

CONSTRUCTION OF LINE FOLLOW ROBOT BY ARDUINO

*A project work submitted
In partial fulfillment of the requirements
for the award Degree of*

BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING by

T. RAMESH (166H1A0201) J. GOWRI SASI KUMAR (18L65A0221)
K. NANI (18L65A0237) N. AHARON (18L65A0241)

Of under the guidance of

Sri. M.L.V. KRISHNA PRASAD, M. Tech.,
Assistant Professor



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
CHAITANYA ENGINEERING COLLEGE, VISAKHAPATNAM
(NBA and NAAC Accredited, Affiliated to J.N.T. Uniniversity, Kakinada)

2021



Acknowledgement

We express our sincere gratitude to our guide **Sri...M.L.V.KRISHNA PRASAD**, Asst. Professor, Department of Electrical and Electronics Engineering for his invaluable guidance and co-operation, of this project. His guidance made the earliest completion of our project work.

We would also like to thank the Head of the department , Dean(R&D) and Principal for being co-operative throughout our project work

We would also like to thank the teaching and non-teaching staff of the department for being co- operative throughout our project work.

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SMART BLIND STICK USING EMBEDDED SYSTEM

*A project work submitted in
partial fulfillment of the requirements
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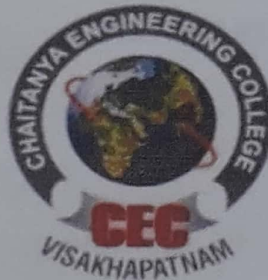
**BACHELOR OF TECHNOLOGY IN
ELECTRICAL AND ELECTRONICS ENGINEERING**

by

B. LAKSHMAN RAO (186H5A0201) M. CHANDU (18L65A0208)
E. KRISHNAM NAIDU (18L65A0216) N. ANAND (18L65A0212)
N. SAI (18L65A0245)

under the guidance of

Dr. G. SURYA KALYAN
Professor of EEE Dept



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

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(NBA and NAAC Accredited, Affiliated to J.N.T. University, Kakinada)

2021



Acknowledgments

We wish to express our sincere gratitude to our guide **Dr. G. SURYA KALYAN**, Professor of Electrical and Electronics Engineering for his guidance and cooperation in completing this project.

We would also like to thank the Head of the department, **Prof. M.R.Lakshmana Rao**, and Principal, **Prof. K.Suresh** for giving their valuable suggestions.

We would also like to thank the teaching and non-teaching staff of the department for being co- operative and early completion of our work.

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IOT BASED HOME AUTOMATION

*A project work submitted
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BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING

by

K. NIRANJAN REDDY (18L65A0225) G. SARAT KUMAR (18L65A0228)
V. PRUDHVI SAI (18L65A0229) P. HARISH KUMAR (18L65A0230)
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2021



Acknowledgements

We wish to express our sincere gratitude to our guide **Sri. S. D. ASHA MAHESH**, Asst. Professor, Department of Electrical and Electronics Engineering for his invaluable guidance and co-operation, of this project. His guidance made the earliest completion of our project work.

We would also like to thank the Head of the department, Dean (R&D) and Principal for being co-operative throughout our project work.

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IOT BASED SMART IRRIGATION SYSTEM

*A project work submitted
in partial fulfillment of the requirements
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BACHELOR OF TECHNOLOGY IN ELECTRICAL AND ELECTRONICS ENGINEERING

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2021



Acknowledgements

We wish to express our sincere gratitude to our guide **Sri. K. NAVEEN**, Asst. Professor, Department of Electrical and Electronics Engineering for his invaluable guidance and co-operation, of this project. His guidance made the earliest completion of our project work.

We would also like to thank the Head of the department, Dean (R&D) and Principal for being co-operative throughout our project work.

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M.NARENDRA	(18L65A0219)
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DESIGN AND MODAL, STATIC ANALYSIS ON CAR WHEEL RIM USING FEA

*A project report submitted for the Partial Fulfilment of the requirements
for the award of the degree of*

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

SUBMITTED BY

D.N.V.S. RAMESH

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18L65A0333

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18L65A0330

Under the Esteemed Guidance of

V.RAJESH, M.Tech..

