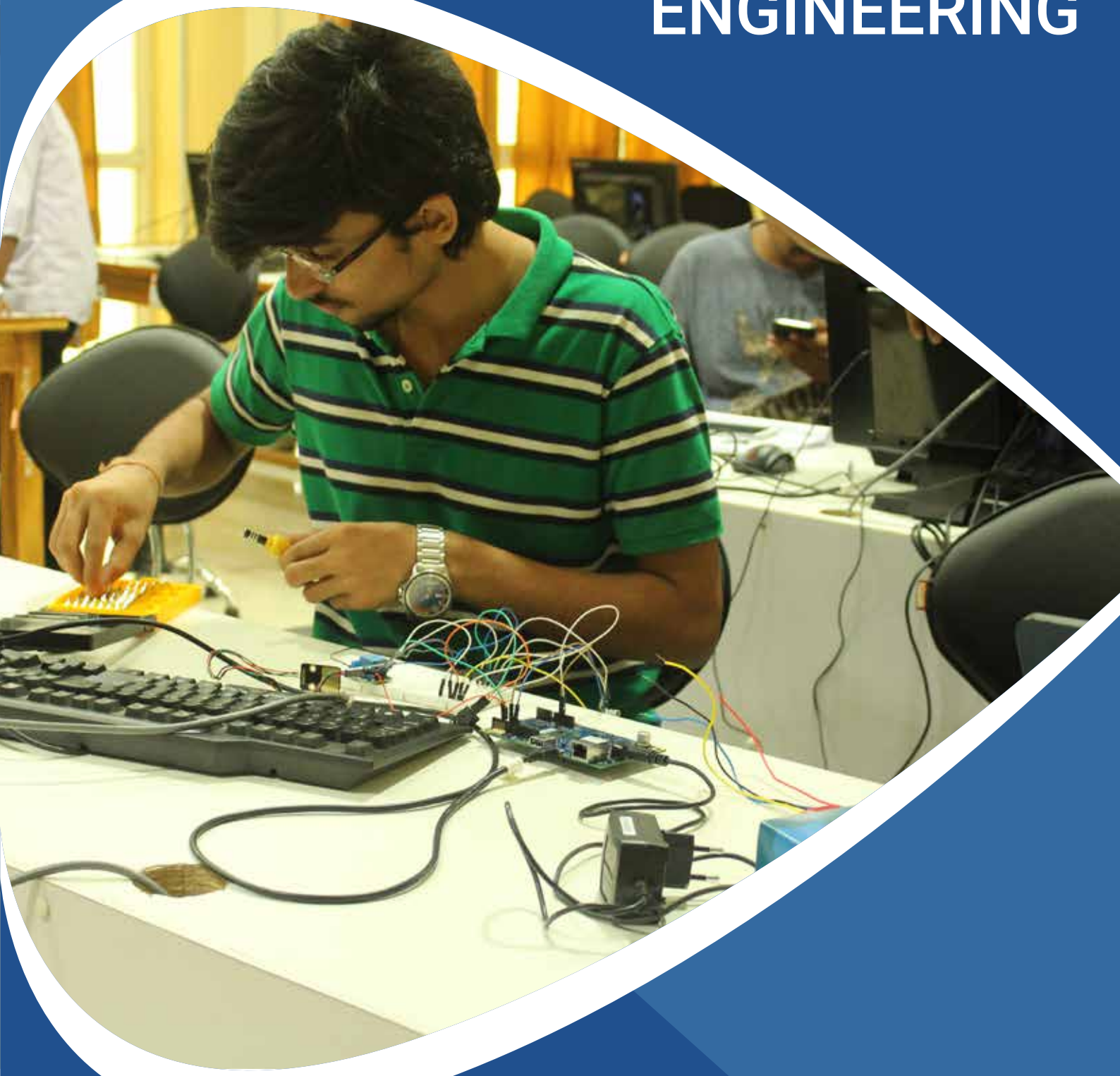
KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

