



PVKK INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to JNTUA, Anantapuramu.
(Established under Sri Balaji Educational Society, Anantapuramu)



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Approved by AICTE, New Delhi, Affiliated to JNTUA, Anantapuramu.
Recognized by UGC under Section 2(f),
Accredited by NBA (EEE, ME & CSE), and NAAC with 'A' Grade
(Established under Sri Balaji Educational Society, Anantapuramu)

Research & Development Cell

Annual Report

Academic Year: 2023-24

Name of the Convener	Dr. K. C. Kullayappa	Department	R&D Cell
Designation	Professor, Dept of ECE	Month & Year	2023-24

1. Research Scholars:

S. No	Name of the Faculty Registered as Scholar	Name of the University	Department	Area of Specialization	Date of Admission
1	G. Rajesh	JNTUA, Anantapuramu	CIVIL	Structural Engineering	24/04/2022
2	G.N.S. Varsha	JNTUA, Anantapuramu	CIVIL	Structural Engineering	21/06/2020
3	P. Revathi	MBU, Tirupati.	CIVIL	Fiber Reinforced Concrete	17/06/2023
4	N. V. Vinay Kumar	S. V. University, Tirupati	EEE	Power Electronics	26/10/2020
5	D. Mahesh Kumar	JNTUA, Anantapuramu	EEE	Power Systems	20/04/2015
6	D. Srinivas	JNTUA, Anantapuramu	EEE	Power Systems	20/04/2015
7	M. Hari Priya	JNTUA, Anantapuramu.	MECH	Composites	16/05/2016
8	S. Pranavi	JNTUA, Anantapuramu.	MECH	Machining Properties (EDM)	30/06/2022
9	G Viswanath	JNTUA, Anantapuramu	ECE	Image Processing	07/10/2020
10	Y. Avanija	JNTUA, Anantapuramu	ECE	Power Management in IoT	29/06/2017
11	B. Anurag Reddy	LPU	ECE	Signal Processing	01/07/2021
12	V.	JNTUA,	ECE	Image	24/04/2022



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	Gnanaprasanna	Anantapuramu		Processing	
13	V.Venkateswara Reddy	Gulbarga University, Gulbarga.	ECE	Microwave Engineering	08/11/2012
14	Bantupalli Nagalakshmi	Vellore Institute of Technology, Vellore.	CSE	Deep Learning	08/07/2016
15	D. Anand	AU, Vishakapatnam	H&S	English	06/04/2018
16	G. Manohar	SKU, Anantapuramu.	H&S	Mathematics	26/03/2010

2. Faculty as Research Guide:

S. No	Name of the Faculty	Name of the Scholar	Name of the University	Date of Admission	Area of Specialization	Status of Research
1	Dr. G. Sreenivasan	K. Sudarshan	JNTUA	30/06/2017	Electrical Power Systems	Submitted the thesis
2	Dr. A. Siva Sankar	Mr. A. Anjaneyulu	JNTUA	13/05/2016	Digital Image Water Marking	Research work is in Progress
3	Dr. A. Siva Sankar	Mr.V. Venkanna	JNTUA	18/09/2020	Digital Image Processing	Research work is in Progress
4	Dr. K. Nagaraju	S.Masum Basha	JNTUA	30/06/2017	Performance of analysis of dual inverter based Grid connected PV system	Research work is in Progress
5	Dr. K. Nagaraju	N. Nagalakshmi	JNTUA	16/05/2016	Developed of a bond graph for solar home applications	Communicated the Journal Paper
6	Dr. B. Ramesh Babu	-	JNTUA	-	-	-
7	Dr. K Chinna Kullayappa	-	JNTUA	-	-	-
8	Dr. K. Chenna Keshavulu	-	JNTUA	-	-	-

3. FDPs/ Workshop Organized:

S.	Type of the	Title	Dates	Resource	Participant	No. of
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No	Program			Person Details	Type (Faculty/ Student)	Participants
1						
2						
3						

4. Conferences/FDPs/Workshops attended by the Faculty:

S. No	Type of the Program	Title	Dates	Name of the faculty member
1	FDP	Boot Campus on Drone Technologies	17 th -21 st July 2023	Dr. K. Chinna Kullayappa
2	AICTE-NPTEL FDP	Introduction to Internet of Things	Jan-April 2024	
3	AICTE-NPTEL FDP	Introduction to Embedded System Design	Jan-April 2024	
4	AICTE-NPTEL FDP	Introduction to Internet of Things	Jan-April 2024	Dr. S.V. Sivanagaraju
5	FDP	Two week national FDP on Tools and Technologies in advanced research methodology	1 st to 15 th Sept 2023	
6	FDP	Aiming towards 3Ds in electrical engineering	11 th to 15 th March 2024	
7	FDP	Recent trends in green energy initiatives and soft computing techniques	11 th to 15 th July 2023	
8	AICTE-NPTEL FDP	Introduction to Internet of Things	Jan-April 2024	N. V. Vinay Kumar
9	FDP	Two week national FDP on Tools and Technologies in advanced research methodology	1 st to 15 th Sept 2023	
10	FDP	Aiming towards 3Ds in electrical engineering	11 th to 15 th March 2024	
11	FDP	Recent trends in green energy initiatives and soft computing techniques	11 th to 15 th July 2023	
12	FDP	“Sustainable Power Generation and Advanced Electrical System-New Horizon”	03-07-2024 (30hrs)	Dr. G. Sreenivasan
13	FDP	Research paper writing using tools	10 th May 2024	
14	FDP	Advancing Power Grid Operations : Integrating Renewable Sources and EVS at scale	20 th to 24 th May 2024	
15	Webinar	Bridging the chasm: How Heritage Empowers modern Education	24 th May 2024	
16	FDP	Emerging Trends and challenges in Renewable Energy System	5 th to 9 th Feb 2024	
17	Course	Introduction to MATLAB and	8 th to 13 th	



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		SIMULINK	March 2024	
18	Conference	Enhancing Resource Utilization and Energy Efficiency in server consolidation through Machine learning -Driven Bench Marking of visualization Technologies-2189	22 nd to 23 rd Sept 2023	N Chandrakanth
19	FDP	IOT with Machine Learning	27 th Nov to 2 nd Dec 2023	
20	FDP	Digital Marketing	27 th to 31 st May 2024	
21	FDP	Micropython Primer	22 nd to 26 th April 2024	B Dhanunjaya
22	FDP	Python for Beginners	8 th to 12 th March 2024	
23	FDP	IOT with Machine Learning	27 th to 2 nd Nov 2023	
24	FDP	Inculcating Universal Human Values in Technical Education	11 th to 15 th March 2024	S Subahan
25	FDP	Entrepreneurship	8 th to 10 th July 2024	B Sasikala
26	FDP	AI And Gen AI with Industry/ Application	16 th to 22 nd July 2024	
27	AICTE-NPTEL FDP	Teaching and Learning in Engineering	Jan - Feb- 2024	Dr. A. Chandra Babu
28	Workshop	National Education Policy (NEP) 2020:A Workshop for educators	15 th March 2024	Dr. A. Pavani
29	Workshop	“How to write an ATAL FDP Proposal? “	19 th May 2024	Dr. A. Pavani
30	FDP	VIKASIT BHARATH	29 th Jan to 2 nd Feb 2024	Ms. G. Lakshim Bhavani
31	Workshop	National Education Policy (NEP) 2020:A Workshop for educators	15 th March 2024	Mr. K. Naresh
32	Training Programme	Top Communication Skills and Techniques	6 th to 12 th June 2024	Mr. K. Naresh
33	Workshop	Language and Literature (ICWLL)	12 th to 13 th June 2024	Mr. K. Naresh
34	Workshop	VLSI to System Design : Silicon to End Application Approach	31 st July to 4 th Aug 2023	Mr. V. Venkateswara Reddy
35	FDP	Awareness on Quality Initiatives for higher educational institutions through Research ,Innovation, Start-ups and Entrepreneurship	18 th to 22 nd Nov 2022	
36	FDP	Design & Innovation on Wireless Communication with Advanced Technology	17 th to 22 nd Jan 2024	Y. Babasalauddin
37	FDP	AI Tools and Prompt Engineering	27 th Nov to	



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			2 nd Dec 2023	
38	FDP	IOT with Machine Learning	27 th Nov to 2 nd Dec 2023	Y.Avanija
39	AICTE-NPTEL FDP	Accreditation and Outcome based Education	Aug – Oct 2023	
40	AICTE-NPTEL FDP	Teaching & Learning in Engineering	Jan-Feb 2024	
41	Workshop	Embedded systems on FPGA	1 st June 2024	
42	Conference	Power management mechanism to the adaption of IOT in construction 4.0	10 th to 11 th Nov 2023	
43	FDP	Introduction to Artificial Intelligence	9 th to 14 Oct 2023	V Gnanaprasanna
44	FDP	Design & Innovation on Wireless Communication with Advanced Technology	17 th to 22 nd Jan 2024	
45	FDP	IOT with Machine Learning	27 th Nov to 2 nd Dec 2023	
46	FDP	Artificial Intelligence and Machine Learning In Real World Research and Industry Problems	4 th to 8 th June 2024	
47	FDP	Advances In Signal Processing and Wireless Communications	12 th May 2023	M.Revati
48	FDP	Design & Innovation on Wireless Communication with Advanced Technology	17 th to 22 nd Jan 2024	J. Satyanarayana
49	WORKSHOP	VLSI to System Design: Silicon to End Application Approach	31 st July to 4 th Aug 2023	
50	FDP	IOT with Machine Learning	27 th Nov to 2 nd Dec 2023	
51	FDP	Structural Health Monitoring using IOT	1 st to 2 nd Sept 2023	
52	FDP	Exploring the cutting edge World of Chip Design	4 th to 9 th Dec 2023	
53	FDP	Modern Electronics Engineering for Advanced Wireless Communication	4 th to 8 th Dec 2023	M PRAVEEN RAJU
54	FDP	Exploring the cutting edge World of Chip Design	4 th to 9 th Dec 2023	
55	FDP	Design & Innovation on Wireless Communication with Advanced Technology	17 th to 22 nd Jan 2024	
56	FDP	IOT with Machine Learning	27 th Nov to	



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			2 nd Dec 2023	
57	FDP	Exploring the cutting edge World of Chip Design	4 th to 9 th Dec 2023	S Raghavendra swami
58	FDP	Design & Innovation on Wireless Communication with Advanced Technology	17 th to 22 nd Jan 2024	
59	Webinar	Embedded Systems on FPGA	1 st June 2024	

5. Faculty Publications:

S. No	Name of the Faculty	No. of Research Publications: Journals/Books/Book chapters	Web links
1	Dr. S .V Sivanagaraju	A Textbook On “ Intellectual Property Rights and Research Law ”	https://www.flipkart.com/intellectual-property-rights-research-law/p/itmcd2dc4902b882?pid=9789361327629&lid=LSTBOK9789361327629YXXJBW&marketplace=FLIPKART&cmpid=content_book_8965229628_gmc
2	N. V. Vinay Kumar	02(Scopus)	https://doi.org/10.1109/SPECon61254.2024.10537271 https://doi.org/10.52756/ijerr.2024.v38.011
3	Dr. B. Hari Prasad	04(Scopus)	https://ijeer.forexjournal.co.in/archive/volume-11/ijeer-110410.html https://doi.org/10.1109/ICPEEV58650.2023.10391868 https://ijeer.forexjournal.co.in/archive/volume-11/ijeer-110304.html https://doi.org/10.1007/978-981-99-1624-5_17
4	Dr. G. Sreenivasan	04(Scopus)	https://ijeer.forexjournal.co.in/archive/volume-11/ijeer-110410.html https://doi.org/10.1109/ICPEEV58650.2023.10391868 https://ijeer.forexjournal.co.in/archive/volume-11/ijeer-110304.html https://10.15199/48.2023.07.07



6. Faculty Incentives (for Research Publications & attending Conferences/FDPs/ Workshops/NPTEL):

S. No	Name of the Faculty	Details of the Research Publications & attending Conferences/FDPs/ Workshops/NPTEL	Status of Incentive	Department
1	Dr. K. Chinna Kullayappa	Introduction to IOT	550/-	ECE
2	Dr. K. Chinna Kullayappa	Introduction to Embedded System design	550/-	
3	Dr. K. Chinna Kullayappa	Accreditation and outcome based Learning	550/-	
4	Mrs. V. Gnanaprasanna	Digital Image Processing	500/-	
5	Mrs. V. Gnanaprasanna	Fuzzy Sets, Logic and Systems & Applications	500/-	
6	Mrs. Y. Avanija	Accreditation and outcome based Learning	550/-	
7	Mrs. Y. Avanija	Power Management Mechanism to the adaption of Internet of Things (IOT) in construction 4.0	3000/-	
8	Mrs. Y. Avanija	Teaching and Learning in Engineering	550/-	
9	Dr. M. V. Sreeraj	Accreditation and outcome based Learning	550/-	
10	Dr. P. Deepthi Jordhana	Teaching and Learning in Engineering	550/-	
11	B. Hari Prasad	A Novel Passive Islanding Detection Method for Distributed Generation	6000/-	EEE
12	Dr. B. Hari Prasad	Islanding Detection in Distributed Generation using Active Method	6000/-	
13	Dr. B. Hari Prasad	Islanding Detection in Distributed Generation using a Hybrid Approach	6000/-	
14	Mr. N. V. Vinay Kumar	Meta- Heuristic Algorithm based asymmetry Multilevel Inverter for addressing power quality	6000/-	
15	Mr. N. V. Vinay Kumar	Meta- Heuristic Algorithm based Novel D state Architecture for power quality Improvement.	6000/-	
16	Dr. K. Manohar Reddy	Teaching and Learning in Engineering	550/-	Mechanical Engineering
17	Dr. K. Manohar Reddy	Fundamentals of Automotive Systems	550/-	
18	Dr. G. Ramya	Computation of the Zagred Indices of the medical diagnostics pattern of the 2D- Deep Learning Neural Networking	5000/-	H&S
19	Dr. A. Chandra Babu	Teaching and Learning in Engineering	550/-	
20	Mrs. B. Nagalakshmi	Chatbot Based on Emotions using Deep Learning	3000/-	



21	Mrs. B. Nagalakshmi	Gesture controlled virtual mouse using Media Pipe	3000/-	CSE
22	Mrs. B. Nagalakshmi	Self –Improved Felicon Optimization for task scheduling in Edge computing Neuron based risk prob	6000/-	

7. Faculty Achievements

S. No	Name of the Faculty	Details of the Achievement	Course	Dates
1	Dr. S .V Sivanagaraju	NPTEL Online certification	Introduction to Internet of Things	Jan-Apr 2024
2	Dr. B. Hari Prasad	NPTEL Online certification	Introduction to Internet of Things	Jan-Apr 2024
3	Dr. K. C. Kullayappa	NPTEL Online certification	Introduction to Internet of Things	Jan-Apr 2024
4	Dr. K.C.Kullayappa	NPTEL Online certification	Introduction to Embedded System Design	Jan-April 2024
5	Dr. K. C. Kullayappa	NPTEL Online certification	Accreditation and Outcome based Education	Aug – Oct 2023
6	Dr. A Chandra Babu	NPTEL Online certification	Teaching and Learning in Engineering	Jan -Feb 2024
7	Y.Avanija	NPTEL Online certification	Accreditation and Outcome based Education	Aug -Oct 2023
8	Y.Avanija	NPTEL Online certification	Teaching & Learning in Engineering	Jan-Feb 2024
9	Dr. K. Chenna Keshavulu	Under his supervision, awarded Ph.D degree	JNTUA, Ananthapuramu	23 rd May 2023