

Dhirubhai Ambani Institute of Information and Communication Technology

# PLACEMENT BROCHURE 2024-25



Late Dhirubhai Ambani (1932-2002) Founder, DA-IICT



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## **DIRECTOR'S MESSAGE**

For an Institute like DA-IICT, Gandhinagar, placement is a cardinal activity because the quality of placement is the signature of the brand of an Institute. It's a metric for capturing the quality of our students who join our programmes, the rigor of academic training that they go through, and finally, the contributions of our students to the society as they go out. Thanks to the recruiters for reposing faith on us throughout our existence. Also, thanks to our alumni for helping us in getting our students placed in top organizations. In this context, I am happy to share that a cursory look at the NIRF 2023 data shows that DA-IICT figures in the top five among the top hundred private institutes in terms of its graduation outcomes. It needs mentioning that the graduation outcomes are primarily measured by the percentage of students placed, median salary offered, and percentage of students pursuing higher studies. This bears the testimony of our excellence in imparting training in the space of ICT (Information and Communication Technology) and design.

I am sure that, as in the past, the Institute will continue to excel in its placement activities. This has been made possible by the staff of our placement office, under the able guidance of the placement convenor, due to their sincere efforts and hard work.

Wish you all the best!!

**Prof. Tathagata Bandyopadhyay** Director



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## **ABOUT DA-IICT**



Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) is a University established under the Act of Gujarat State Legislature and recognized by the Universities Grants Commission and Association of Indian Universites. DA-IICT offers four unique bachelor's Courses - B. Tech (ICT), B.Tech (Honours in ICT with minor in CS), B.Tech (MnC), and B.Tech (EVD) and PG programs, such as M.Tech (ICT), M.Sc (IT), M.Sc (ICT-AA), M.Sc (DS), M.Tech (EC), M.Des, and PhD. The curriculum of these programs are designed, in consultation with industry experts, to ensure that the students are abreast with the trends of the industry. The social science Courses and the rural internship program are designed to make our students responsible citizens. Our students have the freedom to develop their soft skills and hobbies along with academics, which makes the students of DA-IICT stand out amongst the others.

### Vision

To help build a knowledge led society founded on intellectual competitiveness for global leadership.

### Mission

To become a first choice academic institute having high caliber students, a dynamic faculty, a sensitive administration, functioning within an atmosphere of innovative research, emphasizing academic cooperation and global collaboration.

### Why recruit at DA-IICT?

DA-IICT is the first University in India to offer undergraduate and postgraduate degrees in the area of Information and Communication Technology. Students undergo a rigorous learning process based on the ever changing technology and latest research areas. The unique syllabus grants versatility to the students enabling them to take up diverse roles in industrial organizations. Industry is always in need of highly skilled fresh talent, and this need is addressed by the comprehensive approach by DA-IICT to education with a highly charged professional atmosphere.





### **Pioneer in DA-IICT**

DA-IICT is the forerunner in the fields of Information and Communication Technology, Mathematics and Computing, and Electronics and VLSI Design. These fields are embedded in the large matrix of interdisciplinary subjects including Design, Science, Humanities and Social Sciences.

The curriculum and involvement of students in Research and Development and Projects produce professionals with knowledge and expertise to meet the needs of the present and the future world.

## **FROM PLACEMENT CELL**

"DA-IICT consistently provides a world class education that prepares students to meet the demands of the industry. It's alumni excel in their respective fields, with outstanding skills and work ethics that are highly sought after by potential recruiters. This brochure showcases the vibrant culture at the Institute, student, and faculty achievements and placement statistics. Join our placement drive and witness our students' talent and dedication first hand. Your support is crucial in helping us achieve our goals."

### -Prof. Hemant A. Patil, Placement Convenor

"I have had the pleasure of working with some of the brightest and most talented students of the Institute. I have been consistently impressed with the level of dedication, skill, and enthusiasm demonstrated by the students at DA-IICT. I am proud to say that our students have been placed in some of the most prestigious companies in the world, and have consistently received positive feedback from their employers. They have made significant contributions to the industry, and have become leaders in their fields."

Overall, I am incredibly proud of the work that we do at DA-IICT, and I am confident that our graduates will continue to excel in their careers and make a positive impact on the world."

-Mrs. Sneha Thakker, Placement Manager

## **UG Courses**

### **B.Tech** Information and Communication Technology



The four-year undergraduate program leading to the Degree of Bachelor of Technology in Information and Communication Technology, B.Tech (ICT) offered by DA-IICT aims to create a new class of engineers in ICT, who will be committed to a vision of excellence both as individuals and citizens.

Information and Communication Technology (ICT) represents the fusion of computer and communication systems, establishing itself as a unique field. To stand out, ICT graduates require skills beyond traditional computer science and electronics & communication engineering offerings. This convergence primarily occurs at the system level, yet necessitates understanding granular details of circuits, devices, and materials. Curriculum typically employ a semester-based format with flexible credit selection.

The program later opens up a vast array of Electives, allowing students to specialize in specific ICT sub-domains. Beyond ICT, Electives in diverse fields, such as mathematics, humanities, and management broaden their perspectives. Practical knowledge is solidified through multiple key projects, forming the program's core.

### **SEMESTER 1**

- Introduction to ICT
- Language and Literature
- Calculus
- Introduction to Programming
- Programming Lab
- Basic Electronic Circuits
- Co-Curricular Activities-1

### **SEMESTER 2**

- Approaches to Indian Society
- Discrete Mathematics
- Digital Logic and Computer Organization
- Data Structures
- Data Structures Lab using OOP
- Electromagnetic Theory
- Exploration Project 1 and 2
- Co-Curricular Activities-2

### **SEMESTER 3**

- Science, Technology, Society
- Linear Algebra
- Design and Analysis of Algorithms
- Computer Systems ProgrammingSignals and Systems
- Exploration Project
- Co-Curricular Activities-3

### WINTER 2

• 4 Weeks Rural Internship in Winter Vacation

### **SEMESTER 4**

- Principles of Economics
- Probability and Statistics
- Database Management System
- Embedded Hardware Design
- Introduction to Communication Systems
- Honours-1
- Co-Curricular Activities-4

### **SEMESTER 5**

- Software Engineering
- Digital Communications
- Computer Networks
- ICT Elective-1
- Technical Elective -1
- Honours-2 (Elective Course)

### **SEMESTER 6**

- Environmental Science
- Science Elective-1
- ICT Elective-2
- Technical Elective-2
- Technical Elective-3
- Honours-3 (Elective Course)

### SUMMER 3

• 6-8 Weeks Internship in Industry or Research

### **SEMESTER 7**

- B.Tech Project-1
- ICT Elective-3
- Technical Elective-4
- Humanities & Social Science
   Elective-1
- Science Elective-2
- Honours-4 (Elective Course)

### SEMESTER 8

- B.Tech Project-2
- Open Elective-1
- Open Elective-2
- Honours-5 (Elective Course)

### **Representative list of Electives**

- Graph Theory and Algorithms
- Approximation Algorithms
- Computational Complexity
- Randomized Algorithms
- Quantum Computing
- Introduction to Cryptography
- Blockchain and Cryptocurrencies
- Adversarial Machine Learning
- Machine Learning and Security
- Introduction to Coding Theory and
- Applications
- Compiler Design
- Digital Image Processing
- Internet of Things
- Speech Communication
- Statistical Communication
- Wireless System Design
- RF and Antenna Engineering
- Microwave Propagation
- Control Theory
- Data Mining and Visualization
- Human-Computer Interaction
- Natural Language Processing
- Natural Computing
- Software Engineering
- Optimization
- Computational Financial
- Modern Algebra
- Software Project Management
  - Specification and Verification of
- Systems
- Models of Computation
- System and Network Security
- No SQL Database
- Web Data Management

• Stochastic Simulation

• Deep Learning

• Introduction to AI

• Einstein's Physics

Nanoelectronics

• Analog IC Design

Perspectives

• Operating Systems

Recommendation Systems

Introduction to Data ScienceIntroduction to Robotics

• Introduction to Complex Network

Computational Number Theory

Introduction to VLSI Circuits

• Logic for Computer Science

• Art: Ideas and Perspectives

• Culture, Politics, Identity

Organisational Behaviour

• Modern European Philosophy

• Human Behavior Management

Publics in South Asia: Contemporary

Systems, Policies, and Implications

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## **B.Tech (Honours)** INFORMATION AND COMMUNICATION TECHNOLOGY

WITH MINOR IN COMPUTATIONAL SCIENCE



DA-IICT is the first Institute in the country to design and offer a program in the area of Computational Science at undergraduate level. DA-IICT launched the B.Tech (Honours in ICT with minor in CS) program from the 2013-14 academic year to impart the necessary knowledge and insight to the students to build computational models to understand, analyze, and address fundamental problems in the areas of societal importance.

The minor in CS program is focused on two main lines – theoretical learning and practical implementation. The students must take core/group-Elective Courses in the areas of Mathematics, Physics, Numerical and Computational Methods, Modeling and Simulation, High Performance Computing, Parallel Programming, Data Analysis and Visualization. The Electives are further designed to sharpen this skill-set by providing domain knowledge in interdisciplinary areas ranging from engineering to biological applications.

Computational Science involves use of mathematical models, numerical methods, quantitative analysis techniques, advanced computing capabilities, and IT knowledge to understand and solve problems. Under this program, students are required to earn more credits compared to an ICT program.

