

Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [babacivilhod@gmail.com](mailto:babacivilhod@gmail.com)  
Admission code: BABA



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811

University Code: NR


## BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE New Delhi, NAAC Accredited, Affiliated to JNTU Kakinada, ISO 9001-2015 Certified)  
Bakkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### DEPARTMENT OF CIVIL ENGINEERING

#### List of students for A.Y:2020-21(Project work)

Sl. No.	Roll Number	Name of the student
1	16NR1A0101	AMARTHALURI PRAVEEN KUMAR
2	17NR1A0101	ALLANGI SOMAKESAVARAO
3	17NR1A0102	ANISSETTY SATYA DHARANESH
4	17NR1A0103	BOYALA NAVEEN
5	17NR1A0106	DUKKORI ASHOK KUMAR
6	17NR1A0107	JANNADA VAMSI
7	17NR1A0108	KAILA KAMALAKARA RAO
8	17NR1A0109	KARJA SATYAKONDA
9	17NR1A0110	LAKE RAMADEVI
10	17NR1A0111	MARICHE SAI CHANDRA KOUSIK
11	17NR1A0112	MARRI AJAY KUMAR
12	17NR1A0113	MUSIDIPALLI NAVEEN
13	17NR1A0115	PALLA SAI HARIKA
14	17NR1A0116	PANGI ROSHAN KUMAR
15	17NR1A0118	PILAKA RAHUL
16	17NR1A0119	ROUTHU SIMHACHALAM
17	17NR1A0120	SADALA ESWARA REDDY
18	17NR1A0121	SAVARATOTA SANKARA RAO
19	17NR1A0123	TALAGANA RAJINI
20	17NR1A0124	TOMPALA SRI LAKSHMI
21	17NR1A0125	VANTHALA DAVEEDU
22	17NR1A0127	YEJALA DEVI
23	17NR1A0128	YERIKI SIREESHA
24	17NR1A0129	YERNENA TIRUMALA RAO
25	18NR5A0101	BAGGAM GEETHANAND
26	18NR5A0103	DORA SOMESH
27	18NR5A0105	KOSIREDDI PAVAN KUMAR
28	18NR5A0106	KANDREGULA SIVAGANESH

  
**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P) -  
Visakhapatnam

Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [babacivilhod@gmail.com](mailto:babacivilhod@gmail.com)  
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29	18NR5A0108	KOPPALA ROBERT
30	18NR5A0110	MADDULA MAHENDRA
31	18NR5A0112	PANGI BALAJI SAI
32	18NR5A0116	PUTHIKA BHAVANA
33	18NR5A0117	SURAVARAPU JAGADEESH
34	18NR5A0118	TEEDA GANESH
35	18NR5A0119	UMMIDI NAVEEN BABU
36	18NR5A0120	VANUMU HARISH
37	18NR5A0121	VENKATA SAI SRI HARI ATHOTA
38	18NR5A0122	VEPADA KIRAN
39	18NR5A0126	RELLA VENKATESH

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## CERTIFICATE

This is to certify that this is the bona fide record of the project entitled **CELLULAR LIGHT WEIGHT CONCRETE IN CONSTRUCTIONS** carried out by **LAKE RAMADEVI (17NR1A0110), ROUTHU SIMHACHALAM (17NR1A0119), ALLANGI SOMAKESAVARAO (17NR1A0101), DORA SOMESH(18NR5A0103), RELLA VENKATESH (18NR5A0126)** of final year B.Tech (2017-2021) in partial fulfilment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**. The result embodied in this project has not been submitted to any other university or institute for the award of degree or diploma.

  
Head of the Department

Dr.N. Victor Babu M.E, Ph.D FIE

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

  
Project Guide

Mrs.Simpa, M.Tech, Assistant

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A.P) An ISO: 9001-2008 Certified Institution  
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## CERTIFICATE

This is to certify that this is the bona fide record of the project entitled **TRAFFIC VOLUME STUDY OF CARSHED JUNCTION AT VISAKHAPATNAM** carried out by **YEJJALA DEVI (17NR1A0127), SAVARATOTA SANKARA RAO(17NR1A0121), BOYALA NAVEEN(17NR1A0103), KOPPALA ROBERT(18NR5A0108)** of final year B.Tech (2017-2021) in partial fulfilment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**. The result embodied in this project has not been submitted to any other university or institute for the award of degree or diploma.

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BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

Head of the Department

Dr.N. Victor Babu M.E, Ph.D FIE

Project Guide

Mr.M.Mohan, Asst. Professor

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A.P) An ISO: 9001-2008 Certified Institution  
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## CERTIFICATE

This is to certify that this is the bona fide record of the project entitled **TRAFFIC VOLUME STUDY OF HANUMANTUWAKA JUNCTION AT VISAKHAPATNAM** carried out by **SADALA ESWARA REDDY (18NR5A0106), BAGGAM GEETHANAND (18NR5A0101), TALAGANA RAJINI (17NR1A0123), PANGI ROSHAN KUMAR (17NR1A0116) , UMMIDI NAVEEN BABU (18NR5A0119)** of final year B.Tech (2017-2021) in partial fulfilment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**. The result embodied in this project has not been submitted to any other university or institute for the award of degree or diploma.

  
Head of the Department

Dr.N. Victor Babu M.E, Ph.D FIE

PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

  
Project Guide

Mr.M.Mohan, Asst. Professor

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A.P) An ISO: 9001-2008 Certified Institution  
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## CERTIFICATE

This is to certify that this is the bona fide record of the project entitled **3-D PLANNING, INTERIOR AND EXTERIOR DESIGN OF G+4 RESIDENTIAL BUILDING** carried out by **KANDREGULA SIVAGANESH (18NR5A0106), VEPADA KIRAN (18NR5A0122), MUSIDIPALLI NAVEEN (17NR1A0113), JANNADA VAMSI (17NR1A0107), PUTHIKA BHAVANA (18NR5A0116)** of final year B.Tech (2017-2021) in partial fulfilment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**. The result embodied in this project has not been submitted to any other university or institute for the award of degree or diploma.

Head of the Department

Dr.N. Victor Babu M.E, Ph.D, FIE

PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BARKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA

Project Guide

Mr.M.Mohan, Asst. Professor

# BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

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A.P) An ISO: 9001-2008 Certified Institution  
P.M.PALEM, Madhurawada, Visakhapatnam-530048



## CERTIFICATE

This is to certify that this is the bona fide record of the project entitled **PARTIAL REPLACEMENT OF CEMENT AND SAND WITH ROBOSAND ,MICRO SILICA** carried out by **TOMPALA SRI LAKSHMI (17NR1A0124), YERIKI SIREESHA (17NR1A0128), PILAKA RAHUL (17NR1A0118), PALLA SAI HARIKA (17NR1A0115) , TEEDA GANESH (18NR5A0118)** of final year B.Tech (2017-2021) in partial fulfilment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**.The result embodied in this project has not been submitted to any other university or institute for the award of degree or diploma.

  
Head of the Department

Dr.N. Victor Babu

  
PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BARKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

  
Project Guide

Mr. M. Mohan, Asst. Professor

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A.P) An ISO: 9001-2008 Certified Institution  
P.M.PALEM, Madhurawada, Visakhapatnam-530048



## CERTIFICATE

This is to certify that this is the bona fide record of the project entitled **TRAFFIC VOLUME STUDY OF CARSHED JUNCTION AT VISAKHAPATNAM** carried out by **YEJJALA DEVI (17NR1A0127), SAVARATOTA SANKARA RAO(17NR1A0121), BOYALA NAVEEN(17NR1A0103), KOPPALA ROBERT(18NR5A0108)** of final year B.Tech (2017-2021) in partial fulfilment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**.The result embodied in this project has not been submitted to any other university or institute for the award of degree or diploma.

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
P.M.PALEM, Madhurawada, Visakhapatnam-530048  
Head of the Department  
Dr.N. Victor Babu M.E, Ph.D FIE

  
Project Guide  
Mr.M.Mohan, Asst. Professor



# BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

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ISO: 9001-2008 Certified Institution

P.M.PALEM, Madhurawada, Visakhapatnam-530048



## CERTIFICATE


This is to certify that this is the bona fide record of the project entitled "USE OF PLASTIC WASTE IN BITUMINOUS ROAD CONSTRUCTION" carried out by M.MAHENDRA (Reg. No.18NR5A0110) V.HARISH (Reg. No. 18NR5A0120) P.BALAGI SAI (Reg.No.18NR5A0112)D.ASHOK KUMAR (17NR1A0106) K.SATYAKONDA (Reg.No.17NR1A0109) of final year B.Tech (2017-2021) in partial fulfilment of the requirements for the award of Degree of BACHELOR OF TECHNOLOGY in CIVIL ENGINEERING from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES. The result embodied in this project has not been submitted to any other university or institute for the award of degree or diploma.

  
Head of the Department

Dr.N. Victor Babu M.E, Ph.D FIE

  
Project Guide

Dr.N. Victor Babu M.E, Ph.D FIE

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
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P.M.PALEM, Madhurawada, Visakhapatnam-530048



## CERTIFICATE

This is to certify that this is the bona fide record of the project entitled **MANUFACTUREING OF BRICK WITH RICE HUSK ASH** carried out by **KAILAKAMALAKARA RAO (17NR1A0125), ROUTHU SIMHACHALAM (17NR1A0119), ALLANGI SOMAKESAVARAO (17NR1A0101), ANISETTY SATYA DHARANESH (17NR1A0108), KOSIREDDI PAVAN KUMAR (17NR1A0102), VANTHALA DAVEEDU(18NR5A0105)** of final year B.Tech (2017-2021) in partial fulfilment of the requirements for the award of Degree of **BACHELOR OF TECHNOLOGY** in **CIVIL ENGINEERING** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**. The result embodied in this project has not been submitted to any other university or institute for the award of degree or diploma.

Head of the Department

Dr.N. Victor Babu M.E, Ph.D FIE

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
RAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530048

Project Guide

Mrs.Simpa, M.Tech, Asst. Professor

Website: www.bitsvizag.com  
Email: [babaeeehod@gmail.com](mailto:babaeeehod@gmail.com)  
Admission code: BABA



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR

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Balkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### Students list for A.Y 2020-21(Project work)

Sl. No	Roll Number	Name of the student
1	17NR1A0201	BODDEPALLI ALEKHYA
2	17NR1A0202	BOTU AISWARYA
3	17NR1A0203	DUSI LATHA
4	17NR1A0204	GORLE DINESH KUMAR
5	17NR1A0205	JANNELA SRAVANI
6	17NR1A0206	JOGI DEVI
7	17NR1A0207	KANITHI LAVANYA
8	17NR1A0208	KURAMANA STEPHEN PAUL
9	17NR1A0210	MANDALA VENKATESH
10	17NR1A0212	MATCHA NAGAMANI
11	17NR1A0213	MUKALLA HEMANI
12	17NR1A0214	PANGI DASARADHI
13	17NR1A0215	PERISETTI MOHAN KAMAL SAI
14	17NR1A0216	PILLA NAVEEN
15	17NR1A0217	POTNURU GUNASEKHAR
16	17NR1A0218	RAVALAVALASA NAGESWARA RAO
17	17NR1A0220	SIRAGAM PUSHPANJALI
18	17NR1A0221	SUGANDHAM LOKESH VEERABHADRACHARI
19	18NR5A0201	AKULA MADHURI
20	18NR5A0202	ATTADA PAVAN KALYAN
21	18NR5A0203	ATTANDI PRADEEP CHANDRA
22	18NR5A0204	BAGGU SRINIVASA RAO
23	18NR5A0205	BASARAMANI SOMA SUNDHAR PARAMESH
24	18NR5A0208	CHINTAPALLI CHANDRA MOULI
25	18NR5A0209	CHINTU BHASKARA RAO
26	18NR5A0211	DUNGA SIVA KUMAR
27	18NR5A0213	GEDELA MAHENDRA
28	18NR5A0214	GUDLA SIVA CHAKRAVARTHI
29	18NR5A0215	GUMMALLA PAVAN KUMAR
30	18NR5A0216	JANIPALLI CHAKRADHAR
31	18NR5A0218	KILUGU NANAK SAI
32	18NR5A0219	KINTHADA CHANDRA SEKHAR GANESH

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Baba Institute of Technology and Sciences  
Balkannapalem (V), Madhurawada (P)  
Visakhapatnam

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Email: [babaeeehod@gmail.com](mailto:babaeeehod@gmail.com)  
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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

33	18NR5A0220	KOMMINENI SAROJANAMMA
34	18NR5A0221	KONNA PREMA KUMAR
35	18NR5A0222	KOOCHETTI KRISHNA
36	18NR5A0223	KOSANA ANSIKA
37	18NR5A0224	LANDA SUNIL
38	18NR5A0225	MARRA SURESHKUMAR
39	18NR5A0226	MARUTHI OMKAR VINOD KUMAR
40	18NR5A0227	MUKALA BHARGAVA
41	18NR5A0228	NAIDU PARAMESWARARAO
42	18NR5A0229	NEELAM VENU GOPAL NAIDU
43	18NR5A0230	PALLULA RAJA RAO
44	18NR5A0232	PITCHUKA SAI
45	18NR5A0233	PITCHUKA VIJAY KUMAR
46	18NR5A0234	RONGALI JITHENDRA
47	18NR5A0235	SEERA HYMAVATHI
48	18NR5A0236	SEERAM BHARGAVI
49	18NR5A0237	TOTA YUVA RAJU
50	18NR5A0238	VANABANGI MUKESH MANIKANTA DORA
51	18NR5A0239	VARADI GANESH
52	18NR5A0240	YERIPILLI NOOKARAJU
53	18NR5A0241	BASANTH KUMAR GANIVADA
54	18NR5A0242	GANDI GOVINDA

  
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Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# **SOLAR PV AND PIEZO TRANSDUCER BASED MOBILE BATTERY CHARGER**

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

**BACHELOR OF TECHNOLOGY**

In

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

**ATTADA PAVAN KALYAN**

**18NR5A0202**

**GANIVADA BASANTH KUMAR**

**18NR5A0241**

**BODDEPALLI ALEKHYA**

**17NR1A0201**

**SIRAGAM PUSHPANJALI**

**17NR1A0220**

**PITCHUKA VIJAY KUMAR**

**18NR5A0233**

Under the Guidance of  
**Mr.M.Sai Ganesh M.E, (Ph.D)**  
Assistant Professor (EEE)




**DEPARTMENT OF ELECTRICAL & ELECTRONICS  
ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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University, Kakinada, Accredited by NAAC, An ISO 9001-2008 Certified Institution

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**2017-2021**

  
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**DEPARTMENT OF ELECTRICAL & ELECTRONICS**  
**ENGINEERING VISAKHAPATNAM-530048**




**CERTIFICATE**

This is to certify that the thesis work entitled **“SOLAR PV AND PIEZO TRANSDUCER  
BASED MOBILE BATTERY CHARGER”** is submitted by Attada Pavan Kalyan  
(18NR5A0202), Ganivada Basanth Kumar(18NR5A0241) ,Boddepalli Alekhya (17NR1A0201),  
Siragam Pushpanjali (17NR1A0220),Pitchuka Vijay Kumar (18NR5A0233), partial fulfilment of  
the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in  
**ELECTRICAL & ELECTRONICS ENGINEERING** from **Jawaharlal Nehru Technological  
University, Kakinada** is a record of bonafide work carried out by them under my guidance and  
supervision.

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


**PROJECT SUPERVISOR**

  
**Mr. M. SAI GANESH**  
Assistant Professor  
Department of EEE

**HEAD OF THE DEPARTMENT**

  
**Mr. M. SAI GANESH**  
Head of Department of EEE

**M. SAI GANESH** ME (Ph.D)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

  
**PRINCIPAL**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530048

# POWER GENERATION BY PLASTIC ROADS

*A thesis submitted in the partial fulfillment of the requirements for the award of the degree  
of*

## BACHELOR OF TECHNOLOGY

IN

## ELECTRICAL AND ELECTRONICS ENGINEERING

By

CHINTU.BHASKARA RAO

Reg.No:18NR5A0209

POTNURU.GUNASEKHAR

Reg.No:17NR1A0217

GUDLA.SIVACHAKRAVARTHI

Reg.No:18NR5A0214

DUSILATHA

Reg.No:17NR1A0203

ATTANDI.PRADEEP CHANDRA

Reg.No:18NR5A0203

Under the Guidance of  
**Mr.E.ANIL KUMAR, MTech,(Ph.D.)**  
Assistant Professor EEE



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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P.M. Palem, Visakhapatnam, 530048

2017 - 2021

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BANKANNAPALEM, P.M. PALEM,  
MAHARASHTRA  
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## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



VISAKHAPATNAM-530048

### CERTIFICATE

*This is to certify that the thesis work entitled "POWER GENERATION BY PLASTIC ROADS" submitted by CH.BHASKARARAO(18NR5A0209),P.GUNASEKHAR(17NR1A0217),G.SIVACHAKRA VARTHI(18NR5A0214),D.LATHA(17NR1A0203),A.PRADEEPCHANDRA(18NR5A0203). in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING from Jawaharlal Nehru Technological University, Kakinada is a record of out by them under my guidance and supervision. The results embodied in this thesis have not been submitted oany other University or Institute for the award of any degree or diploma.*

PROJECT SUPERVISOR

Mr. E.ANILKUMAR

Assistant Professor EEE

HEAD OF THE DEPARTMENT

Mr. M.SAIGANESH

M. SAI GANESH ME (PhD)  
Assistant Professor

Head of Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Science  
VISAKHAPATNAM

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNA PALEM (V), P.M. PALEM,  
MACHILIPATNAM  
VISAKHAPATNAM



# COVID PREVENTIVE ELECTRIC SMART SWITCH

*A thesis submitted in the partial fulfilment of the requirements for the award of the degree of*  
**BACHELOR OF TECHNOLOGY**

in

## **ELECTRICAL & ELECTRONICS ENGINEERING**

By

<b>KOOCHETTI KRISHNA</b>	<b>18NR5A0222</b>
<b>BAGGU SRINIVASA RAO</b>	<b>18NR5A0204</b>
<b>PERISETTI MOHAN KAMAL SAI</b>	<b>17NR1A0215</b>
<b>KOSANA ANSIKA</b>	<b>18NR5A0223</b>
<b>YERIPILLI NOOKARAJU</b>	<b>18NR5A0240</b>

Under the Guidance of  
**Mr. M.V.S PREM SAGAR, M.Tech**  
Assistant Professor  
Department of EEE




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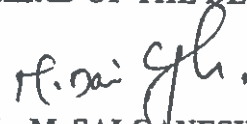
*This is to certify that the thesis work entitled "Covid Preventive Electric Smart Switch" is submitted by Koochetti Krishna (18NR5A0222), Baggu Srinivasa Rao (18NR5A0204), Perisetti Mohan Kamal Sai (17NR1A0215), Kosana Ansika (18NR5A0223), Yeripilli Nookaraju (18NR5A0240) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL & ELECTRONICS ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision.*


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**PROJECT SUPERVISOR**

  
**Mr. M.V.S PREM SAGAR, M. Tech**  
Assistant Professor  
Department of EEE

**HEAD OF THE DEPARTMENT**

  
**Mr. M. SAI GANESH, M.E, (Ph. D)**  
Head of Department  
Department of EEE

  
**PRINCIPAL**  
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**BAKKANAPALEM (V) P.M. PALEM,**  
**VISAKHAPATNAM**

**M. SAI GANESH** M.E. (Ph.D)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

**DESIGN AND SIMULATION OF SINGLE STAGE BOOST-BOOST  
CONVERTER FOR POWER QUALITY IMPROVEMENT**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRICAL & ELECTRONICS ENGINEERING**

**By**

<b>B.ISWARYA</b>	<b>17NR1A0202</b>
<b>J.DEVI</b>	<b>17NR1A0206</b>
<b>A.MADHURI</b>	<b>18NR5A0201</b>
<b>V.GANESH</b>	<b>18NR5A0239</b>
<b>M.OMKAR VINOD KUMAR</b>	<b>18NR5A0226</b>
<b>K.GANESH</b>	<b>18NR5A0219</b>

**Under the Guidance of  
Mr. CH. NAYAK BHUKYA, M.Tech  
Assistant Professor**



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ENGINEERING**

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**P.M.Palem, Madhurawada, Visakhapatnam, 530048**

**2017-2021**

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MADHURAWADA  
VISAKHAPATNAM - 530018

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## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING VISAKHAPATNAM-530048



### CERTIFICATE

This is to certify that the thesis entitled "Design and Simulation of Single Stage Boost-Boost Converter for Power Quality Improvement" submitted by B.ISWARYA (17NR1A0202) J.DEVI (17NR1A0206) A.MADHURI (18NR5A0201) V.GANESH (18NR5A0239) M.OMKAR VINOD KUMAR (18NR5A0226) K.GANESH (18NR5A0219) in Partial fulfilment of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of research work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.

*The Thesis which is based on candidates' own work; have not submitted elsewhere for a degree/diploma.*

  
PROJECT SUPERVISOR

Mr. CH. NAYAK BHUKYA  
Assistant Professor  
Department of EEE

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURU WADA  
VISAKHAPATNAM - 530 048

  
HEAD OF THE DEPARTMENT

Mr. M. SAI GANESH  
Head of the Department  
Department of EEE

M. SAI GANESH ME. (Ph.D)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

# **DUAL AXIS SOLAR POWER TRACKING SYSTEM**

*A Thesis submitted in partial fulfillment of the requirements for the award of the degree*

*of*

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

*By*

<b>N.VENU GOPAL NAIDU</b>	<b>(18NR5A0229)</b>
<b>B S S PARAMESH</b>	<b>(18NR5A0205)</b>
<b>G.MAHENDRA</b>	<b>(18NR5A0213)</b>
<b>G.DINESH KUMAR</b>	<b>(17NR1A0204)</b>
<b>SEERA HYMAVATHI</b>	<b>(18NR5A0235)</b>
<b>NANAK SAI KILUGU</b>	<b>(18NR5A0218)</b>

**Under the guidance of  
Mr.K.Venkateswara Rao M.Tech  
Asst. Professor  
Department of EEE**



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**2017-2021**

  
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VISAKHAPATNAM - 530048

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**VISAKHAPATNAM – 530048**



**CERTIFICATE**

This is to certify that the thesis entitled "Dual Axis Solar Power Tracking System" submitted by **N.VENU GOPAL NAIDU (18NR5A0229) B S S PARAMESH (18NR5A0205) G.MAHENDRA (18NR5A0213) G.DINESH KUMAR (17NR1A0204) SEERA HYMAVATHI (18NR5A0235) NANAK SAI KILUGU (18NR5A0218)** in Partial fulfillment

Of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of research work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.

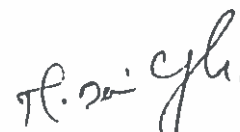
The Thesis which is based on candidates' own work; have not submitted elsewhere for a degree/diploma.

  
**PROJECT GUIDE**

**Mr. K. Venkateswara Rao**  
Assistant Professor  
Department of EEE



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**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
**BAKKANNAPALEM (V), P.M. PALEM,**  
**MADHUPALEM/DA**  
**VISAKHAPATNAM - 530 048**

  
**HEAD OF THE DEPARTMENT**  
**M. SAI GANESH ME (Ph.D)**  
**Head of the Department**  
**Department of Electrical and Electronics Engineering**  
**Assistant Professor & HOD**  
**Baba Institute of Technology and Sciences**  
**VISAKHAPATNAM**  
**Department of EEE**

# SMART COMPACT UPS

*A thesis submitted in the partial fulfilment of the requirements*

*for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

In

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

<b>RONGALI JITHENDRA</b>	<b>18NR5A0234</b>
<b>J. SRAVANI</b>	<b>17NR1A0205</b>
<b>JANIPALLI CHAKRADHAR</b>	<b>18NR5A0216</b>
<b>S.V.B.C. LOKESH</b>	<b>17NR1A0221</b>
<b>LANDA SUNIL</b>	<b>18NR5A0224</b>

Under the Guidance of

**Mr. M.V.S. PREM SAGAR, M.Tech.**

Assistant Professor

Department of Electrical and Electronics Engineering



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Kakinada, An ISO 9001-2008 Certified Institution*

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**



**CERTIFICATE**

*This is to certify that the thesis work entitled “Smart Compact UPS” is submitted by S.V.B.C LOKESH (17NR1A0221), J.SRAVANI (17NR1A0205), JANIPALLI CHAKRADHAR (18NR5A0216), RONGALI JITHENDRA (18NR5A0234), LANDA SUNIL (18NR5A0224) in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology In Electrical & Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision.*

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

**PROJECT SUPERVISOR**

**M.V.S. PREM SAGAR ,M.Tech**

Assistant Professor  
Department of EEE

**HEAD OF THE DEPARTMENT**

**Mr. M. SAI GANESH, ME, (Ph.D)**

Head of Department

Department of EEE  
**M. SAI GANESH** ME (Ph.D)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
EAKKANAPALEM (V), PALI, CALEM  
MADHUR  
VISAKHAPATNAM



# **SIMULATION MODEL OF BATTERY CHARGING TEST SYSTEM**

*A thesis submitted in the partial fulfillment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

in

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

**K. Sarojini**

**18NR5A0220**

**K. Lavanya**

**17NR1A0207**

**R. Nageswararao**

**17NR1A0218**

**CH. Chandra Mouli**

**18NR5A0208**

**K. Prem Kumar**

**18NR5A0221**

Under the Guidance of  
**Mr.E. ANIL KUMAR** MTech (Ph.D)  
Assistant Professor, EEE



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**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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**P.M.Palem, Visakhapatnam, 530048**

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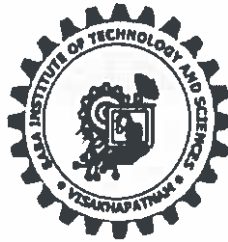
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## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### VISAKHAPATNAM-530048



### CERTIFICATE

This is to certify that the thesis work entitled "SIMULATION MODEL OF BATTERY CHARGING TEST SYSTEM" is submitted by K.Sarojini (18NR5A0220), K.Lavanya (17NR1A0207), R.Nageswararao (17NR1A0218), CH.Chandra mouli (18NR5A0208), K.Prem kumar (18NR5A0221) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING from Jawaharlal Nehru Technological University, Kakinada is a record of bonafied work carried out by them under my guidance and supervision.

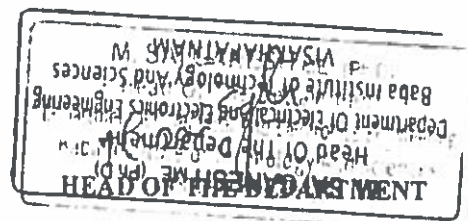
The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

PROJECT SUPERVISOR

Mr. E. ANIL KUMAR M.Tech (Ph.D)  
Assistant Professor  
Department of EEE

PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V) P.M. PALEM,  
MADHURAI, DA  
VISAKHAPATNAM - 530 048



Mr. M. SAI GANESH M.E (Ph.D)  
Head of the Department

Department of EEE

# STEPPER MOTOR SPEED CONTROL USING ANDROID APPLICATION

*Thesis submitted in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF TECHNOLOGY**

In

**ELECTRICAL AND ELECTRONICS ENGINEERING**

By


T. Yuvaraju	18NR5A0237
M. Hemani	17NR1A0213
P. Rajarao	18NR5A0230
P. Dasaradhi	17NR1A0214
V. Mukesh Manikanta Dora	18NR5A0238

*Under the Esteemed Guidance of*  
**Mr. K. Venkateswara Rao, M. Tech**  
Assistant Professor,  
Department of EEE



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
(Affiliated to Jawaharlal Nehru Technological University (JNTU), Kakinada)

Visakhapatnam-530048  
2017-2021

  
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MADHURAWADA  
VISAKHAPATNAM - 530 018

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ENGINEERING

VISAKHAPATNAM - 530 048.



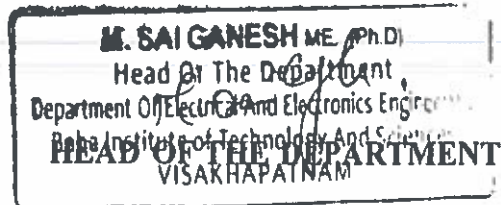
## CERTIFICATE

*This is to certify that the thesis work entitled "Stepper Motor Speed Control Using Android Application" that is being submitted by T.YUVARAJU (18NR5A0237), M.HEMANI (17NR1A0213), P.RAJARAO (18NR5A0230), P.DASARADHI (17NR1A0214), V. MUKESH MANIKANTA DORA (18NR5A0238) in partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical & Electronics Engineering to the Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by he under my guidance and supervision.*

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*K<sub>2</sub>*  
*26.07.2021*  
PROJECT GUIDE

Mr. K. VENKATESWARA RAO  
M.Tech Assistant Professor  
Department of EEE



Mr. M. SAI GANESH  
Assistant Professor & HOD  
Department of EEE

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNA PALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

# ARDUINO BASED ANDROID CONTROLLED ROBOTIC ARM

A Thesis submitted in partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

ELECTRICAL AND ELECTRONICS ENGINEERING

By

P.SAI

(18NR5A0232)

S. BHARGAVI

(18NR5A0236)

M.SURESH KUMAR

(18NR5A0225)

D.SIVA KUMAR

(18NR5A0211)

M.VENKATESH

(17NR1A0210)

Under the guidance of

Mr.M.SaiGanesh M.E,(Ph.D)

Asst. Professor ,HOD

Department of EEE



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
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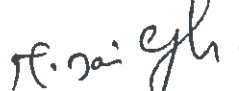
This is to certify that the thesis entitled “Arduino Based Android Controlled Robotic Arm” submitted by P.SAI (18NR5A0232) S.BHARGAVI (18NR5A0236) M.SURESH KUMAR (18NR5A0225) D.SIVA KUMAR (18NR5A0211) M.VENKATESH (17N1A0210) in Partial fulfillment of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of project work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.


The Thesis which is based on candidates’ own work; have not submitted elsewhere for a degree/diploma.

**PROJECT SUPERVISOR**

  
**Mr. M.Sai Ganesh M.E(Ph.D)**  
**Assistant Professor**  
**Department of EEE**

**HEAD OF THE DEPARTMENT**

  
**Mr.M.SaiGanesh M.E(Ph.D)**  
**Assistant professor, HOD**  
**Department of EEE**

  
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BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

# **SOLAR PV FED SEPIC CONVERTER BASED BLDC MOTOR FOR WATER PUMP APPLICATION**

*A Thesis submitted in partial fulfillment of the requirements for the award of the degree*

*of*

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

*By*

<b>M.BHARGAVA</b>	<b>(18NR5A0227)</b>
<b>G.GOVINDA</b>	<b>(18NR5A0242)</b>
<b>G.PAVAN KUMAR</b>	<b>(18NR5A0215)</b>
<b>M.NAGAMANI</b>	<b>(17NR1A0212)</b>
<b>N.PARAMESWARA RAO</b>	<b>(18NR5A0228)</b>
<b>K.STEPHEN PAUL</b>	<b>(17NR1A0208)</b>

**Under the guidance of  
Mr.D Rama Krishna M.Tech.,  
Asst. Professor  
Department of EEE**



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MADHURAMPETA,  
VISAKHAPATNAM - 530048**

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**VISAKHAPATNAM – 530048**



**CERTIFICATE**

*This is to certify that the thesis entitled "Solar Pv Fed Sepic Converter Based Bldc Motor For Water Pump Application" submitted by M.BHARGAVA (18NR5A0227), G.GOVINDA (18NR5A0242), G.PAVAN KUMAR (18NR5A0215), M.NAGAMANI (17NR1A0212), N.PARAMESWARA RAO (18NR5A0228), K.STEPHEN PAUL (17NR1A0208) in Partial fulfillment of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of research work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.*

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**PROJECT GUIDE**

**Mr. D. Rama Krishna**  
Assistant Professor

Department of EEE

**HEAD OF THE DEPARTMENT**

**Mr. M. Sai Ganesh**  
Assistant Professor & HOD

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM  
MADHURAWADA  
VISAKHAPATNAM - 531038

Department of EEE  
**M. SAI GANESH** ME (Ph.D)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM



Website: www.bitsvizag.com  
Email: [babaeehod@gmail.com](mailto:babaeehod@gmail.com)  
Admission code: BABA



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR

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Bakkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### Students list for A.Y 2020-21(Project work)

Sl. No	Roll Number	Name of the student
1	17NR1A0201	BODDEPALLI ALEKHYA
2	17NR1A0202	BOTU AISWARYA
3	17NR1A0203	DUSI LATHA
4	17NR1A0204	GORLE DINESH KUMAR
5	17NR1A0205	JANNELA SRAVANI
6	17NR1A0206	JOGI DEVI
7	17NR1A0207	KANITHI LAVANYA
8	17NR1A0208	KURAMANA STEPHEN PAUL
9	17NR1A0210	MANDALA VENKATESH
10	17NR1A0212	MATCHA NAGAMANI
11	17NR1A0213	MUKALLA HEMANI
12	17NR1A0214	PANGI DASARADHI
13	17NR1A0215	PERISETTI MOHAN KAMAL SAI
14	17NR1A0216	PILLA NAVEEN
15	17NR1A0217	POTNURU GUNASEKHAR
16	17NR1A0218	RAVALAVALASA NAGESWARA RAO
17	17NR1A0220	SIRAGAM PUSHPANJALI
18	17NR1A0221	SUGANDHAM LOKESH VEERABHADRACHARI
19	18NR5A0201	AKULA MADHURI
20	18NR5A0202	ATTADA PAVAN KALYAN
21	18NR5A0203	ATTANDI PRADEEP CHANDRA
22	18NR5A0204	BAGGU SRINIVASA RAO
23	18NR5A0205	BASARAMANI SOMA SUNDHAR PARAMESH
24	18NR5A0208	CHINTAPALLI CHANDRA MOULI
25	18NR5A0209	CHINTU BHASKARA RAO
26	18NR5A0211	DUNGA SIVA KUMAR
27	18NR5A0213	GEDELA MAHENDRA
28	18NR5A0214	GUDLA SIVA CHAKRAVARTHI
29	18NR5A0215	GUMMALLA PAVAN KUMAR
30	18NR5A0216	JANIPALLI CHAKRADHAR
31	18NR5A0218	KILUGU NANAK SAI
32	18NR5A0219	KINTHADA CHANDRA SEKHAR GANESH

  
PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [babaeeehod@gmail.com](mailto:babaeeehod@gmail.com)  
Admission code: **BABA**



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR

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Bakkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

33	18NR5A0220	KOMMINENI SAROJANAMMA
34	18NR5A0221	KONNA PREMA KUMAR
35	18NR5A0222	KOOCHETTI KRISHNA
36	18NR5A0223	KOSANA ANSIKA
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51	18NR5A0239	VARADI GANESH
52	18NR5A0240	YERIPILLI NOOKARAJU
53	18NR5A0241	BASANTH KUMAR GANIVADA
54	18NR5A0242	GANDI GOVINDA

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Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# **SOLAR PV AND PIEZO TRANSDUCER BASED MOBILE BATTERY CHARGER**

*A thesis submitted in the partial fulfillment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

In

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

<b>ATTADA PAVAN KALYAN</b>	<b>18NR5A0202</b>
<b>GANIVADA BASANTH KUMAR</b>	<b>18NR5A0241</b>
<b>BODDEPALLI ALEKHYA</b>	<b>17NR1A0201</b>
<b>SIRAGAM PUSHPANJALI</b>	<b>17NR1A0220</b>
<b>PITCHUKA VIJAY KUMAR</b>	<b>18NR5A0233</b>

Under the Guidance of  
**Mr.M.Sai Ganesh M.E, (Ph.D)**  
Assistant Professor (EEE)




**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
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MADHURAWADA  
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**DEPARTMENT OF ELECTRICAL & ELECTRONICS**  
**ENGINEERING VISAKHAPATNAM-530048**




**CERTIFICATE**

This is to certify that the thesis work entitled "**SOLAR PV AND PIEZO TRANSDUCER BASED MOBILE BATTERY CHARGER**" is submitted by Attada Pavan Kalyan (18NR5A0202), Ganivada Basanth Kumar (18NR5A0241), Boddepalli Alekhya (17NR1A0201), Siragam Pushpanjali (17NR1A0220), Pitchuka Vijay Kumar (18NR5A0233), partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING** from **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision.

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


**PROJECT SUPERVISOR**

  
**Mr. M. SAI GANESH**  
Assistant Professor  
Department of EEE

**HEAD OF THE DEPARTMENT**

  
**Mr. M. SAI GANESH**  
Head of Department of EEE

**M. SAI GANESH ME (Ph D)**  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

  
**PRINCIPAL**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530048

# POWER GENERATION BY PLASTIC ROADS

*A thesis submitted in the partial fulfillment of the requirements for the award of the degree  
of*

## BACHELOR OF TECHNOLOGY

IN

## ELECTRICAL AND ELECTRONICS ENGINEERING

By

CHINTU.BHASKARA RAO

Reg.No:18NR5A0209

POTNURU.GUNASEKHAR

Reg.No:17NR1A0217

GUDLA.SIVACHAKRAVARTHI

Reg.No:18NR5A0214

DUSILATHA

Reg.No:17NR1A0203

ATTANDI.PRADEEP CHANDRA

Reg.No:18NR5A0203

Under the Guidance of  
**Mr.E.ANIL KUMAR, MTech,(Ph.D.)**  
Assistant Professor EEE



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

Approved By AICTE NEW DELHI, & Affiliated to J.N.T.U.K. Accredited by NAAC.

P.M. Palem, Visakhapatnam, 530048

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BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
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MACHILIPATNAM

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Kakinada, Accredited by NAAC, An ISO 9001-2008 Certified Institution)

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



VISAKHAPATNAM-530048

### CERTIFICATE

This is to certify that the thesis work entitled "POWER GENERATION BY PLASTIC ROADS" submitted by CH.BHASKARARAO(18NR5A0209),P.GUNASEKHAR(17NR1A0217),G.SIVACHAKRA VARTHI(18NR5A0214),D.LATHA(17NR1A0203),A.PRADEEPCHANDRA(18NR5A0203). in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING from Jawaharlal Nehru Technological University, Kakinada is a record of out by them under my guidance and supervision. The results embodied in this thesis have not been submitted oany other University or Institute for the award of any degree or diploma.

PROJECT SUPERVISOR

Mr. E.ANILKUMAR

Assistant Professor EEE

HEAD OF THE DEPARTMENT

Mr. M.SAIGANESH

M. SAI GANESH ME (PhD)  
Assistant Professor

Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Science  
VISAKHAPATNAM

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURVA  
VISAKHAPATNAM

# COVID PREVENTIVE ELECTRIC SMART SWITCH

*A thesis submitted in the partial fulfilment of the requirements for the award of the degree of*  
**BACHELOR OF TECHNOLOGY**

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

**KOOCHETTI KRISHNA**

**18NR5A0222**

**BAGGU SRINIVASA RAO**

**18NR5A0204**

**PERISETTI MOHAN KAMAL SAI**

**17NR1A0215**

**KOSANA ANSIKA**

**18NR5A0223**

**YERIPILLI NOOKARAJU**

**18NR5A0240**

Under the Guidance of  
**Mr. M.V.S PREM SAGAR, M.Tech**

Assistant Professor  
Department of EEE




**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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**P.M. Palem, Madhurawada, Visakhapatnam, 530048**

**2017-2021**

  
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BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**VISAKHAPATNAM-530048**




**CERTIFICATE**

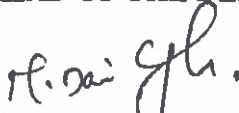
*This is to certify that the thesis work entitled "Covid Preventive Electric Smart Switch" is submitted by Koochetti Krishna (18NR5A0222), Baggu Srinivasa Rao (18NR5A0204), Perisetti Mohan Kamal Sai (17NR1A0215), Kosana Ansika (18NR5A0223), Yeripilli Nookaraju (18NR5A0240) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL & ELECTRONICS ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision.*


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**PROJECT SUPERVISOR**

  
**Mr. M.V.S PREM SAGAR, M. Tech**  
Assistant Professor  
Department of EEE

**HEAD OF THE DEPARTMENT**

  
**Mr. M. SAI GANESH, M.E, (Ph. D)**  
Head of Department  
Department of EEE

  
**PRINCIPAL**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
**BAKKANNAPALEM (V) P.M. PALEM,**  
MA  
VISAKHAPATNAM

**M. SAI GANESH M.E. (Ph.D)**  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM



**DESIGN AND SIMULATION OF SINGLE STAGE BOOST-BOOST  
CONVERTER FOR POWER QUALITY IMPROVEMENT**

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

**BACHELOR OF TECHNOLOGY**

in

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

<b>B.ISWARYA</b>	<b>17NR1A0202</b>
<b>J.DEVI</b>	<b>17NR1A0206</b>
<b>A.MADHURI</b>	<b>18NR5A0201</b>
<b>V.GANESH</b>	<b>18NR5A0239</b>
<b>M.OMKAR VINOD KUMAR</b>	<b>18NR5A0226</b>
<b>K.GANESH</b>	<b>18NR5A0219</b>

Under the Guidance of  
**Mr. CH. NAYAK BHUKYA, M.Tech**  
Assistant Professor



**DEPARTMENT OF ELECTRICAL & ELECTRONICS  
ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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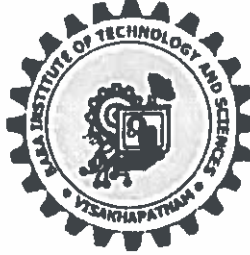
**P.M.Palem, Madhurawada, Visakhapatnam, 530048**  
**2017-2021**

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MADHURAWADA,  
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## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING VISAKHAPATNAM-530048



### CERTIFICATE

*This is to certify that the thesis entitled "Design and Simulation of Single Stage Boost-Boost Converter for Power Quality Improvement" submitted by B.ISWARYA (17NR1A0202) J.DEVI (17NR1A0206) A.MADHURI (18NR5A0201) V.GANESH (18NR5A0239) M.OMKAR VINOD KUMAR (18NR5A0226) K.GANESH (18NR5A0219) in Partial fulfilment of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of research work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.*

*The Thesis which is based on candidates' own work; have not submitted elsewhere for a degree/diploma.*

*Ch. Nayak Bhukya*  
26/7/2021  
PROJECT SUPERVISOR

Mr. CH. NAYAK BHUKYA  
Assistant Professor  
Department of EEE

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM-530 048

*M. Sai Ganesh*  
HEAD OF THE DEPARTMENT

Mr. M. SAI GANESH  
Head of the Department  
Department of EEE

M. SAI GANESH ME (Ph.D)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

# **DUAL AXIS SOLAR POWER TRACKING SYSTEM**

*A Thesis submitted in partial fulfillment of the requirements for the award of the degree*

*of*

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

*By*

<b>N.VENU GOPAL NAIDU</b>	<b>(18NR5A0229)</b>
<b>B S S PARAMESH</b>	<b>(18NR5A0205)</b>
<b>G.MAHENDRA</b>	<b>(18NR5A0213)</b>
<b>G.DINESH KUMAR</b>	<b>(17NR1A0204)</b>
<b>SEERA HYMAVATHI</b>	<b>(18NR5A0235)</b>
<b>NANAK SAI KILUGU</b>	<b>(18NR5A0218)</b>

Under the guidance of  
**Mr.K.Venkateswara Rao M.Tech**  
Asst. Professor  
Department of EEE



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

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**MADHURAWADA**

**VISAKHAPATNAM - 530048**

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**VISAKHAPATNAM – 530048**



**CERTIFICATE**

This is to certify that the thesis entitled "Dual Axis Solar Power Tracking System" submitted by **N.VENU GOPAL NAIDU (18NR5A0229) B S S PARAMESH (18NR5A0205) G.MAHENDRA (18NR5A0213) G.DINESH KUMAR (17NR1A0204) SEERA HYMAVATHI (18NR5A0235) NANAK SAI KILUGU (18NR5A0218)** in Partial fulfillment

Of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of research work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.