Associate professor



CHAITANYA ENGINEERING COLLEGE

(Accredited by NACC, NBA, approved by AICTE, Affiliated to Jawaharlal Nehru
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Chaitanya Valley, Kommadi, Madhurawada, Visakhapatnam, Andhra Pradesh-530048

(2018-2021)



CHAITANYA ENGINEERING COLLEGE

(Accredited by NACC, NBA, approved by AICTE, Affiliated to Jawaharlal Nehru
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(2018-2021)

CERTIFICATE

This is to certify that the report /project report entitled **DESIGN AND MODAL ,STATIC ANALYSIS ON CAR WHEEL RIM USING FEA** that is being submitted by **D.N.V.S.RAMESH(18L65A0337), P.SASIDHAR(18L65A0367), M.SAI MALLESHWAR (18L65A0328), K.SATISH(18L65A0351), P.RAMACHANDRA RAO(18L65A0333), P.BHARATH KUMAR(18L65A0330)** in partial fulfilment for the award of B. Tech to the Jawaharlal Nehru Technological University is a record of bonified work carried out by him under our guidance and supervision. The results embodied in this report have not been submitted to any other University or Institute for any degree or diploma.

Project Guide
V.RAJESH, M. Tech
Associate professor

Head of the Department
V.RAJESH, M. Tech
Associate professor

External Examiner

FABRICATION OF FIRE FIGHTING ROBOT

*A project report submitted for the Partial Fulfillment of the requirements
for the award of the degree of*

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

SUBMITTED BY

M. RAMACHANDRA RAO	18L65A0315
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Under the Esteemed Guidance of

I.HARI BABU, M.Tech.

Assistant professor



DEPARTMENT OF MECHANICAL ENGINEERING
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This is to certify that the report /project report entitled **FABRICATION OF FIRE FIGHTING ROBOT** that is being submitted by

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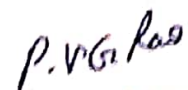
in partial fulfillment for the award of B.tech to the Jawaharlal Nehru Technological University is a record of bonafied work carried out by him under our guidance and supervision. The results embodied in this report have not been submitted to any other University or Institute for any degree or diploma.



Project Guide
I. HARI BABU, M.Tech
Assistant professor



Head of the Department
V. RAJESH, M. Tech
Associate professor



External Examiner

DR. K SURESH VARMA
PRINCIPAL

*Design and CFD analysis of forced draft cooling tower at
varying inlet flow angles*

A Major Project Report

Submitted to



Jawaharlal Nehru Technological University, Kakinada
*In partial fulfillment of the requirements for the
award of the degree of*

BACHELOR OF TECHNOLOGY
in
MECHANICAL ENGINEERING

By

A.YOGESH	18L65A03A4
S.JAGADEESH	18L65A03A5
CH. JAI SAI RAM	18L65A0392
B.JNANA SURYA PRAKASH	18L65A03B2
T.MANOJ RAO	18L65A03A9
U.MOHAN	18L65A0393

**Under the Esteemed Guidance of
M. PARVATEESAM**

M.Tech



**CHAITANYA ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING**

(Affiliated to JNTU & approved by A.I.C.T.E, Accredited by NAAC, New Delhi)
(Kommadi,-Madhurawada Visakhapatnam- 530048)



CHAITANYA ENGINEERING COLLEGE
DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is Certified That the Project Entitled "*Design and CFD Analysis of Forced Draft Cooling Tower at Varying inlet Flow Angles*" Submitted by A.YOGESH (18L65A03A4) S.JAGADEESH(18L65A03A5),CH.JAI SAI RAM(18L65A0392),B.JNANA SURYA PRAKASH(18L65A03B2),T.MANOJ RAO(18L65A03A9),U.MOHAN(18L65A0393) In Partial Fulfillment of the Requirements for the award of The Degree of **BACHELOR OF TECHNOLOGY** In **MECHANICAL ENGINEERING** From Jawaharlal Nehru Technological University, Kakinada for the Academic Year 2018-21 Is a Record of Bonafide Work Carried out Under our Guidance and Supervision.

