his under our guidance and supervision from June -2020 to Aug-2020

The results presented 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 any other degree.

P.Pottabhikan.

Project guide Dr. P. PATTABHI RAM,

M.B.A. M.Phil. Ph.D. Associate Professor Head of the Department

Dr. S.VENKATA RAMANA

MBA M.Phil., Ph.D.

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON IMPACT OF WORK FROM HOME ON PRODUCTIVITY OF IT INDUSTRY WITH REFERENCE TO COGNIZANT LIMITED" fulfillment is being submitted by BATCHU CHANDRIKA bearing Regd No. 19471E0006 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from May-2020 to June-2020.

The results presented 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 any other degree.

Project guide

Dr. S. VENKATARAMANA

M B.A., M Phil., Ph.D. Professor Head of the Department
Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

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"A" Grade, An ISO 9001-2008 Certified Institution) Phone. 08647-239916,

Website WWW.nrtengg.com.Email.nrtec_mba/ayahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON WORKING CAPITAL WITH REFERENCE TO VIJAYA DAIRY MILK PRODUCER PVILITD, VIJAYAWADA" fulfillment is being submitted by BEJAGAM LAKSHMI bearingRegd. No. 19471E0007 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopet Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from june-2020 to Aug-2020.

The results presented 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 any other degree.

Dr. S. VENKATA RAMANA M. B.A., M. Phil., Ph.D.

Professor

Head of the Department

Dr. S. VENKATA RAMANA

M. B.A., M.Phil., Ph.D.

Professor

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), (Permanently Affiliated to J.N.T.U., Kakinada, Accredited by NAAC 'A', N.B.A., AICTE and ISO 9001-2008 Certified) DEPARTMENT OF M.B.A., NARASARAOPET - 522601



CERTIFICATE

This is to certify that the project entitled "A STUDY OF RECRUITMENT AND SELECTION AT KRISHNA DISTRICT MILK PRODUCERS MUTUALLY

AIDED CO-OP UNION LTD. IN VIJAYAWADA" is being submitted by M RUPA RANI bearing Regd. No. 19471E0028 in partial fulfillment of requirement for the award of the degree of MBA in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nefiru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from May-2017 to June-2017

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other. University for the award of any other degree.

Mr T.MALLIKARJUNA RAO
M.B.A., M.Phil, (ph.d)

Head of the Department
Dr. S.VENKATA RAMANA
MBA M.Phil., Ph.D.

External Exaginer



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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), (Permanently Affiliated to J.N.T.U., Kakinada, Accredited by NAAC 'A', N.B.A. AICTE and 15O 9001: 2008 Certified) DEPARTMENT OF M.B.A., NARASARAOPET - 522601



CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE MOTIVATION WITH REFERENCE TO COROMANDEL INTERNATIONAL Ltd, ANDHRA PRADESH", is being submitted by Ms. PADALA.PRIYANKA bearing Regd. No. 19471E0065 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE, Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by her under our guidance and supervision from JULY-2020 to AUGUST-2020.

The results presented 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 any other degree.

Project Guide

Y.SURESH MBA, M.Com (M.Phil) S. V calcot V Congar Head of the Department

Dr. S. Venkata Ramana MBA, M.Phil, Ph.D

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON IMPACT OF COVID 19 ON INSURANCE. WITH REFERENCE TO BAJAJ FINANCE LTD "fulfillment is being submitted by BETAM NAVEEN bearing Regd. No. 19471E0008 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from JUNE-2020 to AUGUST -2020.

The results presented 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 any other degree.

Project guide

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

Dr. T. Weennihaa

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Website WWW nrtengg com, Email nrtec_mba/a/yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON RATION ANALYSIS WITH REFERNECE JOCIL LTD" fulfillment is being submitted by NALLAPANENI PAVANI bearing Regd. No.19471E0030 in partial fulfillment of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision.

The results presented in this is 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 any other degree.

Project guide

T.MALLIKARJUNA RAO M.B.A.M.Phil Head of the Department

Dr. S. VENKATA RAMANA M. B.A., M. Phil., Ph. D.

Professor

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE DISCIPLINARY ACTION AT MASTER ALLMINIUM INDIA PRIVATE LIMITED, HYDERABAD" is being submitted by MUPPALLA ANUSHA bearing Regd No. 19471E0029 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakınada is record of bonafide work carried out by his under our guidance and supervision from June-2020 to Aug-2020.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

Project Can

Mr.T.MALLIKARJUN RAO

MBA., (Ph.D)

Dr. S.VENKATA RAMANA MBA M. Phil., Ph.D.

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON RATIO ANALYSIS IN SAGAR CEMENTS PVT. LTD., NALGONDA" is being submitted by Chinta Radhikabearing Regd. No. 19471E0049 in partial fulfillment of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College(Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from May-2019 to Augest 2021

The results presented 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 any other degree.

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Mr. Venkateswararao
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Associate Professor

Head of the Department

Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D. Professor

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CUSTOMER AWARENESS TOWARDS OVER THE TOP PLATFORMS (OTT) WITH REFERENCE TO BHARATHI AIRTEL LTD" fulfillment is being submitted by CHINNAM PAVANI bearing Regd. No. 19471E0009 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from May-2020 to June-2020.

The results presented 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 any other degree.

Dr. S. VENKATA RAMANA
M.B.A., M.Phil., Ph.D.

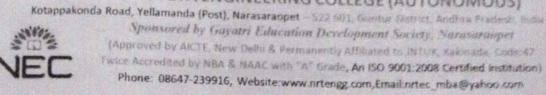
Professor

Head of the Department
Dr. S. VENKATA RAMANA
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Professor

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE SATISFACTION WITH REFERENCE TO JOCIL LIMITED, DOKIPARRU(P.O), " fulfillment is being submitted by KONDEPATLNANDINI bearing Regd. No. 19471E0063 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from June 2020 to Aug 2020.

The results presented 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 any other degree.

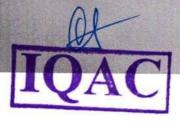
Project guide
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CERTIFICATE

This is to certify that the project entitled "A STUDY ON RATIO ANALYSIS IN BHARATHI CEMENTS CORPORATION PVT LTD,
HYDERABAD" fulfillment is being submitted by RASLM D bearing Regd. No. 19471E0039 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision

The results presented 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 any other degree.

P. Pattabhilom

Project guide

Dr.P.PATTABHI RAM M. B.A., M. Phil., Ph. D

Associate Professor

Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CUSTOMER SATISFACTION WITH REFERENCE TO LINERS INDIALITD VIJAYAWADA" fulfillment is being submitted by SHAIK ABDUL BASHA bearing Regd. No. 19471E0041 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2020 to August-2020.

The results presented 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 any other degree.

Product Cale

Mr. I. Sridhar M.B.A. (Ph.D.)

Associate Professor

Head of the Department

Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D.

Professor

EXTERNAL EXAMINER

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CERTIFICATE

This is to certify that the project entitled A STUDY ON SALES PROMOTION TECHNIQUES WITH REFERENCE TO HERO MOTO CROP SERVICES PVT.LTD, GUNTUR" is being submitted by P.SUJANA BABU bearing

Regd. No 19471E0034 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by his under our guidance and supervision from June-2020 August-2020.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

Project Guide Dr. P.PATTABHI RAM

M.B.A., M.Phil., Ph.D.
Associate Professor

Head of the Department Dr. S.VENKATA RAMANA

MBA, M.Phil., Ph.D.

Professor

External Examiner

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON INVENTORY MANAGEMENT WITH REFERENCE TO TULASI SEEDS PVT. LTD GUNTUR", is being submitted by PATTAN JANI BASHA bearing Regd. No. 19471E0037 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2020 to August-2020.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

P. Patto Lhilam Project guide Dr. P. PATTABHI RAM,

M.B.A. M.Phil ,Ph.D

Associate Professor

Head of the Department

Dr. S.VENKATA RAMANA

MBA M.PHL. PHD.

External Examiner W

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CERTIFICATE

This is to certify that the Project entitled "A STUDY ON RATIO ANALAYSIS WITH REFERENCE TO VIJAYAWADA THERMAL POWER STATION, VIJAYAWADA". Is being submitted by P.UMA PRAKASH bearing Regd. No. 19471E0036 in partial fulfillment of the requirement for the award of MBA in NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOIUS), affiliated to lawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him under our guidance and supervision from June 2020-August 2020.

