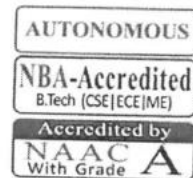




MIC College of Technology

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Kanchikacherla - 521180, Krishna Dist, A.P, India.

E mail: officemicttech@gmail.com, Website: www.micttech.ac.in



Title of the Projects

DEPARTMENT:E.E.E

ACADEMIC YEAR:2022-23

SEMESTER:IV-II

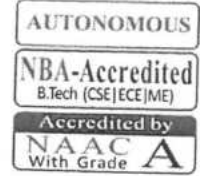
Batch No	Roll No	Name of the Student	Project Guide	Title of the Project
B1	20H75A0253	KoppulaTejasri	Dr.P.Pradeep	Dynamic Wireless Charging of Electric Vehicle with metering System.
	20H75A0206	GunjaBhanuLakshman		
	19H71A0212	PallikantiSadghun		
	20H75A0234	KodigudlaNeeraj		
	19H71A0212	KumpatiKarthik		
B2	20H75A0216	AlishethyHarika	Dr.B.K.Karunakar Rao	Enhancing Voltage Stability and Improving Power Quality in Smart Grid with RES Fed Cascaded Multilevel Inverter
	20H75A0256	RavulaUpendra		
	19H71A0201	GudeAkshaya		
	20H75A0225	LavudiyaMahendra		
	20H75A0233	KalakantiNarasimhaSwamy		
	19H71A0208	Shaik Malik Mohammed		
B3	20H75A0243	BachuSailaja	Mr.A.V.Ravi Kumar	Energy Management Strategy of an Electric Vehicle Charging Station Using Photo Voltaic Energy
	20H75A0248	KommanaboinaSirisha		
	20H75A0230	AppapuramMounika		
	19H71A0204	KambhampatiDhayanidhi		
	20H75A0231	Shaik Munwar		
	19H71A0216	Bathula Srikanth		
B4	20H75A0203	VenigallaAkhilesh	Mr. M. Sunil Kumar	Improved direct torque control for IM in EV application
	20H75A0229	VasamsettiMohith Naga Adithya		
	19H71A0202	SudarsanamAnitha		
	20H75A0221	Bhuvanagiri Jhansi Rani		
	20H75A0241	Ponna Sai Nitheesh		
	20H75A0208	SunkisalaBruce Lee		
B5	20H75A0215	Sakinala Gopal	Mr.M.RamaMohana Rao	Optimal Controller Design for BLDC motor Drive with Transit search Optimization Algorithm
	19H71A0206	MadaKranthi Kiran		
	20H75A0258	ChevalaVenkateswara Rao		



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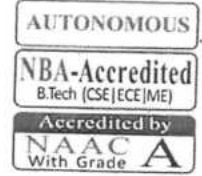
	19H71A0214	VuyyuruSathwik		
	20H75A0250	Thota Srihari		
B6	20H75A0228	SangisetiMohana Sri Lakshmi Renuka	Mr.N.VenuBabu	Fully automated solar grass cutter
	20H75A0205	TodetiBhagya Raju		
	20H75A0238	DondapatiPrasanna Kumar		
	20H75A0263	GummaYaswanth		
	19H71A0209	SadineniManasa		
B7	20H75A0224	Konda Lavanya	Mr.S.Ravikanth	Solar Power Generation System With Power Smoothing Function Using Two Power Stage
	20H75A0249	Chintha Siva Keerthana		
	20H75A0209	DavuluriCharan		
	20H75A0240	Davu Rama Linga Prasad		
	20H75A0254	PallaTrinadh		
B8	20H75A0244	KothuriSampath Kumar	Mr.M.Tharun	An Enhanced Adaptive Filter Based PQ Improvement In a Three-Phase Four-Wire Inter Linking Converter in Microgrid System
	20H75A0217	GumpenaHarika Devi		
	20H75A0239	Kode Raja Rajeswari		
	19H71A0211	Sakamuri Priyanka		
	20H75A0264	KolliparaYeswanth Kumar		
B9	20H75A0255	KandruUday Kiran	Mr.D.Arunkumar	A surveillance system to detect bikes without helmet and triple riders
	20H75A0260	UppuluriVennela		
	20H75A0223	VallepuKoteswara Rao		
	20H75A0251	Banavathu Srinivas Naik		
	20H75A0246	Tikkisetty Satya Vara Prasad		
B10	20H75A0218	RampillaHarshith	Mrs. B. Lakshmi Nagamani	Eye Controlled Wheel Chair For Physically Handicapped Using RASPBERRY PI
	20H75A0202	MunipalliAkanksha		
	20H75A0207	Nadakuditi Bhargava Ram		
	19H71A0205	VelagapudiDivya Sri		
	20H75A0204	Shaik AllaBakshu		
B11	20H75A0227	Shaik Manishabegum	Dr.P.Pradeep	Electrical Battery Thermal Management System based on calculating state of charge and state of Health.
	19H71A0217	Mudavathu Srikanth		
	20H75A0210	Chintala Deepak Srinivas		
	19H71A0215	VorugantiSatwika		
	20H75A0213	Jaddu Ganesh		



