



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp: Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

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కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - ౫౦౬ ౦౦౫, 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)

KITSW
Est. 1990

Estd: 1980

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DEPARTMENT OF ELECTRONICS COMMUNICATION & INSTRUMENTATION ENGINEERING
DEPARTMENT PROFILE

Programmes Offered

- B.Tech. - Electronics Communication & Instrumentation Engineering (ECI)
- B.Tech. - ECE (VLSI Design & Technology)
- M.Tech. - Embedded System & VLSI (EV)
- Ph.D - Electronics & Instrumentation Engineering (EIE)

Milestones

2025-26 B.Tech. ECE (VLSI Design & Technology) Programme approved by AICTE, NEW Delhi for admissions w.e.f. 2026-27

2024-25 B.Tech.(ECI) Programme accredited under Tier-I for three years w.e.f. A.Y. 2024-25

2021-22 B.Tech.(EIE) Programme re-accredited under Tier-I for three years w.e.f. A.Y. 2021-22

E&I Engg. Research centre renewed by Kakatiya University, Warangal for three years w.e.f. A.Y. 2021-22 2020-21

Started M.Tech. - Embedded System & VLSI (EV) Programme

Introduced Honors in Electronics Communication & Instrumentation Engineering (HECI) programme Introduced Minor in Electronics Communication & Instrumentation Engineering (MECI) programme UGC renewed Autonomous status for KITSW under Kakatiya University for six years w.e.f. A.Y. 2020-21

2019-20 Started B.Tech.- Electronics Communication & Instrumentation Engineering (ECI) Programme Introduced Course web portal for effective implementation of outcome based education (OBE) Introduced Innovation, Incubation, Research & Entrepreneurship (I2RE) as part of course teaching Introduced Honors and Minor in B. Tech E&I Engineering program (HEIE & MEIE)

2018-19 Received Rs. 15,00,000/- under MODROBS of AICTE for Modernization & Automation of Process Control Laboratory Received Rs. 3,00,000/- from AICTE to conduct online STTP on "VLSI Design: Bridging Concepts to Practice" B.Tech.(EIE) Programme re-accredited under Tier-II for three years w.e.f. A.Y. 2018-19
E&I Engg. Research centre renewed by Kakatiya University, Warangal for three years w.e.f. A.Y. 2017-18

2017-18 Mr. Vydhik, Class of EIE-2016 secured AIR 72 in GATE 2018 and selected as GET in PSU-ONGC

2016-17 B.Tech.(EIE) Programme re-accredited under Tier-II for two years w.e.f. A.Y. 2016-17

2014-15 B.Tech.(EIE) Programme re-accredited under Tier-II for three years w.e.f. A.Y. 2014-15

UGC granted Autonomous status for KITSW under Kakatiya University for six years w.e.f. A.Y. 2014-15

2012-13 Received grant of Rs. 9,90,000/- from AICTE under Research Promotion Scheme (RPS) Project 2011-12

B.Tech.(EIE) Programme re-accredited under Tier-II for three years w.e.f. A.Y. 2011-12

Received individual UGC grant of Rs 1,00,000/- under UGC-International Travel Grant (ITG) scheme by both the faculty Sri K. Venu Madhav & Sri M. Raghu Ram to attend IEEE-I2MTC conference at Graz, Austria

2010-11 Received Rs. 8,00,000/- under MODROBS of AICTE for Modernization of Measurements & Instrumentation Laboratory

2009-10 Department recognized as Research Centre by Kakatiya University (KU), Warangal

2008-09 B.Tech.(EIE) Programme re-accredited for three years w.e.f. A.Y. 2008-09

2001-02 B.Tech.(ECI) Programme accredited for First time by National Board of Accreditation (NBA), New Delhi w.e.f. A.Y. 2002-03

2000-01 The Department of ECE was bifurcated from Department of EIE

Department started with B.Tech. programme in ECE with an intake of 60

1981-82 Department started with B.Tech. programme in Electronics & Instrumentation Engineering with an intake



Prominent Guests Visited

1. **Prof. V. Ram Gopal Rao**, *Group VC, BITS Pilani Campuses & Former Director - IIT Delhi*, visited on 11.07.2018.
2. **Dr. Y. Jagan Mohan Reddy**, *Principal Engineer, AIRCO, New York*, visited on 16.09.2020.
3. **Mr. G. Suresh Reddy**, *Managing Director, Jaladhi Automations Pvt. Ltd., Hyderabad* visited on 16.09.2020.