The results presented in this this report have been verified and are found to be satisfactory. The results embodied in this report have not been submitted to any other University for the award of any other degree.

Project Guide
Dr. P. Pattabhi Ram
MBA, M.Phil., Ph.D.

Associate Professor

Head of the Department Dr. S. Venkata Ramana MBA, M. Phil., Ph.D. Professor

EXTERNAL EXAMINER

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Twice Accredited by NBA & NAAC with "A" Grade, An ISO 9001-2008 Certified Institution) Phone: 08647-239916, Website: www.nrtengg.com,Email:nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE WELFARE MEASURES with reference to BHARAT HEAVY ELECTRICS LIMITED, HYDERABAD" fulfillments being submitted by CH.BINDU MADHAVI bearing Regd. No. 19471E0010 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College(Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision.

The results presented 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 any other degree.

Dr.S.VENKATA RAMANA

M.B.A.,M.Phil.,(Ph.D). Professor Head of the Department

Dr.S.VENKATA RAMANA

M.B.A.,M.Phil.,(Ph.D). Professor

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON FRAUD CONTROL ACTIVITY IN RETAIL BANKING - CREDIT CARDS with Reference to Mitra Risk Management Services Pvt. Ltd., Hyderabad" is being submitted by O.HAJARATHAYA bearing Regd. No. 19471E0033 in partial fulfilment of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from JUN 2020- AUGUST 2020.

The results presented 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 any other degree.

P. Patlabhilam Project guide Dr. P. PATTABHI RAM

M.B.A., M.Phil., Ph.D.

Associate Professor

Head of the Department Dr. S. VENKATA RAMANA

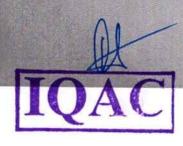
M.B.A., M.Phil., Ph.D.

Professor

NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON IMPACT OF COVID-19 ON CREDIT WORTHINESS OF RETAIL BANKING CUSTOMERS WITH REFERENCE TO SBI" fulfillment is being submitted by B.CHAITHANYA KUMAR bearing Regd. No. 19471E0005 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to lawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from May-2020 to June-2020.

The results presented 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 any other degree.

Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D.

Professor

Head of the Department Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D.

Professor

M. T. Oreen wishing

NARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "STUDY ON WORKING CAPITAL WITH REFERENCE TO THE TIRUMALA DIARY" fulfillment is being submitted by NARRARAMANJANEYULUbearing Regd. No. 19471E0031 in partial of requirement for the award of the degree of Master of Business Administration in NarasaraopetaEngineeringCollege(Autonomous),affiliatedtoJawaharlalNehruTechnolo gical University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2020 to Aug-2020

The results presented 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 any other degree.

Projectguide

Mr.T.MALLIKARJUNARAO

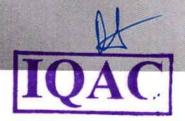
M.B.A., M.Phil., (Ph.D) Assistant Professor

Dr.S.VENKATARAMANA

M.B.A., M.Phil., Ph.D. Associate Professor

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON WORKING CAPITAL MANAGEMENT with reference to SOVEREIGN AGRI INDUSTRIES, GUNTUR", fulfillment is being submitted by P.MANILU bearing Regd. No. 19471E0038 in partial of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by his under our guidance and supervision from June -2020 to Aug-2020.

The results presented 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 any other degree.

P. Pattablikeen

Project guide Dr. P. PATTABHIRAM,

M.B.A. M.Phit, Ph.D Associate Professor Head of the Department

Dr. S.VENKATA RAMANA

MBAM Phil. Ph.D.

EXTERNAL EXAMINER

PRINCIPAL
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CERTIFICATE

This is to certify that the project entitled "A STUDY ON INVENTORY MANAGEMENT WITH REFERENCE TO PRAKASHAM MILK PRODUCERCOMPANY LIMITED" fulfillment is being submitted by PSUBBA RAO bearing Regd. No. 19471E0035 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from june-2020 to august-2020.

The results presented 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 any other degree.

Project guide
Dr. P.PATTABHIRAM
M.B.A., M.Phil., Ph.D.
Associate professor

Head of the Department
Dr. S. VENKATA RAMANA
M.B.A., M.Phil., Ph.D.
Professor

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EXTERNAL EXAMINER

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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CERTIFICATE

Thisistocertifythattheprojectentitled"ASTUDYONEMPLOYEEMOTIVATION
WITHREFERENCETOEDLOGIXSOFTWARESOLUTIONSPVT.LTD,HYDERABAD",is
being submitted by A.RANJITH SINGH bearing Regd. No 19471E0084 in partial
fulfillment of requirement for the award of the degree of M.B.A. in NARASARAOPETA
ENGINEERINGCOLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological
University Kakinada is record of bonafide work carried out by his under our guidance
and supervision from Jun-2020 to August-2020.

The results presented 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 any other degree.

Project Guide

T.L. SRAVANI KUMARI

M.B.A., LLB. Assistant Professor S. Vencot Vona Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M. Phil., Ph.D. Professor

External Examiner

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CHANGE IN CUSTOMER PERCEPTION ON HEALTH INSURANCE WITH IMPACT OF COVID 19 " fulfillment is being submitted by BANALA BHANUTEJASWINI bearing Regd. No. 19471E0004 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from June-2020 to August-2020.

The results presented 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 any other degree.

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D.

Professor

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE HEALTH WITH REFERENCE TO JOCIL LTD., DOKIPARRU" is being submitted by KOTA MOUNIKA bearing Regd. No. 19471E0059 in partial fulfillment of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from June-2020 to Aug-2020.

The results presented 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 any other degree.

Project guide Mr. SK. KAREM BASHA M.B.A. (Ph.D)

Associate Professor

Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D.

Professor

EXTERNAL EXAMINER

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PRINCTPAL
NARASARAOPETA ENGINEERING COLLEGE

NARHBAR BY PERFIT SCATTIFFT Guntur (Dist.), A.P. NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), (Permanently Affiliated to J.N.T.U, Kakinada, Accredited by NAAC 'A', N.B.A, AICTE and ISO 9001:2008 Certified) DEPARTMENT OF M.B.A., NARASARAOPET - 522601



CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE WELFARE with reference to PEARL BEVERAGES LIMITED, EDLAPADU", fulfillment is being submitted by SHAIK SHOYAB bearing Regd. No. 19471E0078 in partial of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous). affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by his under our guidance and supervision from june-2020 to august-2020.

The results presented 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 any other degree.

Project guide SYED SALMA. M.B.A.(Ph.D)

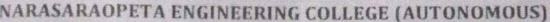
Assistant Professor

Dr. S.VENKATA RAMANA MBA M.Phil. Ph.D.

EXTERNAL EXAMINER

MARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON IMPACT OF COVID-19 ON INDIAN FASHION INDUSTRY WITH REFERENCE TO LEVIS" fulfillment is being submitted by KILARU ANJANEYULU bearing Regd. No. 19471E0019 in partial fulfillment of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from May-2020 to June-2020.

The results presented 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 any other degree.

Project quide

Mr.I.SRIDHAR M.B.A., (Ph.D) Associate Professor Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

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Website:www.nrtengg.com,Email.nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON INVENTORY MANAGEMENT OF SRI DHANALAKSHMI COTTON AND RICE MILLSPVT LTD GANAPAVARAM" fulfillment is being submitted by KOLLA RAMA MOUNIKA bearing Regd. No. 19471E0020 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision.

The results presented 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 any other degree.

Projectguide Mr. I.Sridhar

M.B.A.,(Ph.D)

Associate Professor.

Head of the Department

M.B.A., M.Phil.,Ph.D.

Associate Professor.

EXTERNAL EXAMINER

IQAC

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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Guntur (Dist.)

