



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

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

काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५ 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 ELECTRONICS & INSTRUMENTATION ENGINEERING

DEPARTMENT PROFILE

Programmes Offered

B.Tech. - Electronics Communication & Instrumentation Engineering (ECI)

B.Tech. - Electronics & Instrumentation Engineering (EIE)

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

Ph.D.- Electronics & Instrumentation Engineering (EIE)

Milestones

2019-20	Introduced Course web for effective implementation of I2RE.
2022	Accredited Under Tier-1 by National Board of Accreditation (3 Years). Approval letter No. F.No. 11-76/2010/NBA. Dt.17 th Feb. 2022.
2020	Re Accredited by National Board of Accreditation (1 Years). Approval letter No. F.No. 11-76/2010/NBA. Dt.21 st Aug. 2020.
2019-20	Introduced Honors in B. Tech E&I Engineering program (HEIE)
2019-20	Introduced Minor in B. Tech E&I Engineering program (MEIE)
2018-19	Received Rs. 15,00,000/- under MODROBS of AICTE for Modernization & Automation of Process Control Laboratory F.No. 9-73/ RIFD/ MOD/ POLICY-1/2018-19
2018-19	Received Rs. 3,00,000/- from AICTE to conduct online STTP on "VLSI Design: Bridging Concepts to Practice" F.No. 34-65/197/RIFD/STTP/Policy-1/2019-19
2018	Re Accredited by National Board of Accreditation (3 Years). Approval letter No. F.No. 11-76/2010/NBA. Dt.29 the Mar. 2018
2017- 18	Vydhik, secured 72 Rank in GATE 2018 and selected as GET in ONGC
2017	Renewal as a Research Centre under Kakatiya University. Oct. 2017 Re Accredited by National Board of Accreditation (2 Years).
2016	Approval letter No. F.No. 11-76/2010/NBA. Dt. 08 th July. 2016 Re Accredited by National Board of Accreditation (2 Years).
2014	Approval letter No. F.No. 11-76/2010/NBA. Dt. 09 th oct. 2014
2014	Granted Autonomous status by UGC, New Delhi and Kakatiya University Mar. 2014
2012-13	Rs 1,00,000/- to Sri K. Venu Madhav from UGC-International Travel Grant (ITG) to visit Graz, Austria
2012-13	Rs 1,00,000/- to Sri M. Raghu Ram from UGC-International Travel Grant (ITG) to visit Graz, Austria
2012-13	Received Rs. 9,23,334/- from AICTE towards Research Promotion Scheme F.No. 20/ AICTE/ RIFD/ RPS/ (POLICY -VI) 29/2012-13 Re-accredited by National Board of Accreditation. (3 Years)
2011	Approval letter No. F.No. NBA/11-76/2010/NBA, Dt. Sept 22,2011
2010-11	Received Rs. 8,00,000/- under MODROBS of AICTE for Measurement & Instrumentation Laboratory F.No. 8024/RID/BOR/MOD/064/9/10 Re-accredited by National Board of Accreditation. (3 Years).
2008	Approval letter No. F.No. NBA/ACCR-15/2001, Dt. July 19,2008
2009-10	Department recognized as Research Centre by Kakatiya University.
2001	First accreditation status awarded by NBA (AICTE) to Electronics & instrumentation Engineering Programme for 3-year w.e.f. 09.11. 2001. Approval letter No. F.No. NBA/ACCR-190/ 2003, Dt. 20/ 05/ 2003 May 2001
2000	The Department of Electronics and Communication Engineering was bifurcated from Department of Electronics & instrumentation Engineering.
1981	Department started with B.Tech. programme in Electronics & instrumentation Engineering with an intake of 60.

Prominent Guests Visited

1. Prof. V. Ram Gopal Rao, Director IIT Delhi, Proud Alumnus of the Department visited the Department on 11th July, 2018.
2. Sri Shyam Mallela (Class of 1989-93-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), working as Senior Engineering Manager, Honeywell Pvt. Ltd., Hyderabad, visited our department on 16.09.2020
4. Mr. G. Suresh Reddy (Class of 1997-EIE) Managing Director, Jaladhi Automations Pvt. Ltd., Verizon visited our department on 16.09.2020

Faculty Achievements in 5 years

Year	SCI Journals	SCOPUS Journals	WOS Journals
2023-24:	01	-	-
2022-23:	06	04	01
2021-22:	03	-	-
2020-21:	-	01	-
2019-20:	-	01	-
2018-19:	-	03	-

Student Achievements in 5 years

Year	Conference Proceedings	SCOPUS Journals
2023-24:	-	-
2022-23:	01	-
2021-22:	09	-
2020-21:	-	-
2019-20:	-	01
2018-19:	-	-

Alumni Interactions

1. **Prof. V. Ram Gopal Rao**, Director IIT Delhi, Proud Alumnus of the Department visited the Department on 11th July, 2018.
2. **Sri Shyam Mallela** (Class of 1989-93-EIE) delivered a lecture on "The role of Instrumentation in industries" as a part of Induction program at KITSW on 21.07.20218.
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Accreditation

Accredited Under Tier-1 by National Board of Accreditation (3 Years). Approval letter No. F.No. 11-76/2010/NBA. Dt. 17 th Feb. 2022.

Re Accredited by National Board of Accreditation (1 Years). Approval letter No. F.No. 11-76/2010/NBA. Dt. 21 st Aug. 2020.

Re Accredited by National Board of Accreditation (3 Years). Approval letter No. F.No. 11-76/2010/NBA. Dt. 29 th Mar. 2018.

Re Accredited by National Board of Accreditation (2 Years). Approval letter No. F.No. 11-76/2010/NBA. Dt. 08 th July. 2016.

Re Accredited by National Board of Accreditation (2 Years). Approval letter No. F.No. 11-76/2010/NBA. Dt. 09 th oct. 2014.

Re-accredited by National Board of Accreditation. (3 Years). Approval letter No. F.No. NBA/11-76/2010/NBA, Dt. 22 nd Sept., 2011

Re-accredited by National Board of Accreditation. (3 Years). Approval letter No. F.No. NBA/ACCR-15/2001, Dt. July 19, 2008

First accreditation status awarded by NBA (AICTE) to Electronics & Instrumentation Engineering Programme for 3-year w.e.f. 09.11. 2001. Approval letter No. F.No. NBA/ACCR-190/ 2003, Dt. 20/ 05/ 2003

Placements & Higher Education

Year	Placements	Higher Education
2023-24:	12 (till date)	NA
2022-23:	12	03
2021-22:	39	06
2020-21:	19	15
2019-20:	17	11
2018-19:	23	07

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 in course web portal

Student internships are encouraged

Students are trained in core areas to support placement drives

Faculty and Students are encouraged to complete NPTEL

Certifications visits / Alumni interactive sessions are arranged

Various 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*

2018-19 Rs. 3,00,000/- from AICTE to conduct online STTP on "VLSI Design: Bridging Concepts to Practice"

2012-13 Rs. 9,90,000/- from AICTE towards Research Promotion Scheme

Title: *Development of Novel Algorithms for Reduction of Motion Artifacts and extraction of Respiratory Activity from Artifact Corrupted PPG signals in Pulse Oximeters*

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 (like NPTEL Certifications etc.,)

NPTEL Certifications

NI LabVIEW CLAD Certifications

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

Year	Faculty	Students
2023-24	18	04
2022-23	19	06
2021-22	04	04

Career Opportunities:

- 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, Accenture, Google, Reliance Power, L&T, BOSCH, Caterpillar Electronics, IBM, BARC, IOCL, ISRO, DRDO, SAIL, NTPC, KTPS, BILT, 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 Lab View Training conducted at E&IE Dept.

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 • MATLAB 7.2 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 • Universal IC Programmers • Digital Storage Oscilloscopes • Four Trace Oscilloscopes • ARM Microcontroller Development Platform • AVR Microcontroller Development Platform • PIC Microcontroller Development Platform • 8051 Microcontroller Development Platform • Arduino Robotic Development Platform • Microprocessor Trainer kits • PC based Process Control work stations for Temperature, Flow, Level and Pressure, Cascade & Ratio controllers • Programmable Logic Controllers (PLC) • Transducers and Signal conditioning modules • ECG, Respiration and Pulse rate measurement kits

Laboratories

• Basic Electronics & Integrated Circuits Laboratory • Research Laboratory • Virtual and Biomedical Instrumentation Laboratory • MPMC Laboratory • Measurements Laboratory • Instrumentation Laboratory • E-CAD Laboratory • Process Control Laboratory • Project Works Laboratory

NI Lab view Center of Excellence at E & I Dept. will conduct Lab view Core 1&2 courses along with issuing official NI Certificates.



NI Authorized LabVIEW Academy School



NI LabVIEW Training (Module-I) program

Students Activities

Kits Warangal has organized SUMSHODINI'22 a yearly technical symposium conducted on 18th & 19th November 2022, As part of Sumshodhini'22, on behalf of the department, the students of B. Tech. (EIE), B. Tech. (ECI) & M. Tech. (EV) in association with ISTE student Chapter and Technical Club, KITSW are organized a technical workshop - "WORKSHOP ON DRONES" on 18th Nov 22. Drones are used for various reasons like surveillance, traffic monitoring, firefighting, personal use, drone-based photography, etc. Now a days drones are widely used in agriculture, they can be used on nearly any kind of crop, including rice, wheat, corn, citrus trees, cotton, and much more. In addition to covering more land at a lower price, drone spraying can offer major environmental benefits.

Department of EIE and ECI has organized following events:

- | | | | |
|-----------------------|--------------------|--------------------|-------------------|
| 1. Workshop on Drones | 2. Arcadathon 2.0 | 3. Viserion | 4. Hidden Circuit |
| 5. Enigma 2.0 | 6. Sparkplug | 7. Mind Bloggers | 8. Quiz Buzz |
| 9. Paper Presentation | 10. Placement Heat | 11. Concentrix 2.0 | |