The Thesis which is based on candidates' own work; have not submitted elsewhere for a degree/diploma.

  
**PROJECT GUIDE**

**Mr. K. Venkateswara Rao**

Assistant Professor

Department of EEE




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**BAKKANNAPALEM (V), P.M. PALEM,**

**MADHUPAWADA**

**VISAKHAPATNAM - 530 048**

  
**HEAD OF THE DEPARTMENT**  
**M. SAI GANESH ME (Ph.D)**  
**Head of the Department**  
**Department of Electrical and Electronics Engineering**  
**Assistant Professor & HOD**  
**Baba Institute of Technology and Sciences**  
**VISAKHAPATNAM**  
**Department of EEE**

# SMART COMPACT UPS

*A thesis submitted in the partial fulfillment of the requirements  
for the award of the degree of*

## BACHELOR OF TECHNOLOGY

In

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

<b>RONGALI JITHENDRA</b>	<b>18NR5A0234</b>
<b>J. SRAVANI</b>	<b>17NR1A0205</b>
<b>JANIPALLI CHAKRADHAR</b>	<b>18NR5A0216</b>
<b>S.V.B.C. LOKESH</b>	<b>17NR1A0221</b>
<b>LANDA SUNIL</b>	<b>18NR5A0224</b>

Under the Guidance of

**Mr. M.V.S. PREM SAGAR, M.Tech.**

Assistant Professor

Department of Electrical and Electronics Engineering




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2017-2021

  
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Kakinada, An ISO 9001-2008 Certified Institution*

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**



**CERTIFICATE**

*This is to certify that the thesis work entitled "Smart Compact UPS" is submitted by S.V.B.C LOKESH (17NR1A0221), J.SRAVANI (17NR1A0205), JANIPALLI CHAKRADHAR (18NR5A0216), RONGALI JITHENDRA (18NR5A0234), LANDA SUNIL (18NR5A0224) in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology In Electrical & Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision.*

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**PROJECT SUPERVISOR**

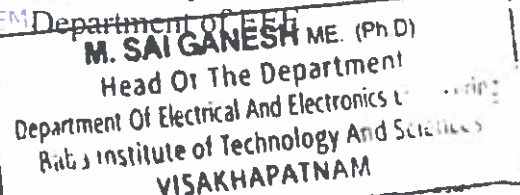
  
M.V.S. PREM SAGAR ,M.Tech 

Assistant Professor  
Department of EEE

**HEAD OF THE DEPARTMENT**

  
Mr. M. SAI GANESH, ME, (Ph.D)

Head of Department

  
M. SAI GANESH ME. (Ph.D)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
EAKKANAPALEM (V), P.M. PALEM  
MADHURAMPET  
VISAKHAPATNAM

# **SIMULATION MODEL OF BATTERY CHARGING TEST SYSTEM**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRICAL & ELECTRONICS ENGINEERING**

**By**

**K. Sarojini**

**18NR5A0220**

**K. Lavanya**

**17NR1A0207**

**R. Nageswararao**

**17NR1A0218**

**CH. Chandra Mouli**

**18NR5A0208**

**K. Prem Kumar**

**18NR5A0221**

**Under the Guidance of**  
**Mr.E. ANIL KUMAR** MTech (Ph.D)  
**Assistant Professor, EEE**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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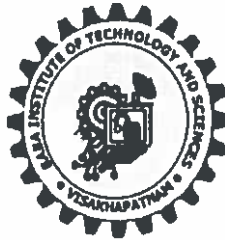
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## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

### VISAKHAPATNAM-530048



### CERTIFICATE

This is to certify that the thesis work entitled “SIMULATION MODEL OF BATTERY CHARGING TEST SYSTEM” is submitted by K.Sarojini (18NR5A0220), K.Lavanya (17NR1A0207), R.Nageswararao-(17NR1A0218), CH.Chandra mouli-(18NR5A0208), K.Prem kumar-(18NR5A0221) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING from Jawaharlal Nehru Technological University, Kakinada is a record of bonafied work carried out by them under my guidance and supervision.

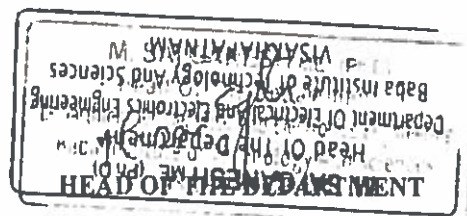
The results embodied in this thesis have not been submitted to any other University or Institute for the award of any degree or diploma.

PROJECT SUPERVISOR

Mr. E. ANIL KUMAR M.Tech (Ph.D)  
Assistant Professor  
Department of EEE

PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), E.M. PALEM,  
MADHUPALEM, DA  
VISAKHAPATNAM - 530 048



Mr. M. SAI GANESH M.E (Ph.D)  
Head of the Department



# STEPPER MOTOR SPEED CONTROL USING ANDROID APPLICATION

*Thesis submitted in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

**By**


T. Yuvaraju	18NR5A0237
M. Hemani	17NR1A0213
P. Rajarao	18NR5A0230
P. Dasaradhi	17NR1A0214
V. Mukesh Manikanta Dora	18NR5A0238

*Under the Esteemed Guidance of*  
**Mr. K. Venkateswara Rao, M. Tech**  
Assistant Professor,  
Department of EEE



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
(Affiliated to Jawaharlal Nehru Technological University (JNTU), Kakinada)

Visakhapatnam-530048  
2017-2021

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PILEM,  
MADHURAWADI  
VISAKHAPATNAM - 530 048

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(Affiliated to Jawaharlal Nehru Technological University (JNTU), Kakinada)

DEPARTMENT OF ELECTRICAL & ELECTRONICS

ENGINEERING

VISAKHAPATNAM - 530 048.



## CERTIFICATE

*This is to certify that the thesis work entitled "Stepper Motor Speed Control Using Android Application" that is being submitted by T.YUVARAJU (18NR5A0237), M.HEMANI (17NR1A0213), P.RAJARAO (18NR5A0230), P.DASARADHI (17NR1A0214), V. MUKESH MANIKANTA DORA (18NR5A0238) in partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical & Electronics Engineering to the Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by he under my guidance and supervision.*


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26.07.2021  
PROJECT GUIDE

Mr. K. VENKATESWARA RAO  
M.Tech Assistant Professor  
Department of EEE

M. SAI GANESH ME, Ph.D.  
Head of The Department,  
Department Of Electrical And Electronics Engineering,  
Baba Institute of Technology And Sciences,  
HEAD OF THE DEPARTMENT  
VISAKHAPATNAM

Mr. M. SAI GANESH  
Assistant Professor & HOD  
Department of EEE

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), E.P., PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

# **ARDUINO BASED ANDROID CONTROLLED ROBOTIC ARM**

**A Thesis submitted in partial fulfillment of the requirements for the award of the degree of  
BACHELOR OF TECHNOLOGY**

**IN  
ELECTRICAL AND ELECTRONICS ENGINEERING**

**By**

<b>P.SAI</b>	<b>(18NR5A0232)</b>
<b>S. BHARGAVI</b>	<b>(18NR5A0236)</b>
<b>M.SURESH KUMAR</b>	<b>(18NR5A0225)</b>
<b>D.SIVA KUMAR</b>	<b>(18NR5A0211)</b>
<b>M.VENKATESH</b>	<b>(17NR1A0210)</b>

**Under the guidance of  
Mr.M.SaiGanesh M.E,(Ph.D)  
Asst. Professor ,HOD  
Department of EEE**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
BABA INSTITUTE OF TECHNOLOGY & SCIENCES**

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VISAKHAPATNAM – 530048**

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MADHURAWADA  
VISAKHAPATNAM - 530048**

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES**  
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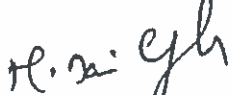


**CERTIFICATE**


This is to certify that the thesis entitled “Arduino Based Android Controlled Robotic Arm” submitted by P.SAI (18NR5A0232) S.BHARGAVI (18NR5A0236) M.SURESH KUMAR (18NR5A0225) D.SIVA KUMAR (18NR5A0211) M.VENKATESH (17N1A0210) in Partial fulfillment of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of project work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.


The Thesis which is based on candidates’ own work; have not submitted elsewhere for a degree/diploma.

**PROJECT SUPERVISOR**

  
**Mr. M.Sai Ganesh M.E(Ph.D)**  
**Assistant Professor**  
**Department of EEE**

**HEAD OF THE DEPARTMENT**

  
**Mr.M.Sai Ganesh M.E(Ph.D)**  
**Assistant professor, HOD**  
**Department of EEE**

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

# **SOLAR PV FED SEPIC CONVERTER BASED BLDC MOTOR FOR WATER PUMP APPLICATION**

*A Thesis submitted in partial fulfillment of the requirements for the award of the degree*

*of*

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

*By*

<b>M.BHARGAVA</b>	<b>(18NR5A0227)</b>
<b>G.GOVINDA</b>	<b>(18NR5A0242)</b>
<b>G.PAVAN KUMAR</b>	<b>(18NR5A0215)</b>
<b>M.NAGAMANI</b>	<b>(17NR1A0212)</b>
<b>N.PARAMESWARA RAO</b>	<b>(18NR5A0228)</b>
<b>K.STEPHEN PAUL</b>	<b>(17NR1A0208)</b>

**Under the guidance of  
Mr.D Rama Krishna M.Tech.,  
Asst. Professor  
Department of EEE**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES**

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**2017-2021**

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BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (M) CAMPUS,  
MADHURAMPETA  
VISAKHAPATNAM - 530048

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES**  
(Affiliated to Jawaharlal Nehru technological university (JNTU), Kakinada)  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**VISAKHAPATNAM - 530048**



**CERTIFICATE**

*This is to certify that the thesis entitled "Solar Pv Fed Sepic Converter Based Bldc Motor For Water Pump Application" submitted by M.BHARGAVA (18NR5A0227), G.GOVINDA (18NR5A0242), G.PAVAN KUMAR (18NR5A0215), M.NAGAMANI (17NR1A0212), N.PARAMESWARA RAO (18NR5A0228), K.STEPHEN PAUL (17NR1A0208) in Partial fulfillment of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of research work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.*

*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. D. Rama Krishna**  
Assistant Professor

Department of EEE

**HEAD OF THE DEPARTMENT**

**Mr. M. Sai Ganesh**  
Assistant Professor & HOD

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM  
MADHURAWADA  
VISAKHAPATNAM - 530048

Department of EEE  
**M. SAI GANESH** ME (PhD)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

# **SOLAR PV AND PIEZO TRANSDUCER BASED MOBILE BATTERY CHARGER**

*A thesis submitted in the partial fulfillment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

In

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

<b>ATTADA PAVAN KALYAN</b>	<b>18NR5A0202</b>
<b>GANIVADA BASANTH KUMAR</b>	<b>18NR5A0241</b>
<b>BODDEPALLI ALEKHYA</b>	<b>17NR1A0201</b>
<b>SIRAGAM PUSHPANJALI</b>	<b>17NR1A0220</b>
<b>PITCHUKA VIJAY KUMAR</b>	<b>18NR5A0233</b>

Under the Guidance of  
**Mr.M.Sai Ganesh M.E, (Ph.D)**  
Assistant Professor (EEE)




**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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**P.M.Palem ,Madhurawada, Visakhapatnam, 530048**

**2017-2021**

  
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BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530048

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS**  
**ENGINEERING VISAKHAPATNAM-530048**




**CERTIFICATE**

This is to certify that the thesis work entitled "**SOLAR PV AND PIEZO TRANSDUCER BASED MOBILE BATTERY CHARGER**" is submitted by Attada Pavan Kalyan (18NR5A0202), Ganivada Basanth Kumar (18NR5A0241), Boddepalli Alekhya (17NR1A0201), Siragam Pushpanjali (17NR1A0220), Pitchuka Vijay Kumar (18NR5A0233), partial fulfilment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING** from **Jawaharlal Nehru Technological University, Kakinada** is a record of bonafide work carried out by them under my guidance and supervision.

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


**PROJECT SUPERVISOR**

  
**Mr. M. SAI GANESH**  
Assistant Professor  
Department of EEE

**HEAD OF THE DEPARTMENT**

  
**Mr. M. SAI GANESH**  
Head of Department of EEE

**M. SAI GANESH ME (Ph D)**  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

  
**PRINCIPAL**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530048



# POWER GENERATION BY PLASTIC ROADS

*A thesis submitted in the partial fulfillment of the requirements for the award of the degree  
of*

## BACHELOR OF TECHNOLOGY

IN

## ELECTRICAL AND ELECTRONICS ENGINEERING

By

CHINTU.BHASKARA RAO

Reg.No:18NR5A0209

POTNURU.GUNASEKHAR

Reg.No:17NR1A0217

GUDLA.SIVACHAKRAVARTHI

Reg.No:18NR5A0214

DUSILATHA

Reg.No:17NR1A0203

ATTANDI.PRADEEP CHANDRA

Reg.No:18NR5A0203

Under the Guidance of

**Mr.E.ANIL KUMAR, MTech,(Ph.D.)**

Assistant Professor EEE



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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P.M. Palem, Visakhapatnam, 530048

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MACHILIPATNAM

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Kakinada, Accredited by NAAC, An ISO 9001-2008 Certified Institution)

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING



VISAKHAPATNAM-530048

### CERTIFICATE

This is to certify that the thesis work entitled "POWER GENERATION BY PLASTIC ROADS" submitted by CH.BHASKARARAO(18NR5A0209),P.GUNASEKHAR(17NR1A0217),G.SIVACHAKRA VARTHI(18NR5A0214),D.LATHA(17NR1A0203),A.PRADEEPCHANDRA(18NR5A0203). in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING from Jawaharlal Nehru Technological University, Kakinada is a record of out by them under my guidance and supervision. The results embodied in this thesis have not been submitted oany other University or Institute for the award of any degree or diploma.

PROJECT SUPERVISOR

Mr. E.ANILKUMAR

Assistant Professor EEE

HEAD OF THE DEPARTMENT

Mr. M.SAIGANESH

M. SAI GANESH ME (PhD)  
Assistant Professor

Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Science  
VISAKHAPATNAM

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURVA  
VISAKHAPATNAM

# COVID PREVENTIVE ELECTRIC SMART SWITCH

*A thesis submitted in the partial fulfilment of the requirements for the award of the degree of*  
**BACHELOR OF TECHNOLOGY**

**IN**  
**ELECTRICAL & ELECTRONICS ENGINEERING**

**By**

**KOOCHETTI KRISHNA**

**18NR5A0222**

**BAGGU SRINIVASA RAO**

**18NR5A0204**

**PERISETTI MOHAN KAMAL SAI**

**17NR1A0215**

**KOSANA ANSIKA**

**18NR5A0223**

**YERIPILLI NOOKARAJU**

**18NR5A0240**

**Under the Guidance of**  
**Mr. M.V.S PREM SAGAR, M.Tech**  
**Assistant Professor**  
**Department of EEE**




**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

Accredited by NAAC, Approved By AICTE NEW DELHI, & Affiliated To JNTUK,

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**P.M. Palem, Madhurawada, Visakhapatnam, 530048**

**2017-2021**

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM

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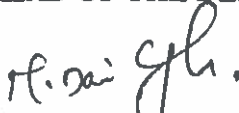
*This is to certify that the thesis work entitled "Covid Preventive Electric Smart Switch" is submitted by Koochetti Krishna (18NR5A0222), Baggu Srinivasa Rao (18NR5A0204), Perisetti Mohan Kamal Sai (17NR1A0215), Kosana Ansika (18NR5A0223), Yeripilli Nookaraju (18NR5A0240) in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in **ELECTRICAL & ELECTRONICS ENGINEERING** from Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision.*


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**PROJECT SUPERVISOR**

  
**Mr. M.V.S PREM SAGAR, M. Tech**  
Assistant Professor  
Department of EEE

**HEAD OF THE DEPARTMENT**

  
**Mr. M. SAI GANESH, M.E, (Ph. D)**  
Head of Department  
Department of EEE

  
**PRINCIPAL**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
**BAKKANNAPALEM (V) P.M. PALEM,**  
MA  
VISAKHAPATNAM

**M. SAI GANESH M.E. (Ph.D)**  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

**DESIGN AND SIMULATION OF SINGLE STAGE BOOST-BOOST  
CONVERTER FOR POWER QUALITY IMPROVEMENT**

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

**BACHELOR OF TECHNOLOGY**

in

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

<b>B.ISWARYA</b>	<b>17NR1A0202</b>
<b>J.DEVI</b>	<b>17NR1A0206</b>
<b>A.MADHURI</b>	<b>18NR5A0201</b>
<b>V.GANESH</b>	<b>18NR5A0239</b>
<b>M.OMKAR VINOD KUMAR</b>	<b>18NR5A0226</b>
<b>K.GANESH</b>	<b>18NR5A0219</b>

Under the Guidance of  
**Mr. CH. NAYAK BHUKYA, M.Tech**  
Assistant Professor



**DEPARTMENT OF ELECTRICAL & ELECTRONICS  
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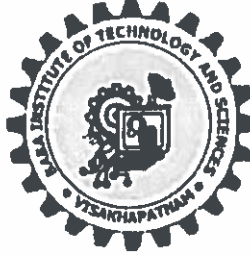
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## DEPARTMENT OF ELECTRICAL & ELECTRONICS

ENGINEERING VISAKHAPATNAM-530048



### CERTIFICATE

*This is to certify that the thesis entitled "Design and Simulation of Single Stage Boost-Boost Converter for Power Quality Improvement" submitted by B.ISWARYA (17NR1A0202) J.DEVI (17NR1A0206) A.MADHURI (18NR5A0201) V.GANESH (18NR5A0239) M.OMKAR VINOD KUMAR (18NR5A0226) K.GANESH (18NR5A0219) in Partial fulfilment of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of research work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.*

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*Ch. Nayak Bhukya*  
26/7/2021  
PROJECT SUPERVISOR

Mr. CH. NAYAK BHUKYA  
Assistant Professor  
Department of EEE

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPELEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM-530 048

*M. Sai Ganesh*  
HEAD OF THE DEPARTMENT

Mr. M. SAI GANESH  
Head of the Department  
Department of EEE

M. SAI GANESH ME (Ph.D)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

# **DUAL AXIS SOLAR POWER TRACKING SYSTEM**

*A Thesis submitted in partial fulfillment of the requirements for the award of the degree*

*of*

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

*By*

<b>N.VENU GOPAL NAIDU</b>	<b>(18NR5A0229)</b>
<b>B S S PARAMESH</b>	<b>(18NR5A0205)</b>
<b>G.MAHENDRA</b>	<b>(18NR5A0213)</b>
<b>G.DINESH KUMAR</b>	<b>(17NR1A0204)</b>
<b>SEERA HYMAVATHI</b>	<b>(18NR5A0235)</b>
<b>NANAK SAI KILUGU</b>	<b>(18NR5A0218)</b>

Under the guidance of  
**Mr.K.Venkateswara Rao M.Tech**  
Asst. Professor  
Department of EEE



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

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**BAKKANNAPALEM (V), P.M. PALEM,**

**MADHURAWADA**

**VISAKHAPATNAM - 530048**

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES**  
(Affiliated to Jawaharlal Nehru technological university (JNTU), Kakinada)  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**VISAKHAPATNAM – 530048**



**CERTIFICATE**

This is to certify that the thesis entitled "Dual Axis Solar Power Tracking System" submitted by **N.VENU GOPAL NAIDU (18NR5A0229) B S S PARAMESH (18NR5A0205) G.MAHENDRA (18NR5A0213) G.DINESH KUMAR (17NR1A0204) SEERA HYMAVATHI (18NR5A0235) NANAK SAI KILUGU (18NR5A0218)** in Partial fulfillment

Of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of research work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.

The Thesis which is based on candidates' own work; have not submitted elsewhere for a degree/diploma.

  
26.07.2024  
**PROJECT GUIDE**

**Mr. K. Venkateswara Rao**

Assistant Professor

Department of EEE

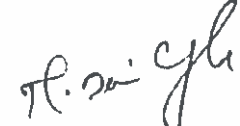


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**BAKKANNAPALEM (V), P.M. PALEM,  
MADHUPAWADA**

**VISAKHAPATNAM - 530 048**

  
**HEAD OF THE DEPARTMENT**  
**M. SAI GANESH ME (Ph.D)**  
**Head of the Department**  
**Department of Electrical and Electronics Engineering**  
**Assistant Professor & HOD**  
**Baba Institute of Technology and Sciences**  
**VISAKHAPATNAM**  
**Department of EEE**



# SMART COMPACT UPS

*A thesis submitted in the partial fulfillment of the requirements  
for the award of the degree of*

## BACHELOR OF TECHNOLOGY

In

**ELECTRICAL & ELECTRONICS ENGINEERING**

By

<b>RONGALI JITHENDRA</b>	<b>18NR5A0234</b>
<b>J. SRAVANI</b>	<b>17NR1A0205</b>
<b>JANIPALLI CHAKRADHAR</b>	<b>18NR5A0216</b>
<b>S.V.B.C. LOKESH</b>	<b>17NR1A0221</b>
<b>LANDA SUNIL</b>	<b>18NR5A0224</b>

Under the Guidance of

**Mr. M.V.S. PREM SAGAR, M.Tech.**

Assistant Professor

Department of Electrical and Electronics Engineering




**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
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BAKKANNAPALEM (V), P.M. PALEM  
MADHURAMPET  
VISAKHAPATNAM

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Kakinada, An ISO 9001-2008 Certified Institution*

**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**



**CERTIFICATE**

*This is to certify that the thesis work entitled "Smart Compact UPS" is submitted by S.V.B.C LOKESH (17NR1A0221), J.SRAVANI (17NR1A0205), JANIPALLI CHAKRADHAR (18NR5A0216), RONGALI JITHENDRA (18NR5A0234), LANDA SUNIL (18NR5A0224) in partial fulfilment of the requirements for the award of the degree of Bachelor of Technology In Electrical & Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by them under my guidance and supervision.*

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**PROJECT SUPERVISOR**

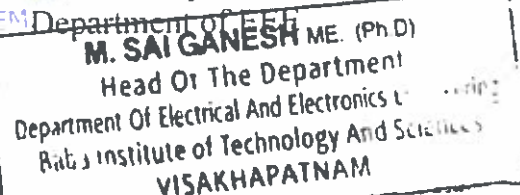
  
M.V.S. PREM SAGAR ,M.Tech 

Assistant Professor  
Department of EEE

**HEAD OF THE DEPARTMENT**

  
Mr. M. SAI GANESH, ME, (Ph.D)

Head of Department

  
M. SAI GANESH ME. (Ph.D)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

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BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
EAKKANAPALEM (V), P.M. PALEM  
MADHURAJAPETA  
VISAKHAPATNAM

# **SIMULATION MODEL OF BATTERY CHARGING TEST SYSTEM**

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

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRICAL & ELECTRONICS ENGINEERING**

**By**

**K. Sarojini**

**18NR5A0220**

**K. Lavanya**

**17NR1A0207**

**R. Nageswararao**

**17NR1A0218**

**CH. Chandra Mouli**

**18NR5A0208**

**K. Prem Kumar**

**18NR5A0221**

**Under the Guidance of**  
**Mr.E. ANIL KUMAR** MTech (Ph.D)  
**Assistant Professor, EEE**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

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**P.M.Palem, Visakhapatnam, 530048**

2017-2021

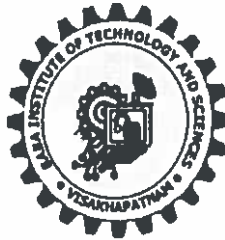
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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**VISAKHAPATNAM-530048**



## CERTIFICATE

This is to certify that the thesis work entitled “SIMULATION MODEL OF BATTERY CHARGING TEST SYSTEM” is submitted by K.Sarojini (18NR5A0220), K.Lavanya (17NR1A0207), R.Nageswararao-(17NR1A0218), CH.Chandra mouli-(18NR5A0208), K.Prem kumar-(18NR5A0221) in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY in ELECTRICAL & ELECTRONICS ENGINEERING from Jawaharlal Nehru Technological University, Kakinada is a record of bonafied work carried out by them under my guidance and supervision.