NARASARAOPETA ENGINEERING COLLEGE AUTONOMOUS (Affiliated to J.N.T.U. Kakinada, Approved by AICTE, NEW DELHI)
VELLAMANDA (V), NARASARAOPET (M), GUNTUR DT - 522601

DEPARTMENT OF MANAGEMENT STUDIES



CERTIFICATE

This is to certify that the project report entitled "A STUDY ON CASH FLOW STATEMENT with reference to SRI DHANALAKSHMI COTTON & RICE MILLS PVT.LTD, GANAPAVARAM" is a genuine and bonafide work composed by V GOPI KRISHNA (19471E0083) under my guidance and submitted in partial fulfilment of the requirements for the award of the degree of the MASTER OF BUSINESS ADMINISTRATION by J N T University, Kakinada, Andhra Pradesh

T.L. Sravon Kumaze.
Project Guide

Mrs. T.L.SRAVANI KUMARI,
M.B.A,LLB
Assistant Professor

Head of the Department

Dr. S.VENKATA RAMANA MBA., M.Phil, Ph.D

Professor

IQAC

External Examiner

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 00



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Institution) Phone: 08647-239916.

Website: WWW.nrtengg.com, Email:nrtec_mba/ayahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON "FUNDS FLO STATEMENT WITH SPECIAL REFERENCE TO., SAKKU SPINNING MILLS"CHIN KONDRUPADU" fulfillment is being submitted by E.ANILKUMAR bearing Regd. 19471E0085 in partial of requirement for the award of the degree of M.B.A NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaha Nehru Technological University Kakinada is record of bona fide work carried out by under our guidance and supervision from June-2020 to Agu-2020

The results presented in this thesis have been verified and are found to be satisfact. The results embodied in this thesis have not been submitted to any other University for award of any other degree.

Project guide
Mrs.T.L.SRAVANI KUMAR
M.B.A. J.L.B

Assistant Professor

Head of the Department Dr. S.VENKATA RAMANA MBA M.Phil., Ph.D.

Professor

EXTERNAL EXAMINER

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PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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CERTIFICATE

This is to certify that the project entitled "A STUDY ON JOB SATISFACTION with reference to HERITAGE FOODS, VIJAYAWADA, Fulfillment is being submitted by K. CHINTU bearing Regd. No. 19471E0086 in partial of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2020 to Aug-2020.

The results presented 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 any other degree.

Project guide
T.L.SRAVANI KUMARI,
M.B.A,LLB

Assistant Professor

Head of the Department

Dr. S. VENKATA RAMANA

MBA M.Phil. Ph.D.

EXTERNAL EXAMINER

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NARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "AN EVALUATION OF STRESS ON EMPLOYEES Oth reference to SUSWADEEP AGRO SERVICES PVT.LTD" fulfillment is being submitted by P.LAKSHMI SOWJANYA bearing Regd. No. 19471E0070 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from June 2020 to August 2020

The results presented 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 any other degree.

Project guide Mr.Y.Suresh M.B.A., M.Com(M.Phil) Assistant Professor

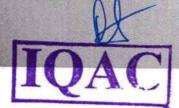
Head of the Department

Dr.S. VENKATA RAMANA M.B.A., M.Phil., Ph.D.

Professor

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON RATIO ANALYSIS IN BHARAT HEAVY ELECTRICAL LIMITED, HYDERABAD" Fulfillment is being submitted by Gajavalli Harish Kumar bearing Regd. No. 19471E0013in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bona fide work carried out by him under our guidance and supervision from jun-2020 to august-2020.

The results presented 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 any other degree.

Y. Sivaladal

Dr.Y Siva Reddy M.B.A.Ph.D Associate Professor

Dr. S. VENKATARAMANA M.B.A., M.Phil., Ph.D.

Professor

EXTERNAL EXAMINER

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

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Kakinada Code 47 Twice Accredited by NBA & NAAC with "A" Grade,
An ISO 9001 2008 Certified Institution) Phone: 08647-239916,
Website WWW.nrtengg.com.Email.nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY JOB SATISFACTION WITH REFERENCE TO R A M K Y INFRASTRUCTURE L T D W I T H REFERENCE TO HYDERABAD, ful fillment is being submitted by K.pujithabearing Regd. No. 19471E0022in partial of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2021 toMAY-2021.

The results presented 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 any other degree.

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Project guide Mr.I.sridhar

M.B.A. (Ph.D)

Associate Professor

Head of the Department

Dr S.VENKATA RAMANA

MEMARIED

AssociateProfessor

K. Companyons EXTERNAL EXAMINER

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PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
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CERTIFICATE

This is to certify that the project entitled "A STUDY ON TRAINING AND DEVELOPMENT with reference to ITC LIMITED. HYDERARAD" fulfillment is being submitted by G.Nandhini bearing Regd. No. 19471E0015 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from June - 2020 to August 2020.

The results presented 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 any other degree.

Y. Siva Redy Project guide

Dr.Y. SIVA REDDY M.B.A., Ph.D. Associate Professor Head of the Department

Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CUSTOMER PERCEPTION ON EDUCATION LOANS with reference to ANDHRA BANK, CHITTINAGAR, VIJAYAWADA, fulfillment is being submitted by LANILKUMAR bearing Regd. No. 19471E0016 in partial of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bona fide work carried out by him under our guidance and supervision from May-2020 to June-2020

The results presented 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 any other degree.

Project guide
Dr.Y.SIVAREDDY
M.B.A.Ph.D.
Associate Professor

Head of the Department
Dr. S.VENKATA RAMANA

MBA M Phil. Ph.D. Professor

EXTERNAL EXAMINER

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Website: WWW nrtengg.com, Email nrtec mba@yahoo.com

CERTIFICATE

To the Bharathi consumer care productspvt Ltd nallacheruvu, Guntur "fulfillment is being submitted by G.Sandeep Kumar bearing Regd. No 19471E0014 in partial of requirement for the award of the degree of M.B.A in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bona fide work earned out by him under our guidance and supervision from JUNE-2020 to AUG -2020

The results presented 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 any other degree.

Project guide
Dr.Y.SIVAREDDY
M.B.A,Ph.D.
Associate Professor

Head of the Department

Dr. S.VENKATA RAMANA

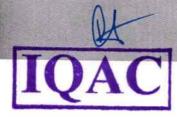
MBA M Phil., Ph.D.

Professor

EXTERNAL EXAMINER

PRINCIPAL NARASARAOPETA ENGINEERING

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)





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CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE HEALTH AND SAFTEY MEASURES OF SP EDIBLE PRODUCTS PVT.LTD." fulfillment is being submitted by VENKATA RAMI REDDY. B bearing Regd. No. 19471E0048 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technologica University. Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2020 to August-20120.

The results presented 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 any other degree.

Project guide

P. Venkateswara Rao

M B.A. (Ph.D) Assoc Professor Head of the Department

Dr. S. VENKATA RAMANA

M B.A. M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON FINANCIAL GROWTH OF HOTEL INDUSTRIES WITH REFERENCE TO HYATT HOTELS, HYDERABAD" fulfillment is being submitted by ANISETTY NAVYA SAI bearing Regd. No. 19471E0046 in partial of requirement for the award of the degree of Master of Business Administration Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision.

The results presented 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 any other degree.

Mr.P.VENKATESWARA RAO

M.B.A., (Ph.D)

Assistant Professor

Head of the Department

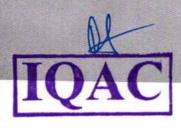
Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D.

Professor

NARASARAOPETA ENGINEERING COLLEGE

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This is to certify that the project entitled "A STUDY ON INVENTORY MANAGEMENT WITH REFERENCE TO KALPATARUVU SPINNING MILLS PVT LTD, THIMMAPURAM" fulfillment is being submitted by D.ANITHA bearing Regd. No. 19471E0050 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous) ,affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision.

The results presented 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 fort the award of any other degree.

Project guide

Mr. P.VENKATESWARA RAO

M.B.A.,(PH.D). Associate Professor Head of the Department

Dr. S.VENKATARAMANA

M.B.A., M. Phil., Ph.D. Professor

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Phone: 08647-239916, Website: WWW.nrtengg.com, Email: nrtec_mba@yahoo.com

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This is to certify that the project entitled "A STUDY ON CUSTOMER SATISFACTION WITH REFERENCE TO VEDA SEED SCIENCES PVT.LTD, GUNTUR", is being submitted by INNAMURI MURALI KRISHNA bearing Reg No. 19471E0017 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him under our guidance and supervision from Jun-2020 to Aug-2020.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

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Dr.Y.SIVA REDDY

MBA.Ph.D.

