KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.
काकतीय प्रैद्योगिकी 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 INFORMATION TECHNOLOGY

Department of Information Technology

Presents...

A Technical Magazine

BITWISE

MAGAZINE

DEPARTMENT OF INFORMATION TECHNOLOGY

Issue 14, July 2025



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE
Warangal – 506 015, Telangana, INDIA. (An AUTONOMOUS INSTITUTE under Kakatiya University, Warangal)
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Estd-1980
KITSW



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Editorial Board

1. **Faculty**

S. No.	Responsibility	Name of the Faculty	Designation
1.	Chief Editor	Dr. T. Senthil Murugan	Professor & Head, Dept. of IT
2.	Faculty Editor	Smt.B. Shruthi	Assistant Professor, Dept. of IT

2. Students

S. No.	Roll Number	Name of the Student
1.	B21IT001	REVURI HANUDEEP REDDY
2.	B21IT007	KASTURI HARSHAVARDHAN
3.	B22IT136L	BOLLU VYSHNAVI
4.	B21IT069	EGA SHAIVI

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Kakatiya Institute of Technology & Science, Warangal

(An Autonomous Institute under Kakatiya University, Warangal.)

DEPARTMENT OF INFORMATION TECHNOLOGY



Dr. K. Ashoka Reddy
Principal

Message

It gives me immense pleasure to pen a few words as prologue to our in-house Technical Magazine exclusively meant for churning out the latent writing talent which bears immense potentiality of sharpening communication skills as part of overall personality development. I congratulate the editorial board of the Technical Magazine for their untiring efforts in collecting and compiling the data without which it would have not been possible to place this magazine in your hands. I, on behalf of KITSW family, wish you all the best for achieving greater success and scaling new heights in the future.

Kakatiya Institute of Technology & Science, Warangal

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DEPARTMENT OF INFORMATION TECHNOLOGY



Dr. T. Senthil Murugan
Head of the Department

Message

It gives me an immense pleasure to present twelve issue of BITWISE Magazine from Dept of IT. The past year was full of various activities by the students and faculty in academic, co curricular, extra-curricular as well as research & developments. We are proud of the accomplishments of our alumni for their achievements in academic, higher studies and placements in fastest-growing IT companies. Faculty members published research papers on complex issues in various fields of computer science and Information technology. It is our aim to educate and inform anyone who has an interest in latest technologies and upcoming research directions in the field of computers. Throughout the Magazine you will see articles on the varied aspects of technical as well as non-technical topics from students and faculty members.

We welcome your feedback and would like to hear what you think of the BITWISE Magazine.

BITWISE MAGAZINE DEPARTMENT OF INFORMATION TECHNOLOGY

Department Profile

The Department of Information Technology was established in the year 1999, Department offers a 4-year course of B.Tech. degree programme in the Information Technology, with an annual intake of 120 students. The intake was enhanced to 120 students in the 2020. The department is also offering M. Tech (Data Science) from the year 2020. The hallmark of IT Department is to develop technologically competent IT professionals in today's IT centered scenario. The strengths and facilities of the department are increasing year by year. Well qualified, experienced and committed faculty members are an asset to the Department. The Department has well equipped laboratories to cater the needs of the students. To expose the students to the current trends in the areas of Information Technology and allied ones, the Department conducts a National Level Students' Technical Symposium in every academic year and also the Department organizes several training programmes for both students and faculty members to get acquainted with the cutting-edge technologies emerging day-by-day. Students of IT Department have made remarkable achievements both in academics and sports as well. The Department has formal alliances with reputed IT-oriented organizations to facilitate student training, projects, internship and expert lectures.

VISION:

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:

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

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DEPARTMENT OF INFORMATION TECHNOLOGY

Programme Educational Objectives (PEO's):

- To provide students with a sound foundation in Information Technology theory and practices to analyze, formulate and solve engineering problems.
- To develop an ability to design algorithms, implement programs and deploy software.
- To develop Information Technology solutions with the changing needs of the society for the career-related activities.

Programme Specific Outcomes (PSO's):

- Apply analytical and experimental problem-solving skills in the Information Technology discipline
- Use fundamental knowledge to investigate new and emerging technologies leading to innovations in the field of Information Technology.
- Begin immediate professional practice as an Information Technology Engineer.

Programme Outcomes (POs) Of B.Tech(IT):

Engineering Graduates will be able to:

PO1	**Engineering Knowledge**	Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.
PO2	**Problem Analysis**	Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)
PO3	**Design/Development of Solutions**	Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)
PO4	**Conduct Investigations of Complex Problems**	Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8).
PO5	**Engineering Tool Usage**	Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)
PO6	**The Engineer and The World**	Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and WK7).
PO7	**Ethics**	Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)
PO8	**Individual and Collaborative Team work**	Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.
PO9	**Communication**	Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences
PO10	**Project Management and Finance**	Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.
PO11	**Life-Long Learning**	Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

Programme Outcomes (POs): M.Tech(Data Science)

The post graduates of **DATA SCIENCE** will be able to

- Independently carry out research and development work to solve practical problems.
- Write and present a substantial technical report.
- Demonstrate a degree of mastery in the field of data science.

Programme Specific Outcomes (PSO's):

- Apply the knowledge of data structures, data science and artificial intelligence techniques to solve real-world problems
- Demonstrate data analytical skills to build and assess models for handling large-scale data.

Programme Educational Objectives (PEO's):

- Attain proficiency in the field of data science to analyze, synthesize, simulate and use innovative techniques in research & teaching.
- Excel in profession, become an entrepreneur by adopting emerging technologies in the field of data science.
- Exhibit professional ethics, effective communication and develop solutions with the changing needs of the society for career-Related activities.

Kakatiya Institute of Technology & Science, Warangal-15

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DEPARTMENT OF INFORMATION TECHNOLOGY

Teaching Faculty, Non-Teaching & Support Staff

TEACHING FACULTY

S. No.	Name of the faculty	Designation
1.	Dr. P. Kamakshi	Professor
2.	Dr. T. Senthil Murugan	Professor & Head
3.	Dr. B. Kiran Kumar	Associate Professor
4.	A. Bhaskar	Associate Professor
5.	Dr. Y. Bhavani	Associate Professor
6.	P. Sudharshan Ray	Assistant Professor
7.	S. B. Swathi	Assistant Professor
8.	M. Kishore	Assistant Professor
9.	R. Gautam	Assistant Professor
10.	Dr. K. Praveen Kumar	Assistant Professor
11.	Dr. K. Deepika	Assistant Professor
12.	K. Gautham Raju	Assistant Professor
13.	S. Sangeetha	Assistant Professor
14.	Dr.N. Rajender	Assistant Professor
15.	N. Srinivas	Assistant Professor
16.	K.Sandhya Rani	Assistant Professor
17.	Ameera Almas	Assistant Professor
18.	Sobiya Sahabat	Assistant Professor
19.	D.Jyothi	Assistant Professor
20	S.Sathish Kumar	Assistant Professor
21.	B.Shruthi	Assistant Professor

NON-TEACHING & SUPPORT STAFF

S.No.	Name of the faculty	Designation
1.	M. Srilatha Devi	Programmer
2.	Ch. Devender	Programmer
3.	P. Sathish	Jr. Assistant
4.	K. Mahender	Attender

Research Publications of faculty:

1. Voore Subrahmanyam, N. Sateesh Kumar, Nagurla Mahender**, Jyothi Devaraj**, Indraneel K, Sriram Parabrahmachari, "An Efficient Algorithm to Enhance Confidentiality, Security and Quality of Service(QoS) for Internet of Things(IoT) Communication Network", *Communications on Applied Nonlinear Analysis,* Vol. 32, No. 3s, Jan. 2025, ISSN: 1074-133X
   DOI: https://doi.org/10.52783/cana.v32.2529 (Scopus)

2. **Dr. Deepika Kongara**, Shivani Krishnama, "A Framework for Character Recognition APP Using ML Kit", *Journal of Information Systems Engineering and Management,* Vol.10, No.41s, Feb 2025,ISSN: 2468-4376
   doi: https://doi.org/10.55267/iadt (Scopus)

3. **Bhaskar Adepu**, Dr. T. Archana, "Multi-Model Stack Ensemble Deep Learning Approach for Multi-Disease Prediction in Healthcare Application", *Journal of Mechanics of Continua and Mathematical Sciences,* Vol.20, No. 3,pp. 135-155, March 2025, ISSN: 2454-7190
   doi: https://doi.org/10.26782/jmcms.2025.03.00009

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   (Scopus)

Conference Proceedings:

R. Sandhya Rani

1. P. Lavanya, **K. Sandhya Rani**, B. Chaitanya, "Efficient Auditing Scheme for Secure Data Storage in Fog**",** *International Conference on Advances in Computational Intelligence and Informatics,* pp. 335-342, Aug. 2024, ISBN 978-981-97-4726-9
   DOI: https://doi.org/10.1007/978-981-97-4727-6_34

   (Spinger)

B. Shruthi

2. V. Shobha Rani, Chittireddy Akhil Reddy, V. Ramu, A. Ramesh Babu, Vallem Randheer Reddy, **B. Shruthi, "** MBTI Personality Type Prediction Using BERT-LSTM and Deep Learning on Social Media Posts", *2024 4th International Conference on Ubiquitous Computing and Intelligent Information Systems (ICUIS),* Feb. 2025
   DOI: https://doi.org/10.1109/ICUIS64676.2024.10866575

   (IEEE)

Dr.N. Rajender

3. **Shiva Prasad, Ambily Balaram, N. Rajender, P.Sudheer,Sneha Yerram,Sumayyam Begum** ,"MCCLCP: Multi Class Cotton Leaf Diseases Prediction and Classification using Deep Learning Model"*2nd International Conference on Advancements In Power Communication and Intelligent Systems.*27- 28th June 2025. *(IEEE-Paper Presentation)*

Faculty Industrial Training

Name of the Faculty	Type of Program	start Date and end date	Name of the Organising Institution
B.Kiran Kumar	Industrial Training on Microsoft certified system Engineer	19/5/2025 – 2/6/ 2025	NSIC
A.Bhaskar	Industrial Training on Microsoft certified system Engineer	19/5/2025 – 2/6/ 2025	NSIC
M. Kishore	Industrial Training on Microsoft certified system Engineer	19/5/2025 – 2/6/ 2025	NSIC
R. Gautam	Industrial Training on Microsoft certified system Engineer	19/5/2025 – 2/6/ 2025	NSIC
S.B.Swathi	Industrial Training on Microsoft certified system Engineer	19/5/2025 – 2/6/ 2025	NSIC
Dr.K.Deepika	Industrial Training on Microsoft certified system Engineer	19/5/2025 – 2/6/ 2025	NSIC

The faculty from the department has attended 2-Week Online FDP on " Industrial Training on Microsoft certified system Engineer " from 19-05-2025 to 02-06-2025 organized by THE NATIONAL SMALL INDUSTRIES LTD.

INDUSTRY TRAINING ATTENDED BY FACULTY

S. N.	Name of the Faculty	Name of the Internship/ Training/ Collaboration	Name of the Company &Place	Duration	Outcomes of Internship/ Training/ Collaboration
1	Dr. K.Deepika	Post Graduate Certification in Data Science	iHUB DivyaSampark at IIT Roorke	26.02.2023 to 08.08.2024	It enhances career opportunities in data-driven fields, preparing individuals for roles such as data scientist, machine learning engineer, or data analyst.

FACULTY FDP

S.No.	Name of the Faculty	Name of Course Passed	Course Offered by (agency)	Grade obtained
1	Dr. T. Senthil Murugan	Cloud Computing	IIT Kharagpur	91%, Topper 1%, Elite+Gold
2	A Bhaskar	The Joy of Computing Using Python	IIT Madras	83%, Elite+Silver
3	Dr. B Kiran Kumar	Fundamentals of Object Oriented Programming	IIT Roorke	90%, Topper 5% Elite+Gold
4	Dr. Y. Bhavani	Ethical Hacking	IIT Kharagpur	81%, Elite+Silver
5	Dr. K. Praveen Kumar	Cloud Computing	IIT Kharagpur	90%, Topper 1%, Elite+Gold
6	Dr. K. Deepika	Introduction to Internet of Things	IIT Kharagpur	84%, Elite+Silver
7	S. B. Swathi	Cloud Computing	IIT Kharagpur	67%, Elite
8	Sobiya Sabahat	Introduction to Internet of Things	IIT Kharagpur	88%, Topper 5%, Elite+Silver
9	Sobiya Sabahat	Programming in Java	IIT Kharagpur	70% ,Elite
10	K Goutham Raju	Programming in Modern C++	IIT Madras	55%, Completed
11	S Sangeetha	Cloud Computing	IIT Kharagpur	63%, Elite
12	S.Sathish Kumar	Software Testing	IIIT Banglore	60%, Elite
13	S Sathish Kumar	Sensors and Actuators	IIT Kharagpur	75%, Elite+Silver
14	Amera Almas	Software Testing	IIT Kharagpur	62%, Elite
15	Amera Almas	Introduction to Machine Learning	IIT Madras	68%, Elite
16	R.Sandhya Rani	Introduction to Internet of Things	IIT Kharagpur	91%, Topper 5% Elite+Gold
17	B Shruthi	Cloud Computing	IIT Kharagpur	70%, Elite

Student achievements

S.No	Roll No	Student Name	Equivalent NPTEL Course	Awarded With	Duration
1	B22IT002	Kayeetha Charan Jit Reddy	Internet of Things	Elite	12 Weeks
			Machine Learning	Elite	12 Weeks
			Entrepreneurship Development	Elite	12 Weeks
2	B22IT025	B. Sai Pragna	Entrepreneurship Development	Qualified	12 Weeks
3	B22IT060	V.Naga Nandita Sai	Entrepreneurship Development	Completed	12 Weeks
4	B22IT080	P.Vaishnavi	Introduction to Machine Learning	Elite	12 Weeks
			Introduction to Internet of things	Elite	12 Weeks
5	B23IT117	K.Aryan	NPTEL: Cyber Securtiy and Privacy	Completion Certificate	12
6	B23IT068	Pulluri Sushanth	NPTEL: Problem solving through programming in c	Completion Certificate	12
7	B22IT066	K.Chaitanya	MOOCS:Computer Graphica and Multimedia	Completion Certificate	8
8	B22IT077	G.Rajashekar	MOOCS: Computer Graphica and Multimedia	Completion Certificate with Elite	8

S.No	Roll No	Student Name	Conference/ Workshop	Dates of the attended program	Organized institute
1	B23IT117	K.Aryan	Conference	19-10-2024 to 24-10-2024	Osmania University
2	B23IT117	K.Aryan	Conference	21-09-2024	BITS, warangal

BLOOD DONATION CAMP

S.No	Roll No	Student Name	Activity	Dates of the attended program	Organized By
1	B23IT077	K.Sai Akshay	Donated Blood	11.02.2025	RED Cross & KITSW
2	B23IT091	Guduri Divya Sai Charan	Donated Blood	11.02.2025	RED Cross & KITSW
3	B23IT097	A.ROSHAN REDDY	Donated Blood	11.02.2025	RED Cross & KITSW
4	B22IT107	Syed Saad Sharief	Donated Blood	11.02.2025	RED Cross & KITSW

PLACEMENTS

Following is the list of placed students who have received offer letters from the companies

S. No	Roll No.	Name of the Student	Selected for company	CTC (IN LAKHS)
1	B21IT008	SRIRAMOJURIDHIMA	COGNIZANTGENC	4.02
2	B21IT009	EMMADIDEEKSHITH KUMAR	COGNIZANTGENC	4.02
3	B21IT010	PULLURU SHREYA	GENPACT	4.2
4	B21IT012	VANGALA AJITH KUMAR	COGNIZANTGENC	4.02
5	B21IT013	MASARTIRAJKUMAR	iBASIS	3.5
6	B21IT014	THIPPARAPUSAICHANDANA	MASTISHKA	3
7	B21IT017	NUKAABHINAY	COGNIZANTGENC	4.02
8	B21IT020	RACHAMALLA DEEPIKA	COGNIZANTGENC	4.02
9	B21IT028	YERRA AKHILENDRA	LTIMINDTREE	4.05
10	B21IT030	KANTURIBHAVITHA	LTIMINDTREE	4.05
11	B21IT035	LYAGALAMANISHREDDY	SOTINextGen	7.5
12	B21IT037	KHARSHAVARDHAN	LTIMINDTREE	4.05
13	B21IT042	BANDARIVARSHATH	RealPage	10
14	B21IT044	ATIKAMANIRUDH	RealPage	10
15	B21IT049	ADIRALA SREEJA	LTIMINDTREE	4.05
16	B21IT052	KASARAPUSHWETHAPRIYA	PRICEWATERCOOPERS	4.25
17	B21IT056	NALLA MANASA	MASTISHKA	3
18	B21IT059	GORREANKITHA	LTIMINDTREE	4.05
19	B21IT070	AKUTHOTA ANIL	DELOITTE CYBERSECURITY	4.5
20	B21IT075	PULIDIVYA	LTIMINDTREE	4.05
21	B21IT077	MADADI NANDINI	LTIMINDTREE	4.05
22	B21IT090	BINGI SAIVARSHA	LTIMINDTREE	4.05
23	B21IT092	GURRAPUVIGNESHWAR	COGNIZANTGENC	4.02
24	B21IT101	LYAGALAGANESH YADAV	LTIMINDTREE	4.05
25	B21IT110	PALEPUGAYATRISHARMA	LTIMINDTREE	4.05
26	B21IT113	DASI SHIVA PRANAV	LTIMINDTREE	4.05
27	B21IT116	ARELLISREERAM	LTIMINDTREE	4.05
28	B21IT119	SRIRAMULA SANTHOSH	LTIMINDTREE	4.05
29	B21IT122	SUDDALASAI SHIVAKSHITH RAO	COGNIZANTGENC	4.02
30	B22IT132L	PINNAMMADHU	ASPYR	4.02
31	B22IT134L	SYED WAJID PASHA	LTIMINDTREE	4.05
32	B22IT136L	BOLLUVYSHNAVI	LTIMINDTREE	4.05

Internship Details

S.No	Name of the organization enrolled for online Internship & Title of the Internship	Internship Mode (Online/ Offline)	Dates (Start Date and End Date)		Roll Number
1.	Online Internshala	online	31-05-2024	26-07-2024	B21IT001
2.	Next24Technology	online	05-07-2024	05-09-2024	B21IT002
3.	Internshala	online	16-06-2024	12-08-2024	B21IT003
4.	CodersCave	online	25-06-2024	25-07-2024	B21IT005
5.	IBM Teachnook	online	01-07-2024	06-09-2024	B21IT007
6.	Ei system services	online	20-05-2024	14-07-2024	B21IT009
7.	ASSET TELEMATICS PVT LTD	online	01-07-2024	31-07-2024	B21IT010
8.	TEACHNOOK	online	20-06-2024	31-07-2024	B21IT012
9.	CODSOFT	online	01-07-2024	01-08-2024	B21IT017
10.	Technohack solutions(Machinelearning)	online	01-07-2024	31-07-2024	B21IT018
11.	Udemy	online	31-05-2024	31-07-2024	B21IT020
12.	Internshala	online	22-08-2025	22-10-2025	B21IT021
13.	NIT TRICHY	Offline	01-07-2024	13-07-2024	B21IT023
14.	INTERNSHALA	online	03-08-2024	13-09-2024	B21IT025
15.	Edunet foundation	online	01-12-2023	31-01-2024	B21IT027
16.	Edunet	online	21-12-2023	07-07-2024	B21IT028

Students Higher Education:

S.No	Name of the student	Roll Number	Program & University enrolled
1	CHADA NITYASEN REDDY	B21IT039	Master of Information Technology, Central Queensland University, Melbourne
2	PARAVASTU ROHAN	B21IT040	Master of Science in Data Analytics (Level 9), Technological University of the Shannon: Midlands Midwest (TUS), Ireland.
3	AHMED KHAN	B21IT065	Professional Information Technology, Charles Sturt university, Melbourne, Australia
4	JADDU SHOURY DEERAJ REDDY	B21IT072	Masters in Information Technology, University of Cincinnati USA,
5	NALAMASA INDRACHARAN	B21IT117	Msc computer science with industrial placement , University of East London, United Kingdom

Students qualified in national/international level examinations during the Academic Year 2024-25

Name of the qualifying student	Roll Number	Year of Qualifying	Level of Exam	Name of comptetetive examination
PARAVASTU ROHAN	B21IT040	2025	International	DuoLingo
AHMED KHAN	B21IT065	2025	International	IELTS
JADDU SHOURY DEERAJ REDDY	B21IT072	2025	International	IELTS
NALAMASA INDRACHARAN	B21IT117	2025	International	GRE
CHADA NITYASEN REDDY	B21IT039	2025	International	PTE
SARAGANDLA SRITHANMAI	B21IT027	2025	International	IELTS