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

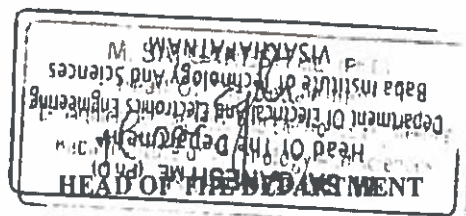
PROJECT SUPERVISOR

Mr. E. ANIL KUMAR M.Tech (Ph.D)  
Assistant Professor  
Department of EEE

PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), E.M. PALEM,  
MADHUPALEM, DA  
VISAKHAPATNAM - 530 048

Mr. M. SAI GANESH M.E (Ph.D)  
Head of the Department  
Department of EEE



# STEPPER MOTOR SPEED CONTROL USING ANDROID APPLICATION

*Thesis submitted in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF TECHNOLOGY**

**In**

**ELECTRICAL AND ELECTRONICS ENGINEERING**

**By**


T. Yuvaraju	18NR5A0237
M. Hemani	17NR1A0213
P. Rajarao	18NR5A0230
P. Dasaradhi	17NR1A0214
V. Mukesh Manikanta Dora	18NR5A0238

*Under the Esteemed Guidance of*  
**Mr. K. Venkateswara Rao, M. Tech**  
Assistant Professor,  
Department of EEE



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
(Affiliated to Jawaharlal Nehru Technological University (JNTU), Kakinada)

Visakhapatnam-530048  
2017-2021

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PILEM,  
MADHURAWADI  
VISAKHAPATNAM - 530 048

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(Affiliated to Jawaharlal Nehru Technological University (JNTU), Kakinada)

DEPARTMENT OF ELECTRICAL & ELECTRONICS

ENGINEERING

VISAKHAPATNAM - 530 048.



## CERTIFICATE

*This is to certify that the thesis work entitled "Stepper Motor Speed Control Using Android Application" that is being submitted by T.YUVARAJU (18NR5A0237), M.HEMANI (17NR1A0213), P.RAJARAO (18NR5A0230), P.DASARADHI (17NR1A0214), V. MUKESH MANIKANTA DORA (18NR5A0238) in partial fulfillment of the requirements for the award of degree of Bachelor of Technology in Electrical & Electronics Engineering to the Jawaharlal Nehru Technological University, Kakinada is a record of bonafide work carried out by he under my guidance and supervision.*


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

  
26.07.2021  
PROJECT GUIDE

Mr. K. VENKATESWARA RAO  
M.Tech Assistant Professor  
Department of EEE

M. SAI GANESH ME, Ph.D.  
Head of The Department,  
Department Of Electrical And Electronics Engineering,  
Baba Institute of Technology And Sciences,  
VISAKHAPATNAM  
HEAD OF THE DEPARTMENT

Mr. M. SAI GANESH  
Assistant Professor & HOD  
Department of EEE

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), E.P., PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

# **ARDUINO BASED ANDROID CONTROLLED ROBOTIC ARM**

**A Thesis submitted in partial fulfillment of the requirements for the award of the degree of  
BACHELOR OF TECHNOLOGY**

**IN  
ELECTRICAL AND ELECTRONICS ENGINEERING**

**By**

<b>P.SAI</b>	<b>(18NR5A0232)</b>
<b>S. BHARGAVI</b>	<b>(18NR5A0236)</b>
<b>M.SURESH KUMAR</b>	<b>(18NR5A0225)</b>
<b>D.SIVA KUMAR</b>	<b>(18NR5A0211)</b>
<b>M.VENKATESH</b>	<b>(17NR1A0210)</b>


**Under the guidance of  
Mr.M.SaiGanesh M.E,(Ph.D)  
Asst. Professor ,HOD  
Department of EEE**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING  
BABA INSTITUTE OF TECHNOLOGY & SCIENCES**

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An ISO 9001-2008 Certified institution  
VISAKHAPATNAM – 530048**

**2017 -2021**

  
**PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNA PALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530048**

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES**  
(Affiliated to Jawaharlal Nehru technological university (JNTU), Kakinada)  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**VISAKHAPATNAM – 530048**

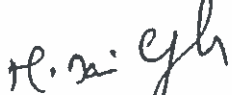


**CERTIFICATE**


This is to certify that the thesis entitled “Arduino Based Android Controlled Robotic Arm” submitted by P.SAI (18NR5A0232) S.BHARGAVI (18NR5A0236) M.SURESH KUMAR (18NR5A0225) D.SIVA KUMAR (18NR5A0211) M.VENKATESH (17N1A0210) in Partial fulfillment of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of project work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.


The Thesis which is based on candidates” own work; have not submitted elsewhere for a degree/diploma.

**PROJECT SUPERVISOR**

  
**Mr. M.Sai Ganesh M.E(Ph.D)**  
**Assistant Professor**  
**Department of EEE**

**HEAD OF THE DEPARTMENT**

  
**Mr.M.Sai Ganesh M.E(Ph.D)**  
**Assistant professor, HOD**  
**Department of EEE**

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048



# **SOLAR PV FED SEPIC CONVERTER BASED BLDC MOTOR FOR WATER PUMP APPLICATION**

*A Thesis submitted in partial fulfillment of the requirements for the award of the degree*

*of*

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

*By*

<b>M.BHARGAVA</b>	<b>(18NR5A0227)</b>
<b>G.GOVINDA</b>	<b>(18NR5A0242)</b>
<b>G.PAVAN KUMAR</b>	<b>(18NR5A0215)</b>
<b>M.NAGAMANI</b>	<b>(17NR1A0212)</b>
<b>N.PARAMESWARA RAO</b>	<b>(18NR5A0228)</b>
<b>K.STEPHEN PAUL</b>	<b>(17NR1A0208)</b>

**Under the guidance of  
Mr.D Rama Krishna M.Tech.,  
Asst. Professor  
Department of EEE**



**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES**

*Approved by AICTE New Delhi & Affiliated to JNTUK, Accredited by NAAC*

**VISAKHAPATNAM - 530048**

**2017-2021**

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BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (M) CAMPUS,  
MADHURAMPETA  
VISAKHAPATNAM - 530048

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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
**VISAKHAPATNAM - 530048**



**CERTIFICATE**

*This is to certify that the thesis entitled "Solar Pv Fed Sepic Converter Based Bldc Motor For Water Pump Application" submitted by M.BHARGAVA (18NR5A0227), G.GOVINDA (18NR5A0242), G.PAVAN KUMAR (18NR5A0215), M.NAGAMANI (17NR1A0212), N.PARAMESWARA RAO (18NR5A0228), K.STEPHEN PAUL (17NR1A0208) in Partial fulfillment of the requirements for the award of Bachelor of Technology in Electrical and Electronics Engineering to the Jawaharlal Nehru Technological University Kakinada is a record of research work carried out by them under my supervision and guidance. The candidates have fulfilled all the prescribed requirements.*

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**PROJECT GUIDE**

**Mr. D. Rama Krishna**  
Assistant Professor

Department of EEE

**HEAD OF THE DEPARTMENT**

**Mr. M. Sai Ganesh**  
Assistant Professor & HOD

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM  
MADHURAWADA  
VISAKHAPATNAM - 530048

Department of EEE  
**M. SAI GANESH** ME (PhD)  
Head Of The Department  
Department Of Electrical And Electronics Engineering  
Baba Institute of Technology And Sciences  
VISAKHAPATNAM

Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [hodme@bitsvizag.com](mailto:hodme@bitsvizag.com)  
Admission code: BABA



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR


## BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

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Bakkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### DEPARTMENT OF MECHANICAL ENGINEERING

List of students for studied course on experiential learning through project work  
Academic Year 2020-21

S.No	Registration Number	Name of the student
1	16131A0303	AARTI CHAKRAVARTHY
2	17NR1A0301	ARSAVALLI DURGA PRASAD
3	17NR1A0302	ASI LIKHITHA
4	17NR1A0303	BALAGA CHINNI
5	17NR1A0304	BATTHILI NAVEEN
6	17NR1A0306	BAVIRI RAJA
7	17NR1A0308	BHOMMIDI SAI
8	17NR1A0310	BODALA HAREESH
9	17NR1A0312	BONDADA AJAY AMBEDKAR
10	17NR1A0313	BONU MANOHAR
11	17NR1A0316	BUDDHA KISHORE KUMAR
12	17NR1A0317	BURLA MANOHAR
13	17NR1A0318	CHEEDIPALLI DILEEP S V V BABU
14	17NR1A0319	DADI GOWRI SHANKAR
15	17NR1A0321	DEESARI BHARGAV
16	17NR1A0322	DIMILI SAI KRISHNA
17	17NR1A0323	DONKADA JAGADEESH
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34	17NR1A0347	MADAKA MANIKANTHA
35	17NR1A0348	MADELA SRINIVAS
36	17NR1A0349	MAJJI GANESH

  
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Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [hodme@bitsvizag.com](mailto:hodme@bitsvizag.com)  
Admission code: BABA



Estd: 2008


Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR

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62	17NR1A0383	VAJJA VINOD KUMAR
63	17NR1A0384	VANGALA KAMESH AVINASH
64	17NR1A0394	POTLA GANESH
65	17NR1A0396	TOMPA KRISHNARAO
66	18NR5A0301	ARANGI ADARSH BABU
67	18NR5A0302	BADANA DILEEP KUMAR
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72	18NR5A0310	DUMPALA HEMASUNDAR
73	18NR5A0311	GAVIREDDY CHANDRA SEKHAR
74	18NR5A0312	GOTIVADA KRISHNA CHAITANYA
75	18NR5A0315	JINAGA VEERA RAJU
76	18NR5A0316	KAPU SASI KANTH

  
**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [hodme@bitsvizag.com](mailto:hodme@bitsvizag.com)  
Admission code: BABA



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR

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Bakkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### DEPARTMENT OF MECHANICAL ENGINEERING

77	18NR5A0317	KARUKU GIRIDHAR
78	18NR5A0319	KOTNI VASAVI
79	18NR5A0320	LINGUBERI SESHAGIRI
80	18NR5A0321	MABAGAPU BHANDHAVI
81	18NR5A0322	MARUVADA BHAVANI SHANKAR
82	18NR5A0323	MATTA CHIRANJEEVI
83	18NR5A0324	MEDISETTI SAMUEL RAJU
84	18NR5A0325	MOGILIPURI DILEEPKUMAR
85	18NR5A0326	MUNAKALA ATCHIMNAIDU
86	18NR5A0327	PARAVADA MUTYALA NAIDU
87	18NR5A0328	PILLA MOUNICA NAGA LAKSHMI BHAVANI
88	18NR5A0329	POTTI KRISHNA VAMSI
89	18NR5A0330	PUDIPEDDI SAI MANOJ
90	18NR5A0331	PUTLA MURALI MOHAN
91	18NR5A0332	RANDHI SURESH
92	18NR5A0334	SAMPATHIRAO GANESH
93	18NR5A0335	SANAPALA SANTHOSH KUMAR
94	18NR5A0336	SANAPATHI LOKESH
95	18NR5A0337	TARRA VENKATALAXMI
96	18NR5A0338	UPPARAPALLI MAMATHA
97	18NR5A0339	UTTARAVALLI PRASANTH KUMAR
98	18NR5A0343	KURUVELLA NIDEESH KUMAR
99	18NR5A0344	METIKOTI MANIKANTA
100	18NR5A0347	SARIPAKA VENKATA SANDEEP KANTH

  
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Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

Department of Mechanical Engineering

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(Approved by AICTE, Affiliated to Jawaharlal Nehru Technological University  
Kakinada) P M Palem, Madhurawada, Vishakapatnam-530048



**PROJECT EVALUATION REPORT**

This is to certify that the bonafide record of the project entitled **LEVEL-2 AUTONOMOUS TRIKE** is submitted by

<b>V VINOD KUMAR</b>	<b>17NR1A0383</b>
<b>M SASI PREETHAM</b>	<b>17NR1A0351</b>
<b>M NAVEEN</b>	<b>17NR1A0358</b>
<b>P M N L BHAVANI</b>	<b>18NR5A0328</b>
<b>M SIRISHA</b>	<b>17NR1A0355</b>
<b>J THARUN</b>	<b>17NR1A0332</b>

Under our guidance in the partial fulfillment of the award of Degree of Bachelor of Technology in Mechanical Engineering from the Baba Institute of Technology and Sciences

Date:

  
Internal Examiner

Head of the Department

**IPS. A.S. BHANU PRASANNA**

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Vishakhapatnam

External Examiner

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**DEPARTMENT OF MECHANICAL ENGINEERING**

*(Approved by AICTE and affiliated to JNTU-Kakinada)*

**P.M. PALEM, MADHURAWADA**

**VISAKHAPATNAM-530048**



**CERTIFICATE**

This is to certify that the project work titled **“NUMERICAL ANALYSIS FOR FLUID FLOW THROUGH HELICAL COILED REVERSE LOOP UNDER CONSTANT HEAT FLUX”** submitted in partial fulfillment for the award of degree of Bachelor of Mechanical Engineering is a bonified work done by,

R. DILEEP KUMAR	(17NR1A0370)
K. RAHUL SAI	(17NR1A0336)
S.P.A. BENERJEE	(17NR1A0374)
U. LOKESH	(17NR1A0381)
P. ABHISHEKH	(17NR1A0364)
K. GIRIDHAR	(18NR5A0317)

Under the esteemed guidance of Mrs. A.S.B PRASANNA M.TECH.(Ph.D.)

Head of the department, Baba Institute of Technology and Sciences, Visakhapatnam

**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

Signature of Internal Examiner

Signature of External Examiner

Department of Mechanical Engineering

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE, Affiliated to Jawaharlal Nehru Technological University Kakinada)

P.M. Palem, Madhurawada, Vishakhapatnam-530048.



**PROJECT EVALUATION REPORT**

This is to certify that the bonafide record of the project entitled **DESIGN AND FABRICATION OF UPPER BODY EXOSKELETON** is submitted by

<b>T.VENKATALAKSHMI</b>	<b>18NR5A0337</b>
<b>M.SAMUEL RAJU</b>	<b>18NR5A0324</b>
<b>V.KAMESH AVINASH</b>	<b>17NR1A0384</b>
<b>S.LOKESH</b>	<b>18NR5A0336</b>
<b>D.MANIKANTA</b>	<b>18NR5A0309</b>
<b>K.RAJESH</b>	<b>17NR1A0339</b>

Under our guidance in the partial fulfillment of the award of Degree of Bachelor of Technology in Mechanical Engineering from the Baba Institute of Technology and Sciences.

Date:

Internal Examiner

Head of the Department

[Mrs. A.S. BHANU PRASANNA]

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Vishakhapatnam  
External Examiner



Department of Mechanical Engineering

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

Approved by AICTE, Affiliated to Jawaharlal Nehru Technological University  
Kakinada)P. M. Palem, Madhurawada, Vishakapatnam-530048.



**CERTIFICATE**

This is to certify that the bonafide record of the project entitled **LEVEL-2 AUTONOMOUS TRIKE** is submitted by

<b>M SASI PREETHAM</b>	<b>17NR1A0355</b>
<b>M SIRISHA</b>	<b>17NR1A0351</b>
<b>M NAVEEN</b>	<b>17NR1A0358</b>
<b>P M N L BHAVANI</b>	<b>18NR5A0328</b>
<b>V VINOD KUMAR</b>	<b>17NR1A0383</b>
<b>J THARUN</b>	<b>17NR1A0332</b>

Under our guidance in the partial fulfillment of the award of Degree of Bachelor of Technology in Mechanical Engineering from the Baba Institute of Technology and Sciences.

Signature of Project Guide

[Mr. K. KAMALAKAR]

Signature of HOD

[Mrs. A.S. BHANU PRASANNA]

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Vishakhapatnam

**DEPARTMENT OF MECHANICAL ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE Affiliated to Jawaharlal Nehru Technological University Kakinada)

P.M. PALEM, MADHURWADA Visakhapatnam -530048



**CERTIFICATE**

This is to certify that the project work entitled “**FABRICATION AND ANALYSIS ON POWER CONSUMPTION OF NATURAL FIBER REINFORCED TABLE FAN WING USING BAMBOO**” submitted by **N. UDAY KRISHNA (17NR1A0360), K. NIDEESH KUMAR (18NR5A0343), S. GANESH (18NR5A0334), P.V.D.S.R. KUMAR (17NR1A0366), P. ABHISHEK (17NR1A0363), C. AARTI (16131A0303)**, in partial fulfillments of the requirements for the award of **Bachelor of Technology Degree in Mechanical Engineering** at **BABA INSTITUTE OF TECHNOLOGICAL AND SCIENCE COLLEGE** from Jawaharlal Nehru Technological University, Kakinada is a record is an authentic work carried out by them under my supervision and guidance.

**Signature of project guide**  
**(Mrs D.V. PADMAJA)**

**Head of the department**  
**(Mrs.A.S.B.PRASANNA)**

**External Examiner**

**PRINCIPAL**  
**Baba Institute of Technology and Sciences**  
**Bakkannapalem (V), Madhurawada (P)**  
**Visakhapatnam**

Department of Mechanical Engineering

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE, Affiliated to Jawaharlal Nehru Technological University  
Kakinada) P.M. Palem, Madhurawada, Vishakapatnam-530048.



**CERTIFICATE**

This is to certify that the bonafide record of the project entitled **LEVEL-2  
AUTONOMOUS TRIKE** is submitted by

<b>M NAVEEN</b>	<b>17NR1A0358</b>
<b>M SASI PREETHAM</b>	<b>17NR1A0351</b>
<b>M SIRISHA</b>	<b>17NR1A0355</b>
<b>P M N L BHAVANI</b>	<b>18NR5A0328</b>
<b>V VINOD KUMAR</b>	<b>17NR1A0383</b>
<b>J THARUN</b>	<b>17NR1A0332</b>

Under our guidance in the partial fulfillment of the award of Degree of Bachelor of  
Technology in Mechanical Engineering from the Baba Institute of Technology and Sciences.

Signature of Project Guide

[Mr. K. KAMALAKAR]

Signature of HOD

[Mrs. A.S. BHANU PRASANNA]

Baba Institute of Technology and Sciences  
Kakinada  
Vishakhapatnam

Department of Mechanical Engineering

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE Affiliated to Jawaharlal Nehru Technological University  
Kakinada)

P.M.Palem, Madhurawada Visakhapatnam-530048



**CERTIFICATE**

This is to certify that this project entitled "FABRICATION AND CHARACTERISATION OF 3D PRINTED COMPOSITE POLYMER" is a Bona-fide work of B.SAI (17NR1A0308), B.CHINNI (17NR1A0303), D.SRINIVAS RAO (17NR1A0325), G.S.K.S.KIRAN (17NR1A0330), M.GANESH (17NR1A0349), R.HEMA SRINIVAS (17NR1A0369). Under our guidance in the partial fulfilment of their requirement for the award of degree of Bachelor of Technology in Mechanical Engineering of Jawaharlal Nehru Technical University, Kakinada is a record is an authentic work carried out by them under my supervision and guidance.

Signature of project guide

(Mr. ANANTH ) (PhD)

MOD. Department of Mechanical Engineering  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
P.M.Palem, Visakhapatnam  
P.M.S.A.S.B.PRASANNA (PhD)

**External Examiner**

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**DEPARTMENT OF MECHANICAL ENGINEERING**

*(Approved by AICTE and affiliated to JNTU-Kakinada)*

**P.M. PALEM, MADHURAWADA**

**VISAKHAPATNAM-530048**



### **CERTIFICATE**

This is to certify that the project work titled **“NUMERICAL ANALYSIS FOR FLUID FLOW THROUGH HELICAL COILED REVERSE LOOP UNDER CONSTANT HEAT FLUX”** submitted in partial fulfillment for the award of degree of Bachelor of Mechanical Engineering is a bonified work done by,

B. RAJA	(17NR1A0306)
B. HAREESH	(17NR1A0310)
P. MANIKANTA	(17NR1A0362)
S. PRABHAKAR	(17NR1A0376)
L. SESHAGIRI	(18NR5A0320)
M. DILEEP KUMAR	(18NR5A0325)

Under the esteemed guidance of **Mrs. A.S. B PRASANNA M. TECH. (Ph.D.)**

Head of the department, Baba Institute of Technology and Sciences, Visakhapatnam, Madhurawada (P) Visakhapatnam.