Associate Professor

S'. V chicoto lon an Head of the Department

Dr. S. VENKATA RAMANA

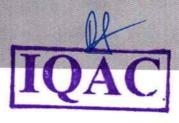
M.B.A M.Phil.,Ph.D.

Professor

External Examiner

PRINCIPAL
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This is to certify that the project entitled "A STUDY ON TRAINING AND DEVELOPMENT WITH REFERENCE TO RINL (Vizag steel plant)" fulfillment is being submitted by K.SAI SUCHARITHA bearing Regd. No. 19471E0018 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision.

The results presented 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 any other degree.

> J. Solar Project guide Mr. I. SRIDHAR M.B.A. Ph.D.

Assoc. Professor

Head of the Department Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D.

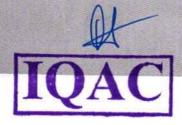
Professor

EXTERNAL EXAMINER

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON SALES PROMOTION TECHNIQUES WITH REFERENCE TO HERITAGE FOODS (INDIA) PVT. LIMITED.", is being submitted by K.SIVA REDDY bearing Regd. No. 19471E0057 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him under our guidance and supervision from May-2020 to July-2020.

The results presented 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 any other degree.

Project guide

Sk.karembasha M.B.A., (Ph.D)., Associate Professor Head of the Department

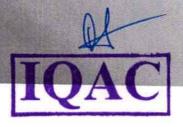
Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) .

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DEPARTMENT OF M.B.A., NARASARAOPET - 522601



CERTIFICATE

This is to certify that the Main Project entitled "A STUDY ON CONSUMER BUYING BEHAVIOR TOWORDS ONLINE SHOPING IN MAJOR CITIES IN INDIA" is being submitted by M.YAMALAIAH bearing Regd. No. 19471E0024in partial fulfillment of the requirements for the completion of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOIUS), affiliated to Jawaharlal Nehru Technological University Kakinada.

The results presented in this thesis have been verified and are found to be satisfactory. The results embodied in this report have not been submitted to any other University for the award of any other degree.

Project Guide only

MBA...[Ph.D]

Associate professor

Dr. S. Venkata Ramana

MBA., M.Phil., Ph.D.

IQAC

External Examples

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(AUTONOMOUS)
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Certified Institution)Phone:08647-239916,

Website www.nrtengg.com,Email.nrtec.mba@yahoo.com

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This is to certify that the project entitled "A STUDY ON BUDGETARY CONTROL ADANI ENTERPRISES LIMITED" fulfillment is being submitted by B. SIVA RAMA KRISHNA bearing Regd. No. 19471E0047 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopet Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision.

The results presented 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 any other degree.

Project guide

Mr. P. VENKATESWARA RAO

M.B.A. (Ph.D.)

Associate Professor

Head of the Department

Dr. S. VENKATA RAMANA

M.B.A. M.Phil. Ph.D.

Professor

EXTERNAL EXAMINER

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CAPITAL BUDGETING WITH REFEREANCE TO TULASI SEEDS (p)LTD GUNTUR" fulfillment is being submitted by KUMBA SRILAKSHMI bearing Regd. No. 19471E0023 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision.

The results presented 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 any other degree.

Project guide
I Sridhar
M.B.A. (Ph.D)
Associate Professor

Head of the Department

Dr. S. VENKATA RAMANA

M. B.A., M. Phil., Ph.D.

Professor

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON SALESPROMOTION TECHNIQUES WITH REFERENCE TO HERITAGE FOODS INDIA LTD, VIJAYAWADA", is being submitted by SHAIK ABUBAKAR SIDDIK bearing Regd. No.19471E0073 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him/her under our guidance and supervision from may-2020 to June-2020

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

Project guide ENKATESWARARAO

> MBA(Ph.d) Assistant Professor

Head of the Department Dr. S.VENKATA RAMANA

MBA M.Phil., Ph.D.

External Examiner

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Phone: 08647-239916. Website WWW.nrtengg.com,Email.nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE GRIEVANCE HANDLING with reference to Apex CoVantage India Private Ltd, Hyderabad" fulfillment is being submitted by K. SWATHI bearing Regd. No. 19471E0058 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bon a fide work carried out by her under our guidance and supervision from June 2020 to Agu-2020.

The results presented 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 any other degree.

Project quide

Mr.SK.KAREM BASHA M.B.A., (Ph.D.) Associate Professor

Head of the Department

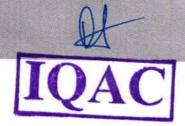
Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D.

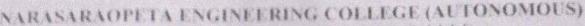
Professor

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NARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON JOB SATISFACTION WITH REFERENCE TO EFFERONICS SYSTEMS PVT.LTD, VIJAYAWADA" fulfillment is being submitted by S. ADI LAKSHMI bearing Regd. No. 19471E0079in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College(Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from June-2020 to August-2020

The results presented 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 any other degree.

Project guide Mrs. SYED SALMA

M B.A., (Ph.D)
Assistant Professor

Head of the Department
Dr.S.VENKATARAMANA
M.B.A., M.Phil., Ph.D.

Professor

EXTERNAL EXAMINER

NARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON WORKING CAPITAL MANAGEMENT WITH REFERENCE TO SOVEREIGN AGRI INDUSTRIES, HYDERABAD" fulfillment is being submitted PUTTA ANJALI bearing Regd. No. 19471E0071 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopet Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from June 2020 to August 2020.

The results presented 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 any other degree.

P. Pattabhilam

Project guide

Dr.P.PATTABHI RAM

M.B.A.,M.Phil., Ph.D.

Associate Professor

Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil, Ph.D.

Associate Professor

EXTERNAL EXAMINER

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ISO 9001:2008 Certified Institution) Phone: 08647-239916,
Website:www.nrtengg.com,Email:nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ONRETAIL CUSTOMER SATISFACTION" with reference to BIG BAZAAR, HYDERABAD, fulfilmentis being submitted by RAVELLA RAJESH bearing Regd. No. 19471E0072 in partial of requirement for the award of the degree of MBA in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by his under our guidance and supervision from June-2021 to July-2021.

The results presented 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 any other degree.

Project guide Dr.Y.SIVA REDDY

Associate Professor

Head of the Department

Dr. S.VENKATA RAMANA

MBA M.Phil., Ph.D. Associate Professor

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON HUMAN RESOURCE INFORMATION SYSTEM with reference to Apex CoVantage India Pvt. Ltd, Hyderabad" fulfillment is being submitted by D.K.HARIKA bearing Regd. No. 19471E0011 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from June-2020 to August-2020.

The results presented in this is have been verified and are found to be satisfactory. The results embodied in this is have not been submitted to any other University for the award of any other degree.

> 4 Sive kedy Project guide Dr. Y.SIVA REDDY M.B.A. Ph.D.

Associate Professor

Head of the Department

Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601



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& Permanently Affiliated to JNTUK Kakinada, Code 47Twice

Accredited by NBA&NAAC with "A" Grade, An ISO 9001:2008 Certified Institution) Phone: 08647
239916, Website: WWW.nrtengg.com, Email: nrtee mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON FRAUD CONTROL ACTIVITY IN RETAIL BANKING - HOME LOANS with Reference to Mitra Risk Management Services Pvt. Ltd., Hyderabad" is being submitted by DASARI NAGA SINDHU bearing Regd. No. 19471E0012 in partial full fillment of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from june-2020 to Aug-2020.

The results presented 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 any other degree.

Projectguide
Dr. Y.SIVAREDDY
M.B.A.Ph.D.

Associative Professor

Head of the Department
Dr. S. VENKATARAMANA
M. B.A., M.Phil., Ph.D.

A., M.Phil., Ph. Professor

EXTERNAL EXAMINER

IQAC

PRINCIPAL
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NARASARAOPET - 522 601

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CONSUMER BEHAVIOUR WITH REFERENCE TO BIGBAZAR" fulfillment is being submitted by KOPPURAVURI MANIDEEP bearing Regd. No. 19471E0021 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2020 to August-2020.

The results presented 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 any other degree.

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Project guide
Mr. I. Sridhar
M.B.A. (Ph.D.)
Associate
Professor

Head of the Department
Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D.

