



UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)

Jawaharlal Nehru Technological University Kakinada

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

DEPARTMENT BROCHURE

Profile • Faculty • Research • Placements • Laboratory Facilities



A Legacy of 80 Years of Excellence

Shaping Engineers, Powering Innovation Since 1946



Power Systems



High Voltage
Engineering



Power Electronics
& Drives



Renewable Energy
& e-Mobility



Embedded Systems
& IoT

I Department Profile

• About the Department, Our Journey & Academic Milestones	3
• Vision, Mission & Academic Reputation	4
• Faculty Profile	4-5
• Department Research Profile & Awards received by Faculty	6
• Consultancy Activities	7
• Patents	8-9
• Campus Placement Highlights	10
• Recruitment Domains, Strengths & Career Development	11
• Industrial Exposure, Training & Internships	12
• Student Success & Achievements	13
• Academic Excellence & Innovation – Infrastructure	14-15
• Distinguished Alumni	16

II Laboratory Facilities

• Laboratories at a Glance	18
• AC Machines Laboratory	19
• DC Machines Laboratory	20
• Power Systems Laboratory	21
• Power Electronics, Power Converters & Electric Drives Laboratory	22
• Renewable Energy Technologies Laboratory	23
• Computer Laboratory	24
• System Studies Laboratory	25
• Design Thinking and Ideation Laboratory	26
• Control Systems & Measurements Laboratory	27
• Analog & Digital Electronics Laboratory	28
• MPMC, Internet of Things (IoT) & Digital Controllers Laboratory	29
• Centre for High Voltage Engineering & Research	30
• Centre for Excellence for Electric Mobility (Thomas Parker Centre)	31



Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada

DEPARTMENT PROFILE

A Legacy of 80 Years of Excellence

Shaping Engineers, Powering Innovation Since 1946

About the Department:

For nearly eight decades, the Department of Electrical and Electronics Engineering (EEE), University College of Engineering, JNTUK, has been a symbol of academic excellence, innovation, and leadership. Established in 1946, the department has consistently produced outstanding engineers, researchers, academicians, and administrators who have made remarkable contributions across India and the world.

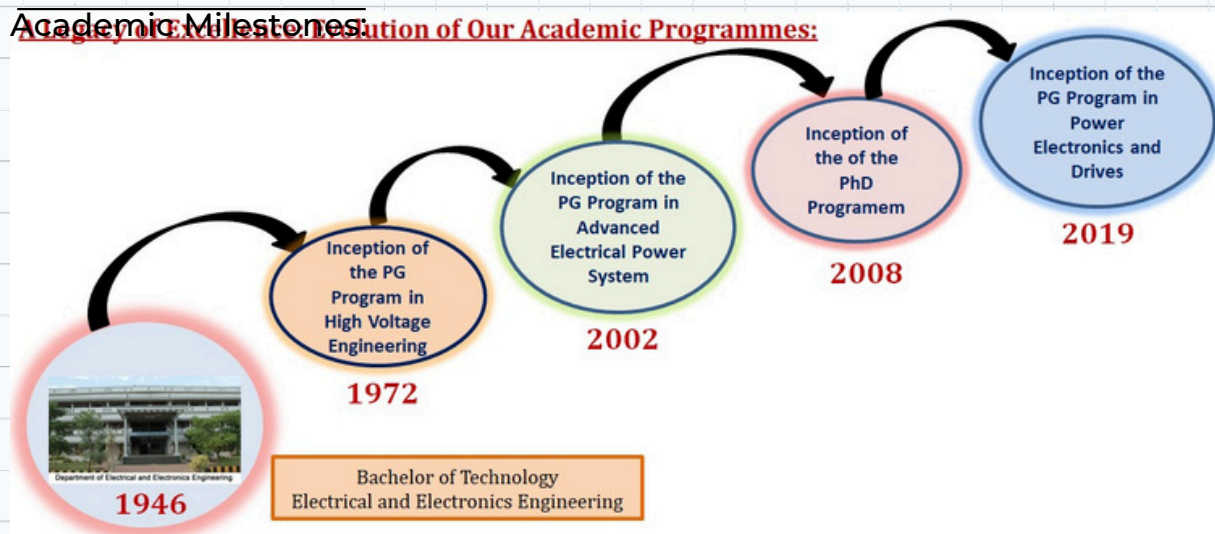
With a strong foundation in quality education, advanced research, and industry collaboration, the department continues to nurture professionals capable of addressing the technological challenges of tomorrow.