Name of the Guide / Supervisor
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Mr. M. Parvateesam
M.Tech
Assistant professor

Head of the Department-MECH
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Mr. V Rajesh
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External Examiner

STATIC AND THERMAL ANALYSIS ON FOUR CYLINDER ENGINE BLOCK USING FEA

A Project report submitted in partial fulfilment for the award of the degree of

BACHELOR OF TECHNOLOGY
IN
MECHANICAL ENGINEERING
BY

B. ROHIT	17L61A0305
B. MAHESH	17L61A0323
P. SESHU	17L61A0327
MOHAMMAD ISRAHAR	16L61A0333
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Assistant professor



DEPARTMENT OF MECHANICAL ENGINEERING
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KOMMADI, VISHAKAPATNAM, ANDHRA PRADESH – 530048

2017-2021

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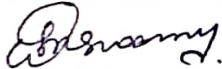
This is to certify that the dissertation entitled "STATIC AND THERMAL ANALYSIS ON FOUR CYLINDER ENGINE BLOCK USING FEA" that is submitted

By

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MOHAMMAD ISRAHAR	16L61A0333
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In partial fulfilment of the requirements for the award of the degree of bachelor of Technology in mechanical Engineering, Chaitanya Engineering College, Visakhapatnam, is a record of Bonafede work carried out by him under my guidance and it has been found suitable for acceptance according to the requirements of the university.

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



Project Guide

Sri D. SEETHARAMA SWAMY

Assistant professor

Department of

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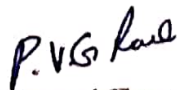
Head of the Department

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Associate professor

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Mechanical Engineering



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A NOVEL AND EFFICIENT REAL TIME DRIVER FATIGUE AND YAWN DETECTION-ALERT SYSTEM

A project report submitted in partial fulfilment of the requirements for the

Award of

BACHELOR OF TECHNOLOGY IN
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

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Under the Esteemed Guidance of

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Principal of CEC



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
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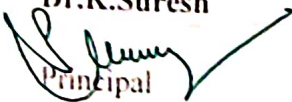
This is to certify that the project work titled "A NOVEL AND EFFICIENT REAL TIME DRIVER FATIGUE AND YAWN DETECTION-ALERT SYSTEM" is a work done by A.ABHILASH (17L6510432), D.SAI KUMAR (17L61A0418), B.LAKSHMI NIKHITHA (17L61A0452), S.VENKATA RAMANA (18L65A0405), P.RAMYA (18L65A0414) during the academic year 2017-2021 under our guidance. The work submitted to the "Department of Electronics and Communication Engineering" in partial fulfillment for the award of the "Bachelor of Technology".

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MRI AND CT Medical Image Fusion Based on Synchronized-Anisotropic Diffusion Model

*A project report submitted in partial fulfillment of the requirements for
the award of Degree of*

**Bachelor of Technology
In
ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted

By

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PROJECT FILE

This is to certify that the project work titled "MRI AND CT MEDICAL IMAGE FUSION BASED ON SYNCHRONIZED-ANISOTROPIC DIFFUSION MODEL" is a work done by B. YESWANTHIUMA (17L61A0426), D. SAILAJA (17L61A0439), K. GOWTHAM KUMAR (18L65A0412), P. GANILAKSHMI (17L61A0413) during the academic year 2017-2021 under our guidance. The work submitted to the "Department of Electronics and Communication Engineering" in partial fulfillment for the award of the "Bachelor of Technology".

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**REAL TIME DATA HIDING BY EXPLOITING THE IPCM
MACROBLOCKS IN H.264/AVC STREAMS**

A project report submitted in partial fulfilment of the requirements for the

Award of Degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted by

P.JEDIDIAH	-	(17L61A0438)
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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(2017-2021)

CHAITANYA ENGINEERING COLLEGE

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(2017-2021)




DEPARTMENT

OF

ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

This is to certify that the project work entitled "REAL TIME DATA HINDING BY EXPLOITING THE IPCM MACROBLOCKS IN H.264/AVC STREAMS" is a work done by P.JEDIDIAH (17L61A0438), J.VAMSI (17L61A0414), V.MUNI VAMSI (17L61A0419), M.MADHU SAI (17L61A0411), during the year 2017-2021 under our guidance. This work submitted to the "Department of Electronics And Communication Engineering" in partial fulfilment for the award of "Bachelor of Technology" Degree.


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DESIGN AND PERFORMANCE ANALYSIS OF 32BIT VLSI HYBRID ADDERS

*A project report submitted in partial fulfillment of the
requirements for the award of Degree of*

Bachelor of Technology
in
ELECTRONICS AND COMMUNICATION ENGINEERING

Submitted

by

G.HARINI - (17L61A0428)

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(2017-2021)

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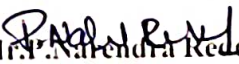


DEPARTMENT
OF
ELECTRONICS AND COMMUNICATION ENGINEERING

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This is to certify that the project work entitle "DESIGN AND PERFORMANCE ANALYSIS OF 32-BIT VLSI HYBRID ADDERS" is a work done by G.HARINI (17L61A0428), M.LAVANYA (17L61A0410), P.V HEMANTH (17L61A0443), R.PRANEETH (17L61A0421) during the year 2017-2021 under our guidance. This work submitted to the "Department of Electronics And Communication Engineering" in partial fulfilment for the award of "Bachelor of Technology" Degree.