Professor

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PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
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NARASARADPET - 522 60"



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Narasaraopet(Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada,

Code: 47TwiceAccreditedbyNBA&NAACwith"A"Grade,AniSO9001:2008Certified Institution)Phone: 08647239916, Website: WWW.nrtengg.com.Email.nrtec_mba@yahoo.m

CERTIFICATE

This is to certify that the project entitled "A STUDY ON TRAINING ANDDEVELOPMENT with reference to DELIGHT CHEMICALS PVT.LTD PIDUGURALLA" fulfillmentis being submitted by MARASA ROSHINI DEVI bearing Regd. No. 19471E0025 inpartial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College(Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2021 to August-2021.

The results presented 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 any other degree.

Project guide

Mr.T.MALLIKHARJUNA RAO

Assistant Professor

Head of the Department

Dr.S.VENKATARAMANA

M.B.A., M.Phil., Ph.D.

Professor

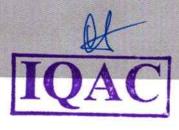
EXTERNALEXAMINER

PRINCIPAL

NARASARADPETA ENGINEERING COLLEGE

(AUTONOMOUS)

NARASARAOPET - 522 601





Kutappakonda Road Yellamanda (Post), Narasaraopet-522601, Guntur District, Andhra Pradesh, India Sponsored by Gayatri Education Development Society, Narasaraopet (Approved by AICTE, New Delhi & Permanently Affiliated to JNTUK, Kakinada, Code: 47TwiceAccreditedbyNBA&NAACwith" A"Grade, AnISO 9001: 2008 Certified Institution) Phone: 08647-239916, Website: WWW.nrtengg.com, Email: nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON EMPLOYEE MOTIVATION with reference to JAYALAKSHMI AUTOMOTIVES, PVT.LTD" fulfillmentis being submitted by M.V.N.VIJAYALAKSHMI bearing Regd. No. 19471E0026 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision.

The results presented 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 any other degree.

Project guide

T.MALLIKARJUN Rao M.B.A., (Ph.D). Assistant Professor Head of the Department

Dr.S.VENKATA RAMANA M.B.A., M.Phil., (Ph.D). Professor

EXTERNAL EXAMINER

PRINCIPAL
NARASARADPETA ENGINEERING COLLEGE
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CERTIFICATE

This is to certify that the project entitled "A STUDY ON STRESS MANAGEMENT WITH REFERENCE TO Dr. REDDY LABORATORIES LTD, HYDERABAD" fulfillment is being submitted by NUTHIKATTU SRIKANTH bearing Regd. No. 19471E0064 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by his under our guidance and supervision from June-2020 to august-2020.

The results presented 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 any other degree.

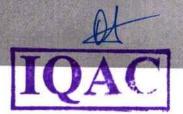
Y.SURESH M.B.A.,M.COM., (M.PHIL) Assistant Professor Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

NARASARAQPETA ENGINEERING COLLEGE (AUTONOMOUS)

NARASARAOPET - 522 601 Guntur (Dist.), A.P.





Kotappakonda Road, Yellamanda (Post), Narasaraopet - 522 601, Guntur District, Andhra Pradesh,

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Phone: 08647-239916, Website:www.nrtengg.com,Email:nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON FINANCIAL ANALYSIS OF PHARMACEUTICAL INDUSTRIES LIMITED" fulfillment is being submitted by SHAIK MOTAD SHABBEER bearing Regd. No. 19471E0076 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision.

The results presented 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 any other degree.

Project guide Sd.SALMA M.B.A., (Ph.D)

Asst. Professor

Head of the Department Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

IQAC

PRINCIPAL
NARASARADPETA ENGINEERING COLLEGE
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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CAPITAL BUDGETING WITH REFERENCE TO ITC PVT.LTD" fulfillment is being submitted by T.HEMA RANI bearing Regd. No. 19471E0080 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College(Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from june 2020 to August 2020.

The results presented 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 any other degree.

Project guide

SD.SALMA

M.B.A.,(Ph.D) Assistant Professor Head of the Department

Dr.S.VENKATA RAMANA

M.B.A.,M.Phil.,Ph.D. Professor

EXTERNALEXAMINER

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PRINCIPAL
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NARASARAOPET - 522 60



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CERTIFICATE

This is to certify that the project entitled "A STUDY ON JOB SATISFACTION WITH REFERENCE TO BHARATHI CONSUMER CARE PRODUCTS

PVT.LTD BEGUMPET, HYDERABAD" is being submitted by T.MADHAN bearing Regd No 19471E0081 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision form June-2020 to August-2020.

The results presented 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 any other degree.

Project Guide
T.L SRAVANI KUMARI
MBA,LIB

External Examiner

Head of the Department Dr. S.VENKATA RAMANA MBA M. Phil., Ph.D.

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CASH MANAGEMENT USING RATIO'S AT BHARATHI CONSUMERCARE PRODUCTS PVT.LTD GUNTUR" is being submitted by SHAIK KARIMULLA bearing Regd. No. 19471E0043 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2020 to Aug-2020.

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

Project Guide Mrs. S.D SALMA

MBA., (Ph.D)

Head of the Department
Dr. S.VENKATA RAMANA

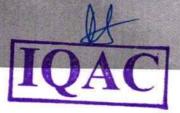
MBA M.Phil., Ph.D.

External Examiner

PRINCIPAL NARASARAOPETA ENGINEERING COLLEGE

(AUTONOMOUS)
NARASARAOPET - 522 60

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Website:www.nrtengg.com,Email:nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON PERFORMANCE APPRAISAL SYSTEM WITH REFERENCE TO DELTA PAPER MILLS LIMITED BHIMAVARAM" fulfillment is being submitted by D.SAI LAKSHMI PRASANNA bearing Regd. No. 19471E0051in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision.

The results presented 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 any other degree.

Project guide Mr.P.VENKATESWAR RAO

M .B.A., (Ph.D)
ASSOCIATE Professor

Head of the Department
Dr.S.VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

2

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

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NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), (Permanenthy Affiliated to J.N.T.U., Kakimada, Accredited by NAAC 'A', N.B.A. AICTE and ISO 9001: 2008 Certified) DEPARTMENT OF M.B.A., NARASARAOPET - 522601



CERTIFICATE

This is to certify that the project entitled "CUSTOMER BUYING BEHAVIOUR OF INSURANCE THROUGH ONLINE WITH REFERENCE TO SHRIRAM LIFE INSURANCE", is being submitted by Ms. M MANASA PHANI bearing Regd. No. 19471E0061 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE, Jawaharlal Nehru Technological University Kakinada is record of bonafide work carned out by her under our guidance and supervision from JULY-2020 to AUGUST-2020.

The results presented 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 any other degree.

Projec Ciuide

(Y. SURESH)
MBA. M.Com(M.Phil)

Head of the Department

(Dr. S. Venkata Ramana) MBA.,M.Phil.,Ph.D

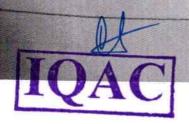
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NARASARADPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ONMARKETING MIXwith reference to VIDEOCON ELECTRONICS PVT.LTD, MOGALRAJA PURAM, VIJAYAWADA, fulfillment is being submitted by M.Sambasiva Raobearing Regd. No. 19471E0060 in partial of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2020 to Aug-2020.

The results presented 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 any other degree.

Project guide Y. SURESH, M.B.A.M.Com,(M.Phil) Head of the Department

Dr. S.VENKATA RAMANA

MBA M.Phil., Ph.D.

AC

PRINCIPAL
NARASARASPETA ENGINEERING COLLEGE
(AUTONOMOUS)

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08647-239916, Website: www.nrtengg.com,Email:nrtec_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON MUTUAL FUNDS with reference to INDIABULLS FINANCIAL SERVICE LIMITED,

HYDERABAD" is being submitted by P.SAROJINI bearing Regd. No.19471E0068 in partial fulfillment of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by her under our guidance and supervision from june 2020 to August 2020

The results presented 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 any other degree.

Project guide Mrs.SD.SALMA

M.B.A (P.hD)

Assistant professor

Head of the Department Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D.

