



Jyothi Engineering College

NAAC Accredited College with NBA Accredited Programmes*

Approved by AICTE & affiliated to APJ Abdul Kalam Technological University

A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETTIKATTIRI P.O., CHERUTHURUTHY, THRISSUR. PIN-679531 PH : +91- 4884-259000, 274423 FAX : 04884-274777



NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programme in Civil Engineering valid for the academic years 2019-2022.

BIKERS UTILITY GLOVES

A Project Report

Submitted by

MOHAMMED THANVEER V B	JEC16CS082
NOYAL PIYOOS N	JEC16CS088
ROHITH H NATH	JEC16CS098
VIBIN GOKUL V	JEC16CS121

to

APJ Abdul Kalam Technological University

in partial fulfillment of the requirements for the award of the Degree of

Bachelor of Technology (B.Tech)

in

COMPUTER SCIENCE ENGINEERING

Under the guidance of

Mrs. NINU FRANCIS



CREATING TECHNOLOGY
LEADERS OF TOMORROW
ESTD 2002

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

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April 2020

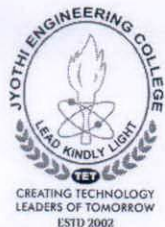
Dr. S. K. KALAYANMAL

M.Tech, MCA, M.Sc, M.Phil, B.Ed

Ph.D (Computer Science), Ph.D (Maths)

PRINCIPAL

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DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING



CERTIFICATE

This is to certify that the report entitled " VMD BASED SLEEP APNEA DETECTION USING PPG SIGNAL " submitted by NIMISHA TONY(JEC16EC063), RADHIKA(JEC16EC073), SHAMSEENA T. AJEC16EC087), SRIFRAG V V(JEC16EC094) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electronics & Communication Engineering is a bonafide work of the students mentioned by her under my/our guidance and supervision. This work has not been submitted to any other University or Institute for any purpose.

For *Neethu*
Mr. Rijo P C
Assistant Professor
Internal Supervisor



Joshy
Dr. Joshy Therattil
Associate Professor
Head of the Department

THANKAL
M.Tech, MCA, M.Phil, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL



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SOFTWARE TO ANALYZE THE PHYSICAL CONDITION OF THE ATHLETES USING SEMG

A Project Report

Submitted by

LINO LOUIS	JEC16CS072
TENWIN JAMES.K	JEC16CS118
VARUN VINCENT	JEC16CS120
VISHNURAJ T	LJEC16CS132

to

APJ Abdul Kalam Technological University

in partial fulfillment of the requirements for the award of the Degree of

Bachelor of Technology (B.Tech)

in

COMPUTER SCIENCE ENGINEERING

Under the guidance of

MR. ANEESH CHANDRAN



CREATING TECHNOLOGY
LEADERS OF TOMORROW
ESTD 2002

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

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August 2020

Annals

Dr. SUNNY JOSEPH KALAYATANKAL
M.Sc., M.Phil., Ph.D.
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College
P.O. - 679531



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www.jecc.ac.in | E-mail: info@jecc.ac.in

CERTIFICATE

This is to certify that Design Project report entitled **SUPERCAPACITOR BATTERY BANK** is being submitted by **BASITH ALI(JEC18MC013)**, **JOTHIS R DAAS(JEC18MC022)**, **MUHAMMED ZEESHAN P K(JEC18MC028)**, **ROHAN GEORGE JOHN(JEC18MC032)** in partial fulfilment of the requirements for the award of degree of Bachelor of Technology in Mechatronics Engineering under the APJ Abdul Kalam Technological University.

Dr. Kartik C
Associate Professor, MR
Project Guide

Dr. Vivek Lukose
HOD, MR

Place: Cheruthurthy

Date: *

Dr. SUNNY JOSEPH KALAYATHIANKAL
M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Engineering College



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Jyothi Hills, Pandal Road,
Vetikattiri P.O., Cheruthuruthy, Thrissur,
Kerala 679531



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A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR
www.jec.ac.in | E-mail: info@jec.ac.in

Audio Based Drone Detection and Identification Using Deep Learning

INTERIM PROJECT REPORT

AKSHAYA RAJ (JEC16CS006)
ALWIN JOSEPH (JEC16CS014)
ARCHANA VENUGOPAL (JEC16CS031)
JACOB B ALAPATT (JEC16CS053)

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY (B.Tech)

in

COMPUTER SCIENCE & ENGINEERING

of

A P J ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Under the guidance of

Dr. VINITH R



DECEMBER 2019

Amrith
Dr. SUNNY JOSEPH KALAYATHANKAL
M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College
Cheruthuruthy P.O. - 679 531

Department of Computer Science & Engineering



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JYOTHI HILLS, VETIKATTIRI P.O, CHERUTHURUTHY, THRISSUR. PIN-679531 PH : +91- 4884-259000, 274423 FAX : 04884-274777



