PLACEMENT BROCHURE 2022-23

60+ Years of Excellence

JK Institute of Applied Physics and Technology

Department of Electronics and Communication
University of Allahabad

PLACEMENT BROCHURE

Training and Placement Cell
JK Institute of Applied Physics and Technology
Department of Electronics and Communication
University of Allahabad
PRAYAGRAJ

https://jkinstitute.ac.in/

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ABOUT
UNIVERSITY OF ALLAHABAD

Established on 23rd September 1887, it is the fourth oldest University in India after Calcutta, Bombay and Madras University. Its origins lie in the Muir Central College, named after Lt. Governor of North-Western Provinces, Sir William Muir in 1876, who suggested the idea of a Central University at Allahabad, which later evolved into the present university. At one point, it was known as the "Oxford of the East". The University of Allahabad has always occupied an esteemed place among the Universities of India for over a century. As a premier institution of higher learning, the University of Allahabad is committed to academic excellence. With its Motto 'Quot Rami Tot Arbores' ('as many Branches so many Trees'), the university is making rapid strides to meet the challenges of higher education in modern times. The university is also accredited by the National Assessment and Accreditation Council. In this millennium year, the University of Allahabad completes more than a hundred and thirteen years.

ABOUT THE INSTITUTE

The Department of Electronics and Communication, J.K. Institute of Applied Physics and Technology is located on the campus of the Science faculty of the University of Allahabad. The foundation stone of the institute was led by Pt. Jawahar Lal Nehru on 14 April 1949 with JK Charitable trust contributing to the construction of the entire building. The Institute was inaugurated in 1956. It became a pioneer department in INDIA for teaching and research in Electronics and Communication & Computer Science under Prof. S.N. Ghosh's leadership (first head).

P.G. courses in the institution were started in 1986.

Mission

To be a global centre of excellence in information and software technology education training and research.

Courses Offered

B.Tech. (Computer Science and Engineering)
B.Tech. (Electronics and Communication Engineering)
M.Tech. (Computer Science and Engineering)
M. Tech (Electronics and Communication Engineering)
B.Sc. (Computer Science)
M.Sc. (Computer Science)
Ph. D. in relevant field

Admission

Intake in B. Tech (4 Years) is based on securing positions in all India level IIT-JEE mains and advanced followed by JOSAA counselling only.
Intake in other courses through GATE/CUET/PGAT conducted by NTA.

WELCOME MESSAGE by HOD

Prof. Ram Suchit Yadav
Head of Department
JKIAPT

Dear Recruiters,

Welcome to the Department of Electronics and Communication, better known as, the J. K. Institute of Applied Physics and Technology at the University of Allahabad. J. K. Institute of Applied Physics and Technology stands as one of our country's most prestigious education centres. It is a Department of Electronics and Communication, located in the Muir College Campus (Science Faculty) of the University of Allahabad- which is one of the four oldest universities in India. The Foundation stone of the J.K. Institute was laid by Late Pt. Jawaharlal Nehru on January 14, 1949, and it was formally inaugurated by him on April 4, 1956. It was named J.K. Institute as J.K. charitable Trust contributed to the construction of the complete building structure. It is a pioneer Department in the country for teaching and research in the discipline of Electronics and Communication. The people who were initially associated with growing up in the department were Prof. Krishnaji and the first head of the Department and well-known figure Prof. S. N. Ghosh –followed by Prof. M.S. Bisht, Prof K.D. Dikshit, Prof V. Malviya and their colleagues. The Department conducts courses in the fields of Computer Science and Electronics & Communication. These courses have been designed to meet the current challenging demands of the nation. The Computer Science discipline was started in the year 1986 through the DRDO project on the 'Manpower development in the area of Computer Science'. The Department offers B. Tech (Electronics and Communication Engineering), B. Tech (Computer Science and Engineering), and B. Sc. (Computer Science), M.Sc. (Computer Science), M. Tech. (Electronic Engineering), M. Tech. (Computer Technology) and D. Phil program. For nearly 60 years, the alumni of the Department have made a significant contribution in their fields in India and abroad. The alumni of the Department may be found holding academic positions in various countries of the world. Many alumni are associated with computer and communication establishments such as Philips, Alcatel, IBM, TCS, HAL, ITI, DoT, Railways, Tech Mahindra, Bell Telephone, ST Microelectronics, IAP, and MT.