Professor

EXTERNAL EXAMINER

PRINCIPAL
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)

NARASARAOPET 522 601

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON BRAND AWARENESS OF DELIGHT CHEMICALS done at DELIGHT CHEMICALS PRIVATE LIMITED, PIDUGURALLA, GUNTUR DISTRICT" fulfillment is being submitted by P.RAVI KUMAR bearing Regd. No. 19471E0069 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from June 2020 to August 2020.

The results presented 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 any other degree.

Project guide
TLSRAVANIKUMARI

M.B.A., LLB Asst Professor Head of the Department
Dr. S. VENKATARAMANA

M.B.A., M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

IQAC

PRINCIPAL
NARASARAOPETA ENGINEERING COURCE
(AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON RECRUITMENT AND SELECTION WITH REFERENCE TO HERITAGE FOODS LIMITED, VIJAYAWADA" fulfillment is being submitted by JAMMULA VASU bearing Regd. No. 19471E0055 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision form june-2020to August-2020.

The results presented 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 any other degree.

Project guide

Sk.karem Basha

M.B.A., (Ph.D). Associate Professor Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D.

Professor

EXTERNAL EXAMINER

NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS)

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON LABOUR WELFARE WITH REFERENCE TO K.C.P CEMENTS LIMITED, MACHERLA" fulfillment is being submitted by K. SIVA VYSHNAVI bearing Regd. No. 19471E0056 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from June-2020to August-2020.

The results presented in this is have been verified and are found to be satisfactory. The results embodied in this is have not been submitted to any other University for the award of any other degree.

Project guide

Mr.SK.KAREM BASHA

M.B.A., (Ph.D.) Associate Professor Head of the Department

Dr.S.VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

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PRINCIPAL
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CERTIFICATE

This is to certify that the project entitled "A STUDY ON DIGITAL BANKING SERVICES IN GUNTUR DISTRICT WITH REFERENCE TO ING VYSYA" fulfillment is being submitted by AMUDALA TEJASWINI bearing Regd. No. 19471E0002 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from May-2020 to June-2020.

The results presented 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 any other degree.

Project guide

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor Head of the Department Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

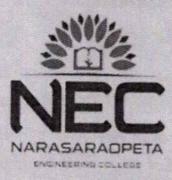
Dr. J. dreen what

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON CUSTOMER SATISFACTION WITH REFERENCE TO VEDA SEED SCIENCES PVT.LTD, GUNTUR" is being submitted by GUNDALA ASHOK bearing Regd. No. 19471E0054 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from June-2020 to Aug-2020.

The results presented 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 any other degree.

ProjectGuide SK.KAREM BASHA

MBA. (Ph.D)

Head of the Department

Dr. S.VENKATARAMANA

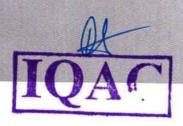
MBA M.Phil., Ph.D.

External examiner

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CERTIFICATE

This is to certify that the Main Project entitled "A STUDY ON IMPACT OF COVID-19 IN ONLINE MARKETING WITH REFERENCE TO FLIPKART PVT, LTD." is being submitted by A.SRINIVASA RAO bearing Regd. No. 19471E0001 in partial of requirements for the award of the degree of Master of Business Administration in NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOIUS), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bondfide work carried out by him under our guidance and supervision from June-2020 to Aug-2020

The results presented 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 any other degree.

Project Guide

Dr. S.VENKATA RAMANA M.B.A., M.Phil., Ph.D Professor S. Veal to Konon-Head of the Department

Dr. S.VENKATA RAMANA M.B.A., M.Phil., Ph.D Professor

EXTERNAL EXAMINER

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Website WWW artengg com, Email artec mba/a/yahoo com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON IMPACT OF COVID 19 PANDEMIC ON TOURISM INDUSTRY" fulfillment is being submitted by AVUDARI LAKSHMAN bearing Regd. No. 19471E0003 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by him under our guidance and supervision from June -2020 to AUG-2020

The results presented 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 any other degree.

Project guide

Dr. S. VENKATA RAMANA M.B.A., M.Phil., Ph.D. Professor

Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D. Professor

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CERTIFICATE

This is to certify that the project entitled "A STUDY ON WORKING CAPITAL" with reference to JOCIL, DOKIPARRU, fulfilment is being submitted by U.RAMANA REDDY bearing Regd. No. 19471E0082 in partial of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (Autonomous), affiliated to Jawaharlal Nehru Technological University Kakinada is record of bona fide work carried out by her under our guidance and supervision from JUNE-2020 to AUGUST-2020.

The results presented 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 any other degree.

Project guide
T.L. SRAVANI KUMARI,
MBALLB

Assistant Professor

Head of the Department

Dr. S. VENKATA RAMANA

MBA M.Phil., Ph.D. Professor

EXTERNAL EXAMINER

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ISO 9001 2008 Certified Institution) Phone: 08647-239916,

Website WWW nrtengg.com Email nrtec mba@yahoo.co

CERTIFICATE

This is to certify that the project entitled "A STUDY ON CASH MANAGEMENT TO AMARAVATHI TEXTILES PVT LTD"MARTUR is being submitted by SHAIK KARIMULLA bearing Regd. No. 19471E0075 in partial fulfillment of requirement for the award of the degree of M.B.A in NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS), Jawaharlal Nehru Technological University Kakinada is record of bonafide work carried out by him/her under our guidance and supervision from June-2020 to August 2020

The results presented in this report have been verified and are found to be satisfactory. The results embodied in this record have not been submitted to any other University for the award of any other degree.

Project guide S.D SALMA, M.B.A, (P.h.D)

Assistant Professor

Head of the Departmen Dr. S.VENKATA RAMANA

MBA M.PHIL, PHD

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Website WWW.nrtengg.com.Email nrter_mba@yahoo.com

CERTIFICATE

This is to certify that the project entitled "A STUDY ON RECRUITMENT AND SELECTION WITH REFERENCE TO INDIA MART VIJAYAWADA" fulfillment is being submitted by SK. MUNEER SHAMI bearing Regd. No. 19471E0077 in partial of requirement for the award of the degree of Master of Business Administration in Narasaraopeta Engineering College (Autonomous), affiliated to Jawaharlal Nehru Technological University, Kakinada is record of bonafide work carried out by her under our guidance and supervision from Sune 2020 to august 2020.

The results presented 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 any other degree.

Project guide

Mrs. Sd.SALMA

M.B.A., (Ph.D) Assistant Professor Head of the Department

Dr. S. VENKATA RAMANA

M.B.A., M.Phil., Ph.D.

Professor

EXTERNAL EXAMINER

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(AUTONOMOUS)

NARASARAOPET - 522 601

Guntur (Dist.), A.P. Scanned by CamScanner



CERTIFICATE

This is to certify that Mallavarapu Nikhil student of MCA from NARASARAOPET ENGINEERING COLLEGE has done project "Brain Tumor Detection Using Deep Neural Network and Machine Learning Algorithm" using Machine Learning Algorithm in our organization under our guidance and supervision.

For << Dream India Technologies >>

Project Guide.



NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) NARASARAOPET - 522 604.

Cuntur (Diot.), A.P.



CERTIFICATE

This is to certify that CH. VENKATESH student of MCA from NARASARAOPET ENGINEERING COLLEGE has done project "A FACEMASK DETECTOR USING MACHINE LEARNING AND IMAGE PROCESSING TECHNIQUES" using Machine Learning Algorithm in our organization under our guidance and supervision.

For << Dream India Technologies>>

G.Nageswara Rad

Project Guide.

IQAC

Principal
NARASARAOPETA ENGINEERING COLLEGE
(AUTONOMOUS)
NARASARAOPET - 522 661.

