



THE DEPARTMENT OF INFORMATION TECHNOLOGY 2022 - 23



Table of Contents

About the college	01
About the Department of Information Technology	02
Industrial Visits	03
Conferences, Workshops, and Guest Lectures	04
Faculty Development and Research Contributions	06
List of publications by faculties (2022 - 23)	07
Achievements of students and faculties	07
Academic Audits	07



About the college

B.S. Abdur Rahman Crescent Institute of Science and Technology has been a premier institution dedicated to academic excellence since its establishment in 1984. With a legacy spanning over 40 years, the institution has consistently provided access to a diverse range of academic opportunities. Offering 57 programmes across 12 different schools, along with Ph.D. programmes in all disciplines, it has emerged as a distinguished leader in higher education, renowned for its commitment to quality, security, and placement. Welcoming students from across the globe, the institution designs its educational programmes to equip learners with the knowledge and skills necessary to achieve their aspirations and advance in their chosen careers.

As an intellectual hub, the institution fosters an environment that challenges conventional thinking and inspires a passion for learning. Its distinctive teaching approach encourages students and scholars to strive for excellence, both individually and collectively. Beyond delivering high-quality education, the institute offers a green campus and a well-structured student life, ensuring that learners make the most of their academic journey. Through a diverse range of educational programmes and student development clubs, the institution provides enriching experiences that nurture personal and professional growth, cultivating a lifelong sense of community and belonging.

About the Department of Information Technology

The department was started in 1999 and has been offering B.Tech.-Information Technology since 1999, M.Tech.-Information Technology since 2010 and Ph.D since 2009. It has highly qualified, experienced and dedicated faculty members specialized in various areas like Artificial Intelligence, Deep Learning, Machine Learning, IoT, IIoT, Data Science, Cyber Security, Cloud Computing, Mobile Computing & Networks, Computer Networks, Ad hoc Networks and Software Engineering.

The faculty members contribute their very best to the academic environment by publishing research papers in National and International Journals. The department imparts comprehensive knowledge coupled with practical exposure, which is essential for software design, development and testing in the IT industry. To expose latest trends to the students, value-added courses, MOOC, in-house seminars, workshops, industrial visits are conducted periodically. A National level symposium 'ICON' is organized every year by the department's professional society, "Society of Information Technologists (SIT)" to enhance the technical skills of the students.



Industrial Visits

Students engaged in industrial visits to gain practical exposure. A visit to Kaynes Technology India Limited on November 11, 2022, allowed final-year students to understand the complete design and manufacturing of embedded boards used in various inspections methods of PCB's and testing methodologies used for embedded systems. Another visit on October 28, 2022, provided third-year students with insights on IoT device manufacturing and testing process. They also gained knowledge on PCB design.



Conferences, Workshops, and Guest Lectures

The department of Information Technology organized a range of academic events. On October 18, 2022, Zebpay's Vice President, Govind Kumar, delivered a guest lecture on AI and ML applications in the industry. A workshop on Network Security was conducted on October 19, 2022, in collaboration with Freshworks Limited, with expert insights from Abdul Khader, a Network Engineer.



A hands-on training session on Cybersecurity and Bug Bounties took place on February 17, 2023, led by Renganathan, founder of R Protocols, Chennai. Another notable event was a two-day workshop on Cybersecurity and Ethical Hacking from March 31 to April 1, 2023, in association with DITTO Security, Tedx, and JoshTalk.



There were also guest lectures conducted. One on April 10, 2023, by Dr. A. Sheik Abdulla, an assistant professor at VIT, Chennai, on Cloud data storage, NoSQL and its applications. Another was held on April 18, 2023, by Mr. Subburaja Veluchamy, manager, and Mr. A. Anantha Krishnan, Technical specialist, both from Genesys. They gave their insights on Virtualisation technology in Amazon EC2.

Faculty Development and Research Contributions

The faculty of the IT Department actively participated in a wide range of Faculty Development Programmes (FDPs), workshops, and conferences to enhance their knowledge and expertise in emerging technologies. These programs spanned diverse domains, including artificial intelligence, cybersecurity, blockchain, cloud computing, research methodologies, and machine learning.

Artificial Intelligence and Machine Learning

Several faculty members underwent extensive training in artificial intelligence (AI) and machine learning (ML), reflecting the department's commitment to staying ahead in these cutting-edge fields. Dr. Nabeena Ameen, Mrs. Ishwarya, Mrs. R. Ramya, and Mrs. Muthahara Fathima attended an FDP on Artificial Intelligence and Data Science in Image Analysis at CMR Institute of Technology from February 13-17, 2023.

Dr. Sathya P. and Dr. Gnanasekaran participated in an FDP titled A Blend of Machine Vision, Cybersecurity, Blockchain, and Application at Sathyabama Institute of Science and Technology from August 15-18, 2022. Dr. P. Latchoumy and Dr. G. Kavitha took part in a workshop on Designing and Modeling of IoT, AI, and ML Systems, conducted by ATAL Academy, ARM Education, and ST Microelectronics from May 1 - August 5, 2022.

Cybersecurity and Ethical Hacking

The faculty members were actively engaged in learning about modern cybersecurity practices, ethical hacking methodologies, and blockchain technologies. Dr. G. Kavitha, Ms. A. Sonya, and Mrs. S. Muthahara Fathima attended a Cyber Security and Ethical Hacking workshop at BSACIST from March 31 - April 1, 2023. Dr. G. Kavitha and Dr. P. Latchoumy participated in the International Conference on Computational Sciences and Sustainable Technologies (ICCSST-2023), presenting research on Secure Transfer of Digital Assets using Blockchain Technology at Modern College of Business and Science, Muscat, Oman & CHRIST University, Bangalore on May 8-9, 2023.

Data Science, Research, and Writing Methodologies

Understanding the importance of research skills, faculty members participated in FDPs and training programs focused on data science, academic writing, and research methodology. Dr. Nabeena Ameen attended an FDP on Advanced Research Methodology at ACT Academy from July 24-30, 2023. She also participated in an FDP on Research Tools at Easwari Engineering College from July 3-14, 2023.

Dr. P. Latchoumy attended an FDP on Inculcating Universal Human Values in Technical Education organized by AICTE from January 3-5, 2023.

Ms. A. Sonya and Mrs. S. Muthahara Fathima attended an FDP on Research Methodology and Analysis Tools at BSACIST from May 8-11, 2023. Dr. Nabeena Ameen participated in a webinar on Effective Writing of Research Articles with Grammarly at BSACIST on September 20, 2022, and another webinar on Impact of Originality in Innovative Research at BSACIST on November 24, 2022.

Cloud Computing and Virtualization

Cloud computing technologies, particularly Amazon Web Services (AWS) and NoSQL databases, were a key focus. Dr. Subburaja Veluchamy and Mr. A. Anantha Krishnan led a Guest Lecture on Virtualization Technology - Amazon EC2 on April 18, 2023. Dr. A. Sheik Abdulla from VIT Chennai conducted a Guest Lecture on Cloud Data Storage - NoSQL and its Applications on April 10, 2023.

Computational Sciences and Image Processing

The faculty took part in specialized training sessions related to computational sciences and digital image analysis. Dr. Nabeena Ameen presented a research paper on Artificial Intelligence and Data Science in Image Analysis at CMR Institute of Technology from February 13-17, 2023. Dr. P. Latchoumy and Dr. G. Kavitha attended an IEEE Conference on Penalty-Based Sentimental Text Generation Framework using Generative Adversarial Networks at Mount Zion College of Engineering and Technology from December 13-15, 2022. They also participated in an IEEE Conference on Handwriting Recognition using Convolutional Neural Networks and Support Vector Machines, held at RVS Technical Campus from December 1-3, 2022.

Industry Collaboration and Emerging Technologies

Dr. G. Kavitha and Dr. P. Latchoumy attended a training program on AI & HPC at Intel Unnati Lab, organized by BSACIST (CIIC) from September 14-20, 2022. Mrs. S. Muthahara Fathima participated in a Workshop on Data Analytics and Machine Learning through Zero Coding at VIT from June 26-27, 2023. She also attended a Training on Drones and Autonomous Systems at CMR Institute of Technology from May 2-6, 2023.

Dr. Gnanasekaran and Ms. A. Sonya participated in the Faculty Induction / Orientation Programme (FIP), organized by the Ministry of Education, from September 20 - October 19, 2022.

List of publications by faculties (2022 - 23)

(Links to details)

Dr. N. Prakash

Dr. I. Sathik Ali

Dr. Kabeer M

Dr. N. Rajendran

Dr. P. Gnanasekaran

Mrs. R. Ramya

Dr. Latha Tamilselvan

Dr. G. Kavitha

Dr. P. Latchoumy

Dr. Nabeena Ameen

Dr. A. Sonya

Achievements of students and faculties

Students and faculty showcased excellence in multiple areas throughout the academic year. Several students received course completion certificates from Infosys Springboard for mastering Java programming, along with participation in industry-driven workshops and online certification programs. Faculty members also made significant strides, earning Research Incentive Awards from BSACIST in recognition of their contributions to academic research. Notable recipients include Dr. G. Kavitha, Dr. P. Latchoumy, Dr. N. Rajendran, and Dr. Nabeena Ameen, who were honored in September 2022.

The department secured an AICTE grant for a Skill and Personality Development Programme Centre, with funding of ₹14,68,166. While no new research laboratories were created, branding initiatives on social media effectively improved admissions.

Academic Audits

The department hosted distinguished visitors, including Dr. R.S. Bhuvaneshwaran and Dr. S. Swamynathan from Anna University, who conducted an external academic audit on March 4, 2023. Their recommendations focused on improving assessment quality. The NBA Expert Committee also visited from March 24-26, 2023.