**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Visakhapatnam, Madhurawada (P)  
Visakhapatnam

Signature of Internal Examiner

Signature of External Examiner

Department of Mechanical Engineering  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
(Approved by AICTE Affiliated to Jawaharlal Nehru  
Technological University Kakinada)

P.M.Palem,  
Madhurawada  
Visakhapatnam

-530048

Est. In 2008



**CERTIFICATE**

This is to certify that the project work entitled "CAD & SIMULATION OF CHASIS FOR LEVEL-2 AUTONOMOUS TRIKE" submitted by K.SASI KANTH [18NR5A0316], CH.SAI VINEETH [18R5A0307], A.ADARSH BABU [18NR5A0301], T.SATYANARAYANA [17NR1A0379], K.SUDHEER [17NR1A0334], M.MANIKANTA [17NR1A0347], in partial fulfillments of the requirements for the award of Bachelor of Technology Degree in Mechanical Engineering at Baba Institute Of Technological and science College, Visakhapatnam is an authentic work carried out by them under my supervision and guidance.

  
Signature of Project Guide

Mrs. SIREESHA, M. Tech  
Assistant Professor  
Department of Mechanical Engineering

  
Signature of Head of the Department

Mrs. A.S. Bhanu Prasanna, M.Tech (Ph.D)  
Associate Professor  
Department of Mechanical Engineering

  
Baba Institute of Technology and Sciences  
Madhurawada (P)  
Visakhapatnam

## APPROVAL OF THE VIVA VOICE BOARD

DATE: -

Certified that the project "CAD & SIMULATION OF CHASIS FOR LEVEL-2 AUTONOMOUS TRIKE" work submitted by, **K.SASI KANTH [18NR5A0316]**, **CH.SAI VINEETH [18R5A0307]**, **A.ADARSH BABU [18NR5A0301]**, **T.SATYANARAYANA [17NR1A0379]**, **K.SUDHEER [17NR1A0334]**, **M.MANIKANTA [17NR1A0347]**, to Baba Institute of Technology and Sciences, Visakhapatnam, in partial fulfillment of requirement to the Jawaharlal Nehru Technological University, Kakinada for the award of Degree Bachelor of Technology in Mechanical Engineering has been accepted by the external examiners and that the students have successfully defended the project work in the VIVAVOCAL examination held today.

  
Internal Examiner

Head of the department

[Mrs. A.S. Bhanu Prasanna] .

External Examiner



Website: www.bitsvizag.com  
Email: ecehod@bitsvizag.com  
Admission code: BABA



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR

### BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE New Delhi, NAAC Accredited, Affiliated to JNTU Kakinada, ISO 9001-2015 Certified)

Bakkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### ELECTRONICS AND COMMUNICATION ENGINEERING

List of Students participated in Project Work in the Academic year 2020-21

Sl. No.	ROLL NUMBER	NAME OF THE STUDENT
1	17NR1A0402	AVANAPU BHANU REKHA
2	17NR1A0403	BATTINI MOUNIKA
3	17NR1A0404	BELAMARA JHANSI
4	17NR1A0405	BOKKA BARGAVI
5	17NR1A0406	BURALLI JAYASRI
6	17NR1A0407	CHANDAKA ANUSHA
7	17NR1A0408	CHINTA BHANU KISHORE
8	17NR1A0409	CHIPPADA DURGA
9	17NR1A0410	GEETA SOWJANYA DEVI SORINGALA
10	17NR1A0411	GIDUTHURI KIRAN
11	17NR1A0412	GUDELA KAKSHAYANI
12	17NR1A0413	GUDIVADA BHAGYALAKSHMI
13	17NR1A0414	GURUGUBILLI ASWANI
14	17NR1A0415	INJARAPU SAI VISHNU VARDHAN
15	17NR1A0416	KARAKA VASANTHI
16	17NR1A0417	KARRI NAGENDRA SAI
17	17NR1A0418	KCHURELEPATI NAVEENA
18	17NR1A0419	KEMBURU RAJESWARI
19	17NR1A0420	KORADA SWARNA LATHA
20	17NR1A0423	MIRIYALA REVATHI
21	17NR1A0424	PAGOTI KUMARI
22	17NR1A0425	PALLULA RANI
23	17NR1A0426	PEDDADA SIRISHA
24	17NR1A0427	PENTA KARTHEEK
25	17NR1A0428	POGIRI SOWMYA
26	17NR1A0429	POLAVARAPU HARITHA
27	17NR1A0432	SAVARA RAJ KUMAR
28	17NR1A0433	SILLA SANGEETA

  
PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam



Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [eehod@bitsvizag.com](mailto:eehod@bitsvizag.com)  
Admission code: **BABA**



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR

## BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE New Delhi, NAAC Accredited, Affiliated to JNTU Kakinada, ISO 9001-2015 Certified)  
Bakkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### ELECTRONICS AND COMMUNICATION ENGINEERING

29	17NR1A0435	SUTHI MRUDULA ROSSELI
30	17NR1A0436	TADDI LEELAVATHI
31	17NR1A0437	TALACHUTLA ARAM JYOTHI
32	17NR1A0438	TALAGANA RANI
33	17NR1A0440	UNKILI NARAYANAMMA
34	17NR1A0441	YEDDU JHANSI
35	17NR1A0443	YELLUMAHANATHI SAI BHARATHI
36	18NR5A0401	ADAPAKA KIRAN
37	18NR5A0402	BUDDA SRINU
38	18NR5A0403	CHADARAM DEVI SIRISHA
39	18NR5A0404	CHINTAPALLI AKHIL
40	18NR5A0405	DATTI UMAMAHESWARARAO
41	18NR5A0406	GONNA GOWTHAMI
42	18NR5A0407	KILIMI ESWARARAO
43	18NR5A0408	MADHUPADA NANDHINI
44	18NR5A0409	NEELAM GURUSHARAN
45	18NR5A0410	PALAPALA KUMARI
46	18NR5A0411	PILLA MANIKANTASWAMI
47	18NR5A0412	PONNADA DIWAKAR
48	18NR5A0413	POTALA VENKATESH
49	18NR5A0414	REVALLA SAIKUMAR
50	18NR5A0415	RUGADA PADMA
51	18NR5A0416	YERRABILLI RANJITHA SAI SUPRIYA
52	18NR5A0417	YALAMANCHI MAHESH
53	18NR5A0418	YARABALA SRAVANTHI

  
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Baba Institute of Technology and Sciences  
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Visakhapatnam

  
**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# STATIC POWER DISSIPATION BY USING BIASING AND BODY BIASING TECHNIQUES

*A 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**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**KCHURELEPATI NAVEENA**

**(17NR1A0418)**

**PENTA KARTHEEK**

**(17NR1A0427)**

**PALAPALA KUMARI**

**(18NR5A0410)**

**YERRABILLI RANJITHA**

**(18NR5A0416)**

*Under the esteemed Guidance of*

**Mr. K. PRADEEP, M. Tech., (Ph.D.)**

**Associate Professor**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)**

**Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048**

**2017 - 2021**

**PRINCIPAL**

**Baba Institute of Technology and Sciences**  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)

Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048



**CERTIFICATE**

This is to certify that the project work entitled “ Static Power Dissipation By Using Biasing and Body Biasing Techniques” is a Bonafide record of work done by **K.NAVEENA (Regd.No.17NR1A0418), P.KARTHEEK (Regd.No.17NR1A0427), P.KUMARI(Regd.No.18NR5A0410),Y.RANJITHA(Regd.No.18NR5A0416)** under the supervision of **Mr. K.PRADEEP, M. Tech.,(Ph.D.)**, Associate professor for the partial fulfillment for the award of the degree of **BACHELOR OF TECHNOLOGY** in Electronics and communication Engineering at **Jawaharlal Nehru Technological University, Kakinada** during the academic year 2017 – 2021.



**Project Guide**

**Mr. K. PRADEEP, M. Tech., (Ph.D.)**  
**Associate Professor**



**Head of the Department**

**Mr. K. PRADEEP, M. Tech., (Ph.D.)**  
**Associate Professor**

**Head of the Department**

**Electronics & Communication Engineering**  
**BABA INSTITUTE OF TECH. AND SCIENCE**

**EXTERNAL EXAMINER**  
**BAKKANAPALEM, VISAKHAPATNAM - 41**



**PRINCIPAL**

**Baba Institute of Technology and Sciences**  
**Bakkannapalem (V), Madhurawada (P)**  
**Visakhapatnam**

# DESIGN OF LOW POWER HIGH SPEED DOUBLE TAIL COMPARATOR USING POWER GATING TECHNIQUES

*A 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**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted by**

<b>GONNA GOWTHAMI</b>	<b>(18NR5A0406)</b>
<b>CHINTHAPALLI AKHIL</b>	<b>(18NR5A0404)</b>
<b>CHANDAKA ANUSHA</b>	<b>(17NR1A0407)</b>
<b>CHADARAM DEVI SIRISHA</b>	<b>(18NR5A0403)</b>

*Under the esteemed Guidance of*

**Ms. T. KAVYA RAVALI, M. Tech.**

**Assistant Professor**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**PRINCIPAL**

**BABA Institute of Technology and Sciences**

**Bakkannapalem (V), Madhurawada (P)**

**Visakhapatnam**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)**

**Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048**

**2017 - 2021**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)

Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048



## CERTIFICATE

This is to certify that the project work entitled “ Design of low power high speed double tail comparator using power gating techniques ” is a bonafide record of work done by **G.GOWTHAMI** (Regd.No. 18NR5A0406), **CH.AKHIL** (Regd.No. 18NR5A0404), **CH.ANUSHA** (Regd.No.17NR1A0407), **CH.DEVI SIRISHA** (Regd.No.18NR5A0403) under the supervision of **Ms. T. KAVYA RAVALI**, M. Tech., Assistant professor for the partial fulfillment for the award of the degree of **BACHELOR OF TECHNOLOGY** in Electronics and communication Engineering at **Jawaharlal Nehru Technological University, Kakinada** during the academic year 2017 – 2021.

**PROJECT GUIDE**

**Ms. T.KAVYA RAVALI, M. Tech.**

**Assistant Professor**

**HEAD OF THE DEPARTMENT**

**Mr. K. PRADEEP, M. Tech., (Ph.D.)**

**Associate Professor  
Head of the Department  
Electronics & Communication Engineering  
BABA INSTITUTE OF TECH. AND SCIENCES  
PM PALEM, VISAKHAPATNAM - 41**

**PRINCIPAL**  
**Baba Institute of Technology and Sciences**  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**EXTERNAL EXAMINER**

# **A NOVEL TECHNIQUE OF MOSAIC IMAGE TRANSMISSION FOR SECURE DATA TRANSFER**

*A project report submitted to*

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

*In partial fulfilment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**in**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted by**

**KORADA SWARNALATHA**

**(17NR1A0420)**

**BOKKA BARGAVI**

**(17NR1A0405)**

**POGIRI SOWMYA**

**(17NR1A0428)**

**PILLA MANIKANTA SWAMY**

**(18NR5A0411)**

*Under the esteemed Guidance of*

**Mr. A. Satyanarayana, M. Tech**

**Assistant Professor**



---

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)**

**Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048**

**2017 - 2021**

  
**PRINCIPAL**  
**Baba Institute of Technology and Sciences**  
**Bakkanapalem (V), Madhurawada (P)**  
**Visakhapatnam**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)

Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048



**CERTIFICATE**

This is to certify that the project work entitled “A Novel Technique of Mosaic Image Transmission for Secure Data Transfer” is a bonafide record of work done by **K.SWARNALATHA** (Regd.No.17NR1A0420), **B.BARGAVI** (Regd.No.17NR1A0405), **P.SOWMYA** (Regd.No.17NR5A0428), **P.MANIKANTA SWAMY** (Regd.No.18NR5A0411) under the supervision of **Mr. A. SATYANARAYANA, M. Tech.**, Assistant professor for the partial fulfilment for the award of the degree of **BACHELOR OF TECHNOLOGY** in Electronics and communication Engineering at **Jawaharlal Nehru Technological University, Kakinada** during the academic year 2017 – 2021.

**Project Guide**

**Mr. A. Satyanarayana, M. Tech**  
**Assistant Professor**

**Head of The Department**

**Mr. K. Pradeep**  
**Head of the Department**  
**Electronics & Communication Engineering**  
**BABA INSTITUTE OF TECH. AND SCIENCES**  
**PM PALEM, VISAKHAPATNAM - 41**

**PRINCIPAL**  
**Baba Institute of Technology and Sciences**  
**Bakkannapalem (V), Madhurawada (P)**  
**Visakhapatnam**

**EXTERNAL EXAMINER**

# IOT BASED GARBAGE MONITORING SYSTEM USING ARDUINO

*A 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**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted by**

**B.SRINU**

**(18NR5A0402)**

**P.VENKATESH**

**(18NR5A0413)**

**P.RANI**

**(17NR1A0425)**

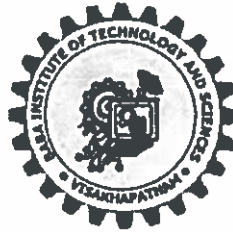
**S.RAJKUMAR**

**(17NR1A0432)**

*Under the esteemed Guidance of*

**Mr. P.K.SURESH , M. Tech., M.B.A**

*Associate Professor*



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE, Accredited by NAAC New Delhi & Affiliated to JNTU,  
Kakinada, A.P) Bakkannapalem (V), Madhurawada, VISAKHAPATNAM – 530048

**2017 – 2021**

**PRINCIPAL**

**Baba Institute of Technology and Sciences**  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P) Bakkanapalem (V),  
Madhurawada, VISAKHAPATNAM – 530048



**CERTIFICATE**

This is to certify that the project work entitled "IOT BASED GARBAGE MONITORING SYSTEM USING ARDUINO" is bonafide record of work done by B.SRINU (Regd.no.18NR5A0402), P.VENKATESH (Regd.no.18NR5A0413), P.RANI (Regd.no.17NR1A0425), S.RAJKUMAR (Regd.no.17NR1A0432), under the supervision of Mr. P.K. SURESH, M. Tech.,M.B.A, Assistant Professor for the partial fulfilment for the award of the degree of BACHELOR OF TECHNOLOGY in Electronics and Communication Engineering at Jawaharlal Nehru Technological University, Kakinada during the academic year 2017 – 2021.

  
Project Guide

Mr. P.K.SURESH, M. Tech., M.B.A

Associate Professor

  
Head of the Department

Mr. K.PRADEEP M. Tech., (Ph.D.)

Head of the Department  
Electronics & Communication Engineering  
BABA INSTITUTE OF TECH. AND SCIENCES  
PM PALEM, VISAKHAPATNAM - 41

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
Bakkanapalem (V), Madhurawada (P)  
Visakhapatnam

EXTERNAL EXAMINER

# REMOTE PATIENT HEALTH MONITORING USING IOT

*A 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**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted by**

<b>A.BHANUREKHA</b>	<b>(17NR1A0402)</b>
<b>CH.BHANUKISHORE</b>	<b>(17NR1A0408)</b>
<b>T.ARAM JYOTHI</b>	<b>(17NR1A0437)</b>
<b>R.SAI KUMAR</b>	<b>(18NR5A0414)</b>
<b>Y.SRAVANTHI</b>	<b>(18NR5A0418)</b>

*Under the esteemed Guidance of*

**Mr. P.K.SURESH , M. Tech., M.B.A**

*Associate Professor*



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE, Accredited by NAAC New Delhi & Affiliated to JNTU,  
Kakinada, A.P) Bukkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048

**2017 – 2021**

**PRINCIPAL**  
**BABA Institute of Technology and Sciences**  
Bukkannapalem (V), Madhurawada (P)  
Visakhapatnam

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P) Bakkannapalem (V).

Madhurawada, VISAKHAPATNAM - 530048



**CERTIFICATE**

This is to certify that the project work entitled "REMOTE PATIENT HEALTH MONITORING USING IOT" is bonafide record of work done by A. BHANUREKHA (Regd.no.17NR1A0402) , Ch. BHANUKISHORE (Regd.no.17 NR1A0408), T.ARAMEJYOTHI (Regd.no.17NR1A0437), R. SAIKUMAR (Regd.no. 18NR5A0414), Y.SRAVANTHI (Reg.no.18NR5A0418), under the supervision of Mr. P.K. SURESH, M.Tech., M.B.A, Associate Professor for the partial fulfilment for the award of the degree of BACHELOR OF TECHNOLOGY in Electronics and Communication Engineering at Jawaharlal Nehru Technological University, Kakinada during the academic year 2017 – 2021.

  
**Project Guide**

Mr. P.K. SURESH, M.Tech., M.B.A

Associate Professor

  
**Head of the Department**

Mr. K. PRADEEP, M.Tech., (Ph.D.)

~~Head of the Department~~  
**Head of the Department**  
Electronics & Communication Engineering  
BABA INSTITUTE OF TECH. AND SCIENCES  
PM PALEM, VISAKHAPATNAM - 41

  
**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**EXTERNAL EXAMINER**

# IMPLEMENTATION OF LOW POWER FULL ADDER USING CMOS TECHNOLOGY

*A project report submitted to*

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

*In partial fulfilment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**in**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

<b>SILLA SANGEETA</b>	<b>(17NR1A0433)</b>
<b>TADDI LEELAVATHI</b>	<b>(17NR1A0436)</b>
<b>UNIKILI NARYANAMMA</b>	<b>(17NR1A0440)</b>
<b>NEELAM GURU SHARAN</b>	<b>(18NR5A0409)</b>

*Under the esteemed Guidance of*

**Mrs. G.MOULIKA , M. Tech.**

**Assistant Professor**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)**

**Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048**

**2017 – 2021**

**PRINCIPAL**  
**Baba Institute of Technology and Sciences**  
**Bakkanapalem (V), Madhurawada (P)**  
**Visakhapatnam**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)

Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048



**CERTIFICATE**

This is to certify that the project work entitled “Implementation of Low Power Full Adder Using CMOS Technology” is bonafide record of work done by S. SANGEETA(Regd.no.17NR1A0433), T. LEELAVATHI (Regd.no.17NR1A0436), U.NARYANAMMA(Regd.no.17NR1A0440),N.SHARAN(Regd.no.18NR5A0409), under the supervision of Mrs. G. MOULIKA, M. Tech. Assistant Professor for the partial fulfilment for the award of the degree of **BACHELOR OF TECHNOLOGY** in Electronics and Communication Engineering at Jawaharlal Nehru Technological University, Kakinada during the academic year 2017– 2021.

For *CH. Jomali*  
Project Guide

Mrs. G. MOULIKA, M.Tech.

Assistant Professor

*[Signature]*  
Head of the Department

Mr. K. PRADEEP, M. Tech., (Ph.D.)

Associate Professor  
Head of the Department  
Electronics & Communication Engineering  
BABA INSTITUTE OF TECH. AND SCIENCES  
PM PALEM, VISAKHAPATNAM - 41

**EXTERNAL EXAMINER**

*[Signature]*  
**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkanapalem (V), Madhurawada (P)  
Visakhapatnam

# REAL TIME FACE DETECTION AND RECOGNITION SYSTEM

*A project report submitted to*

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

*In partial fulfilment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**in**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**PAGOTI KUMARI**

**(17NR1A0424)**

**KARRI NAGENDRA SAI**

**(17NR1A0417)**

**YEDDU JHANSI**

**(17NR1A0441)**

**PONNADA DIWAKAR**

**(18NR5A0412)**

*Under the Guidance of*

**Mr. K. PRADEEP, M. Tech., (Ph.D.)**

**Associate Professor**



---

**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)**

**Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048**

**2017 – 2021**

**PRINCIPAL**  
**Baba Institute of Technology and Sciences**  
**Bakkannapalem (V), Madhurawada (P)**  
**Visakhapatnam**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)  
Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048



**CERTIFICATE**

This is to certify that the project work entitled "REAL TIME FACE DETECTION AND RECOGNITION SYSTEM " is a bonafide record of work done by P.KUMARI (Regd. No. 17NR1A0424),K.NAGENDRA SAI (Reg.No:17NR1A0417),Y.JHANSI(Regd.No.17NR1A0441), P.DIWAKAR (Regd.No.18NR5A0412) under the supervision of Mr. K. PRADEEP , M. Tech.,(Ph.D.), Associate professor for the partial fulfilment for the award of the degree of BACHELOR OF TECHNOLOGY in Electronics and communication Engineering at Jawaharlal Nehru Technological University, Kakinada during the academic year 2017 – 2021.



**Project Guide**

**Mr. K. PRADEEP, M. Tech.,(Ph.D.)**  
Associate Professor



**Head of The Department**

**Mr. K. PRADEEP , M. Tech.,(Ph.D.)**  
Associate Professor

**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**Head of the Department**  
Electronics & Communication Engineering  
BABA INSTITUTE OF TECH. AND SCIENCES  
PM PALEM, VISAKHAPATNAM - 41

**EXTERNAL EXAMINER**

# IMPLEMENTATION OF HIGH SPEED LOWER POWER CARRY SKIP ADDER

*A project report submitted to*  
**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**  
*In partial fulfillment of the required for the award of the degree*

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

**Submitted by**

<b>GURUGUGUBILLI ASWANI</b>	<b>(17NR1A0414)</b>
<b>GEETHA SOWJANYA DEVI SORINGALA</b>	<b>(17NR1A0410)</b>
<b>GIDUTHURI KIRAN</b>	<b>(17NR1A0411)</b>
<b>GUDIVADA BHAGYALAKSHMI</b>	<b>(17NR1A0413)</b>
<b>YEJALA LAKSHMIKALA</b>	<b>(17NR1A0442)</b>

**Under the esteemed Guidance of**  
**Mr. Y.V.SRICHARAN, M.Tech.**  
**Assistant Professor**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)**

**Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048**

**2017-2021**

**PRINCIPAL**  
**Baba Institute of Technology and Sciences**  
**Bakkanapalem (V), Madhurawada (P)**  
**Visakhapatnam**



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
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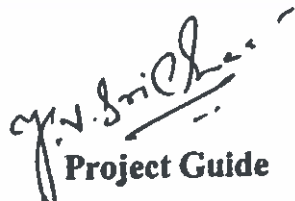
(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)

Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048



**CERTIFICATE**

This is to certify that the project work entitled “Implementation of high speed low power carry skip adder” is a bonafide record of work done by **G.ASWANI(Regd.No.17NR1A0414),S.GEETHASOWJANYADEVI(Regd.No.17NR1A0410),G.KIRAN(Regd.No.17NR1A0411),G.BHAGYALAKS HMI(Regd.No.17NR1A0413),Y.LAKSHMIKALA(Regd.No.17NR1A0442)** under the supervision of **Mr. Y.V.SRICHARAN,M.Tech.,Assistant professor** for the partial fulfillment for the award of the degree of **BACHELOR OF TECHNOLOGY** in Electronics and communication Engineering at **Jawaharlal Nehru Technological University, Kakinada** during the academic year 2017– 2021.