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(AUTONOMOUS)

(Approved by AICTE & Affiliated to JNTUK, KAKINADA)

(An ISO Certified Institution & Accredited By NAAC with 'A' Grade)

Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled "A COLLABORATIVE AUDITING BLOCKCHAIN FOR TRUSTWORTHY DATA INTEGRITY IN A CLOUD STORAGE SYSTEM" is being submitted by Mr. ESTHALA ABHISHEK (19475F0014) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Dr. S.V. N. Sreenivasu M.Tech, Ph.D Professor Head of the Department

Mrs. M. Mamatha M. Tech

Associate Professor

Department of MCA

External Examine

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(An ISO Certified Institution & Accredited By NAAC with 'A' Grade)
Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled "Randomized View Reconciliation in Permission less Distributed Systems" is being submitted by Mr. R. Venu (19475F0012) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mrs. M. Mamatha, M.Tech,

Assoc Professor Department of MCA Head of the Department

Mrs. M. Mamatha, M.Tech.,

Assoc Professor Department of MCA

External Examiner

Principal

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CERTIFICATE

This is to certify that the project entitled "PROVABLY EFFICIENT ALLOCATION FOR EDGE SERVICE ENTITIES USING HERMES" is being submitted by Mr. A. SREEKANTH (19475F0011) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Quide

Mrs. M. Mamatha, M.Tech Assoc.Prof Department of MCA Head of the Department

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Principal

External ExamineMARASARAOPETA ENGINEERING COLLEGE
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CERTIFICATE

This is to certify that the project entitled "EASY AND SECURE HANDLING OF SENSORS AND ACTUATORS AS CLOUD-BASED SERVICE" is being submitted by Mr. P. RAMESH (19475F0016) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Dr. S.V. N Sreenivasu M. Tech, Ph. D Professor Head of the Department

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Grade) Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled "Privacy-Preserving Image Retrieval and Sharing in Social Multimedia Applications" is being submitted by Mr. K. ADI NARAYANA (19475F0015) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Dr. S.V. N Sreenivasu M.Tech, Ph.D Professor Head of the Department

Mrs. M. Mamatha M.Tech Associate. professor, Department of MCA

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Grade) Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled "CLOUD MANUFACTURING ARCHITECTURE BASED ON PUBLIC BLOCKCHAIN TECHNOLOGY" is being submitted by Ms. R. Swarna (19475F0028) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Dr. S. V. N. SREENIVASU, M.Tech, Ph.D,

Professor

Head of the Department

Mrs. M. Mamatha, M. Tech

Assoc Professor

External Examiner

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NARASARAOPET - 522 601.



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(An ISO Certified Institution & Accredited By NAAC with 'A' Grade)

Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled "Emotions and Age Classification Using Convolutional Neural Network" is being submitted by Mr. T.Bala Bhaskar Rao (19475F0040) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November-2020 to April-2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mr. G. Sambasiva Rao, MCA

Head of the Department

Mrs. M. Mamatha, M.Tech

External Examiner

Principal NARASARAOPETA ENGINEERING COLLEGE

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Guntur (Dist.), A.P.



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CERTIFICATE

This is to certify that the project entitled "QUICK AND ACCURATE FALSE DATA DETECTION IN MOBILE CROWD SENSING" is being submitted by Mr. R. BHIMA NAIK (19475F0033) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mr. G. Sambasiva Rao, MCA

Head of the Department

Mrs. M. Mamatha, MTech

External Examiner

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CERTIFICATE

This is to certify that the project entitled "Efficient Data Collection Over Multiple Access Wireless Sensors Network" is being submitted by Mr. Ch. Rajamohan Reddy(19475F0013) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Dr. S. V. N Sreenivasu, M.Tech, Ph.D,

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CERTIFICATE

This is to certify that the project entitled "HIERARCHIAL ATTENTION NETWORK FOR VISUALLY-AWARE FOOD RECOMMENDATION" is being submitted by Mrs. G. SANDHYA (19475F0048) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Dr. S. V. N Sreenivasu, M.Tech, Ph.D, Professor Head of the Department

Mrs. M. Mamatha, M.Tech., Associate Professor

External Examiner

V

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Grade) Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled "AN ADAPTIVE AUTHENTICATED DATA STRUCTURE WITH PRIVACY-PRESERVING FOR BIG DATA STREAM IN CLOUD" is being submitted by Mr. Y. Yedukondalu (19475F0050) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Dr. S. V. N. SREENIVASU, M. Tech, Ph.D,

Professor

Head of the Department

Mrs. M. Mamatha, M.Tech

Assoc. Professor

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MayarQ m External Examiner

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CERTIFICATE

This is to certify that the project entitled "ROBUST LOSS INFERENCE IN THE PRESENCE OF NOISY MEASUREMENTS AND HIDDEN FAULT DIAGNOSIS" is being submitted by Ms. J. Madhavi (19475F0053) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mr. G. Sambasiva Rao, MCA

Head of the Department

Mrs. M. Mamatha, M. Tech.

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External Examiner

Principal NARASARAOPETA ENGIN**EERING COLL FGE** (AUTONOMOUS)

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(An ISO Certified Institution & Accredited By NAAC with 'A' Grade)

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CERTIFICATE

This is to certify that the project entitled "A Novel Category Group Index Mechanism for Efficient Ranked Search of Encrypted Cloud Data" is being submitted by Mr. G. Akhilendra Chowdary (19475F0054) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth or requirements of the university.

Project Quide

Mrs. M. Mamatha, M.Tech., Assoc.Professor Department of MCA Head of the Departmen

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External Examiner

Principal

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CERTIFICATE

This is to certify that the project entitled "A FACEMASK DETECTOR USING MACHINE LEARNING AND IMAGE PROCESSING TECHNIQUES." is being submitted by Mr. CH. VENKATESH (19475F0056) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mr. G. Sambasiva Rao, MCA

Head of the Department

Mrs. M. Mamatha, M. Tech.,

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External Examiner

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(Approved by AICTE & Affiliated to JNTUK, KAKINADA)

(An ISO Certified Institution & Accredited By NAAC with 'A' Grade)

Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled Optimizing Primary User Privacy in Spectrum Sharing Systems is being submitted by Mr. SHAIK BHADHAR SHAREEF (19475F0020) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mr. G. SAMBASIVA RAO, MCA

Head of the Department

Mrs. M. MAMATHA, M. Tech

IQAC

External Examiner

WARASARAOPETA ENGINEERING COLLEGE

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(An ISO Certified Institution & Accredited By NAAC with 'A'

Grade) Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled "PRIVACY-PRESERVING SIMILARITY COMPUTATION IN CLOUD-BASED MOBILE SOCIAL NETWORKS" is being submitted by Mr. A. Anil (19475F0019) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Dr. S. V. N. SREENIVASU, M.Tech, Ph.D,

Professor

Head of the Department

Mrs. M. Mamatha, M.Tech

Assoc. Professor

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External Examiner 1410812

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(An ISO Certified Institution & Accredited by NAAC with 'A' Grade)
Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled "Brain Tumor Detection Using Deep Neura Network and Machine Learning Algorithm" is being submitted by Mr. M. Nikhil (19475F0018 in partial fulfilment of requirements for the award of "Master of Computer Applications degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mr. G. Sambasiva Rao, MCA

Head of the Department

Mrs. M. Mamatha, M. Tech.,

External Examiner

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CERTIFICATE

is to certify that the project entitled "STUDENT ALUMNI MANAGEMENT SYSTEM" is being submitted by Mr. R. RAMU (19475F0017) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Dr.S.V.N SREENIVAS M. Tech, Ph.D Professor

Heat of the Department

Mrs. M. Mamatha M.Tech Associate Professor

External Exami

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Narasaraopet-522601



CERTIFICATE

This is to certify that the project entitled "TRAFFIC SIGN RECOGNITION BY COMBINING GLOBAL AND LOCAL FEATURES BASED ON SEMI-SUPERVISED CLASSIFICATION" is being submitted by Mr. M. Naveen (19475F0043) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

Mrs. M. Mamatha, M.Tech.

