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List of student projects (ACY: 2022-23)

Sl. No	Regd.No	Name of the Students	Project Guide	ProjectTitle	Supported POs and PSOs	Domain	Project Type (Application, Product, Research, Analysis)	Project Relevance (consideration to factors such as environment, safety, ethics, cost, standards)
1	20KD5A0205	BALIREDDY VINETHA	Mrs. K. Nagamani	Dynamic wireless charging for electric vehicle	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12, PSO1,PSO2	Power Electronics	Product	Promotes eco-friendly transportation, ensures safety, ethical charging, cost-efficiency, and compliance with industry standards.
	19KD1A0211	BHUMIREDDI						
	20KD5A0220	KARADA GOWTHAM						
	19KD1A0234	GARBAPU GOWTHAM						
	19KD1A0223	CHOKKAKU CHARAN						
2	19KD1A0201	ALLU KAVYA	Mr. U. Sri Anjaneyulu	Performance analysis of MPPT controllers in PV systems	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12,PSO1, PSO2	Power Systems	Analysis	Optimizes solar energy, ensures safety, ethical design, cost-efficiency, and adherence to industry standards.
	20KD5A0206	BANDI ASHIK GUPTA						
	19KD1A0209	BHEEMISETTY						
	20KD5A0213	DHANNANA						
3	20KD5A0210	CHANDAKA GIRISH	Mrs. K. Anitha	Prevention of U-Turn accidents on mountain roads	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12,PSO1, PSO2	Control Systems	Application	Enhances road safety, ensures ethical design, environmental protection, cost-effectiveness, and compliance with traffic standards.
	19KD1A0235	GEDALA HEMALATHA						
	19KD1A0218	CHALLA SIREESHA						
	19KD1A0217	BURA NISSY SWARAJ						
4	20KD5A0203	ATHYAM RAJ KUMAR	Dr. P. Janaki	Parameter extraction of solar PV cell using artificial humming bird optimization algorithm	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12,PSO1, PSO2	Power Systems	Research	Optimizes solar energy efficiency, ensures safety, ethical AI use, cost-effectiveness, and adherence to standards.
	19KD1A0228	DATTI BHANU						
	20KD5A0223	KOTAMSETTI VINOD						
	19KD1A0222	CHINTALAPUDI						

5	20KD5A0204	BALIJEPAI SAI ROHIT RAJ	Mrs.K.Aswini	Design and simulation of fuel cell with boost	PO1, PO2, PO3, PO4,PO5,PO6,PO7, PO8,	Power Electronics	Analysis	Promotes eco-friendly transportation, ensures safety, ethical design, cost-efficiency,
	19KD1A0221	CHINTALA RAGHU						