Our Journey of Excellence

The Department has grown from a pioneering engineering discipline into a center of excellence in education, research, and innovation.

Academic Milestones:



The Inception of Excellence

- Proposed M.Tech in Sustainable Energy Technologies in collaboration with Greenko Ltd., and IIT Hyderabad from A.Y 2026-27.



Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada

Vision of the Department

To be in the forefront in education for meeting the needs of academic, research and industry in the areas of Electrical & Electronics Engineering, and make the department a centre of academic excellence.

Mission of the Department

1. To provide the requisite theoretical and practical knowledge by offering appropriate courses.
2. To promote research oriented innovation culture among the students.
3. To create social awareness and ethical values in the graduates for betterment of the society.
4. To help the students in building professional capabilities in Electrical & Electronics Engineering.

Academic Reputation

- The B.Tech Programme in Electrical and Electronics Engineering is accredited by the National Board of Accreditation (NBA).
- The M.Tech. Programmes in High Voltage Engineering (HVE), Advanced Electrical Power System (AEPS), and Power Electronics and Drives (PED) have successfully undergone NBA accreditation earlier, and the re-accreditation process has been initiated.

Faculty Profile

	Areas of Specializations Power and Industrial Drives		Areas of Specializations Energy Systems, Machines and Drives		Areas of Specializations Electrical Machines & Industrial Drives
Dr. K. Venkata Reddy Professor & Head of the Department		Dr. M. Ramalinga Raju Senior Professor		Dr. Ch. Sai Babu Senior Professor	
	Areas of Specializations Power Systems		Areas of Specializations Power Systems		Areas of Specializations Power Systems, Renewable Energy Systems and Insulators
Dr. S. Siva Naga Raju Senior Professor		Dr. R. Srinivasa Rao Senior Professor		Dr. T. Murali Mohan Professor	



Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada

	Areas of Specializations Power Electronics & Drives, Renewable Energy Systems		Areas of Specializations Control Systems & Power Systems		Areas of Specializations Power Systems with Emphasis on High Voltage Engineering
Dr. K. Ravindra Professor		Dr. M. Nageswara Rao Professor		Dr. N. Sumathi Professor	
	Areas of Specializations Power Electronics & Drives		Areas of Specializations Power Systems & Automation		
Sri. B. Naresh Associate Professor		Dr. M. Ravindra Babu Assistant Professor (On Deputation to UCEN)			
	Areas of Specializations Power Systems with Emphasis on High Voltage Engineering & Renewable Energy Systems		Areas of Specializations Power Systems with Emphasis on High Voltage Engineering		Areas of Specializations Instrumentation and Control Systems
Dr. B. Ajay Babu Assistant Professor (C)		Smt.K.Vijaya Bhanu Assistant Professor (C)		Ms.K.Joshi Rani Assistant Professor (C)	
	Areas of Specializations Power Systems with Emphasis on High Voltage Engineering		Areas of Specializations Advanced Power Systems		Areas of Specializations Power Systems (High Voltage Engineering)
Sri. L. Venkata Narayana Assistant Professor (C)		Smt. J. Jyothsna Assistant Professor (C)		Dr. V.S. Nagaraju Assistant Professor (C)	
	Areas of Specializations High Voltage Engineering		Areas of Specializations Electrical Machines & Drives		Areas of Specializations High Voltage Engineering
Sri. N. Sagar Teja Yadav Assistant Professor (C)		Dr. C. Naga kota Reddy Assistant Professor (C)		Sri.V.S.N.K.Chaitanya Assistant Professor (C)	
			Areas of Specializations Power Systems and Automation		
		Sri R.S. Sudhakar Guest Faculty			



Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada

Department Research Profile



Department of EEE, JNTUK

Jawaharlal Nehru Technological University Kakinada

Verified email at jntucek.ac.in

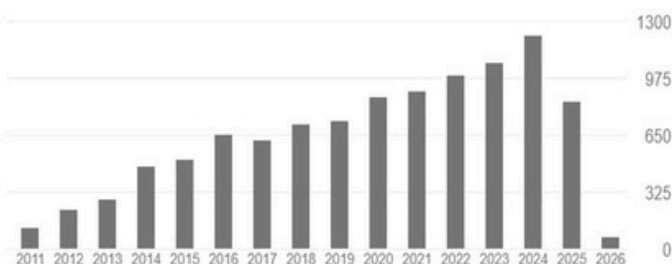
Renewable energy technol... Smart grids Power Quality Modern Drives Electric Vehicles



Cited by

[VIEW ALL](#)

	All	Since 2021
Citations	10524	5079
h-index	46	32
i10-index	191	109



List of Awards received by Faculty

S.No.	Name of the Faculty	Name of the Award	Received Year	Award Given By
1.	Dr.R.Srinivasa Rao	Andhra Pradesh State Best Teacher Award	2023	Government of Andhra Pradesh
2.	Dr.R.Srinivasa Rao	National Technical Teacher's Award (NTTA)	2022	AICTE, New Delhi
3.	Dr. K. Ravindra	Best Teacher Award	2021	Principal, UCEK (A), JNTU Kakinada
4.	Dr. K. Ravindra	Best Teacher Award	2020	Principal, UCEK (A), JNTU Kakinada
5.	Dr. S. Sivanagaraju	Andhra Pradesh Scientist Award	2020	APCOST, Govt. of Andhra Pradesh,
6.	Dr. K. Venkata Reddy	Young Researcher Award	2020	General Chair, CHSN-2020
7.	Dr. K. Ravindra	Best Teacher Award	2019	Principal, UCEK (A), JNTU Kakinada
8.	Dr. K. Venkata Reddy	Best Researcher Award	2018	Registrar, JNTU Kakinada



Department of Electrical and Electronics Engineering
University College of Engineering Kakinada (A)
Jawaharlal Nehru Technological University Kakinada

Consultancy activities A.Y 2025-26

S.No	Academic Year	Project Title	Funding Agency	Amount	Duration
1.	2025-26	Testing of 33kV pin insulators, strain insulators, 11kV pin and strain Insulators	APEPDCL, Srikakulam	Rs. 35,400	In pipeline
2.	2025-26	Testing of Heavy duty 2 rail hook ladder, Light duty 2 rail hook ladder, Cradle poles, Roller link stick, Sectional hot sticks, Strain carrier poles, Telescopic hot sticks etc.,	M/s. Sriva Live line Services, Hyderabad	Rs. 2,09,686	17-04-2026 & 18-04-2026
3.	2025-26	Design Verification, Analysis, Review, Vetting and Certification of The Integrated Civil Works of Large Cavitation Tunnel (LCT) Facility	NSTL, Visakhapatnam	Rs. 49,56,000 (by EEE and Civil Engg. Departments)	2026 –2029 In progress
4.	2025-26	Testing of Strain Carrier Pole, Universal Stick, Cradle Pole, Wire Tong etc.,	APTRANSCO, Visakhapatnam	Rs. 2,10,040	04-03-2026 to 05-03-2026
5.	2025-26	Testing of Heavy duty 2 rail ladder, scaffold ladder modules, Strain carrier poles, cradle poles etc.,	APTRANSCO, Vemagiri	Rs. 2,55,824	19-02-2026 to 21-02-2026
6.	2025-26	Testing of two rail ladder, flexible wrench, universal stick, swivel sticks, scaffolding modules etc.,	APGENCO, Vijayawada	Rs. 1,16,112	03-02-2026 to 05-02-2026
7.	2025-26	Testing of hot sticks, Two lug ladders, strain poles, wire tongue etc.,	M/s. Vajranarayana Power Services Pvt Ltd, Vijayawada	Rs. 1,83,254	25-09-2025 & 10-10-2025



Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada



List of Patents-Granted

S.No	Name of the Faculty	Title	Application Number	Date of Filing	Current Status
1.	Dr. Venkata Reddy Kota	Standalone Photovoltaic Inverter with Reduced Harmonic Distortion	202041016825	20.04.2020	Granted Application, Patent Number : 538103
2.	Dr. Ch. Sai Babu	A Low Cost Net Zero Energy Building Management System By Controlling Load Factor	202141008406	15.03.2021	Granted Application, Patent Number : 538230
3.	Dr S.Siva Naga Raju	System and Method for Multi Fuel Emission in Power Plant Operation	6324/CHE/2015	24.11.2015	Granted Application, Patent number : 368830
4.	Dr S.Siva Naga Raju	Hybrid auto Rickshaw	5783/CHE/2014	17.11.2014	Granted Application, Patent number : 460944
5.	Dr S.Siva Naga Raju	Integrating Cascaded Converters to Improve the Dynamic Response	201941033549	20.08.2019	Granted Application, Patent Number : 478459
6.	Dr. R. Srinivasa Rao	Methods For Assessing The Effect of Electromagnetic Radiation On Mammals By Using Blood Parameter Values	201741039086	02.11.2017	Granted Application, Patent Number : 489008
7.	Dr. K.Ravindra	Estimating Method for Optimal Placement of Distributed Generation Unit	202141050440	03.11.2021	Granted Application, Patent Number : 530571



Department of Electrical and Electronics Engineering
University College of Engineering Kakinada (A)
Jawaharlal Nehru Technological University Kakinada

8.	Dr. Venkata Reddy Kota	Antitheft Device for Automobiles	350503-001	02.10.2021	Design Accepted and Published, Journal No is 01/2023 and Journal Date is 06/01/2023
9.	Kota Venkata Reddy, B.Ajay Babu , Manchimsetti Soma Sundari, Sattaru Sathish Kumar, Kasilanka Iswarya Sai	A Regenerative Spin Bike	478499-001	30.10.2025	Design Accepted and Published Journal No is 23/2026 and Journal Date is 05/06/2026
10.	Kota Venkata Reddy, Tullimilli Raghav Sai Karthik	Integrated Throttle And Brake Steering Wheel For Electric Cars	478500-001	30.10.2025	Design Accepted and Published, Journal No is 08/2026 and Journal Date is 20/02/2026
11.	Dr. Ajay Babu Bathula, Mrs. Jyothsna Jakkula, Mrs. Vijaya Bhanu Karri, Ms. Joshi Rani Kothapalli, Mr. Venkata Narayana Lakamana,	Electrotherapy Device with AI-Enhanced Treatment Algorithms for Rehabilitation	6368371	25.05.2024	Design Accepted
12.	Mr Shanmukha Naga Raju Vonteddu, Dr Ravi Kollu, Dr Prasanthi Kumari Nunna	Electric Scooter	404015-001	08.01.2024	Design Accepted and Published, Journal No is 11/2024 and Journal Date is 15/03/2024
13.	Dr. Ajay Babu Bathula, Mrs. Vijaya Bhanu Karri, Mrs. Jyothsna Jakkula, Ms. Joshi Rani Kothapalli, and Mr. S Sudhakar Rasamsetti Dr. Chegireddy	Microgrid Controller Unit with AI-Powered Load Balancing	6445533	19.05.2025	Design Accepted on 27.05.2025
14.	Naga Kota Reddy and Mr. Nammi Sagar Teja Yadav	Sleek Solar-Powered Street Light Design with Built-in Sensors	6447008	25.05.2025	Design Accepted on 13.06.2025
15.	Mr.Venkata Narayana Lakamana	Energy-Efficient LED Bulb Design with Adjustable Luminosity	6456074	07.07.2025	Design Accepted on 10.07.2025



Department of Electrical and Electronics Engineering
University College of Engineering Kakinada (A)
Jawaharlal Nehru Technological University Kakinada

Campus Placement Highlights



Academic Year	Students Placed	Offers	Highest Package	Median Package
2022-23	41	72	₹9 LPA	₹5 LPA
2023-24	40	48	₹7 LPA	₹5.25 LPA
2024-25	25	34	₹9 LPA	₹5.25 LPA
2025-26	22	26	₹8.5 LPA	₹5.43 LPA



Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada

RECRUITMENT DOMAINS



CORE SECTORS

- Power Systems & Equipment
- Manufacturing & Automation
- Energy & Utilities
- Steel & Heavy Engineering
- Automotive
- Industrial Solutions
- Infrastructure



IT & TECHNOLOGY

- Software Development
- Digital Engineering
- Embedded Systems
- Artificial Intelligence
- Cloud & Data Solutions
- Consulting Services

OUR STRENGTHS



Industry
Oriented
Curriculum



Strong Core
Engineering
Placements



Dedicated
Placement
Training



Internships
& Industry
Exposure



Soft Skills &
Aptitude
Development



Mock Interviews
& Personality
Development

CAREER DEVELOPMENT INITIATIVES



Industry
Interaction
Sessions



Expert Talks
by Industry
Professionals



Technical &
Coding Skill
Development



Internship
Facilitation



Placement
Training &
Aptitude



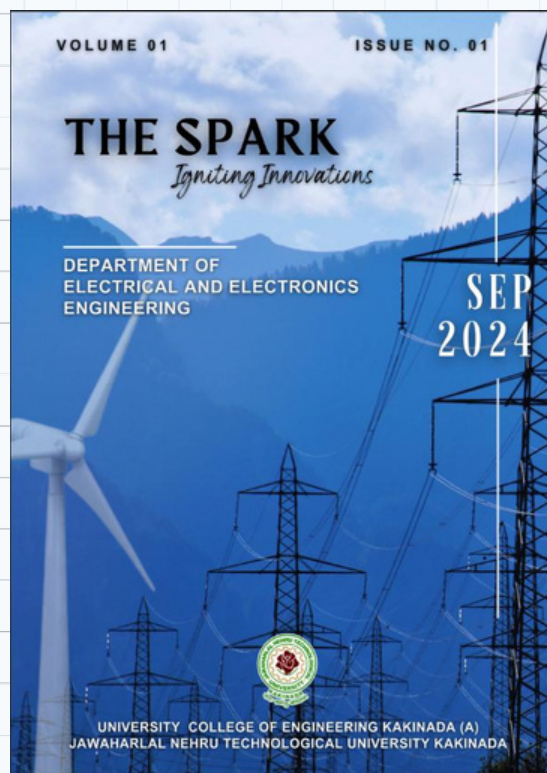
Mock Interviews
& Group
Discussions



Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada

Students receive extensive exposure through:

- Outcome based education.
- Mandatory Industrial internships of eight months.
- Community service project of two months.
- Industry visits
- Student Activity Centre
- The SPARK-Departmental monthly newsletter
- IEI Student Chapter
- Expert lectures
- Faculty Development Programmes.
- Workshops on AI, EVs, Smart Grids, Renewable Energy, MATLAB, ETAP, IoT and Emerging Technologies.



Industrial Training & Industrial Internships:

The Department of Electrical and Electronics Engineering (EEE) provides extensive industrial exposure through internships in leading organizations including Schneider Electric, DRDL, NRSC-ISRO, ECIL, South Central Railway, Tata Steel, Finch Solar, RANE Madras, Adani Cement, Indpower, Critzo Tech, Megaviz Technologies, Krify Software, Trontech Labs, Endava Solutions, AIM Technologies, VOZIQ India, Deccan Automotive and other reputed industries. These internships strengthen students' practical knowledge, technical competence, problem-solving ability, teamwork and employability.





Department of Electrical and Electronics Engineering
University College of Engineering Kakinada (A)
Jawaharlal Nehru Technological University Kakinada

Student Success & Achievements

B.Tech Toppers List:

	<u>2021 - 2025 Batch:</u> PAILA LAVANYA Hall Ticket No.: 22025A0255 CGPA: 8.384		<u>2021 - 2025 Batch:</u> KONDETI KUSUMA Hall Ticket No.: 21021A0240 CGPA: 8.194
	<u>2020 - 2024 Batch:</u> MADHUNAPANTULA ASWINI MURTY Hall Ticket No.: 20021A0251 CGPA: 8.881 (83.71%)		<u>2020 - 2024 Batch:</u> CHEBOLU DURGA SRAVANTI Hall Ticket No.: 20021A0215 CGPA: 8.881 (83.56%)
	<u>2019 - 2023 Batch:</u> ALLA JAYA SUREKHA Hall Ticket No.: 19021A0253 CGPA: 8.95		<u>2019 - 2023 Batch:</u> ROUTHU PAVANI Hall Ticket No.: 19021A0233 CGPA: 8.40
	<u>2018 - 2022 Batch:</u> ANALA LAKSHMI MOUNICA Hall Ticket No.: 18021A0207 CGPA: 8.84 (82.69%)		<u>2018 - 2022 Batch:</u> BURLA SILPA Hall Ticket No.: 19025A0239 CGPA: 8.84 (81.82%)
	<u>2017 - 2021 Batch:</u> ADNALA RUCHITA Hall Ticket No.: 17021A0208 CGPA: 8.66		<u>2017 - 2021 Batch:</u> BELLALA DIVYA Hall Ticket No.: 17021A0209 CGPA: 8.52
	<u>2016 - 2020 Batch:</u> GURAJAPU RENUKA Hall Ticket No.: 16021A0210 CGPA: 8.65		<u>2016 - 2020 Batch:</u> MADDIRALA BHARGAV RAMESH Hall Ticket No.: 17025A0245 CGPA: 8.42

Best GATE Ranks (below 500)

S. No	Roll Number	Name of the student	Rank
1.	20021A0213	DIVAKAR BANTU	34
2.	20021A0214	REDDI CHAITANYA	105
3.	18021A0218	BALAGA SAI CHAITANYA	326
4.	17021A0235	AMBATI MAHESWARA REDDY	108
5.	15021A0213	KOLIPAKA PAVAN KUMAR	156



Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada

Academic Excellence & Innovation

The department offers a dynamic learning ecosystem supported by experienced faculty, modern classrooms, and advanced laboratories.

Infrastructure Highlights:

- 11 Modern Laboratories.
- Centre for high voltage engineering and research.
- Centre of excellence for electric mobility.
- Design thinking and ideation laboratory.
- 120 seated modern seminar hall.
- 08 air conditioned class rooms with digital boards.
- 100+ high speed computers.

Computer Laboratory

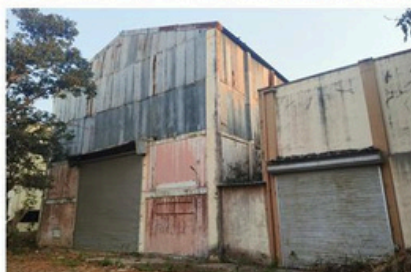
No. of Computers: 30+30+20



High Voltage Laboratory



Electrical Engineering Workshop



MPMC Laboratory



Electrical Measurements and Control Systems Laboratory



IoT Laboratory



DC Machines Laboratory



AC Machines Laboratory





Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada

Power Systems Laboratory



Power Electronics Laboratory



Electronics Laboratory

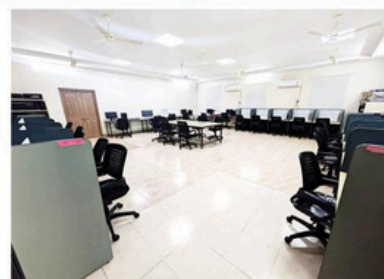


**Power Converters and
Electric Drives Laboratory**



New Laboratory

Design Thinking and Ideation Lab



Department Library:

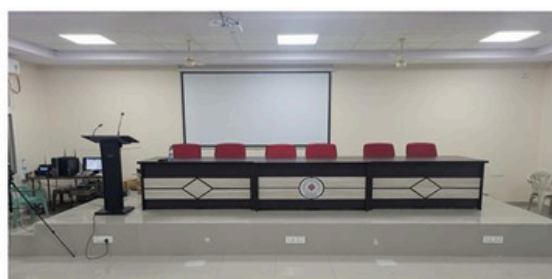


S.No	Name of Resource	Count (In No's)
1	Racks	15
2	Seating Capacity	20
3	Books	679
4	M.Tech Thesis	More than 1000
5	Ph. D Thesis	193

E-Class Room-PG



New Seminar Hall





Department of Electrical and Electronics Engineering University College of Engineering Kakinada (A) Jawaharlal Nehru Technological University Kakinada

Distinguished Alumni-Our Greatest Strength

DISTINGUISHED ALUMNI PROFILES



DR. BOTTA VENKAT RAMANA
BATCH: 1972
CHAIRMAN – GOKUL GROUP OF INSTITUTIONS
MAIL: MDGOKULCOLLEGE@GMAIL.COM



DASARADHA R. GUDE
BATCH: 1982
MAKUTA CO-FOUNDER & CHAIRMAN
AND CEO OF INVECAS, AND CHAIRMAN
OF VEDA IIT PVT. LTD.
MAIL: GDGUDE@GMAIL.COM



MAJ GEN A VISWESWARA RAO
BATCH: 1956
MAJOR GENERAL INDIAN ARMY
MAIL: AVRA01936@GMAIL.COM



CDR. N. SOMA SEKHAR RAO
(RETD.)
BATCH: 1963
INDIAN AIR FORCE (IAF)
MAIL: SOMSEKHARRAO@GMAIL.COM



DR B NARASIMHA
BATCH: 1978
VISITING PROFESSOR, BITS PILANI,
HYDERABAD CAMPUS
MAIL: NARSI.BOLLOJU@GMAIL.COM



SRI DINDIGAL RAMESH
BATCH: 1965
CHIEF ENGINEER, AP TRANSCO
MAIL: RAMESHDINDIGAL@GMAIL.COM



COL. DESIREJU HANUMANTHA RAO
(RETD.)
BATCH: 1966
RETD ARMY OFFICER
MAIL: DHRAD009@YAHOO.COM



CDR SEETHARAM MUTHANGI
BATCH: 1973
EX-NAVY OFFICER, CEO AND CO-
FOUNDER OF SMART HEALTH GLOBAL
(SHG) TECHNOLOGIES.
MAIL: RAMUMUTHANGI@GMAIL.COM



SRI KVV SATYANARAYANA
BATCH: 1982
POWER FINANCE CORPORATION LTD.
TELANGANA
MAIL: KVVSM@YAHOO.COM



PROF. DR. DORADLA SESHAGIRI RAO
BATCH: 1963
RETIRED PROF, INDIAN INSTITUTE OF
TECHNOLOGY KANPUR
MAIL: DORADLA@IITK.AC.IN



SRI JONNALAGADDA SATYA MALLAPA RAJU
BATCH: 1970
SPECIALISED IN O&M OPERATION
, QUALITY ASSURANCE.
MAIL: JSMRAJU@YAHOO.COM



SRI C. YEDUKONDALU
BATCH: 2000
ADE AT TSTRANSCO
MAIL: AVRA01936@GMAIL.COM



SRI CHOLLANGI SRIDHAR
BATCH: 2000
ASST. EXECUTIVE ENGINEER
MAIL: CHOLLANGISRIDHAR77@GMAIL.COM



D SUBBARAY SARMA
BATCH: 1970
JOINED AS JUNIOR ENGINEER IN
APSEB HYD AND ENJOYED
PROMOTIONS ADE, DESE AND CGM.
MAIL: SSDENDULURI@YAHOO.COM



PROF. V. V. N. MURTHY
BATCH: 1977
RETD. PROF UCEK JNTUK
MAIL: VVNMURTHY1@GMAIL.COM



SRI AGK RAO
BATCH: 1954
RETIRED DIRECTOR OF AP GENCO
MAIL: AGKRA033@GMAIL.COM



SRI AYYAGARI MADHU
BATCH: 1975
BHARAT HEAVY ELECTRICALS LIMITED.
MAIL: MADHU09021955@GMAIL.COM



SRI JVR VITHAL
BATCH: 1972
ASSOCIATE PROFESSOR, MJCET
MAIL: JVRVITHAL@GMAIL.COM