Faculty Achievements in 5 years

Student Achievements in 5 years

Faculty Achievements in 5 years					Student Achievements in 5 years				
Year	SCI Journals	SCOPUS Journals	WOS Journals		Year	Conference Proceedings	SCOPUS Journals		
2025-26	02	03	-		2025-26	01	-		
2024-25	03	05			2024-25	-	-		
2023-24	01	-	-		2023-24	01	-		
2022-23	06	04	01		2022-23	01	-		
2021-22	03	-	-		2021-22	09	-		
2020-21	-	01	-		2020-21	-	-		

Alumni Interactions

1. **Prof. V. Ram Gopal Rao** (*Class of 1981-EIE*), Director, IIT Delhi, Proud Alumnus of the Department, visited the Department and motivated faculty towards Research & Consultancy on 11.07. 2018.
2. **Sri Shyam Mallela** (*Class of 1989-EIE*) delivered a lecture on "The role of Instrumentation in industries" as a part of Induction program at KITSW on 21.07.20218.
3. **Dr. Y. Jagan Mohan Reddy** (*Class of 1997-EIE*), Principal Engineer, Air Company, USA handled IoT theory course for B.Tech (ECI) students during A.Y. 2022-23.
4. **Mr. G. Suresh Reddy** (*Class of 1997-EIE*) Managing Director, Jaladhi Automations Pvt. Ltd., Verizon motivated students towards Industry Internships on 16.09.2020.

Accreditation

Programme	Accreditation Status	Period of Accreditation	NBA Letter
B.Tech. - Electronics Communication and Instrumentation Engineering	Accreditation	3 Years	F. No. 11-76/2010/NBA. Dt.15 th Apr. 2025
B.Tech. - Electronics & Instrumentation Engineering	Re-accreditation - 7	3 Years	F. No. 11-76/2010/NBA. Dt.17 th Feb. 2022
	Re-accreditation - 6	1 Years	F. No. 11-76/2010/NBA. Dt. 21 st Aug. 2020
	Re-accreditation - 5	3 Years	F. No. 11-76/2010/NBA. Dt.29 th Mar. 2018
	Re-accreditation - 4	2 Years	F. No. 11-76/2010/NBA. Dt. 08 th July. 2016
	Re-accreditation - 3	2 Years	F. No. 11-76/2010/NBA. Dt. 09 th Oct. 2014
	Re-accreditation - 2	3 Years	F. No. NBA/11-76/2010/NBA, Dt. 22 nd Sept., 2011
	Re-accreditation - 1	3 Years	F. No. NBA/ACCR-15/2001, Dt. July 19,2008
	Accreditation	3 Years	F. No. NBA/ACCR-190/2003, Dt. 20/ 05/ 2003

Placements & Higher Education

Year	Placements	Higher Education
2025-26	12 till date	NA
2024-25	19	03
2023-24	13	04
2022-23	12	03
2021-22	39	06
2020-21	19	15

Best Practices

- ☐ Strong student mentoring system
- ☐ Students are encouraged to take up Mini & Major projects related to social concern
- ☐ Lecture material, Lecture PPTs, Lecture videos, Tutorial sheets and assignment sheets are posted on KITSW course web portal
- ☐ Student internships are encouraged
- ☐ Students are trained in core areas to support placement drives
- ☐ Faculty & Students are encouraged to complete NPTEL Certifications on Industry 4.0 technologies
- ☐ Industrial visits/Alumni interactive sessions and technical events are organized under IEEE/IETE/ISTE student chapters

Vision

- To provide quality education in Electronics & Instrumentation Engineering by nurturing the students with strong technical analytical, practical skills and ethics to make them engineering professional who cater to the societal needs with a high degree of integrity and social concern.

Mission

- To provide progressive and quality educational environment with the help of dedicated faculty and staff by fully utilizing the information technology aiming at continuous teaching and learning process.
- To produce engineering graduates fit for employability with a competence to design, develop, invent and solve instrumentation engineering problems.
- To make the students ethically strong by inculcating sense of brotherhood.

Funding Grants

- 2018-19** Rs. 15,00,000/- from AICTE under MODROBS for *Modernization of Process Control Laboratory* (Lr. No. 9-73/ RIFD/ MOD/ POLICY-1/2018-19)
- 2018-19** Rs. 3,00,000/- from AICTE to conduct online STTP on "*VLSI Design: Bridging Concepts to Practice*" (Lr. No. 34-65/197/RIFD/STTP/Policy-1/2018-19)
- 2012-13** Rs. 9,90,000/- from AICTE under *Research Promotion Scheme (RPS)* Project (Lr.No. 20/ AICTE/ RIFD/ RPS/ (POLICY -VI) 29/2012-13)
RPS Title: *Development of Novel Algorithms for Reduction of Motion Artifacts and extraction of Respiratory Activity from Artifact Corrupted PPG signals in Pulse Oximeters*
- 2011-12** Rs 1,00,000/- to Dr. K. Venu Madhav from UGC-International Travel Grant (ITG) to visit Graz, Austria
Rs 1,00,000/- to Dr. M. Raghu Ram from UGC-International Travel Grant (ITG) to visit Graz, Austria
- 2010-11** Rs. 8,00,000/- under MODROBS of AICTE for *Modernization of Instrumentation Laboratory*

