



**VASIREDDY VENKATADRI INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**

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Nambur (V), Pedakakani (M), Guntur (Dt.), Andhra Pradesh – 522 508, [www.vvitguntur.com](http://www.vvitguntur.com)

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

IV B.Tech II-sem (R20) Project Titles (2020 Batch)

S.No.	Batch code	Title of the project & guide	Student Regd. No.	Student Name
1	A1	Advancements in fault detection and classification for transmission lines: A Deep learning approach with enhanced fault diversity <b>(Dr.A.V.Naresh Babu)</b>	20BQ1A0228	Ch.Visalakshi
			20BQ1A0239	D.Bharath Kumar
			20BQ1A0241	G.Lakshmi Reddy
2	A2	Integration of wind, solar and electric vehicle connections to the electrical grid using ANN-Control based topology <b>(Dr.S.Ravindra)</b>	20BQ1A0209	A.Vanisha Meghali
			20BQ1A0221	B.Teja Nagasri
			20BQ1A0232	D.Sri sai Manikanta
			20BQ1A0251	K.Chirudeep
3	A3	A Hybrid energy driven non-isolated multi port DC-DC converter for electric vehicle applications <b>(Dr.D.Srilatha)</b>	21BQ5A0202	Ch.Harish
			20BQ1A0233	D.Naga Satya sri
			20BQ1A0226	Ch.Karthika
			20BQ1A0234	D.Pradeep Kumar
4	A4	DSTATCOM supported induction generator for improving power quality <b>(Mr.Sk.Rasululla)</b>	20BQ1A0242	G.Susan
			20BQ1A0206	A.Mithra Vindara Valli
			21BQ5A0207	K.Swathi
			20BQ1A0223	B.Vincent Thompson
5	A5	Grid interactive solar PV based water pumping using BLDC motor drive <b>(Dr.Ch.Rambabu)</b>	20BQ1A0213	B. Indhu
			20BQ1A0231	Ch. Sirisha
			20BQ1A0207	A.Sai Pavan
			20BQ1A0212	A.Sandeep
6	A6	Simulation of Sustainability oriented electric vehicle charging in decentralized solar, wind and battery	20BQ1A0236	D.Priyanka
			20BQ1A0210	A.Vamsi

		storage systems through adaptive ANN based control using MATLAB simulink <b>(Dr.P.Lakshman Naik)</b>	21BQ5A0206	G.Naga Vyshnav
			20BQ1A0216	B.Likitha
7	A7	Real time power tracing and bi-level optimization for interconnected power system <b>(Dr.ILJ Baktha singh)</b>	20BQ1A0235	D.Sravani
			20BQ1A0244	G.Gayathri Prasanna
			20BQ1A0224	B.Naga Yaswanth
			20BQ1A0250	J.Jadeesh Kumar
8	A8	Frequency stability of highly ranged renewable energy penetrated multi area interconnected power system under 2DOFPID controller <b>(Dr.Ch.N.Sai Kalyan)</b>	20BQ1A0229	Ch.V.S.Phanindra Kumar
			21BQ5A0205	G.Hema Kavya
			21BQ1A0204	D.Suneel
			20BQ1A0248	J Greeshma
9	A9	Design of a bidirectional converter system for G2V (grid to vehicle) and V2G (Vehicle to grid) applications <b>(Mr.P.Mahamood Khan)</b>	20BQ1A0217	B.Kumari Rishitha
			20BQ1A0243	G.Lavanya
			20BQ1A0219	B.Navya
			20BQ1A0238	D.Amulya
10	A10	Enhanced grid frequency management using modified differential evolution algorithm for interconnected power systems <b>(Dr.B.Sreenivasa Raju)</b>	20BQ1A0214	B.Roshita anjali sai
			20BQ1A0201	A.Swarna Rekha
			20BQ1A0204	A.Edukondalu
			20BQ1A0230	Ch.Vishal Rayudu
11	A11	A dual Switch coupled inductor based high boost DC-DC converter <b>(Mr.A.Naveen Reddy)</b>	20BQ1A0215	B.Vamsi Krishna
			20BQ1A0225	Ch.Vamsi Nadh
			20BQ1A0227	Ch.Tirupathi Rao
			20BQ1A0237	D.Mukesh Kumar
12	A12	Power quality improvement in grid connected hybrid energy sources <b>(Mr.A.Rahiman)</b>	20BQ1A0220	B.Sofia
			21BQ5A0201	B.Ramakrishna
			20BQ1A0247	G.Naga Lakshmi
			20BQ1A0208	A.Nithin Kumar
13	A13	Interleaved buck converter having low switching losses and improving step down conversion ratio <b>(Mr.P.Nagarjuna)</b>	20BQ1A0211	A.Lohith Kumar
			20BQ1A0222	B.Sriram
			21BQ5A0208	L.Arun Karthik
			20BQ1A0246	G.Naresh
14	A14	Speed control of BLDC motor using LUO converter <b>(Dr.S.Ravindra)</b>	20BQ1A0203	A.Akhileshwari
			21BQ5A0203	D.Venkatesh
			21BQ5A0209	M.Narasa Babu
			20BQ1A0245	G.Nikson Paul