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	20H75A0259	MogiliVenkateswara Rao		
B12	20H75A0265	KorraSrinu	Dr.B.K.Karunakar Rao	Design and Development of Parallel Hybrid Propulsion Electric Vehicle Using H-Bridge Multi-Level Inverter Modules to Optimized Fuel Economy
	20H75A0232	Ommi Naga Prameela		
	20H75A0212	Shaik FarukGani		
	20H75A0226	CheruvuManikanta		
	19H71A0203	BalneBhuvanesh		
B13	19H71A0218	RayalaVasavi	Mr.A.V.Ravi Kumar	Modeling of a Dc Microgrid And its Protection From Faults
	20H75A0257	AnupojuVenkat		
	20H75A0219	Mohammad Imran		
	20H75A0235	VarrePavanKalyanChakravarthi		
	19H71A0207	Gubba Mahesh		
B14	20H75A0237	MukkidiPeddaiah	Mr. M. Sunil Kumar	Speed Tracking performance of Permanent Magnet Synchronous Motor using Advanced Controllers
	20H75A0242	Tummala Sai Teja		
	19H71A0219	SripalasettiVenkata Kishore		
	20H75A0262	Yathakula William Cary		
	20H75A0252	MedidaSumanth		
B15	19H71A0210	Gujjarlapudi Nikhil	Mr.M.RamaMohana Rao	An Effective controller Design for BLDC motor Drive with Giant Trevally Optimizer
	20H75A0236	GugulothuPavan Kumar		
	20H75A0261	Bezawada Vijay Kumar		
	19H71A0220	PathanYakhoob		
	20H75A0214	VemulaGeetha Veera Naga Prasanna		


HOD,EEE

IMPROVED DIRECT TORQUE CONTROL FOR INDUCTION
MOTOR USING ARTIFICIAL NEURAL NETWORK

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

**Bachelor of Technology
In
Electrical and Electronics Engineering**

by

V. Akhilesh (20H75A0203) B. Jhansi Rani (20H75A0221)
V. Mohith Naga Adithya(20H75A0229) P. Sai Nitheesh (20H75A0241)
S. Anitha (19H71A0202) S. Bruce Lee (20H75A0208)

Under the Esteemed Guidance of

**Mr. M. SUNIL KUMAR, M. Tech.(Ph.D.)
Assistant Professor**



Department of Electrical and Electronics Engineering

**DVR & Dr. HS
MIC COLLEGE OF TECHNOLOGY
(Autonomous)**

Kanchikacherla- 521180, NTR Dist., Andhra Pradesh

2022-2023



**DVR & Dr. HS
MIC College of Technology**
Kanchikacherla - 521180, Krishna Dist., A.P. India
Phone: 08678 - 273553, 9491477790, 7382616524
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "IMPROVED DIRECT TORQUE CONTROL FOR INDUCTION MOTOR USING ARTIFICIAL NEURAL NETWORK" submitted by V.Akhilesh, V.Mohith Naga Adithya, S.Anitha, B.Jhansi Rani, P.Sai Nitheesh, S.Bruce Lee to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in Electrical and Electronics Engineering is a bonafied record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

M. Sunil Kumar
**Mr. M. Sunil Kumar, M. Tech. (Ph.D.)
Assistant Professor
Project Guide**



P. Pradeep
**Dr. P. Pradeep, Ph.D.
Associate Professor
Head of the Department**

T. Vamsee Kiran
**Dr. T. Vamsee Kiran, M.E., Ph.D.
Principal**

**PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dist.
Andhra Pradesh, India - Pin: 521180**

[Signature]
Internal Examiner

[Signature]
External Examiner

IMPROVED DIRECT TORQUE CONTROL FOR INDUCTION
MOTOR USING ARTIFICIAL NEURAL NETWORK

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

**Bachelor of Technology
In
Electrical and Electronics Engineering**

by

V. Akhilesh (20H75A0203) B. Jhansi Rani (20H75A0221)
V. Mohith Naga Adithya(20H75A0229) P. Sai Nitheesh (20H75A0241)
S. Anitha (19H71A0202) S. Bruce Lee (20H75A0208)