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Assistant Professor

ECE Department

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Head of the Department


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

Associate Professor

ECE Department

Chaitanya Engineering College



External Examiner

A STUDY ON
"PERFORMANCE APPRAISAL"

With reference to

"THE ETIKOPPAKA CO-OPERATIVE AGRICULTURAL & INDUSTRIAL
SOCIETY LTD."



A project report is submitted to department of management studies, JNTUK
university, in partial fulfillment for the award of degree of the

MASTER OF BUSINESS ADMINISTRATION



Submitted by

Mr. GATTEM.MANIKYAM
(Regd.No19L61E0013)

Under the guidance of

Mrs. G.GOWRI, MBA,

Assistant Professor

DEPARTMENT OF BUSINESS AND MANAGEMENT
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KOMMADI, VISAKHAPATNAM-530048

(2019-21)

Mrs. M.PADMAJA
Head of department
Department of Business
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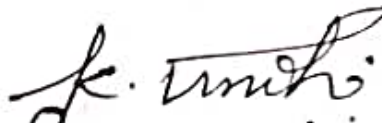
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This is to certify that the project report entitled "PERFORMANCE APPRAISAL" with reference to "THE ETIKOPPAKA COOPERATIVE AGRICULTURAL & INDUSTRIAL SOCIETY LTD". submitted in partial fulfillment for the award of Master of Business Administration by Mr. G. MANIKYAM, PIN: 19L61E0013 during the academic year 2019-2021 under my guidance and supervision. This report has not been submitted previously for the award of any Degree, Diploma, or similar title in this University or in any other University.


Mrs. G. GOWRI
PROJECT SUPERVISOR


Mrs. M.PADMAJA
HEAD OF THE DEPARTMENT


EXTERNAL EXAMINER

**A STUDY
ON RECRUITMENT AND SELECTION
With Reference To
YOGITHA MEDICARE PRIVATE LIMITED,
VISA KHAPATNAM**



A project report submitted to JNTU,
Kakinada
In partial fulfillment of the requirements for the award of the Degree of

MASTER OF BUSINESS ADMINISTRATION



Submitted By

**NETHULA PRAMEELA
(PIN. NO: 19L61E0027)**

**UNDER THE GUIDANCE OF
Mrs. K. LAKSHMI, M.A., MBA.,
Assistant Professor**

**DEPARTMENT OF BUSINESS AND MANAGEMENT STUDIES
CHAITANYA ENGINEERING COLLEGE
KOMMADI, VISA KHAPATNAM-530048
(2019-2021)**



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Visakhapatnam – 530048

CERTIFICATE

This is to certify that the project report entitled “RECRUITMENT AND SELECTION with Reference to “YOGITHA MEDICARE PRIVATE LIMITED, VISAKHAPATNAM” submitted in partial fulfillment for the award of Master of Business Administration by NETHULA PRAMEELA, PIN No.19L61E0027 during the academic year 2019-2021 under my guidance and supervision. This report has not been submitted previously for the award of any Degree, Diploma, or similar title in this University or in any other University.

Mrs. k. LAKSHMI M.A., MBA

Project Supervisor

Mrs. PADMAJA M.com., MBA (Ph.)

Head of the Department

EXTERNAL EXAMINER

Android Based Parking Reservation System

A project report submitted in partial fulfillment of the requirements

for the degree of

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE & ENGINEERING

Submitted by

S.V.L. SHILPA	[17L61A0567]
S.LIKHITH	[17L61A0574]
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SK.SUBHAN ALI	[17L61A0577]
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Under the esteemed Guidance of

Ms. M. PADMAJA, M.Sc., M.Tech.,

**Assistant Professor
Department of CSE**



Department of Computer Science and Engineering

CHAITANYA ENGINEERING COLLEGE

Accredited by NBA, Approved by A.I.C.T.E.