  
Project Guide

**Mr. Y.V.SRICHARAN,M.Tech**  
**Assistant Professor**



**Head of the Department**  
**Mr.K.PRADEEP,M.Tech.,(Ph.d)**

**Associate Professor**  
**Head of the Department**  
**Electronics & Communication Engineering**  
**BABA INSTITUTE OF TECH. AND SCIENC.**  
**PIA PALEM, VISAKHAPATNAM - 53**

**EXTERNAL EXAMINER**

  
**PRINCIPAL**

**Baba Institute of Technology and Sciences**  
**Bakkannapalem (V), Madhurawada (P)**  
**Visakhapatnam**

# Detection and Avoidance of Obstacles using Autonomous Vehicle

*A project report submitted to*

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

*In partial fulfilment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

in

**ELECTRONICS AND COMMUNICATION ENGINEERING**

Submitted by

**D.UMAMAHESWARARAO**

**(18NR5A0405)**

**B.JHANSI**

**(17NR1A0404)**

**M.REVATHI**

**(17NR1A0423)**

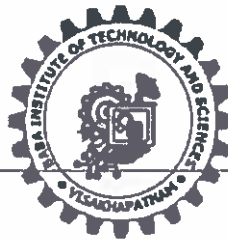
**P.SIRISHA**

**(17NR1A0426)**

*Under the esteemed Guidance of*

**Mr. H. SIVACHANUKYA DORA M. Tech.,**

**Assistant Professor**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)**

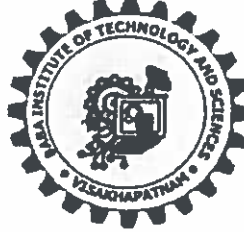
**Bakkannapalem (V), Madhurawada, Visakhapatnam – 530048**

**2017-2021**

**PRINCIPAL**

**Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES (Approved by AICTE,  
New Delhi & Affiliated to JNTU, Kakinada, A.P) Bakkannapalem (V), Madhurawada,  
Visakhapatnam – 530048



## CERTIFICATE

This is to certify that the project work entitled “Detection and Avoidance of Obstacles using Autonomous Vehicle” is a bonafide record of work done by **D. UMAMAHESWARARAO** (Regd.No.18NR5A0405), **B. JHANSI** (Regd.No.17NR1A0404), **M. REVATHI** (Regd.No.17NR1A0423), **P. SIRISHA** (Regd.No.17NR1A0426), Under the supervision of **Mr. H. SIVACHANUKYA DORA** M. Tech., Assistant Professor for the partial fulfilment for the award of the degree of **BACHELOR OF TECHNOLOGY** in Electronics and Communication Engineering at **Jawaharlal Nehru Technological University, Kakinada** during the academic year 2017 – 2021.

  
**Project Guide**

  
**Head of the Department**

**Mr. H. SIVACHANUKYA DORA**, M. Tech.,

**Mr. K. PRADEEP**, M. Tech., (Ph.D)

**Assistant Professor**

**Associate Professor**

  
**PRINCIPAL**

**Baba Institute of Technology and Sciences**  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**EXTERNAL EXAMINER**

**DETECTION OF MYOCARDIAL INFARCTION (MI) FROM ECG  
SIGNAL USING DWT**

*A Project report submitted to*

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

*in partial fulfillment of the requirements for the award of degree of*

**BACHELOR OF TECHNOLOGY**

**in**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted by**

<b>SUTHI MRUDULA ROSSELIE</b>	<b>(17NR1A0435)</b>
<b>YELLUMAHANTHI SAI BHARATHI</b>	<b>(17NR1A0443)</b>
<b>BATTINI MOUNIKA</b>	<b>(17NR1A0403)</b>
<b>INJARAPU SAI VISHNU VARDHAN</b>	<b>(17NR1A0415)</b>

*Under the esteemed Guidance of*

**Mr. P. GANESH, M.Tech**

**Assistant Professor**

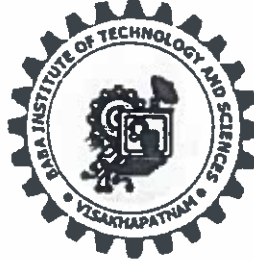


**Department of Electronics and Communication Engineering**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)  
Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048

**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkanapalem (V), Madhurawada (P)  
Visakhapatnam

**2017-2021**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada. A.P) Bakkannapalem (V).  
Madhurawada, VISAKHAPATNAM – 530048



### CERTIFICATE

This is to certify that the project titled **DETECTION OF MYOCARDIAL INFARCTION (MI) FROM ECG SIGNAL USING DWT** is a bonafide record of the work done by **S. M. Rosselie (Regd No. 17NR1A0435), Y. Sai Bharathi (Regd No. 17NR1A0443), B. Mounika (Regd No. 17NR1A0403), I. Sai Vishnu Vardhan (Regd No. 17NR1A0415)** in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology of Baba Institute of Technology and Sciences affiliated to Jawaharlal Nehru Technological University, Kakinada of the academic year 2017-2021.

  
26/7/21.  
Project Guide

Mr. P. GANESH, M. Tech

Assistant Professor

  
Head of the Department  
Electronics & Communication Engineering  
BABA INSTITUTE OF TECH AND SCIENCES  
PM PALEM, VISAKHAPATNAM

Mr. K. PRADEEP, M. Tech (Ph.D)

Associate Professor

### EXTERNAL EXAMINER

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# A Study of Tracking Applications using Linear Kalman Filter

*A project report submitted to*

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA**

*In partial fulfilment of the requirements for the award of the degree of*

**BACHELOR OF TECHNOLOGY**

**in**

**ELECTRONICS AND COMMUNICATION ENGINEERING**

**Submitted by**

**KARAKA VASANTHI**

**(17NR1A0416)**

**RUGADA PADMA**

**(18NR5A0415)**

**KILIMI ESWARARAO**

**(18NR5A0407)**

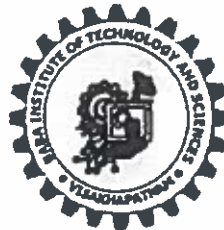
**MADHUPADA NANDHINI**

**(18NR5A0408)**

*Under the esteemed Guidance of*

**Ms. Shaik Reshma Begam, M. Tech.**

**Assistant Professor**



**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)**

**Bakkannapalem (V), Madhurawada, VISAKHAPATNAM – 530048**

**2017 - 2021**

**PRINCIPAL**

**Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam**

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)  
Bakkannapalem (V), Madhurawada, VISAKHAPATNAM – 530048



**CERTIFICATE**

This is to certify that the project work entitled " A Study of Tracking Applications using Linear Kalman Filter " is a bonafide record of work done by **K.VASANTHI (Regd.No. 17NR1A0416),R.PADMA(Regd.No.18NR5A0415),K.ESWARARAO(Regd.No.18NR5A0407), M.NANDHINI(Regd.No.18NR5A0408)** under the supervision of **Ms. SHAIK RESHMA BEGAM, M. Tech.,** Assistant professor for the partial fulfilment for the award of the degree of **BACHELOR OF TECHNOLOGY** in Electronics and communication Engineering at Jawaharlal Nehru Technological University, Kakinada during the academic year 2017 – 2021.

*Shaik. Reshma begam*  
**Project Guide**

**Ms. SHAIK RESHMA BEGAM, M. Tech.**  
**Assistant Professor**

*[Signature]*  
**Head of The Department**

**Mr. K. PRADEEP, M.Tech.,(Ph.D.)**  
**Associate Professor**

**head of the Department**  
**Electronics & Communication Engineering**  
**BABA INSTITUTE OF TECH. AND SCIENCES**  
**PM PALEM, VISAKHAPATNAM - 41**

*[Signature]*  
**PRINCIPAL**

**Baba Institute of Technology and Sciences**  
**Bakkannapalem (V), Madhurawada (P)**  
**Visakhapatnam**

**EXTERNAL EXAMINER**

Website: www.bitsvizag.com  
Email: babacsehod@gmail.com  
Admission code: BABA



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR

## BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE New Delhi, NAAC Accredited, Affiliated to JNTU Kakinada, ISO 9001-2015 Certified)  
Bakkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

#### Students list for A.Y 2020-21(Project work)

Sl. No	Roll Number	Name of the student
1	17NR1A0516	B.Pavitra
2	17NR1A0534	K.Sanjana
3	17NR1A0518	CH.Mahesh
4	17NR1A0532	I.Priya
5	17NR1A0503	A.Devi
6	17NR1A0506	B.Mamata
7	17A61A0504	B.Lova Mahesh
8	17NR1A0501	A.Venkaatesh
9	17NR1A0529	G.Sai Kumar
10	17NR1A0523	G.Lohit chandu
11	17NR1A0511	B.Sai sneha
12	17NR1A0514	B.Meenakshi
13	17NR1A0542	K.Pavan teja
14	17NR1A0519	D.Sushma
15	17NR1A0521	E.Ravi teja
16	17NR1A0522	G. Satish kumar
17	17NR1A0533	J. Jayavardhini
18	17NR1A0508	B.Devi
19	17NR1A0527	G. Mohan kumar
20	17NR1A0543	K.Kumari
21	17NR1A0544	K. Pradeepthi
22	17NR1A0526	G. Mamatha
23	17NR1A0512	B. Radha manohara reddy
24	17NR1A0545	K.Ganga pavani
25	17NR1A0536	K.Vasantha
26	17NR1A0502	A. Ramteja
27	17NR1A0509	B. Paidiraju
28	17NR1A0557	N. EUNICE RANI
29	18NR5A0506	G. Nagendra
30	17NR1A0553	M. Anil
31	17NR1A0556	M. Rajkumar
32	18NR5A0507	G.Sumathi
33	17NR1A0580	S. Rambabu

PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (M), Madhurawada (P)  
Visakhapatnam



Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [babacsehod@gmail.com](mailto:babacsehod@gmail.com)  
Admission code: BABA



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### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

34	17NR1A0582	T. Jyothsna
35	17NR1A0561	P. Pratyusha
36	17NR1A0583	T. Ramalakshmi
37	17NR1A0584	U. Sadhika
38	17NR1A0564	P.Hindu
39	18NR5A0502	A. Nooka raju reddy
40	18NR5A0514	U.Lakshmi
41	18NR5A0511	M. Praneeth
42	17NR1A0552	M. Rakesh
43	17NR1A0587	Y. Lokeswari
44	17NR1A0573	S.B Venkatesh
45	17NR1A0581	S. krishna rao
46	17NR1A0555	M. Jagadeeswari
47	18NR5A0509	K. Santosh
48	17NR1A0563	P. Akash
49	17NR1A0575	S.Jayakumari
50	18NR5A0503	B.Kesava vardhana raju
51	18NR5A0501	A. Sarada
52	17NR1A0570	S.Sudha rani
53	17NR1A0576	S. Stephen paul
54	17NR1A0567	R. Maheshwari
55	18NR5A0512	M. Sailaja
56	18NR5A0510	K. Ganapathi
57	17NR1A0574	S. Rohith
58	18NR5A0504	B.Pushpa
59	18NR5A0515	V. Rohini
60	17NR1A0558	P. Ashok
61	17NR1A0572	S. Chandini
62	17NR1A0566	P.Raviteja
63	18NR5A0513	S.Naga siva
64	17NR1A0585	V. Mohan krishna
65	17NR1A0578	S. Chand basha
66	18NR5A0508	I.Hyma
67	17NR1A0565	P. Venu
68	17NR1A0579	S. Kalyana devi
69	17NR1A0586	V.Satya geethanjali
70	17NR1A0549	L.R Charishma
71	17NR1A0539	K. Jyostna
72	17NR1A0541	K. Narendra
73	17NR1A0535	K.Sasi kiran kumar

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P),  
Visakhapatnam

Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [babacsehod@gmail.com](mailto:babacsehod@gmail.com)  
Admission code: BABA



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(Approved by AICTE New Delhi, NAAC Accredited, Affiliated to JNTU Kakinada, ISO 9001-2015 Certified)  
Bakkannapalem Village, Madhurawada Post, Visakhapatnam - 530 048

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

74	17NR1A0540	K.Naveen
75	17NR1A0550	M. Swarna Latha
76	17NR1A0513	B.Vandhana
77	15NR1A0527	M. Neeraj Abhishek
78	17NR1A0524	G. Uma Lakshmi
79	17NR1A0505	B.Nani
80	17NR1A0537	K.Sarath
81	17NR1A0528	G.Bhavana
82	17A61A0520	K.Sudheer
83	17NR1A0515	B.Poorna Kumari
84	17NR1A0531	I. Hema sri
85	17NR1A0547	K.S.N Ramesh
86	17NR1A0507	B. Manohar
87	17NR1A0531	G.Sri Venkatesh

  
PRINCIPAL  
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Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam



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**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "Credit Card Fraud Detection using Machine Learning Methods" is bonafide work done by G. Uma Lakshmi (17NR1A0524), B. Nani (17NR1A0505), K. Sarath (17NR1A0537), G. Bhavana (17NR1A0528), K. Sudheer (17A61A0520), during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, (Affiliated to J.N.T.U. Kakinada), P.M.Palem, Madhurwada, Visakhapatnam.

  
Project Guide

Mr K S N Murthy  
Assistant Professor

  
Head of the Department

Dr CH Pavan Satish  
Assistant Professor



PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BANKAMPALLEM (V), P.M. PALEM,  
MADHURWADA  
VISAKHAPATNAM - 530 018

  
EXTERNAL EXAMINER



**BITS**  
**VIZAG**



## **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

### **CERTIFICATE**

This is to certify that the project work entitled "ONLINE WHOLESALE SHOPPING WEBSITE" is bonafide work done by S . JAYA KUMARI (17NR1A0575), A.SARADA (18NR5A0501 ), B. KESAVA VARDHANA RAJU ( 18NR5A0503 ), S. SUDHA RANI ( 17NR1A0570 ), S. STEPHEN PAUL ( 17NR1A0576 ) during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**, (Affiliated to J.N.T.U. Kakinada), P.M.Palem, Madhurwada, Visakhapatnam.

  
Project Guide

Mrs.B.APARNA

  
Head of the Department

Dr.CH.Pavan Satish



PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

  
EXTERNAL EXAMINER

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada, A.P)  
Bakkanapalem (V), Madhurawada, VISAKHAPATNAM – 530048



## CERTIFICATE


This is to certify that the project work entitled “Drowsiness Detection System using OpenCV and Dlib” is a bonafide record of work done by M.PRANEETH (Redg.No. 18NR5A0511), M.RAKESH (Redg.No. 17NR1A0552), U.LAKSHMI (Redg.No. 18NR5A0514), V.LOKESWARI (Redg.No. 17NR1A0587), S.B.VENKATESH (Redg.No. 17NR1A0573) under the supervision of Mrs.R.JAYA, M.Tech., Assistant professor, for the partial fulfilment for the award of the degree of Bachelor Of Technology in COMPUTER SCIENCE AND ENGINEERING at Jawaharlal Nehru Technological University, Kakinada during the academic year 2017 – 2021.

  
Project Guide

**Mrs. R. JAYA, M.Tech**  
**Assistant professor**

  
Head of the Department

**Dr. PAVAN SATISH, Ph.D**  
**Associate Professor**

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

  
**EXTERNAL EXAMINER**



**BOTS**  
**VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**CERTIFICATE**

This is to certify that the project work entitled "SEMI-SUPERVISED MACHINE LEARNING APPROACH FOR DDOS" is bonafide work done by T.RAMALAKSHMI - 17NR1A0583, U.SADHIKA - 17NR1A0584, P.HINDU - 17NR1A0564, A.NOOKARAJU REDDY- 18NR5A0502 during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, Visakhapatnam (Affiliated to J.N.T.U., Kakinada).


  
Project Guide

**P.JOSHUA RAJU, M.Tech(Ph.D.)**  
Assistant Professor

  
Head of the Department

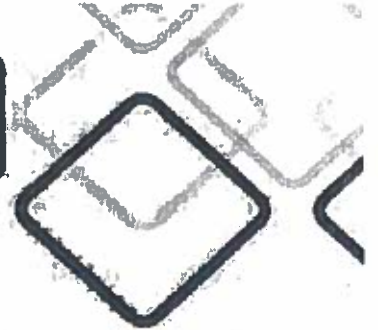
**Mr. Dr. Ch. Pavan Satish (M.Tech,P.hd)**

  
EXTERNAL EXAMINER

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048



**BITS**  
**VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
**DEPARTMENT OF CSE**

**CERTIFICATE**

This is to certify that the project work entitled "MONITORING SYSTEM FOR DETECTION OF DRIVER TORPIDITY USING VGG-16 DEEP LEARNING MODEL" is bonafide work done by. B. POORNA KUMARI (17NR1A0515), K.S.N RAMESH (17NR1A0547), B.MANO HAR (17NR1A0507), G.SRI VENKATESH (17NR1A0530), I.HEMA SRI (17NR1A0531) during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, (Affiliated to J. N. T. U. Kakinada), P.M Palem, Madhurawada, Visakhapatnam.

**Project Guide**

**Mr. P JOSHUA RAJU**

Assistant Professor

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPELEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

**EXTERNAL EXAMINER**

**Head of the Department**

**DR. CH PAVAN SATISH**

Associate Professor



# BITS VIZAG



## BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

### CERTIFICATE

This is to certify that the project work entitled "SPEECH TO TEXT CONVERTER USING PYTHON" is bonafied work done by L.R. CHARISHMA-17NR1A0549, K. JYOSTNA-17NR1A0539, K. NARENDRA-17NR1A0541, K. SASI KIRAN KUMAR- 17NR1A0535, during the year 2017-2021 in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, Visakhapatnam (Affiliated to J.N.T.U., Kakinada).

**Project Guide**

**Maddi Sri V.S. Suneeta**

(Assistant professor)

*M.S.V.S. Suneeta*  
30/7/2021

**Head of the Department**

**Dr. CH. Pavan Sathish**

(Associate professor)

*CH. Pavan Sathish*  
30-7-21

*[Signature]*  
EXTERNAL EXAMINER

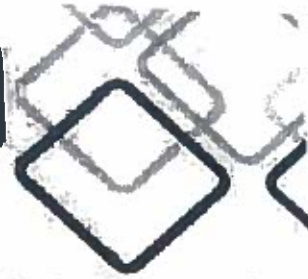
*[Signature]*  
PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048





**BITS**  
**VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**CERTIFICATE**

This is to certify that the project work entitled "A FACEMASAK DETECTION USING CNN" is bonafied work done by **G.SUMATHI-18NR5A0507, S.RAMBABU-17NR1A0580, T.JYOTHSNA-17NR1A0582, P.PRATHYUSHA-17NR1A0561** , during the year 2017-2021 in partial fulfillment of the requirements for the award of degree of **BACHELOR OF TECHNOLOGY** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, Visakhapatnam (Affiliated to J.N.T.U., Kakinada).**

**Project Guide**

**MADDI SRI V.SUNEETA**

(Assistant professor)

*M.S.V.S. Suneeta*  
30/1/2021

**Head of the Department**

**Mr. G.PAVAN SATHISH**

(PHD)

*G.Pavan Sathish*  
20/1/21

*[Signature]*  
**EXTERNAL EXAMINER**

**PRINCIPAL**  
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
**BAKKANNAPALEM (V), P.M. PALEM,**  
**MADHURAWADA**  
**VISAKHAPATNAM - 530 048**

Department of Computer Science and Engineering



**BITS**  
**VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**CERTIFICATE**

This is to certify that the project work entitled "A COMPARATIVE STUDY ON DISEASE PRIDITION USING SUPERVISED MACHINE LEARNING ALGORITHEM" is bonafied work done by LHYMA-18NR5A0508, P.VENU-17NR1A0565,S.KALYANADEVI-17NR1A0579,V.SATYAGEETANJALI-17NR1A0586 , during the year 2017-2021 in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, Visakhapatnam (Affiliated to J.N.T.U., Kakinada).

  
Project Guide

(Prof Dr.Ch.Pavan Sathish)

  
Head of the Department

Mr. Dr. Ch. Pavan Satish,

Assoc. prof

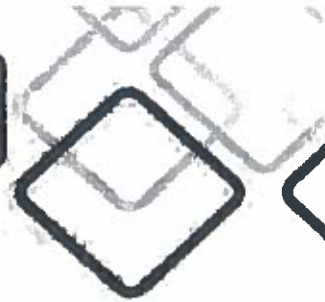
  
PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
B. KANNARALEM (M. M. PALEM),

  
EXTERNAL EXAMINER




**BITS  
VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
DEPARTMENT OF CSE**

**CERTIFICATE**

This is to certify that the project work entitled "Mobile Health Application on Covid-19" is bonafide work done by K. VASANTA (17NR1A0536), B. PAIDI RAJU (17NR1A0509), A. RAMTEJA (17NR1A0502), during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, (Affiliated to J.N.T.U. Kakinada), P.M. Palem, Madhurwada, Visakhapatnam.

  
28/12/21

**Project Guide**

  
30/12/21

**Head of the Department**

**CH.PAVAN SATHISH**

Assoc.Professor

**Dr. CH. PAVAN SATHISH**

Assoc.Professor



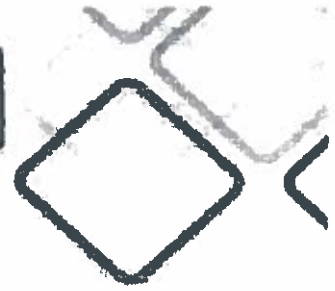
**EXTERNAL EXAMINER**

PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048



**BITS**  
**VIZAG**



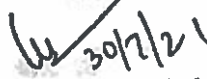
**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

## DEPARTMENT OF CSE

### CERTIFICATE

This is to certify that the project work entitled "STUDENT RESULT MANAGEMENT SYSTEM USING PHP" is bonafide work done by B.RadhaManoharaReddy(17NR1A0512), G.Mamatha(17NR1A0526), K.Ganga pavani(17NR1A0545) during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, (Affiliated to J.N.T.U. Kakinada), P.M.Palem, Madhurawada, Visakhapatnam

#### PROJECT GUIDE

  
Dr.M.NagaSurya Lakshmi  
professor

#### Head of the Department

  
Dr CH.Ravan Satish  
Associate professor

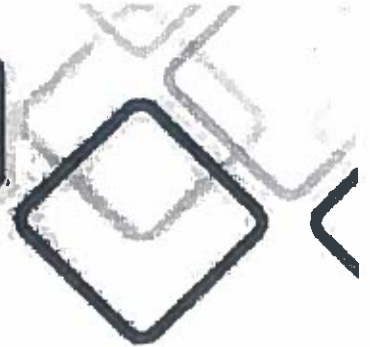
  
EXTERNAL EXAMINER

  
PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048



**BITS  
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**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**CERTIFICATE**

This is to certify that the project work entitled " Augmenting the Efficiency of Minute Delivery by Web Application " is bonafied work done by RAVITEJA PUDI (17NR1A0566), NAGASIVA SRIMANTHULA (18NR5A0513), MOHAN KRISHNA VAKADA (17NR1A0585), CHAND BASHA SHAIK (17NR1A0578) , during the year 2017-2021 in partial fulfilment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, Visakhapatnam (Affiliated to J.N.T.U., Kakinada).

Project Guide  
Dr. M Naga Surya Lakshmi  
Professor

Head of the Department  
Mr. Dr. Ch. Pavan Satish,  
Associate Professor

PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKANNAPALEM (V), P.M. PALEM,  
MADHURAWABA  
VISAKHAPATNAM - 530 048

  
EXTERNAL EXAMINER

**Department of Computer Science & Engineering**  
**BABA INSTITUTE OF TECHNOLOGY & SCIENCES**  
**Affiliated to JNTUK, Approved by A.I.C.T.E,**



**BONAFIDE CERTIFICATE**

This is to certify that the project entitled "Smart Health Care Monitoring System" is a bonafide record of the work done by B.Devi (17NR1A0508), G.Mohan kumar (17NR1A0527), K.Kumari (17NR1A0543), K.Pradeepthi (17NR1A0544), under the supervision and guidance of Ms.S.Samyuktha Assistant Professor in partial fulfillment of the requirement for the award of Bachelor Of Technology in Computer Science from Baba Institute of Technology & Sciences, (Affiliated to JNTUK), under the guidance of supervision. The results embodied in this report have not been submitted by any other University for the award of degree.

*S. Samyuktha*

Project Guide

**Ms.S.Samyuktha**  
Assistant professor,  
Department of CSE

*[Signature]*

Head of the Department

**Dr. CH. Pavan Sathish**  
Associate professor,  
Department of CSE

*[Signature]*  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

*[Signature]*  
External Examiner

# BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

Affiliated to Jawaharlal Nehru Technological University Kakinada

P.M.Palem, Madhurawada, Visakhapatnam-530048



## CERTIFICATE

This is to certify that the project report entitled "CROP YIELD PREDICTION USING DATA MINING" being submitted by B. PUSHPA (18NR5A0504), V. ROHINI (18NR5A0515), P. ASHOK (17NR1A0558), S. CHANDINI (17NR1A0572) for partial fulfillment for the award of the degree Bachelor of Technology in Computer Science And Engineering is a bonafide project work carried out by her. This work is not submitted to any university for the award of B.Tech degree.

*S. Samyukta*

Project Guide

Ms. S Samyukta  
Assistant Professor

*[Signature]*  
Head of the Department

Dr CH Pavan Satish  
Associate Professor

*[Signature]*

EXTERNAL EXAMINER

*[Signature]*  
PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPELEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048



# BOTS VIZAG



## BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

### CERTIFICATE

This is to certify that the project work entitled "STEGANOGRAPHY" is bonafied work done by NAGURI EUNICE RANI- 17NR1A0557, GEDDA NAGENDRA- 18NR5A0506, MARRI ANIL- 17NR1A0553, MULLETI RAJKUMAR- 17NR1A0556 , during the year 2017-2021 in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, Visakhapatnam (Affiliated to J.N.T.U., Kakinada).

  
Project Guide

(Mr. SIVA KUMAR RONANKI)

  
Head of the Department

Mr. Dr. CH. PAVAN SATISH,

M.Tech, Ph.D.

  
EXTERNAL EXAMINER

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048





**BITS  
VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**DEPARTMENT OF CSE**


**CERTIFICATE**


This is to certify that the work entitled "BUILDING A REAL-LIFE HEALTH CARE CHATBOT WITH IBM CLOUD SERVICE WITH PYTHON" is a bonafide work done by G.LOHIT CHANDU (17NR1A0523), B.SAI SNEHA (17NR1A0511), B.MEENAKSHI (17NR1A0514), K.PAVAN TEJA (17NR1A0542) during the year 2017-2021 in partial fulfillment of the requirement for the award of BACHELOR OF TECHNOLOGY in COMPUTER SCIENCE AND ENGINEERING from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, (Affiliated to J.N.T.U Kakinada), P.M. Palem, Madhurwada, Visakhapatnam

  
Project Guide

Mr. S. Chanti  
Assistant Professor

  
EXTERNAL EXAMINER

  
Head of the Department  
Dr. CH. Pavan Sathish  
Associate Professor

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048



**BITS  
VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "AUTOMATIC FACIAL RECOGNITION" is bonafide work done by, **S.KRISHNA RAO (17NR1A0581)**, **M.JAGADEESWARI (17NR1A0555)**, **K.SANTOSH (18NR5A0509)**, **P.AKASH (17NR1A0563)** during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** from **BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**, (Affiliated to J.N.T.U. Kakinada), P.M.Palem, Madhurwada, Visakhapatnam.


  
**Project Guide**

Mr. S.CHANTI

  
**Head of the Department**

Dr. Ch.Pavan Satish

  
**EXTERNAL EXAMINER**

  
**PRINCIPAL**  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPELEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**VISKHAPATNAM**



**CERTIFICATE**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

This is to certify that the project work entitled "AN IMPRESSIVE FRAMEWORK FOR RAIN FALL PREDICTION USING MACHINE LEARNING TECHNIQUES" is bonafide work done by, BATNA MAMATHA (17NR1A0506), BASANABOINA LOVAMAHESH (17A61A0504), ALLU VENKATESH (17NR1A0501), GULLA SAI KUMAR (17NR1A0529) during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, P.M. Palam, Madhurawada, Visakhapatnam.

  
Project Guide

S. DURGA PRASAD M. Tech, (Ph.D.)

  
Head of the Department

Dr CH. Pavan Satish

  
PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

  
EXTERNAL EXAMINER

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING BABA INSTITUTE  
OF TECHNOLOGY AND SCIENCES  
(Approved by A.I.C.T. E and Affiliated to J.N.T. U, Kakinada) P.M. PALEM,  
MADHURWADA  
VISA KHAPATNAM-530048 2017-2021**



**CERTIFICATE**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

This is to certify that the project work entitled "Employees Attrition Prediction Using Machine Learning" is Bonafide work done by B. Pavitra (17NR1A0516), K. Sanjana (17NR1A0534), CH. Mahesh (17NR1A0518), I. Priya (17NR1A0532), A. Devi (17NR1A0503) during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, (Affiliated to J.N.T. U. Kakinada) Madhurawada, Visakhapatnam.

  
Project Guide

Mrs. V.V.M Sireesha  
Assistant Professor

  
Head of the Department

Dr. CH Pavan Satish  
Associate Professor

  
EXTERNAL EXAMINER

  
PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISA KHAPATNAM - 530 048



**BITS**  
**VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "AN INTELLIGENT HEART FUNCTIONALITY PREDICTION SYSTEM USING MACHINE LEARNING" is bonafide work done by, RAMBA.MAHESWARI (17NR1A0567), MAJLSAILAJA (18NR5A0512), KARRIGANAPATHI (18NR5A0510), SAVANTH ROHITH (17NR1A0574) during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, P.M.Palem, Madhurwada, Visakhapatnam.


**Project Guide**

**S DURGA PRASAD**

**Head of the Department**

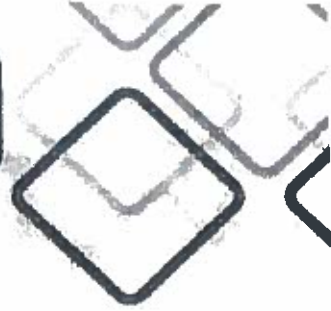
**Dr Ch. Pavan Satish**

**EXTERNAL EXAMINER**

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048



**BOTS**  
**VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**CERTIFICATE**

This is to certify that the project work entitled "Online Diagnostic Lab reporting system " is bonafied work done by K.NAVEEN-17NR1A0540, M.SWARNALATHA-17NR1A0550, B.VANDANA-17NR1A0513, M.NEERAJ ABHISHEK-15NR1A0527 , during the year 2017-2021 in partial fulfillment of the requirements for the award of degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, Visakhapatnam (Affiliated to J.N.T.U., Kakinada).

  
Project Guide


B.APARNA

Assistant Professor

  
Head of the Department

Dr. CH. PAVAN SATISH

Associate Professor

  
PRINCIPAL  
BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPALEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048



**BOTS**  
**VIZAG**



**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CERTIFICATE**

This is to certify that the project work entitled "DOCTOR PRECATIONARIES" is bonafide work done by, D. SUSHMA (17NR1A0519), E. RAVI TEJA (17NR1A0521), G. SATISH KUMAR (17NR1A0522), J. JAYA VARDHINI (17NR1A0533) during the year 2017-2021 in partial fulfillment of the requirements for the award of the degree of BACHELOR OF TECHNOLOGY from BABA INSTITUTE OF TECHNOLOGY AND SCIENCES, (Affiliated to J.N.T.U.Kakinada), P.M Palem, Madhurwada, Visakhapatnam.

  
Project Guide

MR. SIVA KUMAR RONANKI

  
Head of the Department

DR.Ch. PAVAN SATHISH  
PhD, MTech.



**EXTERNAL EXAMINER**

PRINCIPAL

BABA INSTITUTE OF TECHNOLOGY AND SCIENCES  
BAKKANNAPELEM (V), P.M. PALEM,  
MADHURAWADA  
VISAKHAPATNAM - 530 048

Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [hodmba@bitsvizag.com](mailto:hodmba@bitsvizag.com)  
Admission code: BABA



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR


## BABA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Approved by AICTE New Delhi, NAAC Accredited, Affiliated to JNTU Kakinada, ISO 9001-2015 Certified)  
Bakkannapalem Village, Madhurawada Post, Visakhapatnam – 530 048

### DEPARTMENT OF MANAGEMENT STUDIES

#### List of students attended for the Project work in the year 2020-2021

S.No.	Roll Number	Name of the Student
01	19NR1E0002	A VIKAS
02	19NR1E0004	AKULA SRI CHARAN
03	19NR1E0006	THALABATHULA SESHAGIRI
04	19NR1E0007	BANKAPALLI KAVITHA
05	19NR1E0008	BARRE TEJASREE
06	19NR1E0010	PUROHIT DINESH KUMAR
07	19NR1E0012	BODDU MANGADEVI
08	19NR1E0014	PODILAPU RAMA KRISHNA
09	19NR1E0015	CHENNAREDDY LAKSHMI NARASIMHA REDDY
10	19NR1E0016	CHILAKALA NAGABABU
11	19NR1E0017	CHOWDADA LOKESH
12	19NR1E0024	DUMMU SUSMITHA
13	19NR1E0025	GANNI LOKESH
14	19NR1E0026	GARIKINA SUDHAKAR
15	19NR1E0028	GURUGUBELLI TEJESWARA RAO
16	19NR1E0030	IPPILI JAGADEESH
17	19NR1E0031	J SREEHARI
18	19NR1E0032	JALLU AKHIL
19	19NR1E0035	KALLEPALLI HYMAVATHI
20	19NR1E0036	KARTHIK MANDAVA
21	19NR1E0037	KODA SRINIVAS
22	19NR1E0039	KUSUMA PRASANNARAJU
23	19NR1E0040	LANDA JHANSI
24	19NR1E0041	MAILAPALLI SANTHOSH KUMAR
25	19NR1E0042	MOLLI RAMESH

  
**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada Post, Visakhapatnam - 530 048



Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [hodmba@bitsvizag.com](mailto:hodmba@bitsvizag.com)  
Admission code: BABA



Estd: 2008

Phone: Off: 0891-2569933  
Fax: 0891-2568811  
University Code: NR

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### DEPARTMENT OF MANAGEMENT STUDIES

26	I9NR1E0043	VECHALAPU KRISHNA
27	I9NR1E0044	VELAMALA BHAGYA LAKSHMI
28	I9NR1E0045	LALAM RAJULANAIDU
29	I9NR1E0048	MALLURI SANJEEVI
30	I9NR1E0050	MANGIPUDI NAGA SAI KUMAR
31	I9NR1E0051	MEESALA LAKSHMU NAIDU
32	I9NR1E0053	MOSANGI JASWANTH KUMAR
33	I9NR1E0054	NAGALA HARIKA
34	I9NR1E0055	NAIGAPULA PRASANNA KUMARI
35	I9NR1E0056	NAMBURI LOKESH
36	I9NR1E0057	NUNNA RAJESH
37	I9NR1E0059	PEELA KRISHNA KUMARI
38	I9NR1E0060	PERLA VIJAY
39	I9NR1E0061	BUDDAVARAPU HARIKRISHNA
40	I9NR1E0062	PONNADA SRINIVASA RAO
41	I9NR1E0063	PURETI YESWANTH KUMAR
42	I9NR1E0064	BETHA VINAY
43	I9NR1E0065	PYDIGANTAM SAIKUMAR
44	I9NR1E0066	PYLA LAKSHMI
45	I9NR1E0067	R.SWATHI
46	I9NR1E0068	RAMIREDDY TEJASWINI
47	I9NR1E0069	RUTTALA UPENDRA
48	I9NR1E0071	SIMHACHALAM CHILAKA
49	I9NR1E0072	SIMHADRI LEELA PRASAD
50	I9NR1E0073	SITANA BHANU
51	I9NR1E0074	SURESH PETLA
52	I9NR1E0076	ARIGELA RAGA SUSHMA
53	I9NR1E0077	THUTTA TARUN RAJ
54	I9NR1E0078	V RAVINDRABABU KOSURU

**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

Website: [www.bitsvizag.com](http://www.bitsvizag.com)  
Email: [hodmba@bitsvizag.com](mailto:hodmba@bitsvizag.com)  
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### DEPARTMENT OF MANAGEMENT STUDIES

55	19NR1E0082	BOTCHA BHARANI
56	19NR1E0083	INTI NARSINGA RAO
57	19NR1E0084	MACHARLA MAHALAKSHMI
58	19NR1E0086	GUTTALA RAMESH
59	19NR1E0088	PALAVALASA ANIL KUMAR
60	19NR1E0089	SUSHIL KUMAR SHARMA

  
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Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 15.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON FUNDFLOW STATEMENT ANALYSIS" with reference to "COROMANDAL INTERNATIONAL LIMITED, submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by BANKAPALLI KAVITHA, PIN No: 19NR1E0007 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

Dr. P.SANJEEVI

Project Guide

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Sakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

: Office-891-2793322

Ph: 9059463941

Visakhapatnam-530 041.

Date: 15.02.2021

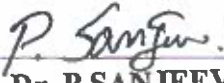


## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON FINANCIAL STATEMENT ANALYSIS" with reference to "MMTC, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by B. MANGA DEVI, PIN No: 19NR1E0012 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Dr. P.SANJEEVI

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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**DEPARTMENT OF MANAGEMENT STUDIES**  
(Affiliated to JNTU, Kakinada and Accredited by NAAC)

P.M.Palem  
Madhurawada  
Visakhapatnam  
Andhra Pradesh



Tel: Office- 2793322  
Fax: 0891-2793666  
www.bitsvizag.com

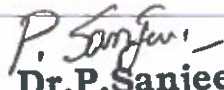
Date: 15.02.2021

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON INVENTORY MANAGEMENT WITH REFERENCE TO HINDUSTAN SHIPYARD LIMITED, VISAKHAPATNAM", submitted in partial fulfillment for the award of the degree of **Master of Business Administration** by **PODILAPU RAMAKRISHNA**, during the academic years 2017- 2019 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. Manoj Babu

Head of the Department

  
Dr.P.Sanjeevi

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P) -  
Visakhapatnam

  
External Examiner

**BABA INSTITUTE OF TECHNOLOGY AND SCIENCES**  
**DEPARTMENT OF MANAGEMENT STUDIES**  
(Affiliated to JNTU, Kakinada and Accredited by NAAC)

P.M. Palem  
Madhurawada  
Visakhapatnam  
Andhra Pradesh



Tel: Office- 2793322  
Fax: 0891-2793666  
www.bitsvizag.com

Date: 15.02.2021

**CERTIFICATE**

This is to certify that the Project Report entitled "A STUDY ON CASHFLOW STATEMENT ANALYSIS WITH REFERENCE TO DREDGING CORPORATION OF INDIA LTD., VISAKHAPATNAM", submitted in partial fulfillment for the award of the degree of **MASTER OF BUSINESS ADMINISTRATION** by **CH. LAKSHMI NARSIMHA REDDY**, PIN No. 19NR1E0015 during the academic years 2019- 2021 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
**Mr. P. MANOJ BABU**

**Head of the  
Department**

  
**Dr. P. Sanjeevi**

**Project Guide**

  
**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

  
External Examiner

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 15-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON FINANCIAL STATEMENT ANALYSIS" with reference to "MARUTI SUZUKI, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by J SREE HARI, PIN No: 19NR1E0031 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

Dr P. SANJEEVI

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Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA,  
M.Phil.  
Head of the Department  
Department of Management Studies

Tel. Office-891-2793322  
Fax Ph: 7799885357  
Visakhapatnam -530041.

Date: 15-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "Working Capital" With reference to "HDFC BANK" submitted in partial fulfilment for the award of "MASTER OF BUSINESS ADMINISTRATION" by JALLU AKHIL, PIN No: 19NR1E0032 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr.P.MANOJ BABU

Head of the Department

P.SANJEEVI

Project Guide

EXTERNAL EXAMINER

**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam



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Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 7799885357  
Visakhapatnam-530 041.


Date: 16-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON INVENTORY MANAGEMENT" with reference to "BRANDIX, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by GARIKINA SUDHAKAR, PIN No: 19NR1E0026 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU  
Head of the Department

  
P.SANJEEVI  
Project Guide

  
EXTERNAL EXAMINER

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES  
DEPARTMENT OF MANAGEMENT STUDIES**

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited 'NAAC')

Mr. P.MANOJ BABU

MBA,M.Phil,(Ph.D)

Head of the Department

Department of Management Studies

Tel: Office-891-2793322

Fax Ph: 9059416941.

Visakhapatnam-530 041.

Date: 16.02.2021



**CERTIFICATE**

This is to certify that the Project report entitled "A study on Ratio analysis" with reference to "Vamshadhara Paper Mills Ltd., Srikakulam" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by GANNI LOKESH, PIN No: 19NR1E0025" under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

*P. Sanjeevi*  
DR. P. SANJEEVI

Project Guide

*Mr. P. Manoj Babu*  
Mr. P.MANOJ BABU

Head of the Department

*Aey*  
EXTERNAL EXAMINER

*P. Sanjeevi*  
PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

## DEPARTMENT OF MANAGEMENT STUDIES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited „NAAC“)

Mr. P. MANOJ BABU, MBA,  
M.Phil.,

Head of the Department

Department of Management

Studies

Tel: Office-891-

2793322 Ph:

7799885357

Visakhapatnam -530 041.

Date: 16.02.2021



### CERTIFICATE

This is to certify that the Project report entitled "A Study on Financial Statement Analysis with reference to "GVK Power & Infrastructure , Hyderabad" submitted in partial fulfilment for the award of "MASTER OF BUSINESS ADMINISTRATION" by Kallepalli Hymathi PIN No: 19NR1E0035 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJBABU

Head of the Department

  
Dr. P. Sanjeevi

Project Guide

  
PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

: Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 16.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON MUTUAL FUNDS" with reference to "STEEL CITY SECURITIES LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by M. SANTHOSH KUMAR, PIN No: 19NR1E0041 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Dr. P. SANJEEVI

Project Guide

  
PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 16.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON RATIO ANALYSIS" with reference to "NATIOAL MINERAL DEVELOPMENT CORPORATION LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by VELAMALA BHAGYA LAKSHMI, PIN No: 19NR1E0044 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

Mr. P.MANOJ BABU

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 16.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON FINANCIAL STATEMENT ANALYSIS" with reference to "COROMANDEL INTERNATIONAL LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by VECHALAPU KRISHNA, PIN No: 19NR1E0043 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

Mr. P. MANOJ BABU

Project Guide

PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 17-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON ONLINE TRADING SHARES AND EQUITIES THROUGH NSE & BSE" with reference to "CAPITALPLUS, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by LALAM RAJULANAIDU, PIN No: 19NR1E0045 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

Mr. P. MANOJ BABU

Project Guide

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhuravada (P)  
Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 17.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON EQUITIES ANALYSIS OF PORTFOLIO MANAGEMENT" with reference to "CAPITAL PLUS WEALTH SOLUTIONS, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by MALLURI SANJEEVI, PIN No: 19NR1E0048 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. P. MANOJ BABU

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Jankannapalem (V), Madhuravada (P)



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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by

'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies


Tel: Office-891-2793322  
FaxPh: 7799885357  
V Visakhapatnam-530 041.


Date: 17.02.2021



**CERTIFICATE**

This is to certify that the Project report entitled "A Study on Cash Flow Analysis" with reference to "HINDUSTAN PETROLEUM CORPORATION LIMITED, Visakhapatnam" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by M. LAKSHMU NAIDU PIN No: 19NR1E0051 under my guidance and supervision. This report has not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU  
Project Guide

  
Mr. P. MANOJ BABU  
Head of the Department

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

  
EXTERNAL EXAMINER

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

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Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of management studies


: Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 17-02-2021



## CERTIFICATE

This is to certify that the project report entitled "A STUDY ON SIP EQUITIES IN MUTUAL FUNDS" with reference to "CAPITAL PLUS WEALTH SOLUTION LTD, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by MOSANGI JASWANTH KUMAR, PIN No: 19NR1E0053 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU  
Head of the Department

  
Mr. P. MANOJ BABU  
Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

: Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 17-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON RATIO ANALYSIS" with reference to "GREEN PARK HOTEL, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by N. HARIKA, PIN No: 19NR1E0054 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. P. MANOJ BABU

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, Ph. D

Head Department of Management Studies



Tel: Office-891-2793322

Ph: 7799885357

Visakhapatnam-530 041

Date: 17-02-2021

This is to certify that the Project report entitled "A Study on ONLINE TRADING IN STOCK MARKET" with reference to "BONANZA PORTFOLIO LIMITED, VISAKHAPATNAM" Submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by N. RAJESH, Reg. No: 19NR1E0057 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Dr. P.MANOJ BABU  
Head of the Department

  
Dr. P.MANOJ BABU  
Project Guide

  
EXTERNAL EXAMINER

  
PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES**  
**DEPARTMENT OF MANAGEMENT STUDIES**

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited 'NAAC')

Mr. P. MANOJ BABU.,  
Head of the Department  
Department of Management Studies

Tel: Office-891-2793322  
Fax Ph: 7799885357  
V Visakhapatnam-530 041.

Date: 13th FEB 2021



**CERTIFICATE**

This is to certify that the Project report entitled "A Study on WORKING CAPITAL" with reference to, "THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED," GOVADA, " submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by B. HARI KRISHNA, PIN No:19NR1E0061 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. P. MANOJ BABU

Project Guide

  
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PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (M), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

: Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 13.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON RATIO ANALYSIS" with reference to "SRI HARSHA HERO MOTORS PVT LTD, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by PURETI YESWANTH KUMAR, PIN No:19NR1E0063 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P.MANOJBABU

Head of the Department

  
MR. M.VASUDEVA RAO  
Project Guide

  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P),  
Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Tel: Office-891-2793322  
FaxPh: 9059463941  
Visakhapatnam-530 041.

Date: 13.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON MUTUAL FUNDS" with reference to "RELIANCE MUTUAL FUNDS, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by BETHA VINAY, PIN No: 19NR1E0064 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

Mr. M. VASUDEVA RAO

Project Guide

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

: Office-891-2793322  
Ph: 7799885357  
Visakhapatnam-530 041.

Date: 13 02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON WORKING CAPITAL MANAGEMENT" with reference to "VARUN MOTORS PRIVATE LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by PYLA LAKSHMI, PIN No: 19NR1E0066 under my guidance and supervision. This report has not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M.VASUDEVA RAO

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EXTERNAL EXAMINER

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam



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Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 7799885357  
Visakhapatnam-530 041.

Date: 13-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON MUTUAL FUND INVESTMENTS" with reference to "SBI MUTUAL FUNDS, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by SUSHIL KUMAR SHARMA, PIN No: 19NR1E0089 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associateship, Fellowship or similar title in this University or in any other University.


  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M. VASUDEVA RAO

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EXTERNAL EXAMINER

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhuravada (P)  
Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 16.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON INVENTORY MANAGEMENT" with reference to "BHARAT HEAVY ELECTRICALS LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by PETLA SURESH, PIN No: 19NR1E0074 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M.VASUDEVA RAO

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 13.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON INVENTORY MANAGEMENT" with reference to "VIJAYASRI ORGANICS LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by PALAVALASA ANIL KUMAR, PIN No: 19NR1E0088 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M.VASUDEVA RAO

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhuravada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Tel: Office-891-2793322  
FaxPh: 9059463941  
Visakhapatnam-530 041.

Date: 13.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON WORKING CAPITAL MANAGEMENT" with reference to "BRANDIX APPAREL INDIA PRIVATE LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by ARIGELA RAGA SUSHMA, PIN No: 19NR1E0076 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M. VASUDEVA RAO

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

: Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 13.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON INVENTORY MANAGEMENT" with reference to "BHARAT HEAVY ELECTRICALS LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by PETLA SURESH, PIN No: 19NR1E0074 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M.VASUDEVA RAO

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PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

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Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 13.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON CASH FLOW STATEMENT" with reference to "COROMANDEL INTERNATIONAL LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by SITANA BHANU, PIN No: 19NR1E0073 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M.VASUDEVA RAO

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 13.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON RATIO ANALYSIS" with reference to "DREDGING CORPORATION OF INDIA LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by RUTTALA UPENDRA, PIN No: 19NR1E0069 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M.VASUDEVA RAO

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhuravada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 13.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON INVENTORY MANAGEMENT" with reference to "NATIONAL THERMAL POWER CORPORATION LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by RAMIREDDY TEJASWINI, PIN No: 19NR1E0068 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M. VASUDEVA RAO

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam



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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 13.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON FINANCIAL STATEMENT ANALYSIS" with reference to "DASPALLA HOTEL PRIVATE LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by R. SWATI, PIN No: 19NR1E0067 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. M. VASUDEVA RAO

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**Baba Institute of Technology and Sciences**  
**Department of Management Studies**  
(Affiliated to JNTU, Kakinada)

**Mr.P.ManojBabu**  
M.B.A., M.Phil., (PhD)  
Associate Professor &HOD



P.M. Palem, Madhurawada  
Visakhapatnam-530 048.  
Mobile: 9059416941  
Email: mail2me7@gmail.com

Dt: 14<sup>th</sup> Feb 2021

**CERTIFICATE**

This is to certify that the Project Report entitled "**A Study on Job Satisfaction**" (With reference to **SRI GAYATRI SHIPPING AND LOGISTICS**, Visakhapatnam) submitted in partial fulfillment for the award of *Master of Business Administration* by **Mr. AKULA SRI CHARAN** during the academic years 2019-2021 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship, or similar title in this University or in any other University.

  
**(P.B.Narendrakiran)**  
Project Guide

  
**(Mr.P.Manoj Babu)**  
Head of the Department

  
**(External Examiner)**

  
**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 14.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON EMPLOYEE RETENTION STRATEGIES" with reference to "SRI GAYATRI SHIPPING AND LOGISTICS PVT. LTD., VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by Mr. T. SESHAGIRI, PIN No: 19NR1E0006 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU

Head of the Department

  
Mr. P. B. NARENDRA KIRAN

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

: Office-891-2793322

Ph: 9059463941

Visakhapatnam-530 041.

Date: 14<sup>th</sup> FEB 2021



## CERTIFICATE

This is to certify that the Project report entitled "A Study on "EMPLOYEES ABSENTEEISM" with reference to "CARE HOSPITAL", Visakhapatnam" submitted in partial fulfillment for the award of "MASTERS OF BUSINESS ADMINISTRATION" by LANDA JHANSI , PIN No: 19NR1E0040 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

Dr. B. RAMA JYOTHI

Project Guide

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawaada (P)  
Visakhapatnam

EXTERNAL EXAMINER

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date:14<sup>TH</sup> FEB 2021



## CERTIFICATE

This is to certify that the Project report entitled "A Study on equity research" with reference to "HINDUSTAN PETROLEUM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by K. SRINIVAS, PIN No: 19NR1E0037 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship, or similar title in this University or in any other University.

  
Dr. P. MANOJ BABU

Head of the Department

  
Dr.B. Rama Jyothi

Project Guide

  
EXTERNAL EXAMINER

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES (BITS)  
DEPARTMENT OF MANAGEMENT STUDIES**

(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada)

**Mr. P. Manoj Babu**  
MBA, M.Phil., (Ph.D.)  
Associate Professor & Head  
Department of Management Studies



Tel: Office-2793322  
Fax: 0891 - 2793666  
Cell: +91 - 9059416941  
Visakhapatnam-530 041.

## CERTIFICATE

This is to certify that the Project Report entitled **A STUDY ON EMPLOYEE RETENTION STRATEGIES with Reference to APOLLO HOSPITAL, HEALTH CITY, Visakhapatnam;** submitted in partial fulfillment for the award of Master of Business Administration by **KARTHIK MANDAVA** during the academic year 2019-2021 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship, or similar title in this University or in any other University.

*Jyothi*  
**(Dr. B. RAMA JYOTHI)**  
Associate Professor, DMS  
Project Guide

*Manoj*  
**(Mr. P. MANOJ BABU)**  
Associate Professor & Head  
of the department

*De*  
**External Examiner**

  
**PRINCIPAL**  
**Baba Institute of Technology and Sciences**  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES (BITS)

(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada)

Mr. P. Manoj Babu

MBA, M.Phil, (Ph.D)

Associate Professor & Head  
Department of Management Studies



Tel: Office-2793322

Fax: 0891 - 2793666

Cell: +91 - 9059416941

## CERTIFICATE

This is to certify that the Project Report entitled **A STUDY ON EMPLOYEE WELFARE MEASURES: With Reference to HINDUSTAN PETROLEUM CORPORATE LMTD, Visakhapatnam**; submitted in partial fulfillment for the award of Master of Business Administration by D. SUSMITHA during the academic year 2019-2021 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship, or similar title in this University or in any other University.

*Justic*  
(Dr. B.RAMAJYOTHI)

AssProfessor,DMS

Project Guide

*MT*  
(Mr. P. MANOJBABU)

Head of theDepartment

*De*  
External Examiner

*PRINCIPAL*  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

: Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 14-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON EMPLOYEE MOTIVATION" with reference to "KOTAK MAHINDRA BANK, HYDERABAD" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by CHOWDADA LOKESH, PIN No: 19NR1E0017 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

MF

Mr. P. MANOJ BABU

Head of the Department

NS

Mr. P.B. NARENDRA KIRAN

Project Guide

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam



# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

el: Office-891-2793322


axPh: 9059463941

Date: 14-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON JOB SATISFACTION" with reference to "NOVOTEL, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by B. TEJASREE, PIN No: 19NR1E0008 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU  
Head of the Department

  
Mr. P.B. NARENDRA KIRAN  
Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Sakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by

„NAAC“)

Tel: Office-891-2793322

FaxPh: 7799885357

Mr. P.MANOJ BABU, MBA, M.Phil.  
Head of the Department  
Department of Management Studies

Visakhapatnam-530 041.

Date: 14-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "A Study on Job Satisfaction" with reference to "Heritage Food Products of India Ltd, Visakhapatnam" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION M.Nagasaikumar, PIN No: 19NR1E00500 under my guidance and supervision. This report has not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P.MANOJBABU

Head of the Department

Project Guide

**PRINCIPAL**  
Baba Institute of Technology and Sciences  
Annapalem (V), Madhuravada (P)  
Visakhapatnam

**EXTERNAL EXAMINER**

## BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by „NAAC“) MRS.

P.Manoj babu , MBA, M.Phil.,

: Office-891-2793322

Head of the Department

Ph: 7799885357

Department of Management Studies

Visakhapatnam-530 041

Date: 14-02-2021



### CERTIFICATE

This is to certify that the Project report entitled "A Study on RECRUITMENT AND SELECTION" with reference to "RELIANCE FRESH LTD, Visakhapatnam" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by P. KRISHNA KUMARI, PIN No: 19NR1E0059 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

MR. P.MANOJ BABU

Head of the Department

MRS. K. SIREESHA

Project Guide

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

EXTERNAL EXAMINER

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Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322

Ph: 9059463941

Visakhapatnam-530 041.

Date: 15.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON PERFORMANCE APPRAISAL" with reference to "HINDUSTANSHIPYARD LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by PONNADA SRINIVASARAO, PIN No: 19NR1E0062 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

MF

Mr. P. MANOJ BABU

Head of the Department

K.Sireesha

Mrs. K.SIREESHA

Project Guide

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Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU  
Head of the Department  
Department of Management Studies



Tel: Office-891-2793322  
FaxPh: 7799885357  
Visakhapatnam-530 041.

Date: 15.02.2021

## CERTIFICATE

This is to certify that the Project report entitled "A Study on "STRESS MANAGEMENT" with reference "CARE HOSPITAL", Visakhapatnam" submitted in partial fulfillment for the award of "MASTERS OF BUSINESS ADMINISTRATION" by PYDIGANTAM SAI KUMAR, PIN No: 19NR1E0065 under my guidance and supervision. This report has not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P.MANOJ BABU

Head of the Department

Mrs. K SIREESHA

Project Guide

EXTERNAL EXAMINER

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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**DEPARTMENT OF MANAGEMENT STUDIES**

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited 'NAAC')

Mr. P.MANOJ BABU.

Head of the Department

Department of Management Studies

Tel: Office-891-2793322

FaxPh : 7799885357

Visakhapatnam-530 041.

Date: 16.02.2021



**CERTIFICATE**

This is to certify that the Project report entitled "A Study on JOB SATISFACTION" with reference to "SRI SAI RAM'S RITZ COMFORT, Visakhapatnam" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by T.TARUN RAJ, PIN No: 19NR1E0077 under my guidance and supervision. This report has not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P.MANOJ BABU

Head of the Department

Mrs. G.CH.V UMA RANI

Project Guide

EXTERNAL EXAMINER

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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**DEPARTMENT OF MANAGEMENT STUDIES**

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by  
'NAAC')

Mr. P.MANOJ BABU,

Head of the Department Department of Management Studies

Tel: Office-891-2793322 Fax/Ph: 7799885357

Visakhapatnam- 530041.

Date: 16.02.2021



**CERTIFICATE**

This is to certify that the Project report entitled "A study on EMPLOYEE MOTIVATION" with reference to "TV 5, Shreyas Media Broadcasting Pvt Ltd, Hyderabad" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by BOTCHA BHARANI, PIN No: 19NR1E0082 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P.MANOJBABU

Head of the Department

  
Mrs. G.CH.V UMARANI, MBA

Project Guide

  
EXTERNAL EXAMINER

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**DEPARTMENT OF MANAGEMENT STUDIES**  
(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by  
'NAAC')

Mr. P.MANOJ BABU,  
Head of the Department  
Department of Management Studies

Tel: Office-891-2793322

Fax/Ph: 7799885357

Visakhapatnam- 530041.

Date: 16.02.2021



**CERTIFICATE**

This is to certify that the Project report entitled "A study on RECRUITMENT AND SELECTION PROCESS" with reference to "THE CHODAVARAM CO-OPERATIVE SUGARS LIMITED" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by M.MAHA LAKSHMI, PIN No: 19NR1E0084 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

*MF*

Mr. P.MANOJ BABU

Head of the Department

*Ravi*

Mrs. G CH.V UMARANI

Project Guide

*[Signature]*

EXTERNAL EXAMINER

*[Signature]*  
PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)

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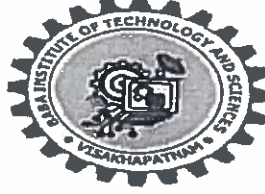
Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322

Ph: 9059463941

Visakhapatnam-530 041.

Date: 16-02-2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON CUSTOMER LOYALTY WITH RESPECT TO PAYBACK CARDS" with reference to "VISAKHAPATNAM CENTRAL PRIVATE LIMITED, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by A. VIKAS, PIN No: 19NR1E0002 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

Mr. P.B. NARENDRA KIRAN

Project Guide

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Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited 'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,

Head of the Department

Department of Management Studies

Office-891-2793322

Ph: 7799885357

Visakhapatnam-530 041.

Date: 17.02.2021



### CERTIFICATE

This is to certify that the Project report entitled "A Study on Evaluation of sales promotion strategies" with respect to "BIG BAZAR Vishakapatnam" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by CH.NAGABABU, REG No: 19NR1E0016 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU  
Head of the Department

  
P. B. NARENDRA KIRAN  
Project Guide

  
External Signature

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Office-891-2793322  
Ph: 9059463941  
Visakhapatnam-530 041.

Date: 17.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON CUSTOMER SATISFACTION" with reference to "JAYARAM AUTOMOBILES PRIVATE LIMITED VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by IPPILI JAGADEESH, PIN No: 19NR1E0030 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P. MANOJ BABU  
Head of the Department

  
Dr. B. RAMA JYOTHI  
Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Tel: Office-891-2793322

FaxPh: 9059463941

V Visakhapatnam-530 041.

Date:14<sup>TH</sup> FEB 2021



## CERTIFICATE

This is to certify that the Project report entitled "A Study on ANALYZING THE SALES PROMOTION OF MODERN RETAILING" with reference to "SPENCER'S PVT.LIMITED, VISAKHAPATNAM" submitted in partial fulfilment for the award of "MASTER OF BUSINESSADMINISTRATION" by K. PRASANNARAJU, Reg. No: 19NR1E0039 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship, or similar title in this University or in any other University.

Mr. P. MANOJ BABU  
Head of the Department

DR. B. RAMA JYOTHI  
Project Guide

EXTERNAL EXAMINER

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

## DEPARTMENT OF MANAGEMENT STUDIES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited  
'NAAC')

Mr. P. MANOJ BABU, MBA, M.Phil.,

Head of the Department

Department of Management Studies

Tel: Office-891-2793322

FaxPh: 7799885357

Visakhapatnam-530 041.

Date: 16.02.2021



### CERTIFICATE

This is to certify that the Project report entitled "A Study on Store Operations with reference to SPENCER'S, Visakhapatnam" submitted in partial fulfilment for the award of "MASTER OF BUSINESS ADMINISTRATION" by CH. SIMHACHALAM PIN No: 19NR1E0071 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P MANOJ BABU  
Head of the Department

  
K. SIREESHA  
Project Guide

  
PRINCIPAL

Baba Institute of Technology and Sciences  
Sakkannapalem (V), Madhurawada (P)  
Visakhapatnam

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Mr. P. MANOJ BABU, MBA, M.Phil.,

Head of the Department

Department of Management Studies

: Office-891-2793322

Ph: 7799885357

• Visakhapatnam-530 041.

Date: 14<sup>TH</sup> FEB 2021



### CERTIFICATE

This is to certify that the Project report entitled "A Study on CUSTOMER SATISFACTION with reference to SPENCER'S, Visakhapatnam" submitted in partial fulfilment for the award of "MASTER OF BUSINESS ADMINISTRATION" by SIMHADRI LEELA PRASAD PIN No: 19NR1E0072 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship, or similar title in this University or in any other University.

Mr. P MANOJ BABU

Head of the Department

K. SIREESHA

Project Guide

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

: Office-891-2793322

Ph: 9059463941

Visakhapatnam-530 041.

Date: 14.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A Study on Challenge of Distribution with reference to "Sujana Metal Products Limited, Visakhapatnam" submitted in partial fulfilment for the award of "MASTER OF BUSINESS ADMINISTRATION" by K V RAVINDRA BABU PIN No: 19NR1E0078 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

Mrs. G.Ch.V. UMA RANI

Project Guide

PRINCIPAL

Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam

**BABA INSTITUTE OF TECHNOLOGY & SCIENCES**  
(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Mr. P.MANOJ BABU,  
MBA, M.Phil.  
Head, Department of  
Management Studies



Tel: Office-891-2793322  
Ph: 7799885357  
Visakhapatnam-530 041.

Date: 16.02.2021

**CERTIFICATE**

This is to certify that the Project report entitled "A Study on CUSTOMER SATISFACTION" with reference to "KALESWARI TRAVELS, VIJAYAWADA" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by GUTTULARAMESH, Reg.no: 19NR1E0086 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr.P.MANOJ BABU  
Head of the Department

  
Mrs.G.CH.V.UMA RANI  
Project Guide

  
EXTERNAL EXAMINER

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (T)



# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited by 'NAAC')

Tel: Office-891-2793322

Mr. P.MANOJ BABU, MBA, M.Phil.,  
Head of the Department  
Department of Management Studies

Date: 16.02.2021



## CERTIFICATE

This is to certify that the Project report entitled "A STUDY ON BRAND AWARENESS" with reference to "BIG BAZAR, VISAKHAPATNAM" submitted in partial fulfillment for the award of "MASTER OF BUSINESS ADMINISTRATION" by MOOLI RAMESH, PIN No: 19NR1E0042 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

Mr. P. MANOJ BABU

Head of the Department

Dr. B. RAMA JYOTHI

Project Guide

PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhuravada (P)  
Visakhapatnam

# BABA INSTITUTE OF TECHNOLOGY & SCIENCES

## DEPARTMENT OF MANAGEMENT STUDIES

(Approved by AICTE, New Delhi, Affiliated to JNTUK, Kakinada and Accredited „NAAC“)

Mr. P. MANOJ BABU, MBA, M.Phil.,

Head of the Department

Department of Management Studies

Office-891-2793322

Ph: 9059463941

Visakhapatnam-530 041.

Date: 16.02.2021



### CERTIFICATE

This is to certify that the Project report entitled "A Study on Effectiveness of Advertising Strategies" with reference to "Varun Motors Pvt. Ltd, Visakhapatnam" submitted in partial fulfilment for the award of "MASTER OF BUSINESS ADMINISTRATION" by I.Narsinga Rao Reg No: 19NR1E0083 under my guidance and supervision. This report has below 30% of similarity and not been submitted previously for the award of any Degree, Diploma, Associate ship, Fellowship or similar title in this University or in any other University.

  
Mr. P MANOJBABU

Head of the Department

  
G.CH.V.Uma Rani

Project Guide

  
PRINCIPAL  
Baba Institute of Technology and Sciences  
Bakkannapalem (V), Madhurawada (P)  
Visakhapatnam