Deemed to be University U/S 3 of UGC Act, 1956

SCHOOL OF ELECTRONICS ENGINEERING



SCHOOL OF ELECTRONICS ENGINEERING

About KIIT

Established in 1992 and opened five years later as a centre for higher learning, KIIT University is today one of the most prestigious universities in India. Its commitment to teaching excellence led to the grant of university status under Section 3 of UGC Act, 1956 by the Ministry of Human Resources Development, Govt. of India in 2004, within only seven years of its inception. It serves more than 27,000 students through its 19 Schools imparting globally recognised bachelor's, master's and doctoral degree programmes in 100 plus disciplines, spanning engineering, medicine, management, biotechnology, law and more. Recognising the University's high standards, the Govt. of India in the Ministry of Human Resource Development has conferred 'A' Category status to it. It has been reaccredited by NAAC with grade 'A', placing it among the top ranking universities of the country. High national standing of the University is bolstered by the NBA accreditation under Washington Accord to its five B.Tech programmes.

About Founder

Achyuta Samanta, after obtaining Master's Degree in Chemistry in 1987 from Utkal University, started his career at 22 years of age. He has 30 years of teaching experience to his credit so far.

Prof. Samanta went on to serve KIIT as its first Chancellor and has had the distinction of being the youngest Chancellor of any Indian University. He served University Grants Commission (UGC) as Member for two consecutive terms (2008-11 & 2011-2014) and was a Member of the Executive Committee of All Indian Council for Technical Education (AICTE). He was also member of several other Government of India bodies like, NCTE, ISTE, ISCA, COIR BOARD, CAPART and many more. He has been a Member on the Academic Council of Central University, Silchar, Assam and the Central University, Odisha. He was the first Indian to be Member of both UGC and AICTE simultaneously and the first Odia to become Member of UGC and many other statutory bodies. Presently, he is the General President of Indian Science Congress Association (ISCA). He has delivered nearly 100 motivational speeches, including convocation addresses and foundation day lectures, in different institutions and organizations across the country and the globe.

About The School

School of Electronics Engineering aims to produce electronics engineering professionals to lead a successful career in industry, to pursue higher studies and/or entrepreneurial endeavors. Graduates of the School are versatile, adaptable and possess analytical capability to offer techno-commercially feasible and socially acceptable solutions to real life engineering problems in the field of Electronics & Telecommunication, Electronics & Electrical and Electronics & Instrumentation. The School has been involved in teaching and research activities in diverse aspects of Telecommunication, Microelectronics and VLSI, Signal Processing, RF and Microwave, Instrumentation Engineering. The classroom studies reinforced by well equipped laboratories for the students to nurture their ability to handle real life problems. The Programs in the School are supported by updated curriculum to keep pace with rapidly changing technology. The School, which has a qualified and experienced team of faculty members, conducts regular workshops, conferences, seminars and invited talks.
The School is actively engaged in R&D activities and in course of time, projects have been sponsored by Dept. of Atomic Energy, Defence, DST, AICTE, Etc. Some of the recent sponsored projects undertaken by the School are in the area of solar energy

Vision

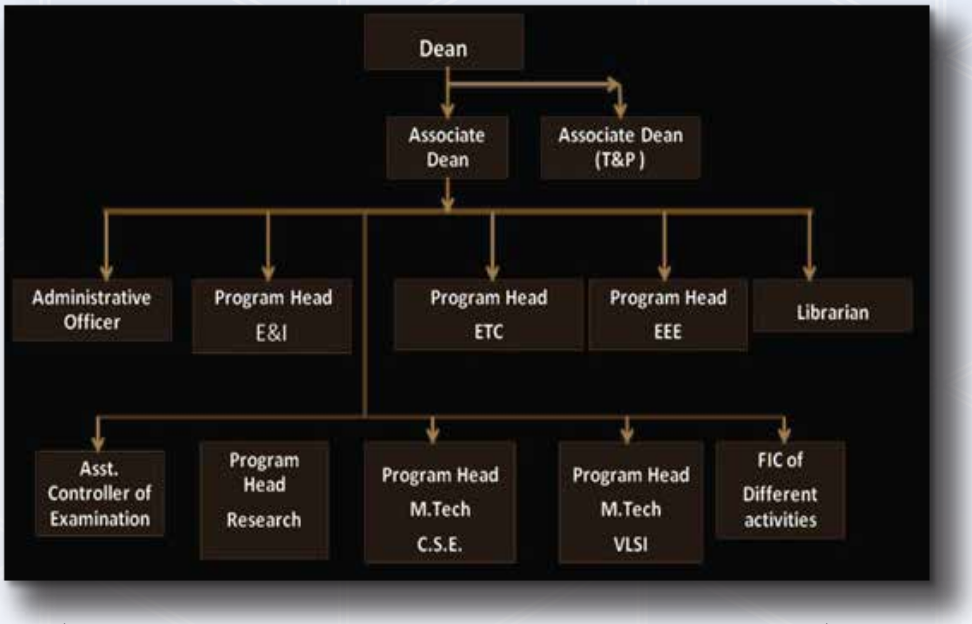
To deliver world-class education and research in Electronics Engineering, with particular regard to their application in industry, healthcare and commerce in a diverse society.

Mission

•To prepare students for professional career, higher studies or entrepreneurship.
•To facilitate students to utilize fundamental technical knowledge and skills in Electronics engineering, to analyze and solve problems, and apply these abilities to generate new knowledge, ideas or products in academia, industry or government.
•To encourage and facilitate students, to involve themselves in high end research work through continuous learning, to build skills beyond curriculum.
•To integrate training in engineering principles, critical thinking, hands-on projects, open-ended problem solving to build up creative abilities and research spirit.
•To impart the essential skills of leadership, teamwork, communication and ethics so that they can interact and communicate effectively (written and/or oral) with others (e.g., supervisor, client and/or team).
•To engage students with alumni, industry, government, and community partners through outreach activities in order to inculcate global perception.

Administration And Operation

The School is governed by a Board of Management with its Chancellor, Vice Chancellor and Registrar of KIIT University.
Dean is the executive head of the School. He chairs the committee, and he is an authority on all academic matters, and is also a Member of the Academic Council.
The Associate Dean (Academic) for Academic Programmers, Students Affairs, Faculty Affairs; Associate Dean (Training & Placement) for Alumni & Corporate Relations; Administrative Officer (Administrative Affairs, Infrastructural Planning & Support Affairs, Finance & External Affairs) assist the Dean in his executive roles.
The Academic Council comprises all the professors of the School and a few nominated members. It is responsible for controlling the maintenance of standards of instruction, education and examinations and other allied academic matters.
The Board of Studies comprising eminent personalities from business, industry and academia, which reviews and makes suggestions on long-term policies and short-term goals.



(Organogram School of Electronics Engineering)

Academic Programmes

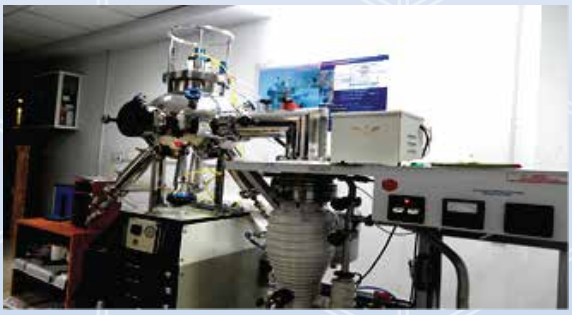
The programmes and courses offered at the School have the flexibility to evolve and change in response to new requirements. They serve the dual purpose of building a solid foundation of knowledge and of enhancing confidence, creativity and innovation in its students.
A unique attribute of School's academic structure is the autonomy enjoyed by faculty in designing and structuring courses and curriculum. All courses, however, need to be

approved by the Academic Council. A favourable student-teacher ratio ensures productive, personal contact between the student and the teacher.
Finally, choice based credit system offers flexibility to students to progress at their own pace. This system ensures an academic programme which is dynamic, constantly evolving and which reflects the School's commitment to stay in tune with the expanding frontiers of knowledge worldwide. The School offers B.Tech, M.Tech and Doctoral Programmes.
At present, undergraduate, postgraduate and doctoral programmes are offered as follows;

+ **B.Tech in Electronics and Telecommunication Engineering**
+ **B.Tech in Electronics and Electrical Engineering**
+ **B.Tech in Electronics and Instrumentation Engineering**
+ **M.Tech in Electronics and Telecommunication Engineering**
  Specialization in Communication System Engineering
  Specialization in VLSI Design & Embedded Systems
+ **Doctorate in Philosophy (PhD).**

Faculty And Research

School believes in delivering quality education through a dedicated and committed team of faculties. At this point of time the School have a strong and dedicated team of faculty members drawn from premier institutes such as IITs, NITs and other institutes of repute. Apart from classroom teaching faculties are involved in publication and interacting with outside world on a frequent basis. The School places special value on the diversity of knowledge among scholars who increasingly apply a depth of expertise
in their fields to interdisciplinary challenges that cross traditional academic boundaries. Faculties encourage and participate in various extracurricular activities such as NSS, NCC, various techno managerial societies. The faculties as well as students are pro actively involved in research and development in various fields. One of the key goals of the school is to provide an ambience in which higher studies and research thrives among the students and faculty.
The Centre for Innovation & Research is responsible for fostering the overall R&D growth of the school, by facilitating interactions with external agencies, and promoting and managing interactions between the school and the industry.



The school undertakes R&D projects in various areas of specialization. Presently the research focus of the School is mainly focused on the following thrust areas:

Signal and Image Processing
Signal Detection and Estimation.
Mixed signal Analysis
Solar Energy Photovoltaic
VLSI & Embedded systems
Electronics Devices
VLSI design
Wireless and Mobile Communication
RF and Microwave engineering
Optical communication

RECENT HOT RESEARCH TRENDS

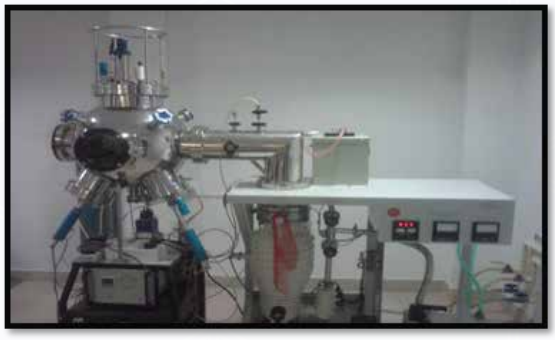
Internet of Things
Social, Mobile, Analytics & Cloud.
Media & Applications

Research Laboratories and Facilities:

Thin Film Photovoltaic Lab:

Research Facilities available in this lab are

DC/RF Sputtering System, Vacuum Coating Unit, High Speed Ball Mill ,Keithley Source Measure ,Unit, Solar Simulator-SS 150, UV-VIS Spectrophotometer , X-ray diffraction-6100 , LCR Meter 4908A (Agilent), Hall measurement System , RTP furnace (MTI,USA), Co-evaporation system.



Design & Thinking Lab

Since the very conception of Design & thinking Lab of School of Electronics Engineering in 2015 the Lab has witnessed many milestones achieved in the field of Internet of Things (IoT). The lab is functioning in collaboration with two industry giants namely Texas Instruments: Innovation Lab and Intel. The Lab is currently equipped with numerous Intel® Galileo Development Boards, Sensor Kits and Communication Modules like Intel centurion, ESP8266 WLAN Modules and GSM Modules. Students guided by faculty members of schools are working on various prototyping projects inspired by the latest trends in the Fields of Internet of Things (IoT).
Two Training programs have been successfully conducted for students in IoT in the month of Feb and May 2017 in collaboration with Intel®. The training program has been appreciated by students of our school even outside school.
Apart from training program, students are working on various embedded platform like Raspberry Pi, Arduino and various sensors and Networking devices to develop prototypes in the era of Internet of Things (IoT).
A team of young energetic faculty members are taking the front seat to motivate and guide students in the field of Internet of Things (IoT).

NI Centre of Excellence (NI Innovation Centre):
Research Facilities available in this lab are
National Instruments (NI) Lab View software, Instrumentation, signal processing, Communication, VLSI, PXIe system for Image & Video Processing ,CRIO, USRP for Communication and Signal processing, My Rio and DAQ cards for control system design and IoT Applications.

Microwave Simulation Lab: IE3D Simulation Tool
High Frequency Simulation & Fabrication Lab: Ansoft HFSS 14.0,
Wet Etching Micro strip Fabrication

Laboratory Details:

Apart from specific labs like NI Innovation Centre and Thin Film Photovoltaic Lab, all the labs are dedicated to provide adequate platform for research for both students and scholars. The Laboratories of our school are as follows;

Basic Electronics Lab
Analog Electronics Lab
Digital Electronics Lab
Digital Signal Processing Lab
Microprocessor and Microcontroller Lab
VLSI Lab
Embedded Lab
Control and Instrumentation Lab
Process Control Lab
Communication Engineering Lab
Advance Communication Lab
Wireless and Networking Lab
Microwave and Antenna Lab
Design and Thinking Lab

School Library

The Library of School of Electronics Engineering offers library and information services to both B. Tech and M. Tech students, research scholars and faculty members of the school. The library has a huge collection of text books, reference books and Journals. The Library operates in 24×7 mode access to all the students and faculties.

The library in the School is one of the best technical libraries. It hosts an impressive collection of academic resources in the form of books, journals, research papers and electronic journals on a variety of subjects including science, technology, humanities, social sciences and management sciences. It houses a large number of full-text electronic journals, online databases and Electronic Theses and Dissertations (ETD). The web-based library catalogue is accessible from anywhere on the campus' Local Area Network. The library has an online catalogue equipped with a global catalogue search. The library also offers video-viewing facilities.

The Library has the following facilities available which provides best ambience for innovation and improvement:

o Area of the library :5790 Sq ft. (538 sqm).
o Reading Room area: 3600Sq ft
o Seating Capacity: 240
o Total Collection of Books: 12950
o Books in Reading Section: 3031
o Books in Circulation Section : 9919
o Total Titles: 4123
o Periodicals: 32

Besides, the library facilitates online access to all of the E-Journals subscribed by KIIT university namely,

- IEL online
- Science Direct
- IEEE
- J-Gate
- Pro-Quest
- JSTOR
  - o Scopus (Indexing database),
  - o E-Brary (containing e-books)
  - o Turnitin(Anti-plagiarism tool)

Innovation And Best Practices

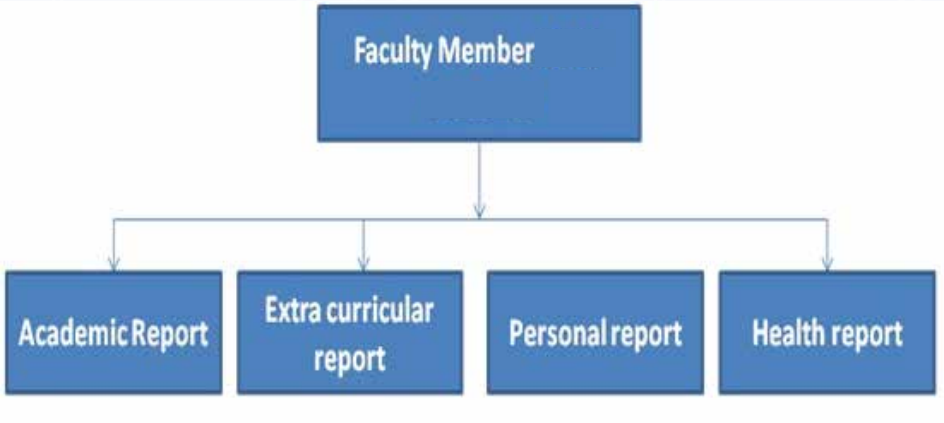
o Medical and Life Insurance to all the students during admission.
o Enriching students for National and International level competitive exams like GATE, GRE, GMAT, UPSC (IES,IAS) and many more in collaboration of CAAS(Career Advisory and Augmentation Services) and School of Leadership.
o Empowering staff members by frequent skill up gradation and training programs.
Choice based credit system and industry oriented courses offers flexibility to students to progress at their own pace.
o Extended support for students outreach activities, such as there are 24 Student Societies and active participation for NCC, NSS camps.
o Active participation of students in Governance mechanism of the School through memberships in various committees.
o Promoting e-Governance though implementation of SAP.
o Active participation of students in community development by creating awareness of "Swacch Bharat" campaign, etc and also giving lectures to the students of KISS, a school for indigenous children.
o Active participation of students in TBI (Technology Business Incubator) which helps to realize their dreams as an entrepreneur.
o Hands on experience of the students in conducting live projects.
o Completely barrier free and eco-friendly campus.

The Student Prospective

SCHOOL OF ELECTRONICS'S VIBRANT CAMPUS COMMUNITY COMES NOT ONLY FROM THE DAILY ENGAGEMENT OF ACCOMPLISHED STUDENTS AND RENOWNED FACULTY,BUT ALSO FROM THE EXTRAORDINARY ENERGY, TALENT, AND CULTURAL DIVERSITY THAT DEFINES KIIT UNIVERSITY

The School of Electronics Engineering provides a very vibrant and unique environment to all its students for all round development. Our students excel in all co-curricular and extra-curricular activities in India and abroad. This reflected in our campus placement records, which keep on setting a higher bar for itself every year. School of Electronics Engineering is also having a brilliant track record of sending students for higher studies in top notch institutes from India and across the globe. The vast alumni strengthen the School reputation in Industry and academia.

This herculean task is achieved due the unique initiative taken by university i.e. "Tutor-Mentor Program" which provides a distinctive platform to the students to share their problems to the faculties and solve them with the help of the experience of the faculties. The program is very well structured in which Each faculty is associated with a group of 30-35 students. The faculty acts as single point of contact for these students. Each faculty maintains reports of the student and these reports are sent to the parents of the ward on a regular basis. The problems of students are addressed by the respective tutor mentors every now and then.



(Tutor-Mentor Program Structure)

The Student Experience

The School of Electronics , KIIT University has a number of student organizations that are as diverse as its student body. Whether you are looking to explore a new activity or want to find students who share your current passion, you have a wide range of clubs from which to choose. Here are just a few:

Dramatic Society
National Service Scheme(NSS).
Classical Music Club
Rock Bands
Robotics Club
Aeronautical Society

Training And Placement Activities

The School has an active Training and Placement Cell headed by an Associate Dean (T&P) who reports to the Dean, School of Electronics Engineering and Dean, Central Training and Placement cell. The School of Electronics has a proven track record of over 95% successful placements of the students in different renowned National & International companies. This cell has been organizing various seminars and symposiums in association with Industry primarily for graduates and post graduates of School, like National Instruments, Texas Instruments, Oracle, CISCO to name a few. We are also trying to forge ties ups with various active societies like IET, ISTE, INCOSE, HAM Radio Club and Small Scale Satellite program in association with Dhruva Space to name a few. Moreover students are encouraged to take up various global certificates from companies like Microsoft, Oracle, CISCO, RED HAT, NOKIA, COMPTIA, EC Council, IBM and PMI to name few.

Global Outreach Programmes

The School strives to reach out beyond its student community to the larger society that exists beyond its walls. This reflects the institute's inherent philosophy — to teach what we know and share what we have, for mutual benefit. As such, the school engages in several activities to reach out to the academic communities at national and international levels. In this regard, its major activities are the student and the faculty exchange programs with universities across the globe.
Continuing education and quality improvement programme

Under the Quality Improvement Programme, training is imparted to teachers from other institutions to facilitate them in obtaining their Master's and Ph.D degrees. About 20 teachers take the benefit of this service every year. Short, intensive courses are conducted under the Continuing Education Programme for the enhancement of expertise of working professionals in industry and government. 'Open' courses cater to a wide variety of professional interests, and are open to professionals from any industry. 'In-house' courses are conducted for providing specific, customized training and for extended learning, to meet the needs of a particular group from an industry.

List of major recruiters who have visited are as follows:

RECRUITER'S	AREA (CORE/IT)
L&T ECC	CORE
TATA STEEL	IT
TCS	IT
WIPRO	IT
ACCENTURE	IT
PATNI	IT
CAPGEMINI	IT
HCL TECHNOLOGIES	IT
MAHINDRA_SATYAM	IT
SYNTEL	IT
ADANI	CORE
WIPRO-VLSI	IT
DELOITTE U.S. INDIA	Core
ACCENTURE	IT
SIEMENS	CORE
MU-SIGMA	IT
HCL INFOSYSTEM	IT
GENPACT	IT
SAP LABS INDIA	IT
HP	IT
TCS	IT
GYANSYS	IT
UST GLOBAL	IT
TRIDENT GROUP	IT
TATA POWER	CORE
iNautix Technology	IT

Facilities in and Around Campus :

Computer and Internet

The computer centre provides computational facilities to users in the School. Accounts are given on the high-end computational server to all faculty members, students and staff. The centre also administers the computer network and internet links. The campus-wide fibre optic network provides a high-speed backbone. Connections are provided to all faculty blocks and individual rooms in the hostels.
Conference Hall, Auditorium and Open Air Theatre
Well-equipped, air-conditioned conference hall, auditorium and lecture theatres facilitate the organization of workshops, lectures, conferences, which are regular events on the campus.

Hospital

KIIT University has an in-house 1500 bedded super specialty hospital i.e. "Pradyumna Bal Memorial Hospital" with facilities to take care of all general health issues of residents. Apart from the resident doctors, it also has specialists including ENT, surgeons, orthopaedics, neurologists, etc. It has well-equipped diagnostic laboratories to conduct all types of medical tests.

Guest House

Set in the University's scenic view is the guest house. People visiting the school — academic guests of the school, parents of students and alumni reside here during their stay. The only requirement is to book well in advance.

Students Activity Centre (K-SAC)

Souvenir items like t-shirts, mugs, tea coasters, bags, etc are available at the Alumni Association souvenir shop located within the K-SAC which is adjacent to the school

Life On Campus

One of the most distinctive characteristics of the school is its close-knit and integrated residential community. Housing is guaranteed for all students, allowing for a blending of academic and residential life. This residential experience offers its students a supportive and enriching environment, full of opportunities for personal growth.
A vast range of cultural, educational, athletic and social activities is available to KIIT students, faculty and staff. The quickest way to get involved in campus life is to become a part of the institute community, and to create one's own experience.

Sports, culture and leisure

Students here do much more than only study. There is ample opportunity to nurture all kinds of talent in students. There are excellent recreational facilities for sports, including gymnasiums, a swimming pool, courts for tennis, basketball, volleyball, hockey, football and cricket, athletics tracks and much more. There is an annual University-level cricket gala "KPL" (KiiT Premiere League), an extremely popular event organized by the University.

Facilities for sports are matched by those for cultural activities, which include film clubs, classical music societies, a debating club, a literary society, the drama club, the fine arts club, the dance club, as well as the music club.

Students are also enthusiastic participants at the Science club, bringing the fun back into science and scientific hobbies. There is an Aero modelling club, an electronics club and Krittika organized by a group of students that coordinates all technical activities on campus. There are amateur astronomers, radio operators, designers and builders of model aeroplanes, race cars and satellites.

The students also produce Kritansh, a magazine that keeps students up-to-date on campus happenings.

Intra and Inter-hostel activities

The co-curricular activities for students are organized by the student's and are held at the Students Activity Centre (SAC). These activities can broadly be classified into cultural and sports. There are inter-hostel athletics, football, basketball, badminton, tennis, table-tennis, volley ball, kho-kho, chess, and carom. Competitions in music, drama, literature, debating, photography, fine arts, etc. are also held.

KIIT-fest

Come March, KIIT University, Bhubaneswar turns into the Mecca for all technology enthusiasts in the country. It is the season for Tech-fest, the annual technology festival of KIIT. 30,000 students from over 1,000 colleges spread across India and countries throng the campus to experience the extravaganza . Held in March for three days, it has grown into a mega-event which draws thousands to the campus. KIIT-fest provides a platform for a confluence of the industry, academia and students. Events in KIIT-fest include a combination of lectures, competitions, exhibitions and demos of the latest innovations in technology. It draws participants from across the globe.

Alumni

The School recognizes its alumni, who have distinguished themselves through their work and done the institute proud. The Distinguished Alumnus Awards have been instituted for this purpose by University. The School also involves the alumni in its educational and research activities whenever possible, by inviting them to participate on its advisory boards as visiting faculty or as guest speakers. The office of the KIIT Alumni Association is housed on the first floor of the K-SAC Building, Campus-13. Details about alumni achievements and initiatives are available at http://kiitalumni.com/.


FRIENDSHIP

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