(Affiliated to Jawaharlal Nehru Technological University, Kakinada, A.P)

KOMMADI VILLAGE, VISAKHAPATNAM-530048

2017 - 2021

2023/02/21 14:17

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

CHAITANYA ENGINEERING COLLEGE

(Affiliated to Jawaharlal Nehru Technological University, Kakinada, A.P)



CERTIFICATE

This is to certify the project report entitled "ANDROID BASED PARKING RESERVATION SYSTEM" is original work done by "S.V.L.SHILPA [17L61A567], S.LIKHITH [17L61A0574], K.SANJANA [17L61A0579], S.K.SUBHANALI [17L61A0577], G.CHAITANYA [17L61A0589]" in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science during the academic year 2020-2021. The result presented in thesis has been verified and are found to be satisfactory.

M. Padmaja 26/1/21
PROJECT GUIDE

M. PADMAJA, M.Sc., M.Tech.,
Assistant Professor
Dept. Of Computer Science Engineering

Y. Satish Kumar 26/1/21
HEAD OF THE DEPARTMENT

Y. SATISH KUMAR, M.C.A., M.Tech.,
HOD & Associate Professor
Dept. Of Computer Science Engineering

2023/02/21 14:17

Ram. ?
EXTERNAL EXAMINER

HAND MOTION

A project report submitted in partial fulfilment of the requirements for the award of the degree of



BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE & ENGINEERING

SUBMITTED BY

M.MOHANTHY KASYAP RAJ	(17L61A0506)
K. CHANDRIKA	(17L61A0539)
B. PREM KUMAR	(17L61A0514)
P. BHAGYA SREE	(17L61A0548)
AVIKSHA.V. SALIAN	(17L61A0543)

Under the esteemed guidance of

Mr.J.S.SRINIVASA RAO M.Tech, (Ph. D)

ASSOCIATE PROFESSOR

DEPARTMENT OF CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CHAITANYA ENGINEERING COLLEGE

ACCREDITED BY NBA

(Approved by J.N.T.U.Kakinada, Approved by A.I.C.T.E.New Delhi)

KOMMADI, VISAKHAPATNAM-530048

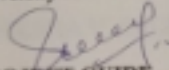
2017-2021

CHAITANYA ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
KOMMADI, VISAKHAPATNAM-530048.,A.P.,INDIA



CERTIFICATE

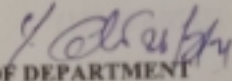
This is to certify that the project titled "HAND MOTION" is the original work done by our team mates "M.MOHANTHY KASYAP RAJ [17L61A0506], K.CHANDRIKA [17L61A0539], B.PREM KUMAR [17L61A0514], P.BHAGYASREE [17L61A0548], AVIKSHA.V.SALIAN [17L61A0543]" partial fulfillment of the requirements for the award of Bachelor of Technology in Computer Science and Engineering during the academic year 2017-2021. The results embodied in the thesis has been verified and are found to be satisfactory. The results embodied in the thesis have not been submitted to any other university for the award of any other degree.


PROJECT GUIDE

Mr.I.S. SRINIVASA RAO, M.Tech., (Ph.D)

ASSOCIATE PROFESSOR

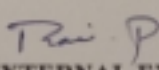
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HEAD OF DEPARTMENT

Mr.Y.SATISHKUMAR,M.C.A, M.Tech

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EXTERNAL EXAMINER

AI CHATBOT

*A project report submitted in partial fulfilment of the requirements for
the degree of*

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE & ENGINEERING

Submitted by

B.ANILKUMAR	[17L61A0546]
K.MEGHANA NAIDU	[17L61A0527]
V.DINESH	[17L61A0544]
D.PREETHI	[17L61A0545]
CH.KARUNA BABU	[17L61A0529]

Under the esteemed Guidance of

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Assistant Professor

Department of CSE



Department of Computer Science and Engineering
CHAITANYA ENGINEERING COLLEGE

Accredited by NBA, Approved by A.I.C.T.E.

(Affiliated to Jawaharlal Nehru Technological University, Kakinada, A.P)

KOMMADI VILLAGE, VISAKHAPATNAM-530048

2017 - 2021

DEPARTMENT
OF
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CHAITANYA ENGINEERING COLLEGE

(Affiliated to Jawaharlal Nehru Technological University, Kakinada, A.P)



CERTIFICATE

This is to certify the project report entitled "AI'CHATBOT" is original work done by " B.ANILKUMAR [17L61A0546],K.MEGHANA NAIDU [17L61A0527] ,V.DINESH [17L61A0544] , D.PREETHI [17L61A0545],CH.KARUNA BABU [17L61A0529]," in partial fulfilment of the requirements for the award of the degree of **Bachelor of Technology in Computer Science** during the academic year 2020-2021. The result presented in thesis has been verified and are found to be satisfactory.