Prof. Ram Suchit Yadav
Head of Department
JKIAPT

TRAINING AND PLACEMENT OFFICER'S MESSAGE

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Dear Recruiters,

Since around sixty years of inception, the institute has been striving to confront the challenges and opportunities of the present globalization scenario. The institute's vision has been to nurture the students into intellectually capable, innovative professionals who shall contribute to the growth of technology, in partnership with the industry. Our relationship with the industry must be accredited to our alumni who have made indelible marks in the field of electronics, communications and computer science. The faith and trust that the industry bestows upon us are testified by the laurels earned by the alumni. The institute offers campus placements for students graduating with B. Tech (E.C.E and C.S.E), M. Tech. (E.C.E), M. Tech. (C.S.E) and Master of Science (Computer Science). I must thank the companies that have instilled implicit faith in our students during and beyond the recruitment process. Also, we extend a special invitation to the new recruiters who are yet to catch a glimpse of our students for coming placements 2022-2023.

ESTEEMED FACULTY MEMBERS

"Wherever you find something extraordinary, you'll find the fingerprints of a great teacher." All of our professors possess high levels of wisdom and proficiency in their domains. Their assurances of making us understand everything have given us a lot to look forward to in our lives.

Professors

Prof. R. S. Yadav (HOD)
Middle Atmosphere & MST Radar, Microstrip antenna

Prof. J. A. Ansari
Microstrip Antenna, RF and Microwave Devices

Prof. N. K. Shukla Registrar
(Officiating Registrar Office)
Optical Communication and Networking, Optical Imaging and sensing, Optical Processing

Prof. R. K. Srivastava
Ad Hoc Networks, WSN, Computer Networks, Photoconductivity in II-IV Compounds

Prof. Tanveer J. Siddiqui
Information Processing, Computational Linguistics

Prof. Ashish Khare
Image and Video Processing, Computer Vision, Medical Imaging Applications of Wavelet Transform, Human Action Recognition & Behaviour Understanding Cyber-Physical Systems

Associate Professors

Dr. Rajeev Srivastava
Computer Architecture, CORDIC Architecture & Algorithms

Assistant Professors

Dr. Sudhakar Singh
Big Data Analytics

Dr. Mahendra Tiwari
Data Mining & Soft Computing

Dr. Richa Mishra
Image Processing, Artificial Intelligence

Dr. Vandana Rathore
Image Processing and Cryptography

Dr. Vinod Kumar
Cryptography, Information Security, Design and Analysis of Algorithms, Computer Graphics

Dr. Sudhanshu Kumar Jha
Parallel Algorithm design, Routing in WSN and Adhoc network, IoT

Dr. Pravin Kumar
Sentiment Analysis

Dr. Pooja
Evolutionary Algorithm, Optimization

Dr. Shiv Prakash
Algorithms & Artificial Intelligence

Dr. Rajesh Kumar
Computer Vision and Image Processing

ALUMNI PRESENCE IN THE WORLD

We have always felt a great sense of pride in the alumni of our institute and their remarkable achievements. March is the time to walk down memory lane with the complete family of J.K. in the annual alumni meet of the department where hundreds of alumni revisit their homes. It is an occasion to cherish the days that they spent here and express their gratitude for the priceless moments that they spent at the department.

For nearly 60 years, the alumni of the department have made a significant mark in their fields both in India and abroad. Lots of alumni of the department are holding Professor's posts in U.S.A and Europe or are associated with computer and communication establishments such as Philips, Alcatel, IBM, TCS, HAL, ITI, DoT, Railways of India, Tech Mahindra Bell Telephone, ST Microelectronics, IAP, MTNL, IIT, CEERI, ISRO and various DRDO labs. Some of them are entrepreneurs and are having their establishments in Singapore, the US, Japan and U.K.