Under the Esteemed Guidance of

**Mr. M. SUNIL KUMAR, M. Tech.(Ph.D.)
Assistant Professor**



Department of Electrical and Electronics Engineering

**DVR & Dr. HS
MIC COLLEGE OF TECHNOLOGY
(Autonomous)**

Kanchikacherla- 521180, NTR Dist., Andhra Pradesh

2022-2023



**DVR & Dr. HS
MIC College of Technology**
Kanchikacherla - 521180, Krishna Dist., A.P. India
Phone: 08678 - 273553, 9491477790, 7382616524
Website: www.mictech.ac.in



CERTIFICATE

This is to certify that the project report entitled "IMPROVED DIRECT TORQUE CONTROL FOR INDUCTION MOTOR USING ARTIFICIAL NEURAL NETWORK" submitted by V.Akhilesh, V.Mohith Naga Adithya, S.Anitha, B.Jhansi Rani, P.Sai Nitheesh, S.Bruce Lee to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in Electrical and Electronics Engineering is a bonafied record of work carried out by him/her under my/our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

M. Sunil Kumar
**Mr. M. Sunil Kumar, M. Tech. (Ph.D.)
Assistant Professor
Project Guide**



P. Pradeep
**Dr. P. Pradeep, Ph.D.
Associate Professor
Head of the Department**

T. Vamsee Kiran
**Dr. T. Vamsee Kiran, M.E., Ph.D.
Principal**

**PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dist.
Andhra Pradesh, India - Pin: 521180**

[Signature]
Internal Examiner

[Signature]
External Examiner

**SPEED TRACKING PERFORMANCE OF PERMANENT
MAGNET SYNCHRONOUS MOTOR USING
ADVANCED CONTROLLERS**

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

Bachelor of Technology

In

Electrical and Electronics Engineering

By

M.Peddaiah (20H75A0237)
T.Sai Teja (20H75A0242)
S.Venkata Kishore (19H71A0219)
Y.William Cary (20H75A0262)
M.Sumanth (20H75A0252)

Under the esteemed guidance of
Mr. M.Sunil Kumar, M.Tech. (Ph.D)
Assistant Professor



Department of Electrical and Electronics Engineering

DVR & Dr.HS

MIC College of Technology
(Autonomous)

Kanchikacherla- 521180, NTR Dist., Andhra Pradesh

2022 - 2023



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MIC College of Technology

An Autonomous Institution
Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada
Kanchikacherla-521180, Krishna Dt. A.P. India



CERTIFICATE

This is to certify that the project report entitled "SPEED TRACKING PERFORMANCE OF PERMANENT MAGNET SYNCHRONOUS MOTOR USING ADVANCED CONTROLLERS" submitted by M. Peddaiah (20H75A0237), T. Sai Teja (20H75A0242), S. Venkata Kishore (19H71A0219), Y. William Cary (20H75A0262), M. Sumanth (20H75A0252), to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in **Electrical and Electronics Engineering** is a bonafide record of work. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Mr. M. Sunil Kumar, M. Tech. (Ph.D)
Assistant Professor
Project Guide


Dr. P. Pradeep, M. Tech, Ph.D
Associate Professor
Head of the Department


Dr. T. Vamsee Kiran, M.E., Ph.D
Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180


Internal Examiner




External Examiner

Design And Development of Parallel Hybrid Propulsion Electric Vehicle Using Cascaded H-bridge Multilevel Inverter

A Project Report Submitted in partial fulfillment of the requirements for the award of the degree of

**Bachelor of Technology
In
Electrical & Electronics Engineering**

by
20H75A0265 - K. Srinu
20H75A0202 - O. Naga Prameela
20H75A0212 - SK. Faruk Gani
20H75A0226 - CH. Manikanta
19H71A0203 - B. Bhuvanesh

Under the Esteemed Guidance of

Dr. B. K. Karunakar Rao, M. Tech, Ph. D
Associate Professor



Department of Electrical & Electronics Engineering

DVR & Dr. HS

MIC COLLEGE OF TECHNOLOGY

(Autonomous)

Kanchikacherla- 521180, NTR Dist., Andhra Pradesh

2022-2023




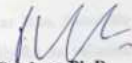
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Kanchikacherla - 521180, Krishna Dist, A.P, India.