PROJECT GUIDE

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EXTERNAL EXAMINER

**RE-LOCK - A SMART LOCKING SYSTEM
BASED ON FINGER VEIN BIOMETRIC**

A project report submitted in partial fulfilment of the requirements
for the degree of
BACHELOR OF TECHNOLOGY
IN
COMPUTER SCIENCE & ENGINEERING

Submitted by

K.K.SWAPNA PRIYA	[17L61A0566]
S.PRIYANKA	[17L61A0563]
B.MANISHA	[17L61A0593]
MUPENDRA	[17L61A0561]

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CHAITANYA ENGINEERING COLLEGE

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CERTIFICATE

This is to certify the project report entitled "Re-Lock – A smart Locking System using finger vein biometric System" is original work done by "K.K.SWAPNA PRIYA [17L61A0566], S.PRIYANKA [17L61A0563], B.MANISHA [17L61A0593] MUPENDRA[17L61A0561]" in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology in Computer Science during the academic year 2020-2021. The result presented in thesis has been verified and are found to be satisfactory.

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HOD & Associate Professor
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EXTERNAL EXAMINER

UTILIZATION OF SUGARCANE BAGASSE AS AN ADMIXTURE IN CONCRETE

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

BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

SUBMITTED BY

**R. HARSHAVARDHAN (18L65A0117)
SK. BASHEER (17L61A0103)
J. SURYA TEJA (17L61A0107)**

**SK. MONISHA (18L65A0105)
CH SURYA NARAYANA PADAL (18L65A0112)
K. CHANDRADEEP (18L65A0121)**

Under the guidance of

Ms. A.UMA MAHESWARI

ASSISTANT PROFESSOR & HOD



**DEPARTMENT OF CIVIL ENGINEERING
CHAITANYA ENGINEERING COLLEGE
(Affiliated to J.N.T.U, Kakinada)
VISA KHAPTAM-530048**

2017-2021

CERTIFICATE

This is to certify that the project report entitled "UTILIZATION OF SUGARCANE BAGASSE AS AN ADMIXTURE IN CONCRETE" has been submitted to the Department of Civil Engineering, Chaitanya Engineering College, Kommadi, Viskalapatnam, by E.HANSEAVARDHAN (18L65A0117), SK.BASHEER (17L61A0103), JSURYA TEJA (17L62A0107), SK.MONISHA (18L65A0103), CH.SURYANARAYANA PADAL (18L65A0112), K.CHANDRADEEP (18L65A0121), in partial fulfillment for the award of Bachelor of Technology in Civil Engineering is a record of bonafied work carried out by them under our guidance and supervision. The results embodied in this project have not been submitted to any University or Institute for the award of any degree.

A. Uma
PROJECT GUIDE

Ms. A.UMA MAHESWARI

Asst. Professor

Dept. of Civil Engineering.

A. Uma
HEAD OF THE DEPARTMENT

Ms. A.UMA MAHESWARI

Asst. professor

Dept. of Civil Engineering.

EXTERNAL EXAMINER:

G. Palani

COMPARISON OF PROPERTIES OF GEOPOLYMER CONCRETE WITH CONVENTIONAL CONCRETE

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

BACHELOR OF TECHNOLOGY

IN

CIVIL ENGINEERING

SUBMITTED BY

P. KUSUMA (186H5A0102)
K. ANUSHA (18L65A0104)
G.VENKATESWARA
(18L65A0114)

Y. PREM ((18L65A0115)
V.ANIL (18L65A0118)
REDDY S. RAVI (18L65A0122)

Under the guidance of

Mr. ELURI VINAY

ASSISTANT PROFESSOR (M Tech)



**DEPARTMENT OF CIVIL ENGINEERING
CHAITANYA ENGINEERING COLLEGE
(Affiliated to J.N.T.U, Kakinada)**

VISAKHAPTAM-530048

2018-2021

CERTIFICATE

This is to certify that the project report entitled "COMPARISON OF PROPERTIES OF GEOPOLYMER CONCRETE WITH CONVENTIONAL CONCRETE" has been submitted to the Department of Civil Engineering, Chaitanya Engineering College, Visakhapatnam, by V.ANIL [18L65A0118], in partial fulfilment for the award of Bachelor of Technology in Civil Engineering is a record of bonafied work carried out by them under our guidance and supervision. The results embodied in this project have not been submitted to any University or Institute for the award of any degree.

