

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Kakinada-533003. Andhra Pradesh (India)

Projects/Internship/Field visits

AY: 2021-22

Program	Program Name	Projects		Internships		Field visits	
Code	7,708,4	No of projects	Total no. of students	No. of Internships	Total no. of students	No. of Field visits	Total no. of students
021D52	M.Tech - PED	16	21	5.55			
021D08	M.Tech - HVE	18	18				
021D34	M.Tech – AEPS	11	13	7.75			
021A02	B.Tech-EEE	11	53	56	56		

Coordinator

REGISTRAR
J.N.T. University Kakinada
Kakinada-533003

Professor & Head
Dept. of Elec. & Electronics Engg.
University College of Engg.
J.N.T.University Kakinada
KAKINADA-533'003.



JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA Kakinada-533003, Andhra Pradesh (India)

Projects

Program Code: 021D52

Program Name:M.Tech – PED

Year 2021-22

S.No	Student name	Project Title	Guide Name	Dates (Duration)	Organization Location
L	BankuruVamsi	A Novel bidirectional T-type multilevel inverter for	Dr. K.Venkata Reddy	2021-2022	MATLAB-UCEK JNTUK
	(20021D5201) PandetiDurgaBhavani	Utilization of shunt hybrid active power filter for	Dr.M.Nageswararao	2021-2022	MATLAB-UCEK JNTUK
	(20021D5214) SHAIK SHAKEERA	power quality improvement TRANSFORMED BASED CASCADED MULTI LEVEL INVERTER WITH REDUCED NUMBER	Dr T MURALI MOHAN	2021-2022	MATLAB-UCEK JNTUK
	(19021D5213) KOLLAPU MONOHARI	OF SWITCHES CLOSED LOOP CONTROL OF A NEW HIGH STEP-UP MIMO DC-DC CONVERTER	Dr T MURALI MOHAN	2021-2022	MATLAB-UCEK JNTUK
,	(19021D5214) CHAVVKULA PUSHPA RANI	REDUCED SWITCHES COUNT OF FIVE LEVEL H-BRIDGE INVERTER VIT INERGRATED BOOST CONVERTER IN SOLOR PV SYSTEM	Dr T MURALI MOHAN	2021-2022	MATLAB-UCEK JNTUK
ö	(19021D5219) KATTAMURI V V D RAMANA KUMARI	MODELLING AND CONTROL OF NON IDEAL DC-DC BUCK AND CHECK CONVERTORS	Dr K RAVINDRA	2021-2022	MATLAB-UCEK JNTUK
7	(19021D5211) THURAYI V V SATA PRASAD	DESIGN AND CONTROL OF NON IDEAL PWM BOOST AND SEPIC CONVERTORS	Dr K RAVINDRA	2021-2022	MATLAB-UCEK JNTUK
8	(19021D5203) NALLAGALA SANKAR	COMPETITION OF OPTIMUM DC VOLTAGE SOURCE VALUE AND SWITCHING ANGLES SUING AND EVALUTIONARY ALGORITHM FOR HORMONICS ELEMINATIONS IN CASCADE	Dr K RAVINDRA	2021-2022	MATLAB-UCEK JNTUK
9	(18021D5203) AYISETTI ACHYUTHA MANI SANKAR (18021D5214)	H-BRIDGE MULTI LEVEL INVERTOR SELECTIVE HARMONIC LEMINATION AND SEECTIVE HARMONIC METIGATION FOR CASEDED H-BRIDGE MULTI LEVEL INVETOR USING BACK TRACKING SEARCH	Dr K RAVINDRA	2021-2022	MATLAB-UCEK JNTUK

		OPTIMISATION ALGORITHAM			
10	DARAM VENKATESH (19021D5215	MODELLING AND CONTROL STRATERGIES OF ISOLATED BUCK (FLY DASH BUCK) CONVERTOR	Dr Ch SAI BABU	2021-2022	MATLAB-UCEK JNTUK
11	SINGIDI VENKATESH (19021D5212)	COMPARISION OF MODULATION TECHNIQUES FOR HYBRID TOPOLOGIES WITH SELF VOLTAGE BALANCING CAPABILITIES	Dr Ch SAI BABU	2021-2022	MATLAB-UCEK JNTUK
12	KALLAMADI SAICHAKRADHAR (19021D5216)	BUS CLAMPED SPACE VECTRO MODULATED DTC OF INDUCTION MOTOR	Dr B NARESH	2021-2022	MATLAB-UCEK JNTUK
13	AVULA SRINIVAS (19021D5205)	DIRECT TORQUE CONTROL OF INDUCTION MOTOR USING MODIFIED FIVE LEVEL TORQUE CONTROLLER	Dr B NARESH	2021-2022	MATLAB-UCEK JNTUK
14	AMALADASU SRI RAJA SEKHAR (19021D5210)	WIRELESS MONITORING ANALYSIS ON IMPLEMENTATION OF DFIG BASED WIND ENERGY CONVERSION SYSTEM USING IOT	Dr K SRI RAVI KUMAR	2021-2022	MATLAB-UCEK JNTUK
15	SURAMPUDI MOUNIKA SAI (19021D5204)	A BOOST TYPE SWITCHED CAPACITOR MULTI LEVEL INVERTOR	Sri B NARESH	2021-2022	MATLAB-UCEK JNTUK
16	KADALI VENKATA GAYATRI (19021D5201)	CASCADED MULTI LEVEL INVERTOR WITH REDUCED NUMBER OF COMPONENTS	Sri B NARESH	2021-2022	MATLAB-UCEK JNTUK

Coordinator

REGISTRAR
J.N.T. University Kakinada
Kakinada-533003

HOD/Academic Advisor Professor & Head Dept. of Elec. & Electronics Engg. University College of Engg. J.N.T.University Kakinada KAKINADA-533 003.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A) JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY



297

CERTIFICATE

This is to certify that this thesis, entitled "UTILIZATION OF SHUNT HYBRID ACTIVE POWER FILTER FOR POWER QUALITY IMPROVEMENT" is being submitted by PANDETI DURGA BHAVANI bearing Roll no: 20021D5214 in partial fulfilment of the requirements for the award of the Degree of Master of Technology in Power Electronics and Drives from the department of Electrical & Electronics Engineering to University College of Engineering, Jawaharlal Nehru Technological University Kakinada is a record of bonafide work carried out by him under my guidance and supervision.

The work is original and has not been submitted to any University or Institute for the award of any degree or diploma.

Project Guide

Dr. M. NAGESWARA RAO M. Tech [NITC]., P.hD.

Professor
Department of EEE,
University College of Engineering Kakinada(A),
INT University Kakinada,
Kakinada, 533003.

Head of the Department

Dr. K. RAVINDRA PAD.

Professor & Head
Department of EEE,
University College of Engineering Kakinada(A),
JNT University Kakinada,
Kakinada, 533003.

REGISTRAR

J.N.T. University Kakinada

Kakinada-52

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A) JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA



998

CERTIFICATE

This is to certify that the Project Report entitled "A NOVEL BIDIRECTIONAL T-TYPE MULTI LEVEL INVERTER FOR ELECTRIC VEHICLE APPLICATION" that is being submitted by Mr. BANKURU VAMSI bearing Roll no: 20021D5201 in partial fulfillment of the requirements for the award of degree of Master of Technology in "POWER ELECTRONICS & DRIVES" from the Department of Electrical & Electronics Engineering to the University College of Engineering, Jawaharlal Nehru Technological University Kakinada is a record of bonatide work carried out by him under the guidance and supervision.

The work is original and has not been submitted to any other University or Institute for the award of any degree or diploma.

Project Guide

Dr. Venkata Reddy Kota

Professor.

Department of EFE,

University College of Engineering (A),

JNTU Kakinada.

Head of the Department

Dr. K. Ravindra

Professor,

Department of EEE,

University college of Engineering(A),

JNTU Kakinada

REGISTRAR
J.N.T. University Kakinada

1

viceprincipal.ucek@intucek.ac.in



Phone:Off No:0884 -2300825 Mobile No: 9989901433

Date: 05-01-2022

UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (AUTONOMOUS) JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Lr.No.B1/M.Tech /Viva-Voce/EEE/2022

From: Dr U.V Ratna Kumari. M. Tech, Ph.D.,. Professor of ECE &

VICE-PRINCIPAL.

To Dr. S.S Tulasi Ram, Professor in EEE Dept.(Retd.) JNTUH, Hyderabad

Sir,

Sub:- JNT University College of Engineering Kakinada - M. Tech (DT) Project thesis Evaluation of Dissertation and conduct of Viva-Voce examination to certain Students - Appointment of External Examiner - Regarding.

I have pleasure in inviting you to accept the appointment of External Examinership for evaluation of dissertation/thesis of M. Tech (DT) (HVE, AEPS & PE&D) EEE Programme students

of this college for conduct of Viva-voce examination. The details are given below.

S.No	Roll No.	Name of the Student	Internal Guide	Title of the Thesis
1	19021D3412 (AEPS)	Kakileti Sumanth Babu	Dr. V V N Murthy Prof.in EEE Dept. UCEK,JNTK Kakinada	Modelling Implementation, and Performance Analysis of A Gride- Connected Photovoltaic/Wind Hybrid Power System
2	19021D3406 (AEPS)	Bellam konda Chandrika	Dr. V V N Murthy Prof.in EEE Dept UCEK,JNTK Kakinada	Novel Control Strategy Based PV- Statcom for Power Oscillation Damping
3	19021D5204 (PE&D)	Surampudi Mounika Sai	Sri. B Naresh Associate Prof.in EEE Dept. UCEK,JNTK Kakinada	A Boost Type Switched Capacitor Multilevel Inverter
4	19021D0820 (HVE)	Guthurthi Naga Deepthi	Sri. B Naresh Associate Prof.in EEE Dept. UCEK,JNTK Kakinada	Active Power Decoupling and Control in the Signle- Phase Nonlinear load with Facts Devices
5	19021D5201 (PE&D)	Kadali Venkata Gayatri	Sri. B Naresh Associate Prof.in EEE Dept. UCEK,JNTK Kakinada	Cascaded Multi Level Inverter With Reduced Number of Components

A remuneration of Rs.750-00 for evaluation per thesis and Rs.750-00 for conduct of Viva-voce per each candidate will be paid as per the University rules. The Viva-voce examination is proposed to be conducted thorough online.

I request you kindly to convey your acceptance and convenient date by return of post/e-mail to Head of the department, so as to enable the college to inform the date sufficiently in advance to the internal examiner and the students concerned.

Encl: Thesis Book (05 Nos.) Contact for further details

Dr.K SriKumar, (0884-2300843)

Topy to Head, Department of EEE.

Yours faithfully,



Phone:Off No:0884 -2300825 Mobile No: 9989901433

UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (AUTONOMOUS) JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Lr.No.B1/M.Tech /Viva-Voce/EEE/2021

From:
Dr U.V Ratna Kumari,
M. Tech, Ph.D.,.
Professor of ECE &
VICE-PRINCIPAL.

To
Smt A Padma,
Asst.Professor of EEE & HOD
University College of Engineering
Vizianagaram.

Date: 29-12-2021

Sir,

Sub:- JNT University College of Engineering Kakinada - M. Tech (DT) Project thesis Evaluation of Dissertation and conduct of Viva-Voce examination to certain Students - Appointment of External Examiner - Regarding.

I have pleasure in inviting you to accept the appointment of External Examinership for evaluation of dissertation/thesis of M. Tech (DT) (AEPS &PE&D) EEE Programme students of this college for conduct of Viva-voce examination. The details are given below.

S.No	Roll No.	Name of the Student	Internal Guide	Title of the Thesis
1	19021D3405 (AEPS)	Vankadari Praveen	Dr. K Srikumar	Analysis & Design of Hybrid Energy Storage System Based Electric Vehicle With IOT Based Performance Monitoring
2	19021D3415 (AEPS)	Kontheti Sai Prakesh	Dr. K Srikumar	Modelling and Design of Adaptive Neuto Fuzzy MPPT Based PV System With Wireless Monitoring & Load Management
3	19021D3409 (AEPS)	Asok Babu Valluri	Dr. K Srikumar	Novel Control Approch with FRT Capability for Grid Connected Hybrid Distributed Generatin Sysem Using ANN Controller - Based DVR
4	19021D5210 (PE&D)	Amaladasu Sri Raja Sekhar	Dr. K Srikumar	Wireless Monitoring , Analysis and Impelementation of DFIG Based Wind Energy Conversion System Using IOT

A remuneration of Rs.750-00 for evaluation per thesis and Rs.750-00 for conduct of Viva-voce per each candidate will be paid as per the University rules. The Viva-voce examination is proposed to be conducted thorough online.

I request you kindly to convey your acceptance and convenient date by return of post/e-mail to Head of the department, so as to enable the college to inform the date sufficiently in advance to the internal examiner and the students concerned.

Encl: Thesis Book (04 Nos.)

<u>Contact for further details</u>

Dr.K SriKumar, (0884-2300843)

Copy to Head, Department of EEE. KEGISTKA

Yours faithfully,

U.Y. TZE WWW.

VICE-PRINCIPAL

viceprincipal.ucek@jntucek.ac.in



Phone:Off No:0884 -2300825 Mobile No: 9989901433

UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (AUTONOMOUS) JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA Date: 29-12-2021

Lr.No.B1/M.Tech /Viva-Voce/EEE/2021

From: Dr U.V Ratna Kumari, M. Tech, Ph.D ... Professor of ECE & VICE-PRINCIPAL.

To Smt A Padma, Asst.Professor of EEE & HOD University College of Engineering Vizianagaram.

Sir.

Sub:- JNT University College of Engineering Kakinada - M. Tech (DT) Project thesis Evaluation of Dissertation and conduct of Viva-Voce examination to certain Students - Appointment of External Examiner - Regarding.

I have pleasure in inviting you to accept the appointment of External Examinership for evaluation of dissertation/thesis of M. Tech (DT) (AEPS &PE&D) EEE Programme students of this

college for conduct of Viva-voce examination. The details are given below.

college	e for conduct of	Viva-voce examina	ition. The details are gi	ven below.
S.No	Roll No.	Name of the Student	Internal Guide	Title of the Thesis
1	19021D3405 (AEPS)	Vankadari Praveen	Dr. K Srikumar	Analysis & Design of Hybrid Energy Storage System Based Electric Vehicle With IOT Based Performance Monitoring
2	19021D3415 (AEPS)	Kontheti Sai Prakesh	Dr. K Srikumar	Modelling and Design of Adaptive Neuto Fuzzy MPPT Based PV System With Wireless Monitoring & Load Management
3	19021D3409 (AEPS)	Asok Babu Valluri	Dr. K Srikumar	Novel Control Approch with FRT Capability for Grid Connected Hybrid Distributed Generatin Sysem Using ANN Controller - Based DVR
4	19021D5210 (PE&D)	Amaladasu Sri Raja Sekhar	Dr. K Srikumar	Wireless Monitoring, Analysis and Impelementation of DFIG Based Wind Energy Conversion System Using IOT

A remuneration of Rs.750-00 for evaluation per thesis and Rs.750-00 for conduct of Viva-voce per each candidate will be paid as per the University rules. The Viva-voce examination is proposed to be conducted thorough online.

I request you kindly to convey your acceptance and convenient date by return of post/e-mail to Head of the department, so as to enable the college to inform the date sufficiently in advance to the internal examiner and the students concerned.