15	A15	ILC control for autonomous AC-DC hybrid microgrid with unbalanced nonlinear AC loads <b>(Mr.B.Sekhar)</b>	20BQ1A0205	A.Vyshnavi
			20BQ1A0218	B.Sahithi Revathi
			20BQ1A0202	A.R.V.Ravi Charndra
			20BQ1A0240	D.S.Harshith Kesava

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IV B.Tech II-sem (R20) Project Titles (2020 Batch)

S.No.	Batch code	Title of the project & guide	Student Regd No.	Student Name
1	B1	A micro grid based wind driven DFIG, DG and solar PV array for optimal fuel consumption <b>(Mr.M.Srikanth)</b>	20BQ1A0293	N.Lakshmi Prasanna
			20BQ1A0299	N.Sunil
			20BQ1A0296	N.Rafi
			20BQ1A0268	K.Christy
			20BQ1A0253	J. Bharath Kumar
2	B2	Improved operation of Li-Ion battery with super capacitor realized to solar electric vehicle <b>(J.Anand)</b>	20BQ1A0297	N.Madhuri
			20BQ1A0291	M.Vasavi
			20BQ1A0262	K.Sneha
			20BQ1A0266	K.Vijay Krishna
3	B3	Power quality improvements in a zeta converter for brushless DC motor drives <b>(Ms.A.Sai Anusha)</b>	20BQ1A02A0	P.Mounika
			20BQ1A0284	M.Hemanth
			20BQ1A0267	K.Tarun Naga Sai
			20BQ1A02A2	N.Venkateswara Rao
4	B4	An efficient inductive power transfer topology for electric vehicle battery charging <b>(Mrs.I.Revathi)</b>	20BQ1A0298	N.Sai Joshna
			20BQ1A0265	K.Pradeepthi
			21BQ5A0218	T.Chandrika
			20BQ1A0261	K.Bhavani
5	B5	Synergistic integration of renewable wind and solar energy with advanced distribution grid for electric vehicle charging and PMSM motor drive applications <b>(Mrs.K.Kiranmai)</b>	20BQ1A0254	K.Abhinav
			21BQ5A0212	P.Ramya
			20BQ1A0287	M.Snehajani
			20BQ1A0292	N.Jyothsna
6	B6	Detecting and addressing the interruption in electric poles <b>(Mrs.G.Chaitanya)</b>	20BQ1A0252	J Sanjana
			20BQ1A0277	M Vamsi Krishna
			20BQ1A0281	M Harika

			21BQ5A0210	M Dedeepya
7	B7	Analysis of cyber security data integrity attacks in smart grids <b>(Dr.A.V.Naresh Babu)</b>	20BQ1A0289	Md.Kousar Naaz
			21BQ5A0216	Sk.Johny
			20BQ1A0258	K.Y.Phani Durga
			20BQ1A0263	K.Ravi Prakash
8	B8	An Electric vehicle to vehicle power transfer system utilizing wind and solar powered battery systems for use in single phase induction motor drive trains <b>(Dr.S.Ravidra)</b>	20BQ1A0270	K.Bhavini Shankar
			20BQ1A0273	LV Sidda Reddy
			20BQ1A0259	K.Saidulu
			20BQ1A0290	M.Srikumar
9	B9	Cascaded multilevel PV inverter with improved harmonic performance during power imbalances between power cells using MATLAB SIMULINK <b>(Dr.D.Srilatha)</b>	20BQ1A0283	M.Parasuram
			20BQ1A0275	LAV Bhargav Reddy
			20BQ1A0278	M.Sasi deepa
			21BQ5A0217	Sk.Md.Rasool
10	B10	Control for power convert of small scale switched reluctance wind power generator <b>(Dr.Ch.Rambabu)</b>	20BQ1A0271	K.Moksha sai sri
			21BQ5A0211	P.Leela sagar
			21BQ5A0213	Sai Hari Prakash T
			20BQ1A0269	K. Vamsi Krishna
11	B11	Integrating micro grid technology for enhanced control and management of railway systems <b>(Dr.P.Lakshman Naik)</b>	20BQ1A0282	M.Poojitha
			20BQ1A0272	LSSV Vihari Sarma
			20BQ1A0279	M.Sagar
			20BQ1A0286	M.Srinivasa Rao
12	B12	Integration of synchronous generator, solar and battery systems for continuous balanced load supply and precise automatic voltage regulation <b>(Dr.ILJ Baktha Singh)</b>	20BQ1A0256	K.V.Naresh
			20BQ1A0294	N.Vishnu Priya
			20BQ1A0295	N.Chandana
			21BQ5A0215	S.Deepika Bai
13	B13	Energy management strategy of a photovoltaic electric vehicle charging station <b>(Mr.Sk.Rasululla)</b>	20BQ1A0274	LVS Pavan Abhinay
			20BQ1A0257	K.Venkata Aparanji
			20BQ1A0260	K.Hemanth Kumar
			21BQ5A0214	S.Prakash
14	B14	Design of robust controller for the load frequency control of interconnected power system <b>(Dr.Ch.N.Sai Kalyan)</b>	20BQ1A0276	M.Rajeswari
			20BQ1A0255	K.Bhavana
			20BQ1A0280	M.Lakshmi Prasanna
			20BQ1A0264	K.Likhitha

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1	C1	Designing a multi level DC-AC converter by SPWM control ( <b>Dr.B.Srinivasa Raju</b> )	20BQ1A02D1	S.Hyma naga keerthi
			20BQ1A02C9	Sk.Md.Saif uz zama
			20BQ1A02B1	P.V.Pravallika
			20BQ1A02C4	Sk.Akhil
2	C2	Design and performance analysis of three phase solar PV integrated UPQC ( <b>Mr.P.Mahamood Khan</b> )	20BQ1A02E5	U. Prasanna Lakshmi
			20BQ1A02D5	T.Triveni Chandana
			20BQ1A02B3	P.C.S.Teja Sri
			20BQ1A02B0	P.John Wesley
3	C3	Performance comparison of industrial controller and fuzzy logic controller for water level tank control system with applying time delay ( <b>Mr.A.Naveen Reddy</b> )	20BQ1A02A5	P.H.P.Durgambika
			20BQ1A02A3	P.Prasanna Kumari
			20BQ1A02C6	Sk.Ayesha Farhana
			20BQ1A02D8	T.Tharun
4	C4	Cost benefit analysis of Tobacco curing ( <b>Mr.A.Rahiman</b> )	21BQ5A0223	R.Narasimha
			20BQ1A02D3	S.Gopi Raju
			21BQ5A0221	N.Mani kumar
			20BQ1A02D9	T.Mallikarjuna
5	C5	Economical setting free double ended fault locator for transmission lines: Experiences from recent pilot installations ( <b>Mr.P.Nagarjuna</b> )	20BQ1A02B2	P.Varshitha
			20BQ1A02C0	R.Lokeswar
			21BQ5A0222	P.Siva sai gopi
			20BQ1A02D7	T.Yaswanth
6	C6	industrial automation using mobile phone (android) ( <b>Dr.D.Srilatha</b> )	20BQ1A02D4	Sd.Shafruddin
			20BQ1A02B8	R.Kalyani
			20BQ1A02B4	P.Geeta sahiti

			21BQ5A0224	Sk.Azeem
7	C7	Power quality improvement in solar fed cascaded multilevel inverter with output voltage regulation techniques <b>(Mr.B.Sekhar)</b>	20BQ1A02D0	Sk.Naveed Jafar
			20BQ1A02D2	S.Bhavana Priya
			20BQ1A02E1	T.Srinadh
			20BQ1A02C3	S.Praveen Prakash
8	C8	Battery Charge cycle management and accident forestalling of an electric vehicle based on IoT solution <b>(Mr.M.Srikanth)</b>	20BQ1A02E6	V.Kumar Raja
			20BQ1A02B9	R.Renuka
			20BQ1A02E7	V.Sathish
			21BQ5A0226	G.Varun
9	C9	On grid SEPIC based power factor correction for electric vehicles charging <b>(Mr.J.Anand)</b>	20BQ1A02E2	T.Sai Prakash Varma
			21BQ5A0219	T.Siva Krishna
			20BQ1A02C7	Sk.Basha
			20BQ1A02C1	S.Anil Reddy
10	C10	Smart integration of solar and wind microgrid systems with grid infrastructure for enhanced electric vehicle charging and PMSM drive applications <b>(Ms.Sai Anusha)</b>	20BQ1A02A7	P.Kavya Sri
			20BQ1A02E3	T.Gayathri
			20BQ1A02C8	Sk.Galib Saheb
			21BQ5A0220	U.Gopi Manikanta
11	C11	Implementation of dual boost inverter using half cycle modulation <b>(Mrs.I.Revathi)</b>	20BQ1A02A8	P.Yaswanth
			20BQ1A02B5	P.Priyanka
			20BQ1A02E0	T.Asha
			20BQ1A02A6	P.Altaf Khan
12	C12	Performance evaluation of novel 9-level RSMLI topology for grid tied solar PV system <b>(Mrs.K.Kiranmai)</b>	20BQ1A02C5	Sk.Areef
			20BQ1A02D6	T.Venkatesh
			21BQ5A0225	A.Chandra sekhara reddy
			20BQ1A02C2	S.Ramya
13	C13	A model predictive control method for hybrid energy storage system <b>(Mrs.G.Chaitanya)</b>	20BQ1A02B6	R.Anjana Devi
			20BQ1A02E4	U.Veera Vamsi
			21BQ5A0227	A.Chaitanya Krishna
			20BQ1A02E9	Y.Giri Babu
14	C14	Empowering solar energy management through Data Analytics <b>(Dr.A.V.Naresh Babu)</b>	20BQ1A02B7	R.Naveen
			20BQ1A02E8	V.Sirisha
			21BQ5A0228	P.Satish babu
			20BQ1A02A4	P.Raju



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