### **SEMESTER 1**

- Introduction to ICT
- Language and Literature
- Calculus
- Introduction to Programming
- Programming Lab
- Basic Electronic Circuits
- Co-Curricular Activities-1

### **SEMESTER 2**

- Approaches to Indian Society
- Discrete Mathematics
- Digital Logic and Computer
   Organization
- Data Structures
- Data Structures Lab using OOP
- Electromagnetic Theory
- Exploration Project 1 and 2
- Co-Curricular Activities-2

### **SEMESTER 3**

- Science, Technology, Society
- Linear Algebra
- Design and Analysis of Algorithms
- Computer Systems ProgrammingSignals and Systems
- Signals and system
  Exploration Project
- Co-Curricular Activities-3

#### WINTER 2

• 4 Weeks Rural Internship in Winter Vacation

#### **SEMESTER 4**

- Principles of Economics
- Probability and Statistics
- Database Management System
- Embedded Hardware Design
- Introduction to Communication Systems
- Introduction to Computational Physics
- Co-curricular Activities-4

#### **SEMESTER 5**

- Software Engineering
- Digital Communications
- Computer Networks
- ICT Elective
- Technical Elective
- Numerical and Computational Methods

#### **SEMESTER 6**

- Environmental Science
- Science Elective -1
- ICT Elective 2
- Technical Elective-2
- Technical Elective-3
- Modeling and Simulation
- High Performance Computing

### SUMMER 3

• 8 Weeks Internship in Industry or Research

### **SEMESTER 7**

- BTech Project 1
- ICT Elective 3
- Technical Elective 4
- Humanities and Social Science
   Elective 1
- Science Elective 2

### **SEMESTER 8**

- BTech Project 2
- Open Elective 1
- Open Elective 2

#### **Representative list of Electives**

- Graph Theory and Algorithms
- Approximation Algorithms
- Computational Complexity
- Randomized Algorithms
- Quantum Computing
- Introduction to Cryptography
- Blockchain and Cryptocurrencies
- Adversarial Machine Learning
- Machine Learning and Security
- Introduction to Coding Theory and
- Applications
- Compiler Design
- Digital Image Processing
- Internet of Things
- Speech Communication
- Statistical Communication
- Wireless System Design
- RF and Antenna Engineering
- Microwave Propagation
- Control Theory
- Data Mining and Visualization
- Human-Computer Interaction
- Natural Language Processing
- Natural Computing
- Software Engineering
- Optimization
- Computational Financial
- Modern Algebra
- Software Project Management
- Specification and Verification of
- Systems
- Models of Computation
- System and Network Security
- No SQL Database
- Web Data Management
- Deep Learning

Introduction to AI

• Einstein's Physics

Operating Systems Nanoelectronics

Analog IC Design

•

• Recommendation Systems

• Introduction to Data Science

Introduction to Complex Network

Computational Number Theory

• Introduction to VLSI Circuits

• Logic for Computer Science

Modern European PhilosophyArt: Ideas and Perspectives

Human Behavior Management

• Publics in South Asia: Contemporary

• Systems, Policies, and Implications

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• Culture, Politics, Identity

Perspectives

Organisational Behaviour

Introduction to Robotics

• Stochastic Simulation



### **B.Tech** MATHEMATICS AND COMPUTING



Mathematics and Computing (MnC) is a fusion of Mathematics and Computer Science that has obtained wide acceptance as a distinct discipline over the past few years. It arises out of dealing with Mathematics as a fundamental tool in computing and with Computing as a primary component of mathematical problem solving. The program has been specially designed to meet the increasing needs of professionals, who would be able to respond to the convergence between mathematical and computational problem solving.

The program aims at expanding the mathematical, algorithmic, and computational thinking of students and at providing sufficient and solid foundation for skill development in MnC. A strong mathematical foundation would enable the study and analysis of abstract concepts and to model many real life problems mathematically. Furthermore, algorithmic thinking would provide ways to solve these mathematical problems in an automated way, and computational thinking would allow for evaluating the efficiency of these solutions.

The program aims to provide exposure to the students who wish to build a professional career in MnC, working at the cutting edge of technology, research and development. On successful completion of the program, the students would have acquired essential theoretical, technical and practical knowledge for solving real-world problems, and will have the ability to demonstrate excellent analytical, logical, and problem solving skills. The students would have also acquired social and ethical attributes that would enable them in applying their skills for societal needs with effective communication – orally, in writing and on multi-media platforms.

### **SEMESTER 1**

- Mathematical, Algorithmic, and Computational Thinking
- Computer Organization and Programming (COP)
- COP LAB
- Discrete Mathematics
- Digital Logic Design
- Language and Literature

### **SEMESTER 2**

- Function of Single Variable and ODEs
- Object Oriented Programming
- Data Structures and Algorithms
- Linear Algebra
- Approaches to Indian Society

### **SEMESTER 3**

- Probability and Random Processes
- Operating Systems
- Design and Analysis of Algorithms
- Functions of Several Variables and PDEs
- Database Management Systems
- Science, Technology, Society

### WINTER 2

• 4 Weeks Rural Internship in Winter Vacation

### **SEMESTER 4**

- Mathematical Statistics
- Theory of Computation
- Parallel and Distributed Algorithms
- Real and Complex Analysis
- Numerical and Computational Methods
- Environmental Studies

### **SEMESTER 5**

- Mathematical Optimization
- Modelling and Simulation
- Algebraic Structures
- Principles of Economics
- MnC Elective 1
- MnC Elective 2

### **SEMESTER 6**

- Machine Learning
- Open Elective 1
- MnC Elective 3
- MnC Elective 4
- MnC Elective 5

### SUMMER 3

• 6-8 Weeks Internship in Industry or Research

### **SEMESTER 7**

- MnC Elective 6 / Independent Project – 1
- MnC Elective 7
- MnC Elective -8
- Open Elective 2
- MnC Elective 9
- Independent Project 2 / MnC Elective – 10 / B.Tech Project-1

### **SEMESTER 8**

- B.Tech Project-2
- Open Elective-1
- Open Elective-2
- Honours-5 (Elective Course)

### **Representative list of Electives**

- Organizational Behaviour
- The English Novel
- Culture, Politics, Identity Indian Cinema Lineages and the Present
- Natural Language Processing
- Approximation Algorithms
- Recommendation Systems
- Deep Learning
- Specification and Verification of Systems
- Einstein's Physics
- Application of Statistics to Complex
   Systems
- Introduction to Cryptography
- Introduction to Data Mining
- Introduction to Nonlinear Dynamics
- Software Project Management
- Introduction to Complex Network
- Biometric Security
- Corporate Finance
- Human Behaviour Management
- Communicating Conservation: Role of Cinema in Influencing Global Environmental Consciousness
- Financial Econometrics
- Time Series Analysis



### **B.Tech** ELECTRONICS AND VLSI DESIGN (EVD)



DA-IICT launched the unique four-year B. Tech in Electronics and VLSI Design (EVD) from the Academic Year 2023-24 with an objective to create industry ready undergraduate manpower for VLSI industry. The main objective of the BTech (EVD) program is to equip students with necessary core competency to succeed long-term in engineering/ entrepreneurship careers and preparing them for higher studies and research as career options. The curriculum offers a strong foundation in the first two years and then provides the student opportunity to specialize in VLSI System Design and Electronics System Design that trains them both the technical and entrepreneurial skills needed to become a leader in this industry.

Students will learn to use industry ~ standard software, such as Cadence, Synopsys, OrCad, MATLAB, Xilinx, etc. and hardware boards, namely, FPGA, CPLD, etc. to design Integrated Circuits. For some students, the student design project may culminate as a scientific paper that will help immensely in their career and will open up future study options in their particular field of specialization. Students will also gain direct industry experience through internships. The rural internship during their Course will enable the students to appreciate the socio-cultural aspect of their Course. The program includes compulsory Summer Research Internships to be taken up at various research organizations within and abroad.

### SEMESTER 1

- Engineering Mathematics I
- Introduction to Programming
- Programming Lab
- Basic Electronic Circuits
- Engineering Physics
- Language and Literature
- Co-Curricular Activities-1

### **SEMESTER 2**

- Engineering Mathematics II
- Digital Logic and Computer Organization
- Data Structures
- Data Structure Lab using OOP
- Electromagnetic Theory
- Approaches to Indian Society
- Exploration Project I
- Co-Curricular Activities-2

### **SEMESTER 3**

- Engineering Mathematics III
- Solid State Devices
- Signal Processing and Control Systems
- Electronic Design Lab
- Science, Technology and Society
- Exploration Project II
- Co-Curricular Activities-3

### WINTER 2

• 4 Weeks Rural Internship in Winter Vacation

#### **SEMESTER 4**

- Embedded Hardware Design
- Digital IC Design and Tape out
- Digital IC Design and Tape out LAB
- Analog Electronics
- Entrepreneurship and Product Design
- Specialization Elective-1
- Co-Curricular Activities-4

#### **SEMESTER 5**

- Hardware
- VLSI Design
- VLSI Design LAB
- Open Elective 1
- Specialization Elective 2
- Principles of Economics
- Individual Project 1

### **SEMESTER 6**

- Environmental Science
- Open Elective 2
- VLSI Testing and Validation
- Specialization Elective 3
- Individual Project 2 and 3

### SUMMER 3

8 Weeks Internship in Industry
 or Research

### SEMESTER 7

- Specialization Elective 4
- Specialization Elective 5
- Open Elective 3
- Group Project

#### **SEMESTER 8**

• BTP / Internship

### **Representative list of Electives**

- Graph Theory and Algorithms
- Approximation Algorithms
- Computational Complexity
- Randomized Algorithms
- Quantum Computing
- Introduction to Cryptography
- Blockchain and Cryptocurrencies
- Adversarial Machine Learning
- Machine Learning and Security
- Introduction to Coding Theory and Applications
- Compiler Design
- Digital Image Processing
- Internet of Things
- Speech Communication
- Statistical Communication
- Wireless System Design
- RF and Antenna Engineering
- Microwave Propagation
- Control Theory
- Data Mining and Visualization
- Human-Computer Interaction
- Natural Language Processing
- Natural Computing
- Software Engineering
- Optimization
- Computational Finance
- Modern Algebra
- Software Project Management
- Specification and Verification of Systems
- Models of Computation
- System and Network Security
- No SQL Database
- Web Data Management
- Deep Learning
- Recommendation Systems
- Introduction to AI
- Introduction to Data Science
- Introduction to Robotics
- Introduction to Complex Network
- Stochastic Simulation

Einstein's Physics

Nanoelectronics

Analog IC Design

Perspectives

• Operating Systems

• Computational Number Theory

Introduction to VLSI Circuits

• Logic for Computer Science

• Art: Ideas and Perspectives

Culture, Politics, IdentityOrganisational Behaviour

• Modern European Philosophy

Human Behaviour Management

Publics in South Asia: Contemporary

Systems, Policies, and Implications

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## PG Courses

## **M.Tech in ICT**

with Specializations in : SOFTWARE SYSTEMS, MACHINE LEARNING, WIRELESS COMMUNICATION AND SIGNAL **PROCESSING, AND VLSI & EMBEDDED SYSTEMS** 



The program is specially designed to meet the increasing needs of professionals, who would be able to respond to the convergence between computers and communication systems. The program provides exposure to students to build a professional career in ICT, working at the cutting edge of technology, research and development.

On successful completion of the program, the students acquire essential technical and practical knowledge for solving real-world problems in the ICT domain using modern technologies and tools. They will have the ability to demonstrate excellent analytical, logical and problem solving skills that would bridge the digital divide between urban and rural sectors. The students will acquire social and ethical attributes that enable them to applying their skills for societal needs with effective oral and written communication.

The curriculum is organized with core Courses, Elective Courses and a thesis/ project work. The core Courses are foundational and compulsory, which will build core competence for getting into ICT domain knowledge areas. Once the students acquire knowledge in foundational Courses, they can select Group Core Courses, which are interdisciplinary in nature and these Courses provide them breadth in ICT research exploration. Subsequently, the students will have an adequate choice of Electives in order to delve deeper into areas of their research interest. Finally, students will have an option to pursue one full year (two semesters) of research work in the form of thesis in the program.

### SEMESTER 1

- Communication and Technical Writing
- Programming Lab
- Specialization Core 1: Advanced Algorithms/Foundation of Machine Learning/ VLSI System Design/ Introduction to Wireless Communication
- General Elective (Mathematics)
- General Elective (Technical)

### **SEMESTER 2**

- Specialization Core 2 : Advanced Software Engineering/Advanced Machine Learning/ Embedded Hardware Design/ Advanced Digital Signal Processing
- Minor Project
- Specialization Elective 1
- Specialization Elective 2

#### SUMMER 1

• Major Project 1

#### **SEMESTER 3**

- Major Project 1
- Specialization Elective 3
- Specialization Elective 4

### **SEMESTER 4**

Major Project 2 / Industrial
 Project

### Representative List of General Elective (Mathematics)

- Probability and Random Variables
- Algorithmic Graph Theory
- Optimization
- Linear Algebra/Modern Algebra

### Representative List of General Elective (Technical)

- Operating Systems
- Machine Learning
- Introduction to Data Mining
- DNA Storage and Security
- Basics of VLSI
- Digital Programming
- Detection and Estimation Theory
- Internet of Things
- Fundamentals of Semiconductor Packaging
  Manufacturing and Test

### Representative List of Specialization Electives I and II (Wireless Communication and Signal Processing)

- Advanced Wireless Communication
- Digital Image Processing

### Representative List of Specialization Electives III and IV (Wireless Communication and Signal Processing)

- Next Generation Communication Systems
- RF and Antenna Engineering
- Speech Communication

### Representative List of Specialization Electives I and II (Software Systems)

- Distributed Systems
- Distributed Databases
- Approximation Algorithms

### Representative List of Specialization Elective III and IV (Software Systems)

- Big Data Processing
- Blockchains and Cryptocurrency
- Advanced Computer Networks

### Representative List of Specialization Electives I and II (ML)

- Digital Image Processing
- Recommendation System
- Reinforcement Learning
- Natural Language Processing
- Deep Learning

### Representative List of Specialization Elective III and IV (ML)

- Computer Vision
- Deep Neural NLP and Application
- Biometric Security
- Information Retrieval

### Representative List of Specialization Electives I and II (VLSI & Embedded Systems)

- ASIC Design
- Analog VLSI Design
- VLSI Testing and Validation
- Robot Programming

### Representative List of Specialization Elective III and IV (VLSI & Embedded Systems)

- Low Power VLSI Design
- Introduction to Embedded Artificial Intelligence
- Digital IC Design
- Nanoelectronics



### M.Des COMMUNICATION DESIGN



Masters in Design (Communication Design) is a distinctive interdisciplinary program, spread over 2 years/4 semesters offering specializations in Visual Communication Design and Interaction Design and preparing students to pursue careers in the fields of Visual Design, User Experience/Interface Design (IxD/UI/UX), Motion Graphics, Filmmaking and Photography, Design Research, Design innovation and strategy. The program's core strength is in understanding society and culture through extensive inputs in ethnography, anthropology and social sciences that are integrated with hands-on learning in design research, design processes and design skills. The students, through studio and lab sessions are equipped to observe, identify, reflect and conceptualise solutions and prototypes for social and cultural problems. On successful completion of the program the graduates take up various leadership roles in design.

### SEMESTER 1

- Approaches to Culture and Communication
- Fundamentals of Design I
- Information Design
- Image, Text, and Sound
- Introduction to History of Design

### **SEMESTER 2**

- Research Methodologies Ethnography and its Applications
- Introduction to Narratology
- Fundamentals of Design II
- Fundamentals of Photography
- Fundamentals of Videography
- Principles of Interaction Design

### **SEMESTER 3**

- Fundamentals of Animation
- Web Design: Applications, Inter-connectivity
- Thematic Seminar/ Workshop or RR (Reading/Research)
- Research Application: Constructing Narratives
- Research Proposal Seminar: Rationale, Process, Outcome

### **SEMESTER 4**

• Individual Design Project

All modules are a combination of theory and practical sessions.



### M.Sc INFORMATION TECHNOLOGY



M.Sc Information Technology is a two-year program, including a six-month professional training in the industry. The objective of the program is to impart core education in the field of Information Technology and to groom the students to face the challenges of the highly competitive IT industry. Under this program, students inculcate a sound theoretical foundation; an ability to analyze, conceptualize, and design systems; and achieve fluency with modern software design and development tools.

### SEMESTER 1

- Discrete Mathematics
- Introduction to Programming
- Data Structure
- Database Management System
- Communication Skills

### **SEMESTER 2**

- Object-Oriented Programming
- Introduction to Algorithms
- Systems Programming
- Software Engineering
- Computer Networks

### SUMMER 1

• 8 Week Summer Internship

### **SEMESTER 3**

- Software Design and Testing
- Web Services and SoA
- Web & Mobile Development
- Technical Elective
- Open Elective

### SEMESTER 4

• 6-Month Internship

### List of Electives:

Technical Electives:

- Cloud Computing
- NoSQL
- DevOps
- Data Mining and Warehousing
- Information System Security
- Human-Computer Interaction
- Blockchain
- Python Programming and its Applications

Open Elective (Any Category - Technical or Management Course):

- Information Management
- Business Management
- Economics
- Management Basics



## **M.Sc** DATA SCIENCE



The programme aims to provide skills in quantitative data analysis, data mining, data modelling and prediction, data storage and management, big data processing, data visualization, multimedia big data programming and communication skills/ VA Courses/ training and a large number of practical case studies have been integrated into the program to boost the learner's confidence and market acceptability. The program also enables the students to obtain the state-of-the art skills through the value added course in Machine Learning Operations, Data story telling , and a comprehensive study of six market scenarios, which can be rectified and showcased through Capstone projects.

### **SEMESTER 1**

- Mathematical Foundation for Data Science
- Data Structures and Algorithms (Lab: Python)
- Statistical Methods (Lab: R)
- Programming Lab (Python)
- Introduction to Database Management

### **SEMESTER 2**

- Machine Learning
- Numerical Methods for Data Science
- Big-Data Processing
- Mini Project -1
- Optimization
- Technical Elective 1

#### SUMMER 1

• Value Added Courses

### **SEMESTER 3**

- Deep Learning
- Interactive Data Visualization
- Open Elective -1
- Technical Elective 2
- Mini Project -2

#### **SEMESTER 4**

• Full-Time On-Campus Projects / Industry Internship

#### **Representative List of Electives:**

- Image Processing
- Information Retrieval
- Computational Finance
- No SQL Databases
- Cloud Computing
- Information Systems Security
- Natural Language Processing
- Computer Vision
- Financial/ Business Data Analysis
- Data Warehousing and Data Mining
- Statistical Foundation for Data Science
- Speech Processing



## **M.Sc in Agriculture Analytics**

**IN COLLABORATION WITH AAU & IIRS** 



M.Sc Agriculture Analytics is a two year Post Graduate Program, which is jointly organized by DA-IICT Gandhinagar, Anand Agriculture University, Anand and Indian Institute of Remote Sensing, ISRO Dehradun, premier universities/ Institutes in ICT, Agriculture and Space Technology domain, respectively. The program is aimed at nurturing students with insights and know, how to take this sector into the future. The Course will introduce students to concepts of data analytics, namely, descriptive, predictive, and prescriptive, in agriculture and will empower the students to eliminate speculative farming and usher in the age of predictive agriculture. This is a multidisciplinary program in agriculture and data analytics.

### SEMESTER 1

- Python Programming and Database with SQL
- Analytics / Statistical methods
- Earth Observations (EO) System
- Preparatory Mathematics / Basics of Agricultural Science

### **SEMESTER 2**

- Programming for Geodata Processing
- Big Data Analytics
- Machine Learning
- Spatial Modeling and Data Assimilation

### SUMMER 1

• Value Added Courses

### **SEMESTER 3**

- Crop and Soil Analytics
- Weather and Water Analytics
- Agricultural Market Analytics
- Risk Analysis and Modelling

### SEMESTER 4

• Projects / Industrial Internship

## RESEARCH



### **DOCTOR OF PHILOSOPHY**

The Doctoral Program leading to the award of the Degree of Doctor of Philosophy (PhD) provides the students an opportunity for a career in academia or in research and development establishments. DA-IICT is taking a leading role in conducting research in Information and Communication Technology (ICT) and allied areas and selected areas of Humanities and Social Sciences. Research interests of faculty can broadly be classified into the following disciplines:

- Electronics & Communications
- Computer Science & Information Technology
- Mathematics & Physical Sciences
- Computational Science
- Humanities, Social Sciences and Design
- ICT for Development

### **TEDX AT DA-IICT**

TEDxDA-IICT has been conducted twice as an openthemed event. The event complied with all the rules stated in the license agreement and was conducted in the spirit of TED. Additionally, the event featured a live instrumental music performance by two students from DA-IICT. It attracted renowned speakers from diverse fields, making it a huge success. The conference covered various themes, which included: Community engagement through Sports, Rural Upliftment (Smart Villages), Hunger and Food Security, Responsible Manufacturing, Social Entrepreneurship, and Artificial Intelligence.

### **RESEARCH AT DA-IICT**

The research activities are committed to discovery, innovation and creative achievements, crossing disciplines from VLSI design, machine intelligence and wireless communication to digital signal, image processing, and bioinformatics. To support research and development, a full range of required infrastructure has been established, including well equipped laboratories, specialized equipment, campus-wide networking, high speed Internet access, and subscription to hundreds of print and online journals. DA-IICT Centre for Entrepreneurship and Incubation (DCEI), started in 2011, is a launchpad for students and faculty, who wish to turn their technical inventions into successful businesses.

### **MUN DA-IICT**

The MUN (Model United Nations) conference essentially simulates UN conferences, such as GA, DISEC, UNEP, etc. Wherein students represent a country and debate upon issues relevant to the society and aim at reaching a consensus or a solution, it provides a platform for knowledgeable discussions with like-minded people, to showcase one's research, analyzing, lobbying, and debating skills. DA-IICT has proudly organized intra college MUN conference for the last 4 years.



## PLACEMENT STATISTICS\* (2023-24)



\*Data as per 30th April 2024

## **PLACEMENT POLICY**



All students graduating from the Institute in the year 2025 are eligible to participate in the placement activities. A student can participate in the placement process of a company subject to the following conditions:

• The placement cell has confirmed his/her registration.

• He/She meets the requirements/eligibility criteria specified.

- By the Company
- By the placement policy

There are 3 kinds of offers that are possible:

- Internship + Job (I+J)
- Job (J) only
- Internship (I) only

For Internship + Job (I+J) and Job (J), CTC declared by the company will be used for category determination. For Internship (I) only, post-internship offered CTC for employees will be used for category determination.

All Companies are classified into two categories:

- Category I CTC of 10 Lakhs Per Annum (LPA) and above
- Category II CTC Below 10 Lakhs Per Annum

### All offers are calculated based on CTC (Cost To Company)

• A student who gets placed (gets a Job (J) or Internship + Job offer (I+J)) in Category I company is out of the placement process and the offer she/he receives is the final offer and no further switching is applicable.

• A student who gets placed (gets a Job (J) or Internship + Job offer(I+J)) in a Category II Company has strictly one chance to switch. She / He can switch only if she/he fulfills the following conditions:

• If the offer received in Category II is x LPA then she/he can switch to a Company, which provides an offer of 1.5x LPA or above.

Switch is a condition where a student is allowed to sit in a Company according to the policy even after getting a first offer and she/he gets selected at that Company. If the new offer made is a Job offer and it

allows students to have internships elsewhere, and then they will be allowed to keep both.

Offer Received (X LPA)	Eligible for Switch (1.5X LPA)
3.53	5.295
5.00	7.50
7.00	10.50
9.00	13.50
9.50	14.25
9.99	14.98

**Reference Table** 

At the discretion of the Placement Office, certain offers are put into the Dream category. All students (even if they have used their switch) can sit for a dream Category Company. However, if a student gets an offer in a dream company, her/his previous standing offer stands rejected and the student is out of the placement process (even further dream Companies).

**\*Disclaimer:** This is only a brief of the placement policy. For the detailed placement policy, please contact the Placement Cell.



## OFFER

The Company shall provide the offer letters to the Placement Office and not directly to the students. When the Placement Office receives an offer letter from a Company for a student, it shall communicate the same to her/him. A time period will be declared, where a student has to inform the Placement office regarding her/his decision on the offer. If she/he fails to do so, it shall be assumed that the offer has been rejected by her/him. The purview of the Placement Office is restricted only to the offers made as part of the campus placement process.

## **REJECTION OF AN OFFER**

- 1.If a student participates in the placement process of a Company, then she/ he cannot leave it in between. If such a case arises, then it will be deemed as a rejection of the offer.
- 2. An offer made will be considered rejected if the concerned student informs the Placement office about the rejection in person and in writing.
- 3.A student can upgrade only once by rejecting a Category I/ II offer. If a student rejects a Category I Company, then she/ he is considered as not interested in the placement process.
- 4. Students can only reject one offer from a Category 2 company, if she/he rejects the second offer then she/he becomes ineligible for the placement process.
- 5. On upgrading to a higher category Company, the previous offer stands rejected.
- 6. If a student does not inform the Placement Office regarding her/his decision on acceptance of an offer within the declared time period, then it will be deemed as a rejection of the offer.

### **SUMMER INTERNSHIP OFFER**

The following policy is only for Summer Internship offered to students for a period of six to eight Weeks after the third year:

- 1. If a student participates in the internship process of a Company, then she/he cannot leave it in between. If such a case arises, then it will be considered that the student is not interested in the internship process, and won't be allowed to sit for further Companies offering summer internship.
- 2. If the student participates in the internship process of a Company and gets an internship offer, she/he cannot reject it or leave the internship mid-way. It is mandatory for the student to accept the offer and complete the internship successfully or else she/he would not be allowed to appear for the placement process.
- 3. All the Companies offering summer internships would fall under the same category and no upgradation of the offers is allowed.
- 4.If the internship offer gets converted into a pre-placement offer (PPO) and the Company offering the PPO lies in the dream category then it is considered a job offer and the student is not allowed to appear for the placement process.
- 5.If the internship offer gets converted into a pre-placement offer (PPO) and the Company offering the PPO lies in Category II then it is considered a job offer and the student still has one upgrade available like in normal placement.
- 6.All students sitting for Summer Internship will have to confirm before sitting about their commitment for the coming company. Hence, she/he cannot leave for any reason if an offer is made.

# DA-IICT STUDENT RESEARCH EXCELLENCE AWARD

### **ELIGIBILITY CRITERIA**

All currently-enrolled DA-IICT students (UG and PG) and the graduated students who received their degrees in the previous academic year<sup>1</sup>are eligible; specifically, the UG students (the BTech ICT, BTech ICT with CS, the BTech in Math and Computing (MnC) or BTech EVD programs) up to one year after the completion of the program (e.g. for the annual award 2024, the students of 2018-2022 batch, 2019-2023 batch, 2020-2024 batch, 2021-2025 batch, 2022-2026 batch and 2023-2027 batch are eligible).

The student will receive an award for each journal article (QI category journal, i.e., top 25 percentile category or referred to as A category journal) and each conference (A\*, A or B category) article that he or she has published provided the student is the first author of the published article and the primary affiliation of the student in the published article is DA-IICT.

**Note**: 1 This provision allows the students to apply for this award even if their paper submission is still not accepted for publication at the time of their graduation, provided it is published within one year after their graduation.

### **SELECTION CRITERIA AND PROCESS**

By the end of November of each year, the office of Dean Research shall send out a Google Form via email to all the UG/PG students of eligible batches and PhD students. The students will provide the information about all of their research publications during their entire degree program at DA-IICT. The form must be submitted by the deadline mentioned in the email from Dean Research's office.

The data collected in the Google Form is provided to the Resource Center for verification, specifically regarding the eligibility criteria

(i) the student is the lead author with DA-IICT affiliation, and

(ii) the publication venue belongs to the A category of journals (Q1, i.e., top 25 percentile), and the A or the B categories for conferences.

a. The Resource Center has prepared a list with ranking of journals and conferences for the year 2023/24 (this list will be updated periodically), where the journal rankings are based on Scimago Journal ranker, and conferences are ranked using the data published at Core.edu and Aminer.

b. For the award eligibility, a journal paper has to be published at a journal with DA-IICT rank of A, and a conference paper has to be published at conferences with DA-IICT rank of either A or B.

All the students who meet the aforementioned Eligibility Criteria will be selected for the DA-IICT Student Research Excellence Award.

The applicants will be informed about the date and venue of the award ceremony via email at least two Weeks before the day of presentations (by the office of Dean-Research).

The list of selected candidates will be shared with the Registrar's office and award ceremony arrangements will be planned accordingly. In case a student can not attend the ceremony due to any unforeseen circumstances, he/she can contact the Registrar office and collect the award at a later date.

Name of the recipients of the DA-IICT Student Research Excellence Award along with other information such as publication details and academic program will be forwarded to the webmaster for displaying/archiving (year-wise) on the Institute website.



### **AWARDEES**

- Monil Charola under the guidance of Prof. Hemant A. Patil, INTERSPEECH 2023
- Siddharth Rathod under the guidance of Prof. Hemant A. Patil, INTERSPEECH 2023
- Rahul Vansh under the guidance of Prof. Sourish Dasgupta, EMNLP (Empirical Methods in Natural Language Processing)
- Balwani Shivani Laxmanbhai under the guidance of *Prof. Saurabh Tiwari*, 2023 IEEE 31st International Requirements Engineering Conference (RE)
- Pratik Ghosh under the guidance of Prof. Bhaskar Chaudhury, Journal of Physics D: Applied Physics 2022
- **Prahar Pandya** under the guidance of *Prof. Saurabh Tiwari*, ESEC/FSE 2022 (ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering)
- Miral Shah under the guidance of Prof. Bhaskar Chaudhury, Physics of Plasmas 2022
- Kamlesh S. Patle under the guidance of Prof. Vinay Palaparthy, Computers and Electronics in Agriculture 2022
- Surupendu Gangopadhyay under the guidance of Prof. Prasenjit Majumder, Expert Systems with Applications 2022
- Twinkle Bhavsar under the guidance of Prof. Abhishek Jindal, IEEE Communications Letters 2022
- Mihir Shirish Desai under the guidance of *Prof. Bhaskar Chaudhury,* IEEE Transactions on Microwave Theory and Techniques 2022
- Nemin Shah under the guidance of Prof. Yash Vasavda, IEEE Communication Letters 2021
- Urvi Oza under the guidance of Prof. Pankaj Kumar, ACIIDS 2021



### **STUDENT RESEARCH**

Voice Liveness Detection Using Morse Wavelet Transform Priyanka Gupta, and Hemant A. Patil, Computer Speech and Language, 2024

Deep learning assisted microwave-plasma interaction-based technique for plasma density estimation **Pratik Ghosh, Bhaskar Chaudhury, Shishir Purohit, Vishv Joshi, Ashray Kothari, Devdeep Shetranjiwala,** Physics D: Applied Physics, 2023

Robust Adversarial Defence: Use of Auto-inpainting. In: Tsapatsoulis, N., et al. Computer Analysis of Images and Patterns **Sharma, S., Joshi, R., Bhilare, S., Joshi, M.V**, International Conference of Computer Analysis of Images and Patterns, 2023

Exactly k MSTs: How Many Vertices Suffice? Apratim Dutta, Rahul Muthu, Anuj Tawari, V. Sunitha , COCOA 2023

Exploring Residual Cepstral Features for Spoken Language Identification Baveet Singh Hora, Krishna Parmar, Shrey Machhar, Hemant A. Patil, Kiran Praveen, Balaji Radhakrishnan, APSIPA ASC 2023

A Wearable Device for Detecting and Analyzing Gait Changes A. J. Muley, K. Sasidhar and R. Dhokai, APSCON 2023

IoT-Based Real-Time Water Quality Monitoring System Using a RC Boat Utkarsh Asari, Raj Desai, Rutu Parekh, and Udit Meena, ICIOTCT 2023

Monitoring effects of heavy metal stress on biochemical and spectral parameters of cotton using hyperspectral reflectance **Priya**, **S. and Ghosh**, **R.**, Environmental Monitoring and Assessment 2023

Spoken Language Identification Using Linear Frequency Residual Cepstral Coefficients Krishna Parmar, Baveet Singh Hora, Shrey Machhar, Hemant A. Patil, Kiran Praveen, Balaji Radhakrishnan, PReMI 2023

RAFT: Evaluating Federated Learning Resilience Against Threats

Kumar M., Radha Agrawal, Priyanka Singh, 16th International Conference on Security of Information and Networks (16th SINCONF 2023)

Environmental and Soil Parameters for Germination of Leaf Spot Disease in the Groundnut Plant Using IoT-Enabled Sensor System **Pooja Garg, Priyanka Khaparde, Kamlesh Patle, Chirag Bhaliya, Ahlad Kumar, Manjunath V. Joshi, Vinay S. Palaparthy,** IEEE Sensors Letters, 2023

Fractional Derivative Based TVD Smoothening and Baseline Correction for Extracting Leaf Wetness Duration From LW Sensor: A Novel Approach

Samaksh Gupta, Yash Agrawal, Anil K. Roy; Ahlad Kumar, Vinay S. Palaparthy, IEEE Sensors Letters, 2023

A Markov Chain Monte Carlo (MCMC) Gibbs Sampler Augmented with Zero Forcing Detection for OTFS Reception **A. Subramaniam and Y. Vasavada**, IEEE WAMS, 2023

Efficient Dynamic Mesh Refinement Technique for Simulation of HPM Breakdown-Induced Plasma Pattern Formation Pratik Ghosh and Bhaskar Chaudhury, IEEE Transactions on Plasma Science 2022



## **STUDENT ACHIEVEMENTS**

- Team Silent 3lers (Bhavya Rajdev, Harshvardhan Sharma, and Preet Sheth) have secured a spot at the ICPC World Finals 2023 in Luxor, Egypt.
- 6 members of our DSC club have been able to crack **Google Summer of Code**, which includes Harsh Patel (FOSSASIA), Abhinav Raj (FOSSASIA), Kartikeya (PERCONA), Mohammad Shadab, Himanshu Saha (CERN), and Khushil Mistry (MOZILLA).
- Naisheel Pinkeshbhai Patel, Aadey Shah, and Jalp Patel's team 3equals1000 has achieved the following achievements in ICPC: Rank 9 among 99 selected teams in ICPC Kanpur regionals. Rank 25 among 260+ selected teams in ICPC Amritapuri regionals got qualified for the ICPC Asia-West continental finals(only team from Gujarat to be qualified for it).
- Naisheel Pinkeshbhai Patel has participated in Meta(Facebook) Hacker Cup 2023 and achieved : Round 1: All India Rank - 88 World Rank - 934 Round 2: All India Rank - 186 World Rank - 1217
- Anshul Darediya has achieved AIR 110 (Global Rank 1075) Meta(Facebook) Hacker Cup Round-1 in 2023.
- Vipasha Vaghela is the **Winner** of the **Azadi ka Amrut Mahotsav Hackathon** (2022-23) All Girls Category and **2nd Runners-up** in the Rajasthan Police Hackathon organized by Rajasthan Police Cyber Crime Awareness Mission.
- The top two winning teams of the national-level hackathon organized in Hackout were from DA-IICT.
- Sumeet Varma came 2nd in TechGIG code gladiators 2016.
- Yash Kumar won TCS Codevita season 6 in 2017.
- Team JustAnotherTeam came 5th in the Gwalior region in ICPC 2017-18.
- Bishesh Oram represented DA-IICT in the HLCC MUN 2018, where he was awarded the best delegation.
- A total of 14 teams qualified in ICPC 2019-20 regionals.
- A total of 10 teams (the highest from any single college) qualified in the Amritapuri regionals in ICPC 2019-20.
- Team Sizzling\_Brownie (Deep Savani, Rutvik Kothari, Dhruval Suthar) came 10th in Amritapuri and Kanpur regional in ICPC 2019-20.
- Team Byte\_me (Preet Sardhara, Jaykishan Parmar, Tanik Pansuriya) came 7th in the Kharagpur region and 15th in the Amritapuri region in ICPC 2019-20.
- Three students, Rohit Chaku, Saumya Doshi, and Rajat Garg represented the college in the **AYMUN** with two of them winning the best delegation (Saumya Doshi and Rajat Garg) and one of them (Rohit Chaku) getting a high commendation prize.
- In Ahmedabad Mirror, our Institute was praised regarding our waste management system.
- "The Eye" a project made by Harsh Patel and Smit Shah got the first prize from INDIA due to which Harsh Patel also received a travel grant to the US.



## **EVENTS CONDUCTED** BY PLACEMENT CELL DA-IICT



Visit of Micron Singapore Team at Placement Cell-August, 2023



Google's Guest Lecture- November, 2023



Goldman Sachs Womens Possibilities Summit Finance Finale- November, 2023



Quicko Full Stack Developer Workshop- September, 2023



Instabase Gen Al Workshop- October, 2023



GTT Foundation Life skills Programme- April, 2024



Career Day Workshop By MSCI- March, 2024



PG Orientation Session- July, 2023



Placement Cell meeting with inaugural batch of M.Sc AA- May, 2024



Mock group discussion- February, 2024



Mock programming test- January - April 2024



Placement Guidelines Session- April, 2024

## **GOVERNMENT FUNDED PROJECTS**

Funding Agencies: MeitY, DST-SERB, DRDO, ISRO, GUJCOST, Govt. of Gujarat, Health and Climate Change Department, IIT Bombay, TIH CHANAKYA Fellowship

Total Funding: 7.8 Crores

Highly Sensitive and SElective E-nose to Detect Hazardous Formaldehyde VOC in Human Spaceflight **Prof. Vinay S. Palaparthy**, DST-SERB, 2024

Secure and Energy-efficient Mixed-domain Compute in Memory Based Al Accelerator Chip for Edge Applications **Prof. Vinay S Palaparthy, Prof. Sreeja Ravindran,** MeitY, 2024

Impact of Climate Change on Crop Yield and Plant Disease for Major Crops In Gujarat using In-house IoT Enabled Sensor System **Prof Vinay S Palaparthy,** Govt of Gujarat, Climate Change Deptt, 2023

A Novel Orthogonal Measurements (Sensors+Images) for Accurate Plant Disease Predictions using In-house developed TRL-6 IoT Enabled System and Machine Learning **Prof Vinay S Palaparthy,** TIH-DRISHTI CHANAKYA Fellowship IIT Indore, 2023

Detection of trace Elements using Micro-sensor array in Human Spaceflight. **Prof. Vinay S. Palaparthy**, ISRO-RAC, 2023

Development of Robotic Computing Accelerator. **Prof. Tapas Kumar Maiti (PI), Prof. Srimanta Mandal (Co-PI)**, SERB, DST, 2023

Optical Camera-Based Smart Navigation System for Assisting Total Knee Arthroplasty. **Prof. Anil K. Roy, Prof. Bakul Gohel**, CSR-IKDRC Govt of Gujarat, 2023

Prototyping Dog Jacket for Real-Time Rescue Operation Inspired by Robotics Technology. **Prof. Tapas Kumar Maiti**, DST-GUJCOST, 2022

KAVACH-Futuristic Flexible electronics-based Communication system for Monitoring soldier's condition during warfare. **Prof. Rutu Parekh**, DST-GUJCOST, 2022

Miniaturization and calibration of an IoT-enabled ultra-low power-consuming heart monitoring of patients with cardiovascular diseases for resource-constrained regions. **Prof. Biswajit Mishra**, GUJCOST, 2022

Implementation techniques of discrete and continuous time quantum random walks and their applications. **Prof. Jaideep Mulherkar (PI), Prof Gautam Datta (Co-PI),** GOI, E&IT, 2022

DisCourse Integrated Dravidium Language to Dravidian Language Machine Translation (DL-DiscoMT) - Under - National Language Translation Mission (NLTM).

Prof. Prasenjit Majumder, MeitY, Govt. of India, 2022

An empirical analysis on Deriving Test Cases from Natural Language Text using the MBT approach. Prof. Saurabh Tiwari (PI), Prof. Sourish Dasgupta (Co-PI), SAC-ISRO, 2022

Indian Language to Indian Language Machine Translation - National Language Translation Mission (NLTM). **Prof. Prasenjit Majumder**, MeitY, Govt. of India, 2022

Speech Technologies in Indian Languages - National Language Translation Mission (NLTM). **Prof. Hemant A. Patil**, MeitY, Govt. of India, 2022

IoT Enabled, Self-Calibrating, and Self-Healing Sensor System for In-situ Agriculture Applications. **Prof. Vinay S. Palaparthy**, TIH, IIT Bombay, 2022



## **CONSULTANCY PROJECTS**

Educational Research Project

Prof Tathagata Bandopadhyay, IIM Ahmedabad, 01/01/2023, Amount Sanctioned: Rs. 12,82,424

For advising the institution on developing objective, fit-for-purpose, and forward-looking strategies for a short, medium, and long-term horizon

**Prof Tathagata Bandopadhyay,** NICMAR-National Institute of Construction Management and Research, 19/12/19, Amount Sanctioned: Rs. 8,50,000

Testing and Certification of Software for Total Knee Arthroplasty **Prof Bakul Gohel,** M/s Arthro 3 D LLP, Ahmedabad, 24/09/2021, Amount Sanctioned: Rs. 6,08,880

Design and Development of a website and Mobile App for Climate Literacy for the GUJCOST office **Prof Biswajit Mishra**, Govt of Guj. GUJCOST, 23/11/2020, Amount Sanctioned: Rs. 60,000

Development of Dew Map of Gujarat **Prof Anil Roy,** Govt of Guj Climate change Deptt, 06/01/2020, Amount Sanctioned: Rs. 19,97,000

Building of Prototype of Financial News Recommendation & Summariser System **Prof P Majumder,** Vista Intelligence Pvt Ltd Kolkata, 19/12/19, Amount Sanctioned: Rs. 30,79,800

Crop Yield Prediction using satellite data and machine learning approach Prof. R Ghosh, Amnex Info Technology Ahmedabad, 27/11/19, Amount Sanctioned: Rs. 5,83,510

Development of OCR algorithms to enhance accuracy of numerical data recognised by the machine **Prof. MV Joshi,** FactSet UK Limited, 25/05/2018, Amount Sanctioned: Rs. 8,76,000



## **MEMORANDUM OF UNDERSTANDING**

- Institut Superrieur D'electronique De Paris (ISEP), Catholic University of Paris, France
- INFLIBNET
- Tata Consultancy Services Ltd.
- Springer Science-Business Media Singapore Pte Ltd. SAC
- Oregon Univesity, USA
- Samsung Research
- SAS
- Military College of Telecommunication Engg (MCTE)
- MoU for Super Computer with GUJCOST
- Crimson Interactive Pvt. Ltd.
- IIRS-ISRO, Dehradun
- Anand Agricultural University
- ISR, Gandhinagar
- TCG Crest
- IIPH Gandhinagar
- NID, Ahmedabad
- IKDRC
- Rishabh Software
- IIMA/BARD
- Jadavpur University
- SVNIT Surat
- IIRS-ISRO, Dehradun (2ND PART)
- Space MNIT, Jaipur
- CSIR-CEERI, Pilani
- Erisha Space Pvt. Ltd.
- Bureau of Indian Standards
- Rosa Power Supply Co. Ltd.
- Texas A & M, USA
- Univerisyt of Milano-Bicocca, Italy
- Micron Semiconductor Technology, India



## **FACULTY SPEAKS**



Our unique academic programs at DA-IICT seamlessly integrate technical and problem solving skills, critical thinking, mathematical and programming skills, social sciences, creativity, project-based learning, and industry internships, providing our graduates with a holistic education that extends beyond traditional engineering boundaries. With a proud history of producing exceptional alumni, our graduates consistently showcase outstanding performance, demonstrating the successful fusion of technical expertise, interdisciplinary knowledge, and real-world experience acquired during their transformative journey at DA-IICT.

### - Prof. Bhaskar Chaudhury, Dean (Academic Programs)

As a faculty, I can see how students are engaged in various academic Courses as part of their curriculum. Many Courses prepare them for facing real world interviews through projects and assignments. Currently, as Dean Students I can say that the SPC is doing a fantastic job of preparing the students for placement drives by conducting mocks and helping students be better prepared. I expect more to come from them in the near future. Keep it going!

### - Prof. Kalyan Sasidhar, Dean (Students)

Students of DA-IICT come from varied backgrounds with different strengths. Each program's curriculum at DA-IICT is catered toward solving problems in a specific domain, aligning with the strengths of students enrolled in a specific program. Our focus is to make students industry-ready by teaching them not only theoretical concepts but also applying these concepts practically to solve real-world problems, which I believe is one of the most important skills one has to learn based on my many years of industry experience. In addition to academics, DA-IICT students also participate in extracurricular activities through many clubs, playing various roles that help them in their well-rounded growth. Combining academic and extracurricular learnings, students of DA-IICT have acquired skills in problem-solving, analytical thinking, decision-making, teamwork, communication, and managerial, key enablers that make them industry-ready.

### - Prof. Amit Mankodi

DA-IICT has a wide variety of robust programmes at both the undergraduate and graduate level. The flagship programme was the B.Tech in ICT, which at the time of its inception was a pioneering interdisciplinary domain in tune with the requirements of an emerging industry encompassing computer science, electrical communication and electronics. The current crop of graduating students looks to keep the tradition thriving and I am sure they will carry forward the good work and enhance the name of DA-IICT. I wish them all the success in their placement endeavors as well as their careers, I also wish the visiting companies have a good experience with our graduating job applicants.

### -Prof. Rahul Muthu

## **FACULTY ACHIEVEMENTS**



### Prof. Saurabh Tiwari

- Selected as ACM India Research Committee member (ACM#RFC) 2022-present, ACM India, 2022
- Awarded by SERB ITS Scheme to attend and present research work at ACM Joint European Software Engineering Conference and Symposium on Foundations of Software Engineering ESEC/FSE 2022 held at NUS Singapore- 14-18.11.222, DSR SERB

### Mr. Pranav Verma (PhD Scholar) - Supervisor - Prof. Anish Mathuria

TII Scholarship for Poster Presentation at CANS - 2023 held in Abu Dhabi, UAE (13-16.11.22) (Grant covered all travel and accommodation expenses, CANS - 2022, Abu Dhabi, UAE

#### Mr. Prahar Pandya (MTech. student) - Prof. Saurabh Tiwari

- Awarded travel grant of USD1000 to attend and present his research work at 30 ACM ESEC FSE 2022, NUS Singapore, 14–18.11.22, ACM SIGSOFT CAPS, 2022
- Awarded travel and registrant grant of Rs 60000 to present a paper entitled CORMS: A GitHub and Gerrit-based Hybrid Code Reviewer Recommendation Approach for Modern Code Review at ACM Joint European Software Engineering Conference and Symposium on Foundations of Software Engineering ESEC/FSE 2022 held at NUS Singapore- 14-18.11.222, ACM India and IARCS

#### Mr. Kamlesh Patle (PhD Scholar) - Supervisor - Prof. Vinay S Palaparthy

Awarded Fellowship for 2022-2026 by TIH-IoT CHANKYA, IIT Bombay in 2022

#### Prof. Tapas Kumar Maiti

- Awarded ISDCS Fellowship by Organising Committee of International Symposium on Devices, Circuits and Systems (ISDCS) in 2022
- Selection of Team from level I to level II of India's Biggest Robotics Competition 17.4.23 by ROBOTICS, GUCOST
- Selection of Team from level II to level III of India's Biggest Robotics Competition 26.7.23 by ROBOTICS, GUJCOST
- Idea Selected on Edge AI System for Infrastructure Health Monitoring in the VLSID 2024- 23.9.23 at VLSID Design Contest, VLSID 2024 Conference
- DA-IICT team won the prize in Hackathon-22 in the "all girls category" for the problem ID505- AI-based tools to determine patterns in issues like garbage, Traffic, crime, etc. at Azadi Ka Amrit Mahotsav Hackathon 2022

#### Prof. Manish Gupta

Selected for appointment as a Computer Society Distinguished Visitor (DV) at Computer Society, IEEE 2022

### Prof. Anil Roy

Financial support of Rs 2 lakh for organizing the International Conference on IEEE Applied Science Conference by SERB, DST 2023

### **Prof. Yash Agarwal**

Financial support of Rs 5 lakh for conducting a workshop on AI/ML Algorithm and Applications on VLSI Design and Technology and a workshop on Image Processing and its applications using VLSI Architectures at SERB, DST under KARYASHALA 2023

#### Ms. Pooja Garg (PhD Scholar) Supervisor - Prof. Vinay S Palaparthy

Awarded Fellowship for 2023-2025 by TIH-DRISHTI CHANAKYA, IIT Indore 2023

### Ms. Neha Arora, PhD scholar - Supervisor- Prof. Biswajit Mishra

IoT-enabled cardiovascular Disease detection and classification device for Resource Constrained Region by IIT Kharagpur (CyPhySS 2023)

#### Ms. Gulafsha Bhatt, PhD scholar - Supervisor - Prof. Yash Agarwal

Performance assessment of stretchable interconnects for flexible electronic systems, NIT Jalandhar (ICCWC Conference 2023)

#### Prof. Manish Khare

Improved multi-scale retinex for image enhancement using guided filter and customized Sigmoid function at 3rd International Conference on Emerging Trends and Technologies on Intelligent Systems (ETTIS-2023), 23-24 Feb. 2023

### **Prof. Vinay S Palaparthy**

- Keynote Speaker in the SERB internation Conference ICETISD 2024 at Poornima University, Jaipur, ICETISD 2024
- Awarded Visvesvaraya PhD schemem Fellowship, Nodal Officer for DA-IICT SERB, MeitY 2024

## **FACULTY ACHIEVEMENTS**



### Mr. Kamlesh Patle (PhD Scholar) - Supervisor - Prof. Vinay S Palaparthy

Awarded Fellowship for 2024-25 at DST-SERB OVDF at the University of Alberta in 2024

### Prof. Pranab Mohapatra (River Engg) and Prof. Biswajit Mishra(DA-IICT)

Supported by IMPRINT-2, DST-SERB IIT Gandhinagar / Civil Engg Deptt. in 2022-23

### Prof. S. Natesan, Prof. K. Vora, Prof. Biswajit Mishra (DA-IICT)

Supported by GUJCOST at IIPHG Gandhinagar (Health) in 2022-23

### Prof. H. Panchasara, Prof Biswajit Mishra (DA-IICT)

Supported by DST S&T by SDAU, Dantewada (Animal Health) in 2022-23

### Prof. Biswajit Mishra

Patented A system and a method for generating Analysis Report for the detection of cattle ESTRUS with App No.2022210146138A in 2023

### Prof. Vinay S. Palaparthy

- Patented Integrated Moisture Sensor with Self-Calibration Mechanism with App No. 202321067926 in 2023 (10.10.23)
- Patented Sensor System For Fault Detection and Correction Mechanism with App No. 202321065768 in 2023 (29.9.23)

### Prof. Hemant A. Patil

- ISCA Distinguished Lecturer, 2020-2022
- APSIPA Distinguished Lecturer, 2018-2019
- Associate Editor, IEEE Signal Processing Magazine, 2021-2023

## INTERNSHIP



### **RESEARCH INTERNSHIP**

The research internship helps in training students to develop independent research skills, something which DA-IICT prides itself on. Faculty on campus act as mentors to the students and thus, developing close interaction between them resulting in excellent research. Some of the areas of research are in various fields of Computer Science, Electronics and Communications, Natural Language Processing, Digital Cash Protocols, Distance bounding Protocols, Guessing Attacks, Hash Chains, Numbering Problems in Trees, Search Algorithms, Information Visualization using Height Mapping, Mobile Applications, BandPass Sampling, FPGA Implementation, CMOS Amplifier/Comparator, Design Study, Current Streaming DACS, Image Compression, Rayleigh Fading Channels, Modes in Optical Fiber, V-SAT Satellite, Information Retrieval, and Human Computer Interaction.

### **SUMMER INTERNSHIP**

The pre-final year students have the liberty to pursue their summer internship in research or as interns in leading tech companies. Summer internship lasts for a period of 6 to 8 Weeks. Both domains have been briefly described in the following points.

### Summer Research Internship:

Students work on research projects under the mentors of their field of interest. It trains them on how research projects are carried out. The interaction between the mentor and the mentee results in good research work.

### Summer Industrial Internship:

Students get an opportunity to work at tech giants. It provides them with different sets of skills that can be applied at the industrial level. They gain experience by working on live projects alongside a team of professionals. It provides them exposure to the commercial world.

### INDUSTRIAL INTERNSHIP

Students are taken as interns in various leading companies where they are exposed to various industrial practices which helps them to gain hands-on experience of the industry projects, and apply their knowledge to the industry as well as understand the functioning of the company. Companies also gain from the fresh perspective and inputs of the students, which in turn, helps in improving their role in the student community. There are two categories of internships.

### **RURAL INTERNSHIP**

The B.Tech Curriculum mandates all students to undertake a four-Week Rural Internship with an objective to expose and sensitize the students to the social and economic realities of rural lives and help them appreciate the constraints and opportunities for development. Rural Internship entails placing students in villages across India to work in NGOs, engaging in various projects associated with socio-economic development, such as education, environment, agriculture, and rural governance.

## **INCUBATION AT DA-IICT**





- **M/S. Kamkaaj Solutions Private Limited:** The Company is inter alia engaged in the business of developing a job aggregator that aggregates jobs that are posted on different job boards/ portals and empowers job-seekers with the features of searching and analyzing jobs.
- **M/S. Corygbee Private Limited:** Rygbee is an online research collaboration platform for researchers, students, and funding agencies. An "Idea Guide", behaves like an AI-boosted "Intellectual Partner" for users to pursue their ideas.
- Alma Connect: A social network based on private alumni networks focused on helping an alum/student get trusted help from his/her alumni network. Established by two students, Swapnil Khandelwal and Rubish Gupta, it has grown to one million users across India.
- M/S. Almaconnect Solutions Private Limited
- M/S. Playpower Labs Private Limited
- M/S.Appbin Labs Private Limited
- M/S. Kamkaaj Solutions Private Limited
- M/S. Corygbee Private Limited
- Innoruption Tech Solution Private Limited
- Yoctosehns Technologies Pvt. Ltd

## **TESTIMONIALS** BY RECRUITING COMPANIES



"It's been a great experience working with DA-IICT. Sneha is supportive and the students work hard for interviews. Always look forward to Amazon's collaboration with DA-IICT."

-Amazon Development Center India Pvt. Ltd.

'Our organization is aimed to create a value driven caring world, and the students from DA-IICT have closely echoed this. Year on year we have onboarded tremendous talent from DA-IICT, who add great value to the projects they undertake. The campus placement team is prompt in their communication and extremely efficient. We hope to continue to partner with the institute for our future hiring needs as well.'

- Colgate Palmolive

"Working closely with the DA-IICT Team has been an enriching experience. Your unwavering support and commitment to bridging the gap between academia and industry have been invaluable to our organization. We have been consistently impressed by the high caliber of students. Their knowledge, professionalism, and enthusiasm have significantly enriched our team. We are truly grateful for the seamless collaboration and the exceptional talent pool the college has provided. We look forward to a continued partnership that fosters growth and success for both the students and our organization."

- Schneider Electric India



"The students at DA-IICT are sincere, cooperative, highly - skilled, disciplined and have successfully converted internships to full-time roles; additionally, Sprinklr has also been able to hire for other full-time positions from the Institute. Kudos to the placement team for a strong collaboration with Sprinklr!"

-Sprinklr



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"We would like to take a moment to express our heartfelt thanks to the campus for their unwavering support during our Campus hiring season for 2022-23 batch, we have been fortunate enough to receive support, encouragement and guidance from the Placement head, staff, and placement coordinators. Institutes that have a strong reputation for academic excellence, outstanding faculty, and a supportive campus community with over 3 years association with Tekion in hiring the best talent. The staff and administrators have been equally supportive, always ready to help me with any issues that I may have faced during my time here. We would like to extend my heartfelt thanks to the campus for their support, guidance and encouragement. we feel privileged to have been a part of this community and we are confident that the skills which Tekion acquired through the students will continue in our journey"

-Tekion



## **TESTIMONIALS** BY ALUMNI

I am immensely grateful for the transformative experience I had at DA-IICT. As an undergraduate student pursuing ICT, my time at DA-IICT laid the cornerstone for my academic and professional journey. DA-IICT not only provided me with a robust academic curriculum but also fostered an environment of innovation, critical thinking, and collaboration. The faculty members at DA-IICT are exceptionally knowledgeable and supportive, always going above and beyond to ensure that students receive the guidance and resources needed to excel. I feel that the teaching and curriculum at DA-IICT is comparable to the best engineering schools not only in India, but abroad as well. One of the standout features of DA-IICT is its emphasis on practical learning and real-world applications. Through hands-on projects, internships, industry collaborations, and excellent coding culture provides a platform to develop a problem-solving mindset. I gained invaluable experience that prepared me for the challenges of the professional world. The exposure to cutting-edge technologies and industry trends equipped me with the skills necessary to thrive in today's fast-paced digital landscape.

### -Ruchit Vithani ,Georgia Institute of Technology

DA-IICT has been a crucial part of my life and in shaping what I wanted to be. Dhirubhai Ambani started this institute keeping in mind the aspirations of the Indian market and its growing IT landscape. DA-IICT enables the students to choose between a spectrum of Courses – from learning Operating Systems to Software Management to understanding society at large. This not only helps the young minds to think beyond computers and laptop screens but actually come up with community oriented innovations. DA-IICT ensures college students are sent to rural visits exposing them to the needs of real India. students passing out of DA-IICT are not only acing IT Jobs but getting into senior level corporate management positions and Bureaucracy. Its resource center has become a center for learning and helping people prepare for almost all possible exams/competition across sectors. Faculty in the institute are well versed and articulate to deal with young curious generation z minds. This along with a rich student body plays an important role in shaping personalities. I am grateful to the institute for making me a better person and helping me achieve my dreams.

### -Mridul Singh, IAS Batch 2020

My journey through DA-IICT has transformed me into an individual equipped with technical knowledge and a broader perspective on life. DA-IICT stands as more than just a premier institute; it's a nurturing ground for holistic growth and excellence. Its unique curriculum, blending technology with other fields, fosters a well-rounded education providing a holistic approach. In the evening, one can feel the sense of community through a variety of scenes on campus, including students and professors engrossed in coding and algorithmic discussions, participants enjoying diverse activities such as sports, music, and art, and club/committee members diligently preparing for upcoming events and festivals. This propelled me towards academic excellence and paved the way for my acceptance into a prestigious Indian Institute of Management (IIM) Mumbai. The impact of DA-IICT extends far beyond its campus, evident in the achievements of its alumni across diverse fields. In essence, DA-IICT isn't just an alma mater; it's a cornerstone of growth, excellence, and lifelong learning for me.

### -Jainil Pariya, IIM Mumbai

DA-IICT isn't just a university; it's a transformative experience. Their forward-thinking curriculum, unlike any other, combined Electronics, Computer Science, and IT. This unique blend exposed me to the very essence of computing, from the intricate workings of low-level hardware all the way up to the powerful software applications we use every day. It was a truly comprehensive foundation that prepared me for anything the tech industry could throw my way.But DA-IICT goes far beyond exceptional academics. The faculty there are world-class. They weren't just professors; they were passionate mentors who fostered a love for learning and a drive to push boundaries. The institute itself provided a fantastic environment for well-rounded development. From top-notch sports facilities that encouraged physical activity to a rich library that fueled intellectual curiosity, DA-IICT offered something for everyone. They didn't just focus on academics – extracurricular activities were highly encouraged, creating a vibrant and diverse campus life.DA-IICT's commitment to innovation was evident everywhere. Their early adoption of Linux, a then-unconventional operating system, showed their willingness to embrace the future. They even launched India's first private radio station, a testament to their pioneering spirit. This environment fostered a competitive coding culture that pushed students to excel and constantly improve their skills. My time at DA-IICT was truly exceptional. I am eternally grateful for the unparalleled education, the supportive faculty, and the incredible memories I made there. The foundation I received at DA-IICT not only prepared me for a successful career path but also instilled in me a lifelong love of learning and a passion for innovation.

### - Rachit Agrawal, Google

## **DA-IICT IN NEWS**



### NEWSMAKERS



### @DAIICT

ULTANCY Services has selected PhD scholar Jainisha Sankhavara for the 'TCS Scholar Programme' for four years from the academic year 2015-16. This prestigious programme entitles her to an attractive fellowship, contingency grant and travel support to present research papers at national and international conferences. Her guide is Prof Prasenjit Majumder.



### @CEPT

🖪 Dhiraj Santdasani presented a paper on solar electric bus at the Footprints nationallevel technical event at M S University, Baroda on February 20. He secured first position, received the first prize and a winner's trophy for the achievement.



### **@HLIC**

MITA Suthar has won the 'Chairman's Teaching Award'. She will be presented the award on the foundation day of Ahmedabad University on February 25.

—Inputs by Anshika

### **DAIICT 2023-24 placement** Two students bag highest package of Rs 82 lakh

The students from Patan and A'bad were offered the highest package by Atlassian, the same company that offered max package last year as well

Niyati.Rana ®ahmedabadmirror.in

Posts @NivatiMIRROR wo final year degree engineer ing students at the Dhirubhai ing students at the Dhirubhai Ambani Institute of Infor-mation and Communication Technology (DAIICT) have bagged I& 82 laki per annum package in the 2023-24 placements. This is a repeat performance of last year's placement when their seniors were also made similar offer.

were also made similar offers.

This year the two students were This year the two students were offered the highest package by Atlassian, the same company that offered the highest package last year, said the placement manager at the DAIICI, Sneha Thakker. The two students Parth Prajapati and Ayush Khamar bagged the high-est package of Rs 82 lakh per annum during the 2023-24 placement and will complete their deere in 2024.

will complete their degree in 2024.

Parth, whose father is a school teacher in Balisana in Patan and mother a homemaker, said he never expected to get such a high package. "I am interning with the same com-pany and was offered the job which I



Final year students Ayush Khamar (L) and Parth Prajapati received the highest package

have accepted. The post of software engineer is a remote one and it does

engineer is a remote one and it does not require us to mandatorily go to their Bangaiore office," he said. Parth said to ensure he got a good offer he started to learn coding and even participated in coding competi-tions as well from the first year of his Information Technology and Communication degree. Ayush, a resident of Ahmedabad, said he appeared for interviews with four different companies before he got this offer. "I got a pre-placement offer after 1 interned with them. I am happy that I got this PPO with the

happy that I got this PPO with the highest pay package as this company has visited the campus for placement

only a couple of times," he said. His father is a mechanical engineer and mother a homemaker. DAIICT officials said as part of the

package, the students' base salary is Rs 20.8 lakh per annum while they will get Rs 60 lakh worth of company

get Rs 60 lakh worth of company stocks over four years. Officials said that even as the placement season is going on, the median salary reported sof aris Rs 13 lakh per year and the lowest salary offered was Rs 5 lakh per year. "There has been an increase of Rs 1 lakh in the median salary of Rs 12 lakh per annum compared to last year. The lowest calculate has emended the came

annum compared to last year. The lowest salary has remained the same at Rs 5 lakh per annum," said officials. They added that the placement season in 2023-24, in a first, facilitat-ed international internship place-ments with Micron Inc. that offered positions in Malaysia. "In the face of a challenging hiring landscare marked hy a global reces-

landscape marked by a global reces-sion and a slowdown in job opportunities, DAIICT has emerged triumphant in its latest placement drive, achieving milestones that speak vol-umes about the institution's resilience and commitment," said Thakker.

## DAIICT girls strike gold at placements

VISA and Qualcomm announce all-girls placement as they believe women make for great techies; HSBC and Ola announce jobs for the physically challenged; institute records 100% placements

Kanupriya Dasgupta amfeedback@timesgroup.in **TWEETS** @ahmedabadmirror

he year promises to be a great oneforthegirlsofDhirubhai Ambani Institute of Information and Communication (DAIICT) as VISA and Qualcomm have announced an allgirls placement to promote women empowerment. Besides, HSBC and Olahave specially announced jobs for the physically challenged students. Two female MTech students and a

BTech student who secured final internship at Qualcomm will be getting placed in the company later this month. Another BTech student of DAIICT secured a package of Rs 14.5 lakh per annum from VISA.

Krishna Manvar, a 20-year-old student of BTech-ICT who received an offer of Rs 14.5 lakh per annum from VISA said, "It is a dream-come-true for me. I have been hired as their software engineer and it's the company's policy to hire women." Another student Isha Sommaiya,

23. an MTech student, who is interning with Qualcomm will be recrui-



Isha Somaiyya (left) and Unnati Parikh hired by Oualcomm; Akshit Soni bagged the highest offer of Rs 39L pa

ted by the company. "Working at a global company like Qualcomm, where I am currently interning, would be a wonderful experience. I will be hired in the next phase. A profes-sional approach helps you in placements

Unnati Parikh, 23, an MTech student who bagged an internship at Qu-alcomm, told Mirror, "As part of their diversity and inclusion drive and kee-ping with its policy, the company is giving priority to girls. I think it's a great initiative globally. As soon as the internship gets over, they will be offered placements depending on the skills. But it is definitely a great lear-

ning experience." DAIICT registered a 100 per cent placement for BTech 2015-2019 and MTech 2017-2019 batches. The placements saw top IT giants scouting for talent on the campus.

The highest annual package offered at the BTech and MTech place-ments this year is Rs 39 lakh per annum (by Microsoft) as against Rs 40 lakh last year; the average salary is Rs



10.24 lakh per annum this year against Rs 10.4 lakh per year. The second highest offer of Rs 30.4 lakh per annum came from Sprinklr; other lucra-Hum cane from spiritely other total tive offers were made by Morgan Stan-ley (Rs 25.33 lakh per annum), Ama-zon (Rs 27.5 lakh per annum) and Qu-alcomm (Rs 20 lakh per annum). Akshit Soni, 21, BTech (ICT) who becard the bichest of the told Mirror.

bagged the highest offer told Mirror. "I had received a pre-placement offer from Microsoft in my second year when I went for internship. Assoonas I complete my exams, I will be joining

Microsoft as software development engineer.'

The profiles offered to the placed students include app developer, full stack developer, banking and finance data analytics engineer and artificial intelligence engineer.

Dr Ashim Banerjee, the placement convenor at DAIICT said, "This year, 350 students have bagged lucrative offers from 22 companies. VISA and Qualcomm have announced jobs only for women as women make for gre-

at techies." The placement which began on July 2018 and ended on November saw participation from companies like Microsoft, Sprinklr, Oracle, Ama-zon, Deloitte, MorganStanley, Deust-che Bank, Flipkart, Endurance, Qualcomm, VISA and Goldman Sachs

Soman Nair, registrar of DAIICT said, "We have seen quite a jump in the profile of companies coming in here this year for recruitment. Approximately, 60 students have opted out of placements as they want to go for higher education or start their own business. DAIICT is making efforts to widen the placement market."

## **DA-IICT IN NEWS**

### **STARTUP CORNER**

You can write in to us at amfeedback@timesgroup.in

**START UP: PROFILED SKIN** NAME: DHRUV GUPTA , AGE: 25 YEARS, M.TECH. (ICT), DA-IICT

# **Tering perfect fit**

DAIICT alumni's start-up generates accurate measurement details for online shoppers looking for the right fit



hopping is no longer an activity that requires you to enter a 100 shops and try out outfits after outfits before making your buy. Online shopping has made the process easy, just a mouse click away. But on the downside, when buying clothes online, most consumers are vexed by the size chart which varies from brand to brand.

Now, DAIICT alumni Dhruv Gupta has come up with the perfect solution for this problem in the form of his start-up Profiled Skin. It is a technological solution that allows buyers to find the right size and fit in a simple and effective manner. The core of the product is an

intelligent and self-evolving algorithm which makes it better performing product when compared to its counterparts in the market. For delivery of the product he is developing Android and iOS libraries

Similar to social profile of Facebook and professional profile of Linkedin, Profiled Skin will enable its user to have a fit profile containing the best suitable measurements for their choice of garments.

Dhruv says, "Profiled Skin has developed an innovative way to generate such a profile. A user just has to click on the picture of a garment and based on the inputs provided the user, his/her measurement profile will be created. This profile can be used to get well-fitting garments from online retailers.

It was his own experience trying to get the right fit that prompted Dhruv to come up with Profiled Skin. "I was always confused whether to buy an L or and XL sized t-shirt, a 34 size denim pants or 36. I realized that, I'm not the only one fac-ing this dilemma. This confusion exists among most people as size of a wearable varies according to style, as well as brands. I saw an opportunity to make an impact on the society with my skill set and educa-tional become and society with the society tional background. So I took up the challenge," he said. A Bangalore-based e-retailer,

said to be the first company in India to offer mass customization of footwear, is a client to ProfiledSkin. "We are in talks with many more e-commerce sites across the country. We are also getting offers for strategic partnerships from many apparel manufacturers. But currently we are focusing only on delivering the best product to our clients and one of its kind experience to the users." Dhruv said.

Through the use of fit profile, the buyers will get accurate size recommendations with precise fit details leading to a better shopping experience. The buyers will also get curated product offerings and precise product discovery. Through all this the buyer will also be indirectly saving the time lost in

return process iterations. The startup is backed by VentureStudio, Ahmedabad University. —An -Anshika



## From star-gazing to music-making, city college clubs do it all





# TWELVE officials from Afghanistan are participating in a Training Course on

Information and Communication Technology Management (ICTM) for UN-FAO and MEW (Ministry of Energy and Water) officials of Afghanistan.

## FACULTY

Abhishek Jindal PhD (Wireless Communications), IIT Delhi

Aditya Tatu PhD (Computer Science), University of Copenhagen, Denmark

**Amit Mankodi** PhD, DA-IICT Gandhinagar

Anil Roy PhD (Physics), IIT Delhi

Anish Mathuria PhD (Computer Science), University of Wollongong, Australia

**Arnab Kumar Ray** PhD (Physics), Jadavpur University, Kolkata

Arpit Rana PhD (Computer Science), University College Cork, Ireland

Arpita Mal PhD (Mathematics), Jadavpur University, Kolkata

Bakul Gohel PhD (Bio and Brain Engineering), Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea

**Bharani Kollipara** PhD (English), The English and Foreign Languages University, Hyderabad

Bhaskar Chaudhury PhD (Computational Plasma Physics), IPR, Gandhinagar

**Biswajit Mishra** PhD (Electrical & Electronics Engineering), University of Southampton, UK

Gautam Dutta PhD (Physics), Physical Research Laboratory, Ahmedabad

**Gopinath Panda** PhD (Mathematics), IIT Bhubaneswar

Hemant A. Patil PhD (Electrical Engineering), IIT Kharagpur

Jaideep Mulherkar PhD (Mathematics), University of California, Davis, USA

Jenson Joseph PhD (Communication), University of Hyderabad, Hyderabad

**Lavneet Singh** MS (Software Systems), BITS Pilani **Madhu Kant Sharma** PhD (Mathematics), IIT Madras

Madhumita Mazumdar PhD (Modern History), University of Calcutta, Calcutta

Maniklal Das PhD (Computer Science), IIT Bombay

**Manish K. Gupta** PhD (Mathematics), IIT Kanpur

Manish Khare PhD (Computer Science), University of Allahabad

Manish Kumar PhD (Electrical Engineering), IIT Patna

**Manjunath V. Joshi** PhD (Electrical Engineering), IIT Bombay

**Manoj Raut** PhD (Mathematics), IIT Madras

**Minal Bhise** PhD (Computer Science), BITS Pilani

Mukesh Tiwari PhD (Optical Science & Engineering), University of New Mexico, USA

Nabin Kumar Sahu PhD (Mathematics), IIT Kharagpur

Naresh Jotwani PhD (Computer Science), Rice University, Houston

**P M Jat** PhD (Computer Science and Engineering), ML Sukhadia University, Udaipur

**P S Kalyan Sasidhar** PhD (Computer Science and Engineering), University of North Texas-Denton, USA

Pankaj Kumar PhD (RF & Microwave), NIT Patna

**Prasenjit Majumder** PhD (Computer Science), Jadavpur University

**Pratim Roy** PhD (Physics), IIT Kanpur

Pritam Anand PhD (Computer Science), South Asian University, New Delhi

**Prosenjit Kundu** PhD (Mathematics), National Institute of Technology, Durgapur



Puneet Bhateja PhD (Computer Science), Chennai Mathematical Institute

**Purbasha Das** PhD (History), Jawaharlal Nehru University, New Delhi

**Rachit Chhaya** PhD (Computer Science), IIT Gandhinagar

Rahul Muthu PhD (Mathematics), Homi Bhabha National Institute, Mumbai

Rajib Lochan Das PhD (Electronics & Electrical Communication Engineering), IIT Kharagpur

Ratna Bharati Bhamidipati PhD (Sociology), Dr B R Ambedkar University, Delhi

**Rutu Parekh** PhD (Electrical Engineering), Sherbrooke University, Canada

Sanjay Srivastava PhD (Physics), University of California, Los Angeles, USA

Saurabh Tiwari PhD (Computer Science & Engineering), IIITDM, Jabalpur

**Shefali Jha** PhD (Anthropology), University of Chicago, USA

Shruti Bhilare PhD (Computer Science and Engineering), IIT Indore

Sourish Dasgupta PhD (Computer Science), University of Missouri -Kansas City, USA

### Sreeja Rajendran

PhD (Electrical and Electronics Engineering), Birla Institute of Technology and Science, Pilani, Dubai Campus

Srimanta Mandal PhD (Computing and Electrical Engineering), IIT Mandi

**Sudip Bera** PhD (Mathematics), Visva-Bharati University, Shantiniketan, West Bengal

**Sujay Kadam** PhD (Electrical Engineering), IIT Gandhinagar

Sunitha V PhD (Mathematics), IIT Madras **Supantha Pandit** PhD (Computer Science), IIT Ropar

Tapas Kumar Maiti PhD (Electronics & Telecommunication Engineering), Jadavpur University, Kolkata

**Tathagata Bandyopadhyay** PhD (Statistics), University of Calcutta, Kolkata

Vinay Palaparthy PhD (Electrical Engineering), IIT Bombay

**Vishvajit Pandya** PhD (Anthropology), University of Chicago, USA

Yash Agrawal PhD (Electronics & Communication), NIT Hamirpur

Yash Vasavada PhD (Electrical Engineering), Virginia Polytechnic Institute and State University, USA



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chneider Electric	Gift Street Capital	SIEMENS	<b>=</b> skolar	einfochips
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# **PROMINENT RECRUITERS**



# **EXTRA COCURRICULARS**



### **EXTRA CURRICULAR ACTIVITIES**

DA-IICT is home to students, faculty, and staff belonging to different cultures and languages from all over India. Students of DA-IICT are as active in extracurricular activities as they are in their academics. Every year, DA-IICT proudly hosts its three major festivals: the technical fest, the sports fest, and the cultural fest. Students also get involved in various cultural activities like drama, dance, music, quizzing, debate, etc., thus resulting in overall development. Students enjoy a strong interest-driven club-oriented culture, which is managed by students.

### **FESTIVALS AT DA IICT**

DA-IICT students always aim to make an event grander and more successful. The annual cultural festival, Synapse sees a footfall of over 15,000 students from all over the country. It plays host to 25 events along with pro-nights wherein various famous artists and singers perform. The institute sports fest, Concours, has also been growing in size and last year saw teams from over 30 colleges participating in nearly 15 sports events. i-FEST, the annual tech-fest boasts of 20 events, such as Blind Code, where you code with your computer screen or App, where you make an application on the spot. There were hackathons, coding competitions, robotics, and various other events. By conducting these events with the support of the Institute, students learn various practical skills, such as public relations, marketing, and sponsorship.

### COMMITTEES

01. Student Placement Cell
02. Tech Support Committee
03. Annual Festival Committee
04. Academic Committee
05. Sports Committee
06. Cultural Committee
07. Cafeteria Management Committee
08. Hostel Management Committee

### **STUDENT CHAPTER BODIES**

- Institute of Electronic and Electrical Engineers (IEEE)
- TEDxDA-IICT
- Model United Nations
- Google Developers' Group
- Association for Computing and Machinery
- Microsoft Student Technical Club

### **CLUBS**

- 01. Artificial Intelligence Club 02. Business Club 03. Chess Club 04. Cubing Club 05. DA-IICT Theatres Group 06. Dance Club 07. Debate Club (The Debating Society) 08. Developer Student Club 09. Electronics Hobby Club 10. Film Club 11. Heritage Club 12. Headrush Quizzing Club 13. Khelaiva Club 14. Microsoft Student Technical Club 15. Muse Club 16. Music Club 17. Photography and Movie-Making Club 18. Press Club 19. Programming Club 20. Radio Club 21 Sambhay 22. Webkit Club
- 23. CINS Club

## **CO-CURRICULAR EVENTS**



























## **CONTACT US**



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**DESIGNED BY:** Manav Ahire Sanskruti Shingala **COORDINATED BY:** Mustafa Lokhandwala Kanishk Jain Divyarajsinh Chundavat SPECIAL THANKS: All Clubs and Committees Placement Office Student Placement Cell

### **PHOTOGRAPHS:**

Cultural Committee M.Des Studio PMