



# 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 INFORMATION TECHNOLOGY

### DEPARTMENT PROFILE

#### PROGRAMS OFFERED

##### Course

B.Tech	Information Technology
M.Tech	Data Science

### MILESTONES

- 1999 Inception
- 2000 Increase of intake to 60
- 2000 AICTE approval: F.No.730-50-213(E)/ET/97, dated 07/11/2000
- 2012 Recognized as "Center of Excellence for Infosys Campus Connect Program" by Infosys Limited
- 2014 Recognized by TCS, Microsoft Corporation, Oracle Corporation
- 2014 Received UGC travel grant
- 2016 Establishment of Networks Simulation lab
- 2016 NBA accreditation : F. No. 11-76-2010-NBA, dated: 04-02-2017
- 2018 Received DST-SERB seminar grant
- 2019 Published two patents
- 2019 NBA Reaccreditation : F. No. 11-76-2010-NBA, dated: 20-11-2019
- 2020 One faculty awarded Ph.D. (Dr.Y.Bhavani)
- 2020 Sanctioned PG Programme in M.Tech (Data Science)
- 2020 Published two patents
- 2020 Intake increased to 120
- 2021 Two faculty members awarded Ph.D. (Dr. B. Kiran Kumar & Dr.K.Deepika)
- 2022 One patent published
- 2023 Conducted Meity, GoI Sponsored FDP in association with E&ICT, NIT Warangal
- 2023 One Faculty submitted PhD Thesis (Mr.N.Rajender)
- 2023 Dr.T. Senthil Murugan has successfully completed Master trainer Programme in High Performance computing which is organized by CDAC & sponsored by AICTE.

- **Prominent Guests visited**
- **Faculty & Student Achievements in 5 years**

Dr. K. Praveen Kumar authored the textbook "An Introduction to Progressive Programming from JavaScript to AngularJS," First Edition, 2019, published by Winkly Publishers with ISBN 9789386647962.

T. Mahesh Kumar authored the textbook "Concepts and Preliminaries of Software Testing," First Edition, 2019, published by LuLu Publishers, USA, with ISBN 9780359635016.

Bhaskar, Dr. K. Praveen Kumar, T. Mahesh Kumar, and Dr. T. Senthil Murugan jointly published a design patent titled "Mobile Phone Holder With Stock Market Display," with Application Number: 326011-001, CBR No:1094, and Publication Date: 16/01/2020.

Dr. K. Praveen Kumar published a patent titled "Computing Wireless Sensor Networks with Reconfigurable Technology," with Application No: 201941021183, and Publication Date: 04.02.2020.

Dr. Y. Bhavani completed Ph.D. in August 2020, and Dr. B. Kiran Kumar & Dr. K. Deepika completed Ph.D. in the year 2021, from JNTU, Hyderabad.

Dr. P. Kamakshi chaired the International Conference on Computational Intelligence & Informatics (ICCII-2016) at JNTU, Hyderabad, from May 28-30, 2016.

Dr. T. Senthil Murugan published two patents: I - Mobile Case Charger: Intelligent Mobile Phone Protective Case and Charger Application No: 201941016288, Dated: 24/04/2019 and Automatic Robotic Mechanism for Industrial Water Quality Monitoring using IoT Application No: 201941021183, Dated: 07/06/2019

Dr. P. Kamakshi and T. Mahesh Kumar authored the textbook "Problem Solving with Algorithms & Data Structures using Python," First Edition, 2019, published by Lambert Publishers, USA, with ISBN 9786200115560.

Dr. T. Senthil Murugan, Dr. K. Deepika, S.B. Swathi, and G. Vijayalaxmi published a patent titled "AI and ML based smart facial recognition security system" with Application No: 2012241013917, Dated: 25.03.2022.

Dr. K. Deepika authored the textbook "Data Warehousing & Data Mining," First Edition, 2022, published by Lambert Publishers, USA, with ISBN 978-620-4-74757-6.

Dr. P. Kamakshi is currently supervising the academic progress of two scholars from KL University, Vijayawada, and two scholars from Kakatiya University, Warangal.

Dr. T. Senthil Murugan has provided guidance to three scholars from Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology, Avadi, Chennai.

A. Bhaskar was awarded a UGC Travel Grant amounting to Rs. 74,518/- to present a paper at the IEEE Region-10 Technical Symposium (TENSYP-2014) in Kuala Lumpur, Malaysia, from April 14-16, 2014.

Smt. S.B. Swathi received a Seminar Grant of Rs. 1.00 Lakh from DST-SERB to organize a National level Seminar on "Emerging Trends in Wireless Networks" in March 2018.

#### NPTEL:

90% of the department faculty completed the NPTEL courses.

Dr. B. Kiran Kumar secured top 1% and Dr. T. Senthil Murugan secured top 5% in Data Structures and Algorithms using Java

Dr.Y.Bhavani secured top 2% and Sri. A. Bhaskar secured top 5% in Programming in JAVA

Dr.Y.Bhavani secured top 5% in Introduction to programming in C.

#### Faculty Achievements:

Journals	2023-24	2022-2023	2021-22	2020-21	2019-20	2018-19
Scopus Indexed	1 (Accepted)	6	01	03	08	4
UGC Listed	-	6	-	04	-	7
SCI/ESCI	1 (Accepted)	2	03	-	1	-
National Conference				6	2	
International Conference	1	14	13	7	1	2
Event Attended			44	36	31	41
NPTEL Certificates						

#### Student Achiements

Academic Year	Journals	Conferences	NPTEL	Course Project
2022-23	4	1	4	03
2021-22	1	22	2	10
2020-21	-	18	4	53
2019-20	-	22	2	-
2018-19	-	1	5	-

## Alumni Interactions

Date of Visit	Name	Designation
13/03/2023	Alekya Thalakoti	Associate in Cognizant, Hyderabad
13/03/2023	Praneeth Thangallapally	Software Engineer at TCS, Hyderabad
05/03/2023	V. Sravya	Principal Software Engineer, Dell Technology, Hyderabad
05/03/2023	Mounika	Software Engineer, Microsoft
04/01/2022	Sanjay Damera	SDE-1 in VeriskAnalytics, USA.
06/01/2022	M. Shresta	Working at IBM as data Engineer
04/01/2022	MirzaYaser Baig.	DevOps Engineer at SAP, Walldore, Germany.
23/10/2021	Donthula Preethika	Software Engineer, TCS
29/12/2021	CH.Anvith Reddy	Software Engineer at Microsoft, USA.s

## Accreditation

ReAccredited Under Tier-1 by National Board of Accreditation (3 Years). Approval letter No. F.No. 11-76-2010 Dt. 15.06.2022 (upto 30.06.2025)

Accredited Under Tier-1 by National Board of Accreditation (3 Years). Approval letter No. F.No. 11-76-2010 Dt. 20.11.2019 (upto 30.06.2022)

First accreditation status awarded by NBA to Information Technology for 3-year. Approval letter No. F.No. 11-76-2010 Dt. 04.02.2017 (Tier-II upto 30.06.2019)

National Assessment and Accreditation Council (NAAC) accredited with CGPA 3.21 at A Grade from November 2018 to November 2023

## Placements

	Batch						
	2020-24 (Ongoing)	2019-23	2018-22	2017-21	2016-20	2015-19	2014-18
No. of Students on Roll	129	66	69	70	57	57	52
No. of Students Placed	23	40	51	48	33	34	24
Highest CTC (in Lakhs)	11.0	11.0	20.0	7.0	5.0	6.5	6.0
Higher Studies (GRE/TOEFL/IELTS/GATE)	-	08	04	05	09	05	08
Entrepreneurs	-	-	-	01	01	02	-

## Best Practices

### I. Best Practices of the department Short Term and Long-Term Goals:

#### Best Practices of the Department

1. Active involvement of Stakeholders in department academic activities.
2. Skill and Employability Enhancement for Students by conducting program skill development laboratory.

### II. SWOC Analysis

#### SWOC Analysis of the Department

##### Strengths:

- Dedicated faculty with strong qualifications and retention, supported by well-equipped infrastructure and labs.
- Continuous monitoring and counselling of students for the overall improvement of the student.
- Placement Training, Personality Development programme, professional development activities and value-added programmes are conducted for students' career development.

##### Weakness:

- Student publications has to be improved.
- Number of PhD holders has to be improved in the department
- No Research laboratory exist in the department
- No research grants from reputed organizations.
- R&D and consultancy need to be enhanced.

**Opportunities:**

- Seminars and Project works can be converted into publications.
- Faculty are submitting the proposal to the research organizations for funding
- Department can try to generate funds from consultancy work and provide hands-on experience to the students.

**Challenges:**

- Updating of curriculum according to the industrial expectations.
- To sign MoUs with companies and R&D to have collaborative domain & specific training programs.

**III. Short term and Long-Term Goals of the department**

Short Term Goals of the Department	
<b>Short term goal 1:</b> To improve students' placements	<b>Action Plan:</b> a. During association hour, we are planning to conduct motivation sessions with already placed students in different companies. b. To invite eminent speakers from industries for delivering guest lectures on latest technologies.
<b>Short term goal 2:</b> To motivate students to establish startups and be successful entrepreneurs.	<b>Action Plan:</b> 1. Integrating Innovation Incubation Research and Entrepreneurship (I <sup>2</sup> RE) into course teaching by giving special assignments on Course Patents and Course Research Paper

Long Term Goal(s) of the Department
<b>Long term goal:</b> Encourage the faculty <ul style="list-style-type: none"> <li>• To complete Ph.D. Programme.</li> <li>• To publish research papers and claiming patents.</li> <li>• To acquire research grants.</li> </ul> <b>Action Plan:</b> 1. Motivating faculty to apply for research grants every year. 2. Regular monitoring of research progress of individual faculty. 3. Planning to organize research talks by experts to improve effective research capabilities.

**IV. Portray department distinctness**

Distinctiveness of the Department
<ul style="list-style-type: none"> <li>• <b>Strong Leadership and Talent:</b> The department might be characterized by strong leadership and well qualified, experienced and dedicated faculty who are committed to excellence and continuous improvement.</li> <li>• <b>Specialized Focus:</b> The IT Department have a specialized focus on a particular area of information technology, such as cybersecurity, data analytics and artificial intelligence and department organizes guest lecturers to students periodically.</li> <li>• <b>Cutting-edge Technologies:</b> The department could prioritize the adoption and implementation of cutting-edge technologies, staying ahead of industry trends and ensuring that department remains competitive in its technological capabilities and department organizes FDPs to the faculty on cutting-edge technologies.</li> </ul>

**Vision, Mission & SWOC****Vision of the Department**

To become a center of excellence in the information technology discipline with effective teaching and strong research environment that makes our students globally competitive with strong ethical values and leadership abilities

**Mission of the Department**

- M1: To impart technical knowledge to the students to turn out proficient and well groomed engineers
- M2: Motivate students to improve skills by attending training programs and internships that leads to develop innovative projects in emerging technologies
- M3: To train our students for higher education, leadership in profession and adopt quality research

**Laboratories:**

Information Lab,  
 Internet Lab,  
 Multimedia Lab,  
 Research and Education Centre - Data Science,  
 Network Simulation Lab,  
 Data Base and Data Mining Lab