CERTIFICATE

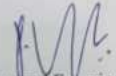
This is to certify that the project report entitled "**DESIGN AND DEVELOPMENT OF PARALLEL HYBRID PROPULSION ELECTRIC VEHICLE USING CASCADE H BRIDGE MULTI LEVEL INVERTER**" Submitted by **K. Srinu (20H75A0265), O. Naga Prameela (20H75A0232), SK. Faruk Gani (20H75A0212), CH. Manikanta (20H75A0226), B. Bhuvanesh (19H71A0203)**, to the **DVR & Dr. HS MIC College of Technology** in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in **Electrical & Electronics Engineering** is a bonafide record of work. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.


Dr. B. K. Karunakar Rao, Ph.D.
Associate Professor
Project Guide


Dr. P. Pradeep, Ph.D.
Associate Professor
Head of the Department EEE




Dr. T. Vamsee Kiran, M.E, Ph.D.
Principal
PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180


Internal Examiner


External Examiner

**A SURVEILLANCE SYSTEM TO DETECT BIKES
WITHOUT HELMET AND TRIPLE RIDERS**

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

**Bachelor of Technology
in
Electrical & Electronics Engineering
by**

**K. Uday Kiran (20H75A0255)
U. Vennela (20H75A0260)
V. Koteswara Rao (20H75A0223)
B. Srinivas Naik (20H75A0251)
T. Satya Vara Prasad (20H75A0246)**

**Under the Esteemed Guidance of
Mr. D. Arun Kumar, M.Tech
Assistant Professor**



**Department of Electrical & Electronics Engineering
DVR & Dr. HS MIC College of Technology
(Autonomous)
Kanchikacherla, Andhra Pradesh - 521180
2022 - 2023**

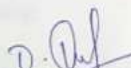


**DVR & Dr. HS
MIC College of Technology**
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)
Kanchikacherla - 521180, Krishna Dist, A.P, India




CERTIFICATE

This is to certify that the project report entitled "**A SURVEILLANCE SYSTEM TO DETECT BIKES WITHOUT HELMET AND TRIPLE RIDERS**" being submitted for the partial fulfilment of the requirements for the award of the degree in **Bachelor of Technology in Electrical & Electronics Engineering** from **Jawahar Lal Nehru Technological University, Kakinada**, is a bonafide work done by **K.Uday kiran (20H75A0255), U.Vennela (20H75A0260), V.Koteswara Rao (20H75A0223), B.Srinivas Naik (20H75A0251), T.Satya Vara Prasad (20H75A0246)** under guidance during the academic year 2022-23 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.


Mr. D. Arun Kumar, M.Tech
Assistant Professor
Project Guide




Dr. P. Pradeep, Ph.D.
Associate Professor
Head of the Department EEE


Dr. T. Vamsee kiran, M.E., Ph. D,

**Principal
PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180**


Internal Examiner


External Examiner

ELETRICAL BATTERY THERMAL MANAGEMENT SYSTEM BASED ON CALCULATING STATE OF CHARGE AND STATE OF HEALTH

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

Bachelor of Technology

In

Electrical and Electronics Engineering

By

Sk. Manisha Begum (20H75A0227)
M. Srikanth (19H71A0217)
Ch. Deepak Srinivas (20H75A0210)
V. Satwika (19H71A0215)
J. Ganesh (20H75A0213)
M. Venkateswara Rao (20H75A0259)

Under the esteemed guidance of
Dr. P. Pradeep, M. Tech, Ph.D
Associate Professor



Department of Electrical and Electronics Engineering

DVR & Dr.HS

MIC College of Technology

(Autonomous)

Kanchikacherla- 521180, NTR Dist., Andhra Pradesh

2022 - 2023



Approved by AICTE, Personally Affiliated to JSTUC, Kakinada
Kanchikacherla-521180, Kanchikacherla Dr. A.P. India

CERTIFICATE

This is to certify that the project report entitled "ELETRICAL BATTERY MANAGEMENT SYSTEM BASED ON CALCULATING STATE OF CHARGE AND STATE OF HEALTH" submitted by *Sk. Manisha Begum(20H75A0227), M. Srikanth(19H71A0217), Ch. Deepak Srinivas (20H75A0210), V. Satwika(19H71A0215), J. Ganesh (20H75A0213), M. Venkateswara Rao (20H75A0259)* to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in **Electrical and Electronics Engineering** is a bonafide record of work. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

Dr. P. Pradeep, M. Tech, Ph.D
Associate Professor
Project Guide



Dr. P. Pradeep, M. Tech Ph.D
Associate Professor
Head of the Department

Dr. T. Vamsee Kiran, M.E, Ph.D
Principal

PRINCIPAL
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Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180

Internal Examiner

External Examiner

MODELLING OF A DC MICROGRID AND ITS PROTECTION FROM FAULTS

*A Project Report
submitted in partial fulfillment of
The Requirements for the award of the Degree of*

BACHELOR OF TECHNOLOGY

**In
Electrical & Electronics Engineering
By**

R.Vasavi	(19H71A0218)
A.Venkat	(20H75A0257)
Md.Imran	(20H75A0219)
V.P.K. Chakravarthi	(20H75A0235)
G.Mahesh	(19H71A0207)

Under the Esteemed Guidance of
Mr. A.V.RAVI KUMAR M.Tech.(Ph.D)
ASSISTANT PROFESSOR



Department of Electrical & Electronics Engineering

DVR & Dr.HS
MIC College of Technology
(Autonomous)

Kanchikacherla- 521180, NTR Dist., Andhra Pradesh

2022-2023




DVR & Dr. HS
MIC College of Technology
ISO 9001:2015 Certified Institute
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)
Kanchikacherla - 521180, Krishna Dist., A.P., India.

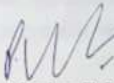


CERTIFICATE

This is to certify that the project report entitled "MODELLING OF A DC MICROGRID AND ITS PROTECTION FROM FAULTS" submitted by R.Vasavi (19H71A0218), A. Venkat(20H75A0257), Md.Imran(20H75A0219), V. P. K. Chakravarthi(20H75A0235), G. Mahesh(19H71A0207) to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree Bachelor of Technology in Electrical and Electronics Engineering is a bonafide record of work carried out by her under our guidance and supervision. The contents of this report, in full or in parts, have not been submitted to any other institute for the award of any Degree.


Mr. A.V.Ravi Kumar, M.Tech.(Ph.D)
Assistant professor
Project Guide

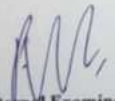



Dr. P. Pradeep, Ph.D
Associate Professor
Head of the Department, EEE



Dr. T. Vamsee Kiran, Ph.D
Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180


Internal Examiner


External Examiner

**DYNAMIC WIRELESS CHARGING OF ELECTRIC VEHICLE
WITH METERING SYSTEM**

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

**Bachelor of Technology
in
Electrical & Electronics Engineering
by**

**K. Tejasri (20H75A0253)
G. Bhanu Lakshman (20H75A0206)
P. Sadghun (19H71A0212)
K. Neeraj (20H75A0234)
K. Karthik (20H75A0222)**

Under the Esteemed Guidance of

**Dr. P. Pradeep, Ph.D.
Associate Professor**



Department of Electrical & Electronics Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)

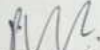
Kanchikacherla- 521180, NTR Dist., Andhra Pradesh

May, 2023




CERTIFICATE

This is to certify that the project report entitled "**DYNAMIC WIRELESS CHARGING OF ELECTRIC VEHICLE WITH METERING SYSTEM**" being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Electrical & Electronics Engineering** from **Jawahar Lal Nehru Technological University, Kakinada**, is a bonafide work done by **K. Tejasri(20H75A0253), G. Bhanu Lakshman(20H75A0206), P. Sadghun(19H71A0212), K. Neeraj(20H75A0234), K. Karthik(20H75A0222)** under my guidance during the academic year 2022-23 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.


Dr. P. Pradeep, Ph.D.
Associate Professor
Project Guide




Dr. P. Pradeep, Ph.D.
Associate Professor
Head of the Department EEE

**Dr. T. Vamsee Kiran, M.E., Ph. D.
Principal**

**PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180**


Internal Examiner


External Examiner

**SOLAR POWER GENERATION SYSTEM WITH POWER
SMOOTHING FUNCTION USING TWO POWER STAGES**

*A project Submitted in Partial
Fulfilment of the Requirements for the
award of Degree of*

**Bachelor of Technology in
Electrical and Electronics
Engineering**

By
K. Lavanya (20H75A0224)
Ch. Siva Keerthana (20H75A0249)
D. Charan (20H75A0209)
D. Ramalinga Prasad (20H75A0240)
P. Trinadh (20H75A0254)

Under the esteemed guidance of
Mr. S. RAVIKANTH, M. Tech
Assistant Professor
Department of EEE



Department of Electrical & Electronics Engineering

DVR & Dr. HS MIC College of Technology

(Autonomous)

Kanchikacherla, Andhra Pradesh - 521180

2022 - 2023




**DVR & Dr. HS
MIC College of Technology**

An Autonomous Institution
Approved by AICTE, Perpetually Affiliated to JNTU, Kakinada
Kanchikacherla-521180, Andhra Pradesh





CERTIFICATE

This is to certify that the project report entitled "SOLAR POWER GENERATION SYSTEM WITH POWER SMOOTHING FUNCTION USING TWO POWER STAGES" being submitted for the partial fulfilment of the requirements for the award of the degree in bachelor of technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by **K. LAVANYA (20H76A0224), CH. SIVA KEERTHANA (20H75A0249), D. CHARAN (20H75A0209), D. RAMALINGA PRASAD (20H75A0240), P. TRINADH (20H75A0254)** under my guidance during academic year 2022-2023 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any institution or university for the award of any degree.



Mr. S. Ravikanth, M.Tech.
Assistant Professor
Project Guide





Dr. P. Pradeep, Ph.D.
Associate Professor
Head of the Department EEE


Dr. T. Vamsee Kiran, M.E., Ph.D
Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180


Internal Examiner


External Examiner

ENHANCING VOLTAGE SABILITY AND IMPROVING POWER
QUALITY IN SMART GRID WITH RES FED CASCADED
MULTILEVEL INVERTER

A Project Report

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

Bachelor of Technology

In

Electrical & Electronics Engineering

By

20H75A0216 Alishethy Harika
20H75A0256 Ravula Upendra
19H71A0201 Gude Akshaya
20H75A0225 Lavudiya Mahendra
20H75A0233 Kalakanti Narasimha Swamy
19H71A0208 Shaik Malik Mohammad

Under the Esteemed Guidance of

Dr.B.K.Karunakar Rao M.Tech, Ph.D.

Associate Professor



Department of Electrical & Electronics Engineering

DVR & Dr. HS MIC College of Technology

(Autonomous)

Kanchikacherla, Andhra Pradesh – 521180

(2022 – 2023)

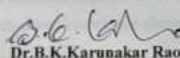


DVR & Dr. HS
MIC College of Technology
ISO 9001:2015 Certified Institute
(Approved by AICTE & Permanently Affiliated to JNTUK, Kakinada)
Kanchikacherla - 521180, Andhra Pradesh, India



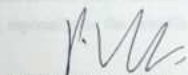
CERTIFICATE

This is to certify that the project report entitled "ENHANCING VOLTAGE STABILITY AND IMPROVING POWER QUALITY IN SMART GRID WITH RES FED CASCADED MULTILEVEL INVERTER" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical & Electrical Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by A.Harika(20H75A0216),R.Upendra(20H75A0256),G.Akshaya(19H71A0201),L.Mahendra(20H75A0225),K.Narasimha swamy(20H75A0233),SK.Maik Mohammad(19H71A0201) under the guidance during the academic year 2022-23 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.


Dr.B.K.Karunakar Rao, Ph.D.

Associate Professor
Project Guide



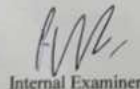

Dr. P. Pradeep, Ph.D.

Associate Professor
Head of the Department EEE



Dr.T.Vamsee Kiran,M.E.,Ph.D.
Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India – Pin: 521180


Internal Examiner


External Examiner

AN EFFECTIVE CONTROLLER DESIGN FOR BLDC MOTOR

DRIVE WITH GIANT TREVALLY OPTIMIZER

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

**Bachelor Of Technology
in
Electrical And Electronics Engineering
By**

GUJJARLAPUDI NIKHIL	(19H71A0210)
GUGULOTHU PAVAN KUMAR	(20H75A0236)
BEZAWADA VIJAY KUMAR	(20H75A0261)
PATHAN YAKHOOB	(19H71A0220)
VEMULA GEETHA VEERA NAGA PRASANNA	(20H75A0214)

Department of Electrical & Electronics Engineering

Under the esteemed guidance of

Mr. M.RAMA MOHANA RAO, M.Tech

**Assistant Professor
Department of EEE**



**Department of Electrical & Electronics Engineering
DVR & Dr. HS
MIC College of Technology
(Autonomous)**

**Kanchikacherla - 521180, NTR Dist, Andhra Pradesh
April, 2023**

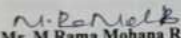
Devineni Venkata Ramana & Dr. Himasekhar
MIC College of Technology

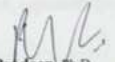
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Approved by AICTE, Permanently Affiliated to: JNTUK, Kakinada
Kanchikacherla - 521180, Krishna Dist, A.P, India.



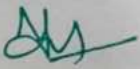
CERTIFICATE

This is to certify that the project report entitled "An Effective Controller Design for BLDC Motor Drive with Giant Trevally Optimizer" being submitted for the partial fulfillment of the requirements for the award of the degree in **Bachelor of Technology in Electrical and Electronics Engineering** from **Jawaharlal Nehru Technological University, Kakinada**, is a bonafide work done by **Nikhil G, Pavan Kumar G, Vijay Kumar B, Yakhoob P, and Geetha Veera Naga Prasanna V** under my guidance during the academic year 2022-23 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

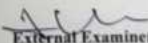

Mr. M.Rama Mohana Rao, M.Tech.
Assistant Professor
Project Guide


Dr. P. Pradeep, Ph.D
Professor
Head of the Department




Dr. T. Vamsee Kiran, Ph.D.
Principal
PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180


Internal Examiner


External Examiner

FULLY AUTOMATED SOLAR GRASS CUTTER

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

Bachelor of Technology

In

Electrical and Electronics Engineering

By

S.Mohana	(20H75A0228)
T.Bhagya Raju	(20H75A0205)
D.Prasanna Kumar	(20H75A0238)
G.Yaswanth	(20H75A0263)
S.Manasa	(19H71A0209)

Under the esteemed guidance of
Mr.N.Venu Babu, M.Tech
Assistant Professor



Department of Electrical and Electronics Engineering

DVR & Dr.HS

MIC College of Technology

(Autonomous)

Kanchikacherla- 521180, NTR Dist., Andhra Pradesh

2022 - 2023



DVR & Dr. HS

MIC College of Technology

An Autonomous Institution
Approved by AICTE, Permanently Affiliated to JNTUK, Kakinda
Kanchikacherla-521180, Krishna Dt. A.P. India



CERTIFICATE

This is to certify that the project report entitled "FULLY AUTOMATED SOLAR GRASS CUTTER" submitted by S.Mohana(20H75A0228), T.Bhagya Raju(20H75A0205),D.Prasanna Kumar (20H75A0238), G.Yaswanth(20H75A0263),S.Manasa (19H71A0209), to the DVR & Dr. HS MIC College of Technology in partial fulfillment of the requirements for the award of the Degree of Bachelor of Technology in **Electrical and Electronics Engineering** is a bonafide record of work. The contents of this report, in full or in parts, have not been submitted to any other Institute for the award of any Degree.

N.Venu
Mr. N.Venu Babu, M. Tech
Assistant Professor
Project Guide



P. Pradeep
Dr. P. Pradeep, M. Tech, Ph.D
Associate Professor
Head of the Department

T. Vamsee Kiran
Dr. T. Vamsee Kiran, M.E., Ph.D
Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180

[Signature]
Internal Examiner

[Signature]
External Examiner

AN ENHANCED ADAPTIVE FILTER BASED POWER QUALITY
IMPROVEMENT WITH THREE PHASE FOUR WIRE INTERLINKING
CONVERTER IN MICROGRID SYSTEMS

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

Bachelor of Technology
in
Electrical & Electronics Engineering
by

K. Sampath Kumar (20H75A0244)
G. Harika Devi (20H75A0217)
K. Raja Rajeswari (20H75A0239)
S. Priyanka (19H71A0211)
K. Yeswanth Kumar (20H75A0264)

Under the Esteemed Guidance of
Mr. M. Tharun, M. Tech
Assistant professor



Department of Electrical & Electronics Engineering
DVR & Dr. HS

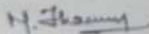
MIC College of Technology
(Autonomous)
Kanchikacherla – 521180, NTR Dist, Andhra Pradesh


April, 2023




CERTIFICATE

This is to certify that the project report entitled "AN ENHANCED ADAPTIVE
FILTER BASED POWER QUALITY IMPROVEMENT WITH THREE-PHASE
FOUR-WIRE INTERLINKING CONVERTER IN MICROGRID SYSTEMS"
being submitted for the partial fulfillment of the requirements for the award of the degree
in **Bachelor of Technology in Electrical & Electronics Engineering** from
Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by
K. Sampath Kumar (20H75A0244), G. Harika Devi (20H75A0217), K. Raja
Rajeswari (20H75A0239), S. Priyanka (19H71A0211), K. Yeswanth Kumar
(20H75A0264) under my guidance during the academic year 2022-23 and it has been
found suitable for acceptance according to the requirement of the university. This work
is not submitted to any other institution or university for the award of any degree.


Mr. M. Tharun, M.Tech.
Assistant Professor
Project Guide


Dr. P. Pradeep, Ph.D.
Associate Professor
Head of the Department EEE



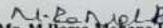

Dr. T. Vamsee Kiran,
Principal
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180

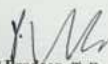

Internal Examiner


External Examiner


CERTIFICATE

This is to certify that the project report entitled "Optimal Controller Design For BLDC Motor Drive With Transit Search Optimization Algorithm" being submitted for the partial fulfillment of the requirements for the award of the degree in Bachelor of Technology in Electrical and Electronics Engineering from Jawaharlal Nehru Technological University, Kakinada, is a bonafide work done by Gopal S, Kranthi Kiran M, Venkateswara Rao Ch, Sathwik V and Sri Hari T under my guidance during the academic year 2022-23 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.

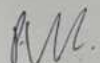

Mr. M. Rama Mohana Rao, M.Tech.
Assistant Professor
Project Guide


Dr. P. Pradeep, Ph.D
Professor
Head of the Department




Dr. T. Vamsee kiran
Principal

PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180


Internal Examiner


External Examiner

OPTIMAL CONTROLLER DESIGN FOR BLDC MOTOR DRIVE WITH TRANSIT SEARCH OPTIMIZATION ALGORITHM

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

Bachelor of Technology

in
Electrical & Electronics Engineering

by

S. Gopal (20H75A0215)
M. Kranthi Kiran (19H71A0206)
Ch. Venkateswara Rao (20H75A0258)
V. Sathwik (19H71A0214)
T. Sri Hari (20H75A0250)

Under the Esteemed Guidance of
Mr. M. Rama Mohana Rao, M. Tech
Assistant professor



Department of Electrical & Electronics Engineering

DVR & Dr. HS

MIC College of Technology

(Autonomous)
Kanchikacherla - 521180, NTR Dist, Andhra Pradesh

April, 2023

**EYE CONTROLLED WHEEL CHAIR FOR PHYSICALLY
HANDICAPPED USING RASPBERRY PI**

A Project Report

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

**Bachelor Of Technology
in
Electrical & Electronics Engineering
by**

R. Harshith (20H75A0218)

M. Akanksha (20H75A0202)

N. Bhargava Ram (20H75A0207)

V. DIVYA SRI (19H71A0205)

SK. Alla Bakshu (20H75A0204)

**Under the esteemed guidance of
Mrs B. Lakshmi Nagamani
Assistant Professor**



**Department of Electrical & Electronics Engineering
DVR & Dr. HS MIC College of Technology
(Autonomous)
Kanchikacherla, Andhra Pradesh - 521180
2022 - 2023**



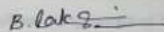
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MIC College of Technology**

An Autonomous Institution
Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada
Kanchikacherla-521180, Kothasa Dr. A.P. India



CERTIFICATE

This is to certify that the mini project report entitled **"EYE CONTROLLED WHEEL CHAIR FOR PHYSICALLY HANDICAPPED USING RASPBERRY PI"** being submitted by **R.HARSHITH, M.AKANKSHA, N.BHARGAV RAM, V.DIVYASRI, SH.ALLA BAKSHU** to **DVR & Dr. HS MIC College of Technology** (Autonomous), in partial fulfilment of the requirements for the award of the degree in Bachelor of Technology in **Electrical and Electronics Engineering** is a bonafied work done by under my guidance and Supervision during the academic year 2022-23 and it has been found suitable for acceptance according to the requirement of the university. This work is not submitted to any other institution or university for the award of any degree.


Mrs B. Lakshmi Nagamani

Assistant Professor


Project Guide




Dr. P. Pradeep, Ph.D.

Associate Professor

Head of the Department


Dr. T. Vamsee Kiran, Ph.D.

Principal

**PRINCIPAL
DVR & Dr. HS MIC College of Technology
Kanchikacherla, N.T.R. Dt.
Andhra Pradesh, India - Pin: 521180**


INTERNAL EXAMINER


EXTERNAL EXAMINER