Encl: Thesis Book (04 Nos.) Contact for further details Dr.K SriKumar, (0884-2300843) Copy to Head, Department of EEE

Yours faithfully, VICE- PRINCIPAL VICE-PRINCIPAL



PHONE. OH 140.0004 -2300023 Mobile No: 9989901433

UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (AUTONOMOUS) JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Lr.No.B1/M.Tech /Viva-Voce/EEE/2022

Date: 05-01-2022

From:

Dr U.V Ratna Kumari, M. Tech, Ph.D.,. Professor of ECE & VICE-PRINCIPAL.

To Dr. Mallikarjuna Rao, Professor in EEE Dept A U College of Engineering. Vishkaptnam

Sir,

Sub:- JNT University College of Engineering Kakinada - M. Tech (DT) Project thesis Evaluation of Dissertation and conduct of Viva-Voce examination to certain Students - Appointment of External Examiner - Regarding.

I have pleasure in inviting you to accept the appointment of External Examinership for evaluation of dissertation/thesis of M. Tech (DT) (HVE & PE&D) EEE Programme students of this

college for conduct of Viva-voce examination. The details are given below.

S.No	Roll No.	Name of the Student	Internal Guide	Title of the Thesis
1	19021D5215 (PE&D)	Daram Venkatesh	Dr.Ch Sai Babu Professor of EEE Dept.	Modelling and Control Strategies of Isolated Buck (Fly-Buck) Converter
2	19021D5212 (PE&D)	Singidi Venkatesh	Dr.Ch Sai Babu Professor of EEE Dept.	Comparison of Modulation Techniques for Hybrid Topologies with Self-Voltage Balancing Capabilities
3	19021D5216 (PE&D)	Kallamadi Saichakradhar	Dr. B Naresh Assoc. Professor of EEE Dept.	Bus clamped Space Vectro Modulated DTC of Induction Motor
4	19021D5205 (PE&D)	Avula Srinivas	Dr. B Naresh Assoc. Professor of EEE Dept.	Direct Torque Control of induction Motor Using Modified Five-Level Torque Controler
5	19021D0809 (HVE)	Barre Naveen Kumar	Dr. N Sumathi Assoc. Professor of EEE Dept.	Design and implement Analysis of A 230KV Zink Oxide Surge Arrester

A remuneration of Rs.750-00 for evaluation per thesis and Rs.750-00 for conduct of Viva-voce per each candidate will be paid as per the University rules. The Viva-voce examination is proposed to be conducted thorough online.

I request you kindly to convey your acceptance and convenient date by return of post/e-mail to Head of the department, so as to enable the college to inform the date sufficiently in advance to the internal examiner and the students concerned.

Encl: Thesis Book (05 Nos.) Contact for further details Dr.K SriKumar, (0884-2300843) Copy to Head, Department of EEE, Yours faithfully,

VICE- PRINCIPAL

VICE-PRINCIPAL University College of Engineering, Kaltinada JNTUK, KAKINADA

J.N.T. University Kakinada

Kakinada-533003

Jntucek.ac.in

28

Phone:Off No:0884 -2300825

UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (AUTONOMOUS) JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Lr.No.B1/M.Tech /Viva-Voce/EEE/2022

From:

Dr U.V Ratna Kumari, M. Tech. Ph.D.,. Professor of ECE & VICE-PRINCIPAL.

To

Dr. K Bhaskar, Assoc.Professor in EEE Dept

Date: 05-01-2022

JNTUH College of Engineerig Hyd JNTUH, Hyderabad-500085

Sir,

Sub:- JNT University College of Engineering Kakinada - M. Tech (DT) Project thesis Evaluation of Dissertation and conduct of Viva-Voce examination to certain Students - Appointment of External Examiner - Regarding.

I have pleasure in inviting you to accept the appointment of External Examinership for evaluation of dissertation/thesis of M. Tech (DT) (HVE ,AEPS &PE&D) EEE Programme students

S.N	o Roll No.	onduct of Viva-voc	M. Tech (DT) (HVE ,AEPS ce examination. The detail	ment of External Examinership fo &PE&D) EEE Programme students s are given below
1	19021D5211	Kattamuri	- Merrial Guide	Title of the Thesis
2	(PE&D) 19021D5203	V V D Ramana Kumari Thurayi V V	Professor of EEE Dept.	
	(PE&D)	Satya Prasad	Dr. K Ravindra Professor of EEE Dept	Design and Control
3	18021D5203 (PE&D)	Nallagala Sankar	Dr. K Ravindra Professor of EEE Dept	PWM Boost and Sepic Converters Computatin of Optimum De Voltage Source Value and Switching Angles Suing An Evolutionary Algorithihm for Harmonics Elimination in Cascade H-Bridge Multilevel
4		Ayisetti Achyutha Mani Sankar	Dr. K Ravindra Professor of EEE Dept	H-Bridge Multilevel Inverter Selective Harmnic Elimination and Selective Harmonic Mitigation for Cascded H-Bridge Multilevel Inverter Usi
		Allu Sharmukha Rao	Dr. N Sumathi Assco. Professor of EEE Dept,	Search Optimization Algorithm Experimental Study On Optimization of Filler
ducted i	thorough online	d as per the Unive	ation per thesis and Rs.750	-00 for conduct of Vive

each candidate will be paid as per the University rules. The Viva-voce examination is proposed to be 750-00 for evaluation per thesis and Rs.750-00 for conduct of Viva-voce per

I request you kindly to convey your acceptance and convenient date by return of post/e-mail to Head of the department, so as to enable the college to inform the date sufficiently in advance to the internal

Encl: Thesis Book (05 Nos.) Contact for further details Dr.K SriKumar, (0884-2300843) Copy to Head, Department of EEE.

> J.N.T. University Kakinada Kakinada-533003

Yours faithfully,

VICE- PRINCIPAL

VICE-PRINCIPAL University College of Engineering Ket maga JATUK, KAKINADA

viceprincipal.ucek@jntucek.ac.in



Phone:Off No:0884 -2300825 Mobile No: 9989901433

UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (AUTONOMOUS) JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Lr.No.B1/M.Tech /Viva-Voce/EEE/2021

Date: 29-12-2021

From: Dr U.V Ratna Kumari, M. Tech, Ph.D.,. Professor of ECE & VICE-PRINCIPAL.

To Dr. Ch Chengalah, Professor in EEE Dept. S.V.U College of Engineering Sri Venkatateswara University Tirupati, AP

Sir,

Sub:- JNT University College of Engineering Kakinada - M. Tech (DT) Project thesis Evaluation of Dissertation and conduct of Viva-Voce examination to certain Students - Appointment of External Examiner - Regarding.

I have pleasure in inviting you to accept the appointment of External Examinership for evaluation of dissertation/thesis of M. Tech (DT) (PE&D) EEE Programme students of this college

S.No	Roll No.		The details are given belo	Programme students of this colle
	MOII IVO.	the Student	Internal Guide	Title of the Thesis
1	19021D5213 (PE&D)	Shaik Shakeera	Dr. T Murali Mohan	Transformer Based Cases I. I.
2	19021D2514	Kollapu	- Marati Monan	Number of Switches
	(PE&D)	Monohari	Dr. T Murali Mohan	Closed Loop Control of A New High Step-up Mimo Dc-Dc Converter
3	19021D5219 (PE&D)	Chavvkula Pushpa Rani	Dr. T Murali Mohan	Reduced Switches Count of Five
. 1	A remuneration	of Rs.750-00 for eva	aluation per thesis and Rs.	Inergrated Boost Converter In Solor PV System

A remuneration of Rs.750-00 for evaluation per thesis and Rs.750-00 for conduct of Viva-voce per each candidate will be paid as per the University rules. The Viva-voce examination is proposed to be

I request you kindly to convey your acceptance and convenient date by return of post/e-mail to Head of the department, so as to enable the college to inform the date sufficiently in advance to the internal

Encl: Thesis Book (03 Nos.) Contact for further details Dr.K SriKumar, (0884-2300843) Copy to Head, Department of EEE.

Yours faithfully,

JNTUK, KAKINADA

J.N.T. University Kakinada Kakinada-533003