Other department highlights

Sl. No.	Year	Faculty	Students
1	2019-20	02	04

NI LabVIEW CLAD Certifications and NPTEL Certifications

Year	Faculty	Students
2025-26	12	69
2024-25	13	08
2023-24	18	04

Career Opportunities for B.Tech. ECE (VLSI D&T), B.Tech. (ECI) & M.Tech.(EV):

- Most of the students of the department have been placed on campus and off campus every year in reputed Software, Core and Public and Government sector companies like TCS, Infosys, Tech-Mahindra, Musigma, Accenture, Google, Reliance Power, L&T, BOSCH, Caterpillar Electronics, IBM, BARC, IOCL, ISRO, DRDO, SAIL, NTPC, KTPS, JKP, etc.
- The students also have opportunities in Industries related to IoT, Artificial Intelligence, Power, Petrochemicals, Pharmaceuticals, Chemical and Food processing, Plastic- Rubber molding, VLSI, Optical and Laser based communications, Wireless communications, Telecommunications and Embedded Systems etc.

NI LabView Training at ECIED

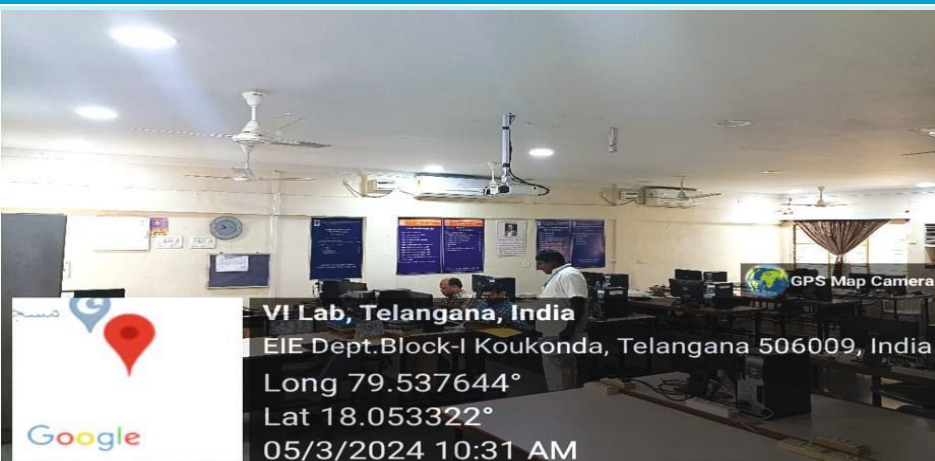


Department Research & Education Centres and Laboratories

- DRC- Industrial IoT • DRC-VLSI • DRC-Embedded Systems • Research Laboratory
- Basic Electronics & Integrated Circuits Laboratory • Smart Instrumentation & Artificial Intelligence Laboratory • E-CAD Laboratory • MPMC Laboratory • Virtual Instrumentation & IoT Laboratory • Process Control Lab • Project Works Lab

Major Facilities

- BIOPAC - A standard research Platform for recording and analyzing of Biomedical signals • National Instruments (NI) Virtual Instrumentation Platform with SCXI modules, USB data acquisition & LabVIEW 2018 Software • XILINX Spartan FPGA Development Systems • Active HDL and Multisim Software • DSP and Embedded System Modules • NI ELVIS II with FPGA • NI myRIO, NI myDAQ • MATLAB 7.2 Software • Universal IC Programmers • Digital Storage Oscilloscopes Four Trace Oscilloscopes • ARM Microcontroller Development Platform • AVR Microcontroller Development Platform • PIC Microcontroller Platform • 8051 Microcontroller Platform • Arduino Robotic Development Platform • Microprocessor kits • PC based Process Control work stations for Flow, Level and Pressure, Cascade & Ratio controllers • Distributed Control System (DCS) • Industrial IoT system • Programmable Logic Controller (PLC) • Transducers & Signal conditioning modules • ECG, Respiration & Pulse rate measurement kits
- NI LabVIEW -CoE at ECIED conducts Lab view Core 1&2 courses along with issuing official NI Certificates



Students Activities

- KITS Warangal has organized SUMSHODINI'25 a yearly technical symposium conducted on 17th & 18th October 2025, As part of Sumshodhini'25, on behalf of the department, the students of B. Tech. (ECI) & M. Tech. (EV) in association with ISTE student Chapter and Technical Club, KITSW are organized a technical workshop - "WORKSHOP on 'DroneXplore'" on 17th Oct 25.
- The primary objective of the workshop was to provide participants with hands-on experience and address real-world challenges through IOT-based solutions. The workshop covered both hardware and software aspects, allowing participants to gain a comprehensive understanding of the intersection between robotics and mobile technologies.

Technical events organized by the Department of ECIE:

1. WORKSHOP on 'DroneXplore'	2. Tech Nexus	3. Tech Junction	4. Funovation frenzy
5. Tech Odessey	6. Quantum Quests	7. Electro Expo	8. Paper Presentation
			