Some Notable Alumni of the Institute

Sirish Kumar
PaaS Development Director,
Oracle India

Manoj Kumar
Senior Data Scientist,
Rakuten Mobile Inc.

Shailendra Singh
Sr. Manager Operations,
Reliance JIO

Alok Tiwari
Asst. Vice President Dy CTO - RF
Reliance JIO Infocomm Ltd (Delhi)

S.C. Mishra
former member Telecom
Commission

N. Panigrahi
Scientist G, DRDO

Vivek Tiwari
DGM, Raliance Jio, Patna

K.K. Bhutani
Former Professor & Director
UPTEC, Allahabad

Rakesh Chopra
CEO, Icon Resources Ltd

Madhukar Srivastava
CTO (Retired), L&T Smart World
& Communication

Pramod Pandey
Country Manager - Sales (TS),
HP India

Ajai Singh
Principal SOC Validation Lead,
Microsoft

Om Prakash Maurya
Sr. Technical Leader,
Cisco Systems (US)

Ratnakar Awasthi
Scientist G, DRDO, New Delhi

Rajeev Tripathi
Professor & Director, MNNIT Alld.

M.M. Agnihotri
GMTD, BSNL, Allahabad

Alok Singh
Professor, Computer Science,
Hyderabad University.

Sudhanshu Pant
CEO Mobilitas

Nitin Sharma
CIO & Head - IT, Modicare Ltd.

Rajendra Singh
Asst. General Manager - IT,
Pan India Ltd. (Essel Group Ltd.)

Manish Gupta
M.D. & Country Head - India &
SAARC, Liferay Inc.

Somnath Choudhari
Executive Director,
JP Morgan Chase & Co

Sibal Pal
Scientist G, DRDO

Rajneesh Agarwal
Director, STPI, Noida

Gyanendra Kumar
CEO, InfoTrust Singapore Pte. Ltd.

M.M. Gore
Professor, MNNIT Allahabad

Shikha Gupta
Director (OU) BEL

Sharnagat Srivastava
AAI, Allahabad

Some Notable Alumni of the Institute

Rakesh Puri
CEO, Infotech and Komnet Technologies

Rajneesh Agarwal
Director, Software Technology Parks of India

S T Abbas
Director (Training), DoT

Anand Ballabh
GM, as CTO, Ericsson India Ltd

Pawan Gangwar
Assistant Commissioner, Dept. Of Commercial Taxes

Debashish Banerjee
Solution Manager, Nokia

Rahul Tiwari
Senior Manager, Morgan Stanley

Alok Ranjan Srivastava
Senior Software System Designer, AMD

Upendra Chhipa
Senior Engineer, Qualcomm

Arya Akhil
Lead Data Scientist, dunnhumby

Prabodh Kumar
Join Director, CBI

Alok Sukla
OSD to Chairmain & DG, Unique Identification Authority of India

Sanjai Kumar Gupta
General Manager, RailTel Corp.

Atul Kumar Sharma
Deputy General Manager, HCL

Om Prakash Maurya
Technical Leader, Cisco Systems

Ram Pravesh
Deputy General Manager, Nokia

Mohit agarwal
Backend Engineer at CRED

Shubhi Tiwari
Software Sr. Engineer, Dell R&D

Abhishek Harshvardhan M.
Technical Lead, Intel

Saurabh Verma
Database Lead Engineer at FICO

Shantam Srivastava
IC Design Engineer, ADI

Amitabh Dubey
Senior Director, PTC

Mitali Chatterji
Director, Door Darshan

Prachish Khanna
Director Establishment, DoT

Anami Pandey
General Manager, ATC

Sharad Bhatt
General Manager - TAC, Tata Teleservices Ltd.

Ripudaman Singh
Hardware Design Engineer, Apple

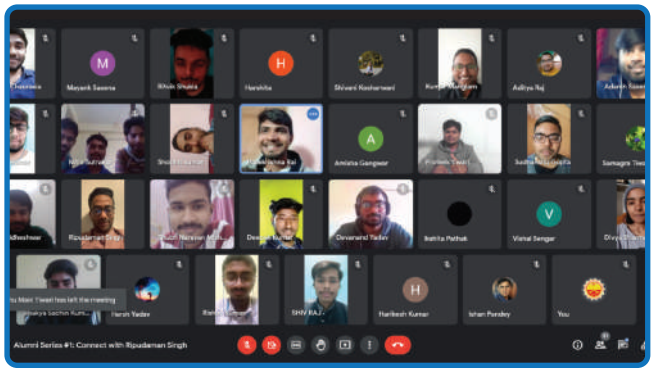
Aditya Prasun
Project Manager, Microsoft

Swati Garg
Senior Design Verification Engineer at Qualcomm

Shubham Singh
Software Engineer, Qualcomm

Kulbeer Singh
Development Lead, Creativemass, Australia

Alumni Meet 2022



Alumni Meet 2020

Alumni Meet 2014

Alumni Meet 2016

PROGRAMMES OFFERED

Bachelor of Technology (B.Tech.) in Computer Science & Engineering (CSE) + Electronics and Communication Engineering (ECE)

The Bachelor of Technology programme is offered in Electronics & Communication and Computer Science Engineering. The eight-semester programme aims at a strong grounding in the respective fields of engineering with a strong emphasis on core fundamentals and practical exposure. The curriculum also includes a project which aims at inculcating a sense of original research and gives exposure to cutting-edge research being undertaken at the institute. The number of intakes is 45 in each branch, ECE and CSE

Curriculum

Core Subjects

CSE

Discrete Mathematical Structure
Theory of Computation
Software Engineering
Database Systems
Data Structure
Design & Analysis of Algorithms
System Programming
Compiler Design
Operation System
Computer Graphics
Object Oriented Methodology
Operational Research
Artificial Intelligence
Multimedia Technology
Computer Control of Process
Simulation and Modelling
Data Comm. & Computer Networks
Distributed Computing
Image Processing
Mobile Computing
Fault Tolerant Computing
Embedded Systems
Advanced Computer Architecture

ECE

Engineering Materials
Electrical Technology
Network Analysis & Synthesis
Semiconductor Device Physics
E.M. Wave Theory
Control Systems
Embedded Systems
Instrumentation & Measurements
Analog Circuits
Antenna & Wave Propagation
Power Electronics
Microelectronics
Fiber Optic Communications
Microwave Technology
Fiber Optic Communications
Information Theory & Coding
Microwave Technology
Digital Communication
VLSI Design
Mobile Communication
Radar Engineering
TV and Video Systems
Satellite Communication

Master of Technology in CSE & ECE

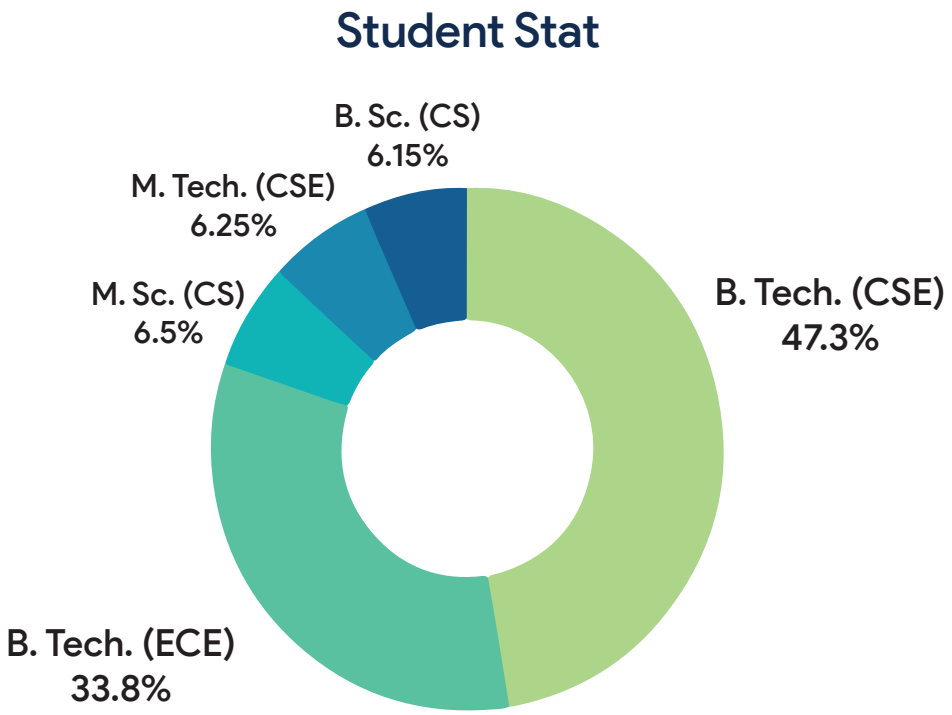
The program admits graduate students in various specializations in the field of Electronics & Communications. The program strikes a balance between coursework and research. The students are admitted based on their GATE scores. The number of intakes is 15 in each branch of Electronics Engineering and Communication Technology. Admission to M. Tech. Programs (ECE & CSE) are done through the score of the GATE Examination.

Bachelor of Science (Computer Science)

B.Sc. (Computer Science) is one of the subjects which is taught in the department. The other subjects are taught in the respective departments. One combination is Physics, Mathematics and Computer Science in which the intake is 100 students in a batch. The other combination is Mathematics, Psychology and Computer Science. Another set of students is admitted to the vocational course in Computer Maintenance.

Master of Science (Computer Science)

M. Sc. (Computer Science) is a two-year (four semesters) programme that ropes in the very best of the computer science graduates and nurtures them to provide for excellence in their respective fields. The intake is 45 students.



FACILITIES & RESOURCES

Library

With over 10,000 books and journals, University library is one of the biggest in entire region.

Auditorium

With the seating capacity of about 200 peoples, several technical and non-technical events are hosted in the auditorium round the year.

Computer Lab

Computer Lab is well equipped with 100+ high-end computer systems connected through high speed internet

Electronics Lab

Department has 8+ different lab devoted to the study of the various subjects of ECE

Ground

Both football ground and cricket ground are used to host our SWAT CUP, Techno Cup & Avirbhav

GD Room

GD Room is well-equipped to provide apt environment students to conduct GDs.

STUDENT'S ACHIEVEMENTS

"Education is the passport to the future, for tomorrow belongs to those who prepare for it today." Within a limited time frame of the course, our students go through a phase of limitless exploration which makes them stand out as an achiever not only in academics but also in their professional life. Our students have been selected for various student-oriented programs like the Google Summer of Code, Microsoft Engage, etc. They are working in DRDO Labs, Infosys, and other organisations such as IndiaMart, Morgan Stanley and Microsoft.

GSoC

Aditya Siddheswar's proposal was accepted by Processing Foundation in GSoC 2020

GATE 2022

A total of 37 students qualified for GATE 2022, out of those students, the top 3 rankers are:

Rishabh Singh	AIR 17
Ayush Singh	AIR 160
Trayambak Tiwari	AIR 230

Achievements in Student Programs

Hare Krishna Rai got selected in Azure Developer Community, CNCF Prayagraj & currently serving as AZ Lead in the community.
Kritika Joshi got selected for Google Women Engineer'22

International level Certifications

8+ students from JKIAPT have got certifications in Azure (AZ-900, DP-900, AZ-204, AZ-104 etc), AWS, RHEL (RHCSA, RHCE) and still counting.

Placement Stats

Hrishabh Awadhiya	IndiaMart
Mayank Saxena	IndiaMart
Shataxi Dubey	IndiaMart
Tirupati Raman Mishra	IndiaMart
Yash Gupta	Monotype
Prince Tiwari	HCL
Anuj Shrivas	HCL
Akash Nager	HCL
Siddhant Singh	HCL
Ashutosh Mishra	HCL
Satyendra Singh	Forcebolt Pvt. Ltd.
Prateek Srivastava	Mphasis Ltd.
Suyash Srivastava	Mutual Mobile

Publications & Research Papers

More than 300 research papers in high level internal Journal/conferences.
Actively involved in research programmes

PAST RECRUITERS

The JKIAPT has achieved an excellent placement record with the bars rising effectively over the past few years. JKIAPT students have always shown incredible performances by getting placed at the finest organizations in India which majorly includes HCL, DRDO, TCS, EXL etc. This year also our students have shown their talents by grabbing internships at different organizations such as DRDO, Airport Authority of India, Indiamart, HCL etc.

Center for generating manpower in Computer Science (software).

- DRDO

IndiaMart

HCL

EXL

TCS

DRDO

AAI

BSNL

AIRCOM

C-DOT

FISERV

IBM

INFOGAIN

ISRO

LIFERAY

MOTOROLA

RELIANCE

TechMahindra

Yahoo India

CULTURE OF LEARNING & CLUBS

ENTWICKLERSX

1

Entwicklersx is a tech-oriented club of JKIAPT focused to train & teach budding minds in the field of **DevOps, Cloud Computing, Cyber Security, Machine Learning & Artificial Intelligence.** Currently, 150+ budding minds are making efforts in the club. Till now, EntwicklersX organised 20+ workshops & seminars in the last academic session (including both online & offline events).

E-Code

2

The E-Code Club provides guidance and mentorship to students who are new to the world of programming. An umbrella club under EntwicklersX; this club focuses on providing the 'Lego Blocks' to excel in the field of competitive programming and development. The club aims to create a community of programmers and developers, who can guide and support one another to achieve great heights in hard-core programming.

JK Robotix

3

JK Robotix is aimed toward collaborative learning in the field of robotics and related stuff. The events conducted by this club drew the confluence of computer science and engineering. It includes activities such as balloon fights, robot races, and line following. The robots are created and assembled right away. In on-field competition rounds, the participants programme and operate the robots remotely.

MANASVIN

4

Manasvin is a Hindi word meaning "full of mind and intellect". This club is home to all the cultural and literary activities, from dance to debate and group discussions. It provides a platform for students to exhibit their talents multi-dimensionally. From artists to instrumentalists, this is the one-stop point for everyone to hone and showcase their hidden talents.

Manasvin aims to teach the students to balance their academics along with their hobbies and also to find an individual within themselves.

5

Azure Developer Community

Azure Developer Community - Prayagraj Chapter

The Azure Developer Community is aimed at upskilling those who are interested in learning new technologies and enhancing their skill. The Community conducts Workshops, Seminars and quizzes based on the advancing technology, both on-campus and virtually, thus creating a community of active learners and enthusiastic young professionals.

CNCF Prayagraj - Prayagraj Chapter

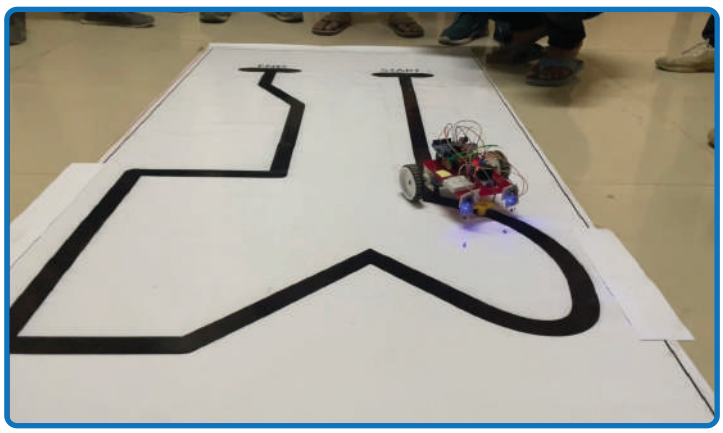
6

The Cloud-Native Computing Foundation, a sub-foundation under the Linux Foundation, launched the CNCF Prayagraj Chapter, in collaboration with CNCF Durg and CNCF Navi Mumbai, to promote the adoption of cloud native technologies. The launch event was addressed virtually by Bill Mulligan [Marketing Manager, CNCF].

The events conducted by the community include the HacktoberFest Guidance seminar and other open-source contribu-

CLOUD NATIVE COMPUTING FOUNDATION

Coding competition (E-Code Club-sponsored event)



Black Walker (during robo competition)

The Fiesta & The STUDENTS

SWAT CUP

1

"All work and no play makes Jack a dull boy". The gravity of this statement can be seen in the Soccer Tournament of the JK Institute of Applied Physics and Technology, where the students of all batches actively participate in the 3-day event in September-October. The vigorous practice sessions and challenging matches infuse zeal and passion, making the students physically fit and dynamic for various challenges ahead.

EXUBERANCE

2

Freshmen's welcome ceremony is organised by second-year students every year. In exploring the hidden talents of each new student joining JKIAPT, exuberance leaves no stone unturned. The fest marks the onset of bonding between seniors & their fresher counterparts. Besides getting well acquainted with the campus environment, they also receive necessary junior-senior interactions. All participants put their hearts & souls into winning the coveted trophies.

SMASH 'n' FLICK

3

Also at JKIAPT, an annual smash and flick event is held in which indoor sports such as badminton, which is played amongst all the batches which contain men's singles, women's singles, men's double, women's double, and mixed doubles.

TECHNO CUP

4

The eternal love for the sport of cricket among both students and staff can be sensed in the Techno Cup organized in February. Teams of Students and Staff from J.K. as well as from neighbouring colleges like MNNIT, IERT, Sambhunath and UNITED play matches and perform marvellously.

ALGAAV

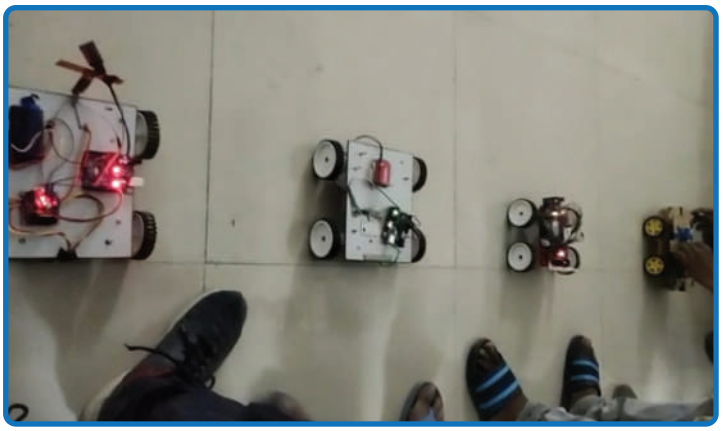
"Farewell! God knows when we shall meet again".

- William Shakespeare

A nostalgic moment for everyone as we say goodbye to our final-year students. Our celebration of this moment lasts all day. As the event comes to an end, the best wishes go out to all students who are about to make their mark on the world.

AVIRBHAV - Flagship Annual Fest of JKIAPT

Avirbhav: Fiesta for Renaissance - the college's annual fest - is known for its brilliantly organised nature. During the fest, holistic development is fostered, team spirit is promoted, the mind is detoxified and the spirit is liberated. Five days of sports, academics and formal and informal events conclude in an exciting cultural evening as the event is inaugurated with a cause-oriented marathon. Student organisers organise the festival themselves, with many organisations sponsoring it. To break free from the monotonous life of a student, Avirbhav presents a platform every year.



Robo Race and Robo war

6 KM Marathon

Coding & CTF Competition

Last Day - Stage Competition

PLACEMENT HEAD

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Student Placement Team

Prem Narayan	Sagar Biswas	Yuvraj Biradar	Gyanesh Singh	Shivani K.
Nikhil Kadam	Unnati Mishra	Deepak Kumar	Anjali Bharti	Divya Sharma
Bhavya Singh	Abhay Pandey	Kritika Joshi	Parth Verma	Rituraj Dubey

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