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DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING



CREATING TECHNOLOGY
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ESTD 2002

CERTIFICATE

This is to certify that the report entitled " SECURE ON-CHIP COMPARISON " submitted by AMITH T V(JEC16EC011), ANJANA K G(JEC16EC013), CHITHRA A B(JEC16EC030), GREESHMA K(JEC16EC041) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in Electronics & Communication Engineering is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Ms.Shiny M I

Associate Professor
Internal Supervisor



Dr. Jose P. Therattil

Professor
Head of the Department

Remarks
M.Tech, MCA, M.Sc., M.Phil, B.A.
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL



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DEPARTMENT OF MECHANICAL ENGINEERING



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ESTD 2002

CERTIFICATE

This is to certify that the report entitled "STRATEGY TO IMPROVE THE EFFICIENCY OF SOLAR AIR HEATER:DESIGN AND ANALYSIS" submitted by ADARSH SUNIL(JEC17ME006), AKHIL KRISHNA K(JEC17ME011), AKHIL RAJ.K.R(JEC17ME012), AMAL SHAJI(JEC17ME020) to the APJ Abdul Kalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Mechanical Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

Ms. Nisha Sherief
Assistant Professor
Internal Supervisor

Dr. Biju P.L.
Professor
Head of the Department

External Examiner

Dr. SUNNY JOSEPH KALAYTHANKAL
M.Tech, MCA, M.Sc, M.Phil, B.Ed



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SOUTHERN RAILWAY WORKSHOP TRAINING CENTRE LOCO WORKS, PERAMBUR CHENNAI - 600 023

We are pleased to award this

Certificate

to

Mr Abel Tomy

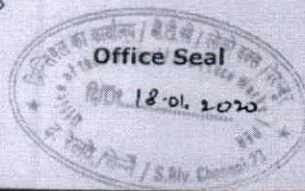
Final Year B.Tech (Mechanical Engineering)
Jyothi Engineering College
Cheruthuruthy, Thrissur - 679 531

on successful completion of his Project work Titled as
"Railway Wheel Axle House Bearing Shrink
Fit Assistance Trolley"
in this Establishment

from 06.01.2020 to 18.01.2020

His conduct and character during this period were Good

Place: Chennai - 600 023
Date : 18.01.2020



Amal 18/1/20
Principal/WTC &
Works Manager
Loco works, Perambur

Principal
Basic Training Centre
Loco Works, Perambur, S.R.

Certificate No. PW/2020 / 001

Dr. SUNNY JOSEPH KALAYATHANKAL

M.Tech, MCA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)

PRINCIPAL

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SOUTHERN RAILWAY

WORKSHOP TRAINING CENTRE
LOCO WORKS, PERAMBUR
CHENNAI – 600 023

We are pleased to award this

Certificate

to

Mr Jeswin Jaison

Final Year B.Tech (Mechanical Engineering)
Jyothi Engineering College
Cheruthuruthy, Thrissur - 679 531

on successful completion of his Project work Titled as
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Fit Assistance Trolley"

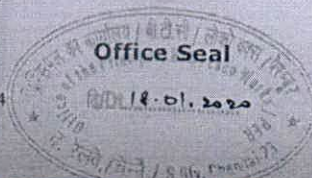
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[Signature]
18/1/20
Principal/WTC &
Works Manager
Loco works, Perambur

Principal
BASIC TRAINING CENTRE
LOCO WORKS, PERAMBUR
INDIAN RAILWAYS

KAL

PRINCIPAL



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DEPARTMENT OF CIVIL ENGINEERING JYOTHI ENGINEERING COLLEGE, CHERUTHURUTHY

THRISSUR 679 531



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LEADERS OF TOMORROW

CERTIFICATE

This is to certify that the report entitled DESIGN OF FLYOVER AT PUDUKKAD submitted by ANJALI BOSE A (JEC16CE012) , ASNA P (JEC16CE016) , FREDIN JOY K (LJEC16CE063) , GEETHU K S (LJEC16CE064) , to the APJ AbdulKalam Technological University in partial fulfillment of the requirements for the award of the Degree in Bachelor of Technology in **Civil Engineering** is a bonafide record of the project work carried out by them under my/our guidance and supervision .This report in any form has not been submitted to any other University or Institute for any purpose.

Assit Prof.Mr VISMAY
NAIR

Project Guide

Sunny
Dr. SUNNY JOSEPH KALAYATHANKAL
M.Tech, MBA, M.Sc, M.Phil, B.Ed
Ph.D (Computer Science), Ph.D (Maths)
PRINCIPAL
Jyothi Engineering College
Cheruthuruthy, P.O. 679531

Prof. B. RATHISH

Head of the Department