Assoc.Prof

Department of MCA

Head of the Department

Mrs. M. Mamatha, M.Tech

Assoc.Prof

Department of MCA

External Examiner

Principal
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ENGINEERING COLLEGE

CERTIFICATE

This is to certify that the project entitled "Pricing Bandwidth Allocation and Service Competition in Heterogeneous Wireless Networks" is being submitted by Mrs. K. Harika (19475F0046) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

G. Sambasiva Rao, M.C.A

Department

M. Mamatha, M. Tech...

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CERTIFICATE

This is to certify that the project entitled "MULTINATIONAL LICENSE PLATE RECOGNITION USING GENERALIZED CHARACTER SEQUENCE DETECTION" is being submitted by Mr. S. Sagar Reddy (19475F0045) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Preject Guide

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CERTIFICATE

This is to certify that the project entitled "ANALYZING ASR PRETRAINING FOR LOW-RESOURCE SPEECH-TO-TEXT TRANSLATION" is being submitted by Mr. B. Uday Sekhar Reddy (19475F0041) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "SOCIAL-AWARE PRIVACY-PRESERVING MECHANISM FOR CORRELATED DATA" is being submitted by Ms. B.N.S.S.S. Tejaswi (19475F0024) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

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CERTIFICATE

This is to certify that the project entitled "AUTOMATIC HTML CODE GENERATIO FROM MOCK-UP IMAGES USING MACHINE LEARNINGTECHINIQUES" is being submitted by Mrs. SK. RUKSANA (18471F0002) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K., KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "BLOCKCHAIN-BASED HIERARCHICAL TRUST NETWORKING FOR JOINT CLOUD" is being submitted by Ms. K. SAI SRAVANTHI (18471F0001) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to July 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

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CERTIFICATE

This is to certify that the project entitled "A Novel Feature Matching Ranked Search Mechanism Over Encrypted Cloud Data" is being submitted by Mr. M. PHANINDRA KUMAR (19475F0002) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2019 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "SHUFFLE SCHEDULING FOR MAPREDUCE JOBS BASED ON PERIODIC NETWORK STATUS" is being submitted by Mr. R. Mahesh Babu (19475F0022) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "A Decryptable Attribute Based Keywo Search Scheme on E-Health Cloud In Internet of Things Platforms" is being submitted Mr. J. AMITH BABU (19475F0044) in partial fulfillment of requirements for the award "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.

KAKINADA during the year November 2020 to April 2021 under our guidance a supervision and worth of requirements of the university.

Proffot Guide

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CERTIFICATE

This is to certify that the project entitled "BLOCKCHAIN EMPOWERED ARBITRABLE DATA AUDITING SCHEME FOR NETWORK STORAGE AS A SERVICE" is being submitted by Ms. P. Srividya (19475F0023) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "Spectrum Sharing in mm Wave Cellular Networks Using Clustering Algorithms" is being submitted by Mrs. D. Narendra (16471F0055) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "Resolvable Designs For Speeding Up Distributed Computing" is being submitted by Mrs. U. Manjusha (19475F0042) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "Pricing Competition and Content for Internet Service Providers" is being submitted by Mrs. K. Madeena (19475F0051) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "A CLOUD BASED FRAMEWORK FOR MACHINE LEARNING WORKLOADS AND APPLICATIONS " is being submitted by Mr. B. Mehar Gopi (19475F0049) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "OPTIMAL MULTI-USER COMPUTATION OFFLOADING STRATEGY FOR WIRELESS POWERED SENSOR NETWORKS" is being submitted by Mr. N. Pavan Kumar (19475F0047) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "A CONTEXT AWARE SERVICE EVALUTION APPROACH OVER BIGDATA FOR CLOUD APPLICATIONS" is being submitted by Ms. G. Saisri (19475F0003) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "NET VISION ON-DEMAND VIDEO PROCESSING IN WIRELESS NETWORKS" is being submitted by Ms. K. Mary Lakshmi (19475F0038) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

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CERTIFICATE

This is to certify that the project entitled "PROOFS OF PHYSICAL RELIABILITY FOR CLOUD STORAGE SYSTEM" is being submitted by Ms. JIRIPURAPU RAMYA (19475F0025) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "SECURING RESOURCES IN DECENTRALIZED CLOUD STORAGE" is being submitted by Ms. V. NAGA LAKSHMI (19475F0026) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2019 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "Load Imbalance and Caching Performance of Sharded Systems" is being submitted by Mr. M. Pavan Kalyan (19475F0030) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November-2020 to April-2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "RESILIENT RANGE-BASED D-DIMENSIONAL LOCALIZATION FOR MOBILE SENSOR NETWORKS" is being submitted by Mr.BATTULA RAMESH (19475F0021) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2019 to April 2021 under our guidance and supervision and worth of requirements of the university.

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Head of the Department

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CERTIFICATE

This is to certify that the project entitled "EFFICIENT COMPUTING RESOURCE SHARING FOR MOBILE EDGE-CLOUD COMPUTING NETWORK" is being submitted by Ms. P. Mallika (19475F0037) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "A PROFIT MAXIMIZATION SCHEME IN CLOUD COMPUTING WITH DEADLINE CONSTRAINTS" is being submitted by Ms. D. Navya (19475F0039) in partial fulfillment of requirements fo the award of "Master of Computer Applications" degree in the Department of MC/from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under ou guidance and supervision and worth of requirements of the university.

Project Guide

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CERTIFICATE

This is to certify that the project entitled "A BLOCKCHAIN-BASED MODEL FOR CLOUD SERVICE QUALITY MONITORING" is being submitted by Ms. SK. Jakira (19475F0029) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "PERFORMANCE GUARANTEES OF ISTRIBUTED ALGORITHMS FOR QOS IN WIRELESS AD HOC NETWORKS" is ing submitted by Mr. P. J. V. N. Sudhakar (19475F0004) as a partial fulfillment of luirements for the award of "Master of Computer Applications" degree in the Department MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our dance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "ON INTERFERENCE AWARE POWER ADJUSTMENT AND SCHEDULING IN FEMTOCELL NETWORKS" is being submitted by Mr. P. MAHESH BABU (19475F0006) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "EDGE FEDERATION TOWARDS AN INTEGRATED SERVICE PROVISIONING MODEL" is being submitted by Mrs. Y.NAGAMANI (18471F0004) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K., KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "AN ASSOCIATIVE OPTIMIZING METHOD ON RELIABILITY AND COST IN CLOUDS" is being submitted by Mr. SK D. Haneef (18471F0003) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "Dynamic traffic management for SD-WAN Inter Cloud communication" is being submitted by Mr. A.ANIL (19475F0035) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "BLOCK CHAIN-BASED INCENTIVES FOR SECURE AND COLLABORATIVE DATA SHARING IN MULTIPLE CLOUD" is being submitted by Mr. R.VENU BABU (19475F0032) as a partial fulfilment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2019 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

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CERTIFICATE

This is to certify that the project titled "CURRENCY RECOGNITION SYSTEM USING IMAGE PROCESSING" is being submitted by Mrs. G. Sai Durga (19475F0031) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the niversity.

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CERTIFICATE

This is to certify that the project entitled "RISK-AWARE DATA OFFLOADING IN MULTI-SERVER MULTI-ACCESS EDGE COMPUTING ENVIRONMENT" is being submitted by Mr. KOTA. JAGADEESH (19475F0009) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2019 to April 2021 under our guidance and supervision and worth of requirements of the university.

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Head of the Departmen Mrs. M. MAMATHA, M.TECH

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CERTIFICATE

This is to certify that the project entitled "ONLINE IDENTIFICATION OF GROUPS OF FLOWS SHARING A NETWORK BOTTLENECK" is being submitted by Mr. S. Thirupathirao (19475F0007) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

Project Guide

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CERTIFICATE

This is to certify that the project entitled "RETHINKING FAST AND FRIENDLY TRANSPORT IN DATA CENTER NETWORKS" is being submitted by Ms. Syed Fathima (19475F0005) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "Video Behavior Profiling for Anomaly Detection" is being submitted by Mr. P. Naveen kumar (19475F0001) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "Adaptive Consistency Propagation Method for Graph Clustering" is being submitted by Mr. SK. NAGGOR BABU (19475F0008) as a partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during November 2019 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "A BLOCKCHAIN BASED ACCESS CONTROL FRAMEWORK FOR CYBER-PHYSICAL-SOCIAL SYSTEM BIG DATA" is being submitted by Ms. G. Gouthami (19475F0010) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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CERTIFICATE

This is to certify that the project entitled "TWO-FACTOR MUTUAL AUTHENTICATION OFFLOADING FOR MOBIE CLOUD COMPUTING" is being submitted by Ms. A. Sravanthi (19475F0034) in partial fulfillment of requirements for the award of "Master of Computer Applications" degree in the Department of MCA from J.N.T.U.K, KAKINADA during the year November 2020 to April 2021 under our guidance and supervision and worth of requirements of the university.

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