

DEPARTMENT OF INFORMATION TECHNOLOGY



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VISION

The Department of Information Technology pledges to educate students with conceptual knowledge and technical skills to forge ahead in the field of IT, while inculcating deep moral and ethical values to achieve excellence, by providing a vibrant academic and research environment in collaboration with industry.

MISSION

1. To inculcate in students a firm foundation in theory and practice of IT skills coupled with the thought process for disruptive innovation and research methodologies, to keep pace with emerging technologies.
2. To provide a conducive environment for all academic, administrative and interdisciplinary research activities using state-of-the-art technologies.
3. To produce graduates and doctorates, who will enter the workforce as productive IT engineers, researchers and entrepreneurs with necessary soft skills, and continue higher professional education with competence in the global market.
4. To enable seamless collaboration with the IT industry and Government for consultancy and sponsored research.
5. To cater to cross-cultural, multinational and demographic diversity of students.
6. To educate the students on the social, ethical, and moral values needed to make significant contributions to society.

ABOUT THE DEPARTMENT

The Department of Information Technology was instituted in the year 2001 with the objective of imparting knowledge in cutting edge technologies in Information Technology. The resources in the department are continually updated with the changing industrial trends. The department has well equipped laboratories with facilities that are vital to train the students in state-of-art technologies. The department was accredited by NAAC and NBA and supported by DST FIST. This department organizes several workshops, seminars and Faculty Development Programs for the benefit of the society.

UG & PG PROGRAMMES OFFERED

- B.TECH. Information Technology
- M.TECH. Information Technology
- Ph.D. (Full Time & Part Time)

MAJOR THRUST AREAS

- Computer Vision
- Multimedia systems
- Mobile Communication & Computing
- Data Analytics
- Internet of Things
- Artificial Intelligence & Machine Learning
- Distributed and Cloud Computing
- Computer Network and Information security
- Augmented/Virtual Reality

PROGRAMMING LAB I

The Lab is equipped with highly configured systems to learn about the varied operations of the Microsoft Office tools and to practice the various programming languages like C, C++, Java etc. This lab has 58 Computers with Intel Core2 Duo Processor, Database Server and the Qualnet Server and various open source software like Centos 5.5 / 7 OS, ORACLE 12C Database Client Software, Netbeans IDE 8.2, Eclipse IDE, Centos 7 OS, Android Studio, Java SE JDK 1.6 / 1.7 / 1.8, Keil U Vision, Xampp, Matlab R2019a, Lampp for Linux OS, Network Simulator 2.0, Turbo C & C++, Dev-CPP 5.11, Code Blocks 20.03



PROGRAMMING LAB II

The Lab is equipped with highly configured systems to learn about the varied operations of the Microsoft Office tools and to practice the various programming languages like C, C++, Java etc. This lab has 70 Computers with Intel Core2 Duo Processor, licenced software's like Windows 7 SP1 64-bit OS, Microsoft Office 2007 Qualnet Software and open source software like Netbeans IDE 8.2 Eclipse IDE, Android Studio, Java SE JDK 1.6 / 1.7 / 1.8, Xampp, Matlab R2019a, Lampp for Linux OS, Network Simulator 2.0 Turbo C & C++ ,Dev-CPP 5.11, Code Blocks 20.03 .



HARDWARE LAB

This lab is mainly used for the students for executing hardware related lab experiments in various subjects like embedded systems, digital logic design and electronics engineering lab. It has various equipment's like 8051 Micro Controller Kit with Interface (Digital IC Trainer kit, Digital IC Tester, CUDA Kit, ARM Trainer Kits CRO, APLAB /Scientific12V Regulated Power supply, Function generator, Voltmeter, Ammeter (Micro & Milli), VLSI/FPGA Trainer kit, FPGA Trainer kit, CPLD kit.



PG LAB

The Lab is equipped with highly configured systems for learning and implementing their project work. It also encourages students to focus on developing programming skills rather than programming languages. It is having 20 Acer Veriton Desktop Computer with Intel Core i5 Processor and various software like Windows 10 pro 64-bit OS, Ubuntu 20.04 LTS 64-bit OS, Microsoft Office 2007, Matlab R2019a, Netbeans IDE 8.2, Java SE JDK 1.6 / 1.7 / 1.8.



SENSOR NETWORK LAB

The Sensor Networks lab hosts a state-of-the-art experimental research facility for WSN. The test-bed facility is used for the prototyping and evaluation of developed protocol solutions and serves as a basis for the development of novel mobile context aware services and applications. This lab is having equipment's like Sensor Network Analyzer, Sensor i-mote, Environment Sensor, Wireless Test Bed and Computer, Cloud Server, 30, Intel Galileo Board, 5 Arduino Uno Atmega328-clone, 5 Arduino mega kit, 5 Raspberry pi starter kit, Gsm module, Gps interface, Bluetooth interface.



MEDIA RESEARCH LAB

Media Research Laboratory is partly funded by UGC. One of the research carried out here is to develop an efficient and dynamic resource allocation technique for the next generation cellular mobile communication system to support high quality multimedia applications. This involves the investigation of resource requirement by different existing and future multimedia services and its support by multi-carrier communication systems. Additionally, it is observed that there could a different codec for mobile multimedia applications notwithstanding the generic nature of wireless mobile broadband environment. This lab is having high end workstation like FUJITSU CELSIUS, M720 which ensures high performance with multi-core processor, next generation graphics subsystems, quad-channel memory technology and high-speed hard disk drives.



This basically opens avenue for multi-dimensional research:

- Analysis of resource requirement for existing multimedia services.

- Improving the performance in network domain for the existing codecs.
- Design and development of new codec in mobile platform.
- Optimizing the system performance in cross layer domain.

DATA ANALYTICS LAB

This laboratory is funded by the University. It is having high end 70 Desktop systems with Intel Core i7 Processor, 8 GB DDR4 Memory Card, 2TB Internal Hard Disk, switches and internet facility. Analytics Laboratory provides a unique meeting point for students, research scholars and faculties to develop algorithms to extract useful insights from large amount of raw data. It also provides hands-on training to the students, and research scholars on application of various analytical tools and techniques for business decision-making. The Lab mainly houses necessary hardware platforms and software tools for the following domains of research in data analytics like Healthcare Data Analytics, Computer Vision, Machine learning etc. The experimental setup for this Laboratory primarily using open source technologies such as MongoDB, Hadoop Distributed File System (HDFS), Hive, Spark and programming software's like Matlab, Python, R etc.



PROJECT LAB

This is exclusively used by UG final year students for their project work. This lab consists of computer systems with High End Configuration and relevant licensed software installed on it. All computers are provided with the Internet Facility. The necessary networking hardware and software are provided on need basis.