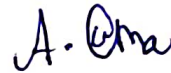


PROJECT GUIDE

Mr. ELURI VINAY (M. Tech)

Asst. Professor

Dept. of Civil Engineering.



HEAD OF THE DEPARTMENT

Ms. A.UMA MAHESWARI

Asst. Professor

Dept. of Civil Engineering.

EXTERNAL EXAMINER:



STUDY OF PARTIAL REPLACEMENT OF NATURAL AGGREGATE BY RECYCLED AGGREGATE ON CONCRETE

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

BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

SUBMITTED BY

**B. NAIDU BABU (18L65A0113)
B.SWATHI (18L65A0101)
R. SIVA (18L65A0108)**

**K. JAGAN (18L65A0116)
K. SAI SATISH (18L65A0124)
S. JADIDYA (186H5A0101)**

Under the guidance of

Ms. A.UMA MAHESWARI

ASSISTANT PROFESSOR & HOD





**DEPARTMENT OF CIVIL ENGINEERING
CHAITANYA ENGINEERING COLLEGE
(Affiliated to J.N.T.U, Kakinada)
VISAKHAPTNAM-530048**

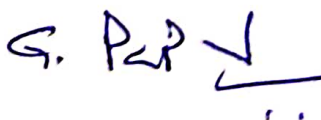
2018-2021

CERTIFICATE

This is to certify that the project report entitled "STUDY OF PARTIAL REPLACEMENT OF NATURAL AGGREGATE BY RECYCLED AGGREGATE ON CONCRETE" has been submitted to the Department of Civil Engineering, Chaitanya Engineering College, Kommadi, Visakhapatnam, by B. NAIDU BABU (18L65A0113), B. SWATHI (18L65A0101), R. SIVA (18L65A0108), K. JAGAN (18L65A0116), K. SAI SATISH REDDY (18L65A0124), S. JADIDYA (186H5A0101), in partial fulfilment for the award of Bachelor of Technology in Civil Engineering is a record of bonafied work carried out by them under our guidance and supervision. The results embodied in this project have not been submitted to any University or Institute for the award of any degree.


PROJECT GUIDE
Ms. A.UMA MAHESWARI
Asst. Professor
Dept. of Civil Engineering.


HEAD OF THE DEPARTMENT
Ms. A.UMA MAHESWARI
Asst. professor
Dept. of Civil Engineering.

EXTERNAL EXAMINER: 

ESTIMATION OF RESIDENTIAL BUILDING

A project report submitted in the partial fulfilment of requirement for the award of the degree of

BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

SUBMITTED BY

B. VAMSI KRISHNA	18L65A0106
D. SRI HARI	18L65A0109
N. PRAVEEN	17L61A0105
A. HARISH	18L65A0120
B. KANAKA SAI SURYA ROHIT	18L65A0128
P. MANOJ KUMAR	18L65A0107

Under the guidance of

Mr. N. V. S. G ANIL KUMAR

ASSISTANT PROFESSOR



DEPARTMENT OF CIVIL ENGINEERING

CHAITANYA ENGINEERING COLLEGE

(Affiliated to J.N.T.U, Kakinada) VISAKHAPTAM-530048

CERTIFICATE

This is to certify that the project report entitled "ESTIMATION OF RESIDENTIAL BUILDING" has been submitted to the Department of Civil Engineering, Chaitanya Engineering College, Visakhapatnam, by B. VAMSI KRISHNA (18L65A0106), D. SRI HARI (18L65A0109), A. HARISH (18L65A0120), P.MANOJ KUMAR (18L65A0107), N.PRAVEEN (17L61A0105) B. KANAKA SAI SURYA ROHIT (18L65A0128) in partial fulfilment for the award of Bachelor of Technology in Civil Engineering is a record of bonafide work carried out by them under our guidance and supervision. The results embodied in this project have not been submitted to any University or Institute for the award of any degree.


PROJECT GUIDE

Mr. N. V. S. G. ANIL KUMAR

Asst. Professor

Dept. of Civil Engineering.


HEAD OF THE DEPARTMENT

Ms. A. UMA MAHESWARI

Asst. professor

Dept. of Civil Engineering.

EXTERNAL EXAMINER:

