

KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506015, TELANGANA, INDIA

काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६०१५, तेलंगाना, भारत

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

DEPARTMENT PROFILE

Vision of Department

To fulfil the needs of the industry and society through excellence in education and research in electrical engineering

Mission of the Department

- To produce globally competent engineers in Electrical and Electronics Engineering
- To promote scientific inclination and cultivate professional ethics.
- To serve organization and society as adaptable engineers, entrepreneurs, or leaders

Programs offered & Accreditation.

- Professional Programs

No.	Programme	Specialization	Year	Intake	Accreditation
1	B. Tech.	Electrical & Electronics Engineering	1994	60	2011,2016,2019 & 2022
2	M.Tech.	Power Electronics	2013	18	2024

b. Additional Programs

- Honours in Electrical & Electronics Engineering (HEE)
- Minor in Electrical Engineering (MEE-1, MEE-2)

Faculty:

Faculty Designation	Professors	3	
	Associate Professors	6	
	Assistant Professors	21	
Faculty highest Degree	Ph.D.	15	
	Pursuing Ph.D.	7	
	M.Tech.	8	

Grants received from AICTE:

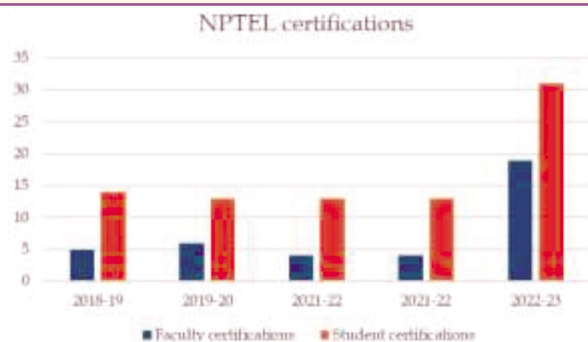
Sl. No.	Academic Year	Name of the Scheme	Funded by Organization	Coordinator/ PI	Sanctioned Amount
1	2019-20	STTP	AICTE	Dr C.Venkatesh	2,28,167/-
2	2019-20	PRERANA	AICTE	Dr G. Rajender Naik	9,40,000/-

Awards received by Faculty:

No.	Name of the Faculty Member	Details of the Award	Academic Year
1	Dr. V Ashok	CIGRE Thesis Award	2021-22
2	Dr. V Ashok	STAIR Thesis Award	2021-22
3	Dr. Y. Manjusree	Woman Researcher award	2020-21
4	Dr. B Pradeep Kumar	Budding Researcher award	2020-21
5	Dr. G Sudheer Kumar	INDIA Top Cited Author Award 2019	2019-20
6	Dr. M. Santhosh	Outstanding reviewer award-2018	2018-19
7	Dr. A. Madhukar Rao	Best Research Scholar of the year 2017 award in engineering and technology	2017-18
8	Dr. D. Rakesh Chandra	POSO Power System award by FITT- IIT Delhi	2016-17
9.	Dr. G. Ravi Kumar	Union Ministry of Energy Department of Power	2016-17

NPTEL COURSE CERTIFICATIONS BY THE FACULTY:

No.	Academic Year	Faculty Certifications	Student Certifications
1.	2018-19	05	14
2	2019-20	06	13
3	2021-22	04	13
4	2021-22	04	13
5	2022-23	19	31

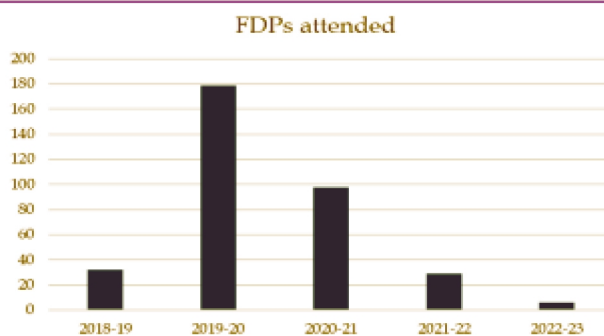


Patents Granted:

S. No	Faculty Name	Title of the Patents Granted.	National/ International	Patent Application Number	Date of Patent Granted
1	Prof. V. Rajagopal	A Hydro Power System	National	Patent No. 360290	March 04,2021
2	Dr. B. Vijay Kumar, Dr. G. Rajendar	Electric Car: Display the Charging Location, Charging Time (Fast-Slow), Charging Rate, Battery Life Detect and Notified	International	Patent number: 2021101068, 21/4/2021	April 21, 2021
3	Dr. B. Jagadish Kumar	Solar Park Monitoring And Fault Detection System Using IoT And Machine Learning	International	Patent No: 2021102330 (Australian patent)	June 09,2021
4	Dr. B. Vijay Kumar, Dr G. Rajendar	Development of IOT Based Accident Detection and Smart Traffic Signal Monitoring	National	-	November 19, 2021
5	Dr G. Rajendar, Dr. B. Jagadish Kumar	Development of IOT Based Flood Alert System	National	202141053947	December 10, 2021
6	Dr. B. Pradeep Kumar	Method for Extracting the I-V Curve of the Photovoltaic (PV) Module	National	201941037604	September 23, 2019.
7	Dr. V. Srikanth	Continuous air quality monitoring system based on IoT	National	202141005573	Febraury 19, 2021
8	Dr. Y. Manjusree, Dr. C. Venkatesh	Power Quality and Intelligent Digital Protection Relays in Microgrid	National	202141028520	July 09, 2021

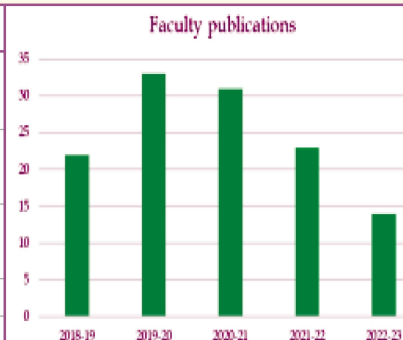
STTPs/FDPs/Workshops/Seminars/Symposia Attended by the Faculty:

AY	Number
2018-19	32
2019-20	179
2020-21	98
2021-22	29
2022-23	6
Total	344



Faculty Research Publications

No.	Publication Type	2018-19	2019-20	2020-21	2021-22	2022-23
1	WoS/SCI/SCIE Indexed Journal Publications	4	2	10	10	02
2	ESCI/Scopus Indexed Journal Publications	8	6	07	09	06
3	UGC Indexed Journal Publications	1	6	07	00	04
4	Conference Publications	9	19	07	04	02
	TOTAL:	22	33	31	23	14

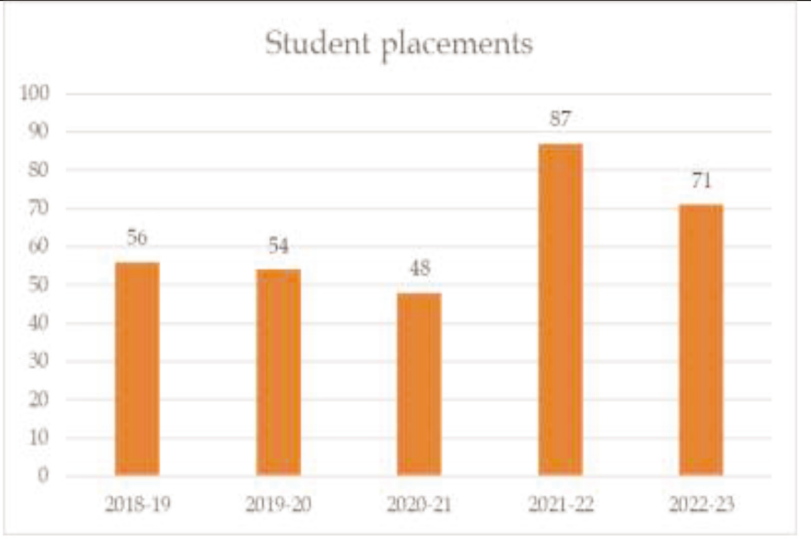


Curriculum Highlights:

- Courses with industry-ready curriculum: Electric Vehicles, Advance Power System Protection, Smart Electric Grid, Microgrids and Distributed Generation, Artificial Intelligence in Electrical Engineering
- State of art Laboratories: Renewable Energy Systems Laboratory, Power Systems Laboratory, Power Electronics Laboratory, Electric Drives Laboratory, Electrical Machines Laboratory
- Flexibility of choosing MOOCs from SWAYAM-NPTEL as alternate to current courses
- Teaching by industry experts (minimum of one course per academic year)
- Hands-on experience with course contents with course projects along with mini-project and major-project

Placement Details in the last three years:

Academic Year	Public Sector Units	IT/ITES	Entrepreneur	Total No. of Students Placed
2018-19	07	47	01	56
2019-20	01	53	00	54
2020-21	00	48	00	48
2021-22	00	87	00	87
2022-23	00	71	00	71
2023-24	09	12	00	21



Academic Year	Total No. of Students Placed
2018-19	56
2019-20	54
2020-21	48
2021-22	87
2022-23	71

Students pursuing higher education (Last three Years):

In India (%)	15 %
Abroad (%)	25 %

Innovative Projects carried out by Students:

The following are some of the physical models developed by our department. These can be found in Power Systems Laboratory or Project Laboratory

- Model of IEEE 33 bus radial distribution system
- Model of Neyveli Thermal Power Station (NTPS)-23 bus test system.
- Smart Electric Iron

Experts & Alumni Visits :



Visit of Prof. D. M. Vinod Kumar, NITW



Visit of Proud Alumni Ch .Rupesh & B. Ranjith, IPS

MoUs / MoAs with Industry / Institute Partners

Name of Industry
Centre of Excellence for Training and Developments TS GENCO, Paloncha, T.S.
National Institute of Technology Warangal (NITW)

List of laboratories :

No.	Name	Area (in sq.m)	Cost (in Rs)
1.	Basic Electrical Engineering Lab	132.2	10,99,598
2.	Networks Lab	66.6	5,03,525
3.	Electrical Measurements Lab	75.2	4,22,735
4.	Electrical Machines Lab (I&II)	201	15,42,750
5.	Control Systems Lab	66.6	7,28,451
6.	Power Electronics Lab	132.2	12, 84, 855
7.	Electric Drives Lab	132.2	11,28,256
8.	Digital Simulation Lab	75.2	38,63,223
9.	Power Systems Lab	75.2	6,62,969
10.	Renewable Energy Systems Lab	121	12,68,779
11.	Power Converters Lab	121	3,14,480
12.	Power Electronics Simulation Lab	66.6	35,23,405
13.	Research Lab	121	12,80,102
14.	Project Lab	44	Under Construction

Prominent Alumni:

Name	Year of Passing	Job Description & Working Location
Raj Jawalker	1998	Senior Director, IQVIA, UK
Jyothsna Palwai	1998	Technical Program Manager, Quantiphi, IN, USA
Vinay Lakkakula	1998	Cloud infrastructure Architect, CISCO, TX, USA
Dr P. Srinivas	1998	Professor, Osmania University, Hyderabad.
Ravikiran Ghattu	2000	Software Integration Engineer, General Motors, MI, USA.
V. Ravi	2000	Senior Consultant, JPMC, United States
S. Krishna Chaitanya	2002	Indian Administrative Service (IAS), Batch: 2013, AIR:143
Suman Thota	2003	Sr. Financial Analyst, Holcim Us Inc, MI, USA
P. Prem Reddy	2003	Senior Manager, NTPC Ramagundam, Telangana
B. Nagabushan Rao	2004	Lead Consultant, Infosys, Michigan, USA
M. Kiran Kumar	2005	Power Network Studies Engineer, Abu Dhabi Transmission & Dispatch Company, UAE
G. Soumya Roopa	2007	R&D Engineer, Broadcom Corporation, California, USA
B. Ranjith Kumar	2008	Indian Police Service (IPS), Batch: 2018, AIR:555
G. Balajose	2008	Senior Engineering Manager, Salesforce, Bangalore
PKNS .Prakash	2008	Inspector, CBI ,Hyderabad
V. Praneeth	2009	Senior Software Engineer, CISCO Systems, California
Ch. Rupesh	2013	Indian Police Service (IPS), Batch: 2018, AIR:527



Dr. G. Rajendar

Associate Professor of EEE & HoD