	19KD1A0210	BHOGI V S S RAVI		converter for electrical vehicle in matlab.	PO9,PO10,PO11,PO12,PSO1,PSO2			and compliance with industry standards.
	20KD5A0216	GURAJAPU						
6	19KD1A0239	GUDIVADA	Dr.V.Naresh Kumar	Dynamic operation of parallel inverter based autonomous MG with universal droop control and time delay	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12,PSO1, PSO2	Power Electronics	Research	Enhances microgrid stability, ensures safety, ethical control, cost-efficiency, and compliance with industry standards
	20KD5A0214	GOLLU RAKESH						
	19KD1A0238	GORLE SIRNIVAS						
	20KD5A0219	K MOULI						
7	19KD1A0230	ELLAPU VINODH	Ms.Ch.Harika Shivani	An improved dual UPQC controller for power quality improvement	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Power Systems	Research	Improves power quality, ensures safety, ethical design, cost-efficiency, and adherence to environmental and industry standards.
	19KD1A0236	GEDELA LINSY						
	19KD1A0244	ISSA KARAN KUMAR						
	19KD1A0224	DAKI GEETHA						
8	20KD5A0222	KOMMURU	Mr. T. Papinaidu	Reduction of cost,power loss and voltage stability by using whale optimization algorithm for optimal power flow	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Power Systems	Research	Reduces costs and power loss, enhances voltage stability, ensures ethical optimization, cost-efficiency, and compliance.
	19KD1A0237	GEDELA MANOHAR						
	19KD1A0213	BODA SASITHARUN						
	19KD1A0245	J SIDDHARDHA						
9	19KD1A0214	BOLE VENKATA	Dr. K. Subbaramaiah	Power quality enhancement for a grid connected wind energy system	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Power Systems	Analysis	Improves grid stability, promotes renewable energy, ensures safety, ethical control, cost-effectiveness, and standard compliance.
	19KD1A0229	EAGALA DHANA						
	20KD5A0217	GURANA PAVAN KUMAR						
	20KD5A0211	CHINTHAPALLI						
10	20KD5A0215	GONTI NAVEEN	Mr. K. Ravi Sankar	Automatic circuit breaker using IOT	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Control Systems	Application	Enhances electrical safety, ensures ethical design, cost-efficiency, promotes environmental sustainability, and complies with industry standards.
	19KD1A0232	GANTA RAVI						
	19KD1A0243	GURRALA JHANSI						
	19KD1A0225	DANNANA SAI SASIDHAR NAIDU						
11	19KD1A0202	AMBATI GANESH	Mrs. A.Praveena	Implementation of BLDC motor for a solar water pumping system using matlab	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Electrical Machines	Research	Promotes sustainable energy use, ensures safety, ethical design, cost-efficiency, and adherence to environmental standards.
	20KD5A0202	ATHMAKURI DEEPAK						
	19KD1A0216	BUGATA DURGA						
	19KD1A0242	GUNTREDDI SAI VINEETH						

12	19KD1A0208	BEJAWADA SUDHARANI	Mr. K.Praveen Kumar Yadav	Series compensated long transmission line connected with a shunt fact device by optimal placement	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Power Systems	Research	Enhances power transmission efficiency, ensures safety, ethical design, cost-effectiveness, and compliance with industry standards.
	20KD5A0218	GUTTAPUDI						
	19KD1A0212	BOBBADI AJAY						
	20KD5A0208	BUSI YESWANTH						
13	20KD5A0221	KILAPARTHI MURALI	Dr. K. Subbaramaiah	FFI analysis in single phase inverter with closed loop for different loads	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Power Electronics	Research	Improves inverter performance, ensures safety, ethical design, cost-efficiency, and compliance with electrical standards.
	19KD1A0246	KADAGALA PARDHA						
	20KD5A0224	LENKA NARAYANA						
	19KD1A0215	BONDA PAVAN KUMAR						
14	19KD1A0205	BANDARU HARISH	Dr. M.Mangaraj	Vehicular integration of wireless power transmission systems	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Power Systems	Research	Promotes sustainable transportation, ensures safety, ethical energy use, cost- efficiency, and compliance with industry standards.
	19KD1A0226	DANNENA KAVYA						
	19KD1A0203	ANDHAVARAPU						
	19KD1A0240	GUDIVADA						
15	19KD1A0219	CHANDAKA HARSHA	Mr.B.Ram Vara Prasad	Artificial Intelligence in an autonomous firefighting robot	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Control Systems	Product	Improves firefighting efficiency, ensures safety, ethical AI use, cost-effectiveness, and compliance with safety standards.
	19KD1A0227	DASARI BHUVANA						
	20KD5A0207	BANKAPALLI JYOTHI PRAKASH						
	19KD1A0204	BALIVADA						
16	19KD1A0206	BEELA KUSUMA	Mr.K.Veda Prakash	Energy Management system using PV system integrated with Z-source inverter and double integral sliding mode MPPT controller	PO1, PO2, PO3, PO4, PO5,PO6,PO7, PO8, PO9,PO10, PO11,PO12, PSO1,PSO2	Power Electronics	Research	Optimizes renewable energy use, ensures safety, ethical design, cost-efficiency, and adherence to environmental standards.
	19KD1A0231	GANTA KRISHNA						
	20KD5A0209	BYPU BHARATH TEJA						
	20KD5A0212	DAMARASINGU HEMANTH KUMAR						
17	19KD1A0262	MUTYALA DIVYA	Dr. B. V. S. Acharyulu	Moth flame optimized PIDF controller for load frequency control of hybrid microgrid system with ac/dc link	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Systems	Analysis	Improves microgrid stability, ensures safety, ethical control, cost-efficiency, and adherence to industry standards.
	19KD1A0280	SIGADAPU						
	19KD1A0251	KORADA ROSHINI						
	20KD5A0226	MANDANGI VAMSI						
	19KD1A0255	YESWANTH						
18	19KD1A0276	SANGAMREDDI JAHNAVI	Mrs.T.Sravya		PO1, PO2,PO3, PO4,PO5,PO6,PO7,	Power Electronics	Research	Promotes eco-friendly transportation, ensures safety,

	19KD1A0286	VANJARAPU		Modelling and simulation of DC fast charging station for electric vehicle	PO8, PO9,PO10, PO11, PO12,PSO1,PSO2			ethical design, cost-efficiency, and compliance with industry charging standards.
	19KD1A0260	M.RUKHMAN						
	19KD1A0270	PORIREDDI BHUVAN CHANDRA						
19	19KD1A0283	TALLAPUDI PRIYANKA	Mr. K. Ravi Sankar	Aurdino supporting automatic fire fighting system	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Control Systems	Product	Enhances safety, ensures ethical use, cost-effective design, environmentally conscious, and compliant with safety standards.
	20KD5A0229	MINDI SAIRAM						
	19KD1A0275	SAILADA AKHIL						
	19KD1A0263	NAIDU ADARSH SAI						
20	19KD1A0256	MANDALA BHUVANESWARI	Mr. P. Shyam Kiran	Power quality improvement in grid connected system by solar PV fed multilevel inverter with dynamic voltage restorer	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Systems	Research	Improves power quality, promotes renewable energy, ensures safety, ethical design, cost-efficiency, and standard compliance.
	20KD5A0241	SILLA CHARAN						
	19KD1A0268	DHEERENDRA						
	19KD1A0258	M. RESHMA						
21	20KD5A0242	SURISSETTY HARSHAVARDHAN	Mr. M. Satish	Vehicle to grid and grid to vehicle power transfer using bi-directional charger in electric vehicles	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Electronics	Research	Enhances energy efficiency, promotes sustainable transport, ensures safety, ethical use, cost-effectiveness, and industry compliance.
	19KD1A0279	SEERA RAKESH						
	20KD5A0227	MAROTHI SURYA						
	19KD1A0293	CHANDINIPRIYA						
22	19KD1A0278	SATYAVARAPU HARSHITHA	Dr.V.Naresh Kumar	Energy management of photo voltaic based micro grid system	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Systems	Analysis	Optimizes renewable energy use, ensures safety, ethical design, cost-efficiency, and adherence to environmental standards.
	19KD1A0288	BHAVANA VENNU						
	20KD5A0236	PATHIVADA RAMA						
	19KD1A0292	YEDLA JASWANTH						
23	20KD5A0234	MUNDURU PRIYANKA	Mr.D.Narendra Kumar	Implementation of speed controller for switched reluctance motor drive using fuzzy logic controller	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Electrical Machines	Research	Improves motor efficiency, ensures safety, ethical control, cost-effectiveness, and compliance with industry standards.
	19KD1A0285	VALLE DIVYA						
	19KD1A0269	PINNINTI TARUN						
	19KD1A0290	VIPPARTHI PRABHATH VINAY						
24	19KD1A0264	NALAM PRIYANKA	Mr.K.Dinesh	Fuzzy logic controller design for autonomous under water vehicle	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10,	Control Systems	Research	Enhances vehicle control, ensures safety, ethical design, cost-efficiency, and adherence to
	20KD5A0239	ROUTHU SATYASRI						

	19KD1A0261	M.KAVYA			PO11, PO12,PSO1,PSO2			environmental and industry standards.
	19KD1A0250	KEERTHANA LAXMI						
25	19KD1A0271	PUDI BHAVANA	Mr.J.Vijay Chandra	Analysis of maximum power point tracking techniques in a PV energy system	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Systems	Analysis	Optimizes solar energy efficiency, ensures safety, ethical control, cost-effectiveness, and compliance with industry standards.
	20KD5A0237	PINNINTI PUNYAVATHI						
	20KD5A0240	SABELLA						
	19KD1A0287	VAVILAPALLI						
26	19KD1A0253	KURMADASU SRAVANI	Dr. P. Janaki	Integration of renewable energy sources into modern power system	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Systems	Research	Promotes sustainable energy, improves system efficiency, ensures safety, ethical practices, cost-efficiency, and industry compliance.
	19KD1A0267	PANDRANKI						
	19KD1A0291	YANDRAPU VARA						
	19KD1A0289	VESALAPU HARIKA						
27	19KD1A0272	GANESH PUDI	Mr.A.Anil Kumar	Energy management system for multiple res with hybrid cascaded multilevel inverter	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Electronics	Analysis	Optimizes energy use, promotes sustainability, ensures safety, ethical design, cost-efficiency, and compliance with standards.
	20KD5A0246	YAGATI DIVYA						
	20KD5A0247	YARRA RUKMINI						
	20KD5A0232	MUDILI SIVA PRASAD						
28	19KD1A0277	S.HARSHA VARDHINI	Dr. M.Mangaraj	Design and implementation of a full bridge LLC converter with wireless power transfer for dual mode of output load	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Electronics	Analysis	Enhances energy efficiency, promotes sustainability, ensures safety, ethical design, cost-effectiveness, and compliance with standards.
	20KD5A0230	MOHAMMAD RAQUEEB						
	19KD1A0252	KUPPILI BALA						
	19KD1A0284	VALLABHA						
29	19KD1A0266	PALLA.VISALAKSHI	Mr. T. Karthik	Speed control of permanent magnet synchronous motor using fuzzy logic controller	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Electrical Machines	Analysis	Improves motor efficiency, ensures safety, ethical control, cost-effectiveness, and adherence to industry standards.
	20KD5A0238	REDDY LAKSHAMAN						
	19KD1A0282	TALLAPUDI CHANDU						
	19KD1A0247	SHANMUKH SARMA						
30	20KD5A0245	VELISETTI VAMSI	Dr. B. V. S. Acharyulu	Frequency stability analysis of power system using moth flame optimized PID controller	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Systems	Research	Enhances power system stability, ensures safety, ethical control, cost-efficiency, and compliance with industry standards.
	19KD1A0259	MASARAPU JHANSI						
	20KD5A0243	TARUN KUMAR						
	20KD5A0235	NAGABOINA SUMANTH						

31	19KD1A0273	GUNALATHA PUNNAPUREDDY	Mrs.B.Vanajakshi	Parameter estimation of solar PV cell using Aquila optimization algorithm	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Systems	Research	Optimizes solar energy efficiency, ensures safety, ethical AI use, cost-effectiveness, and adherence to standards
	20KD5A0244	VELAGADA SURESH						
	19KD1A0274	RONGALI ROHITH						
	19KD1A0265	P SAMPATH KIRAN						
32	20KD5A0228	MEKALA JOHN	Mr. P. Shyam Kiran	Simulation and modelling of hybrid electric vehicle	PO1, PO2,PO3, PO4,PO5,PO6,PO7, PO8, PO9,PO10, PO11, PO12,PSO1,PSO2	Power Electronics	Research	Promotes sustainable transport, ensures safety, ethical design, cost-effectiveness, and compliance with environmental and industry standards.
	20KD5A0233	MAKKUVA JAGADEESH						
	19KD1A0248	KARROTHU						
	20KD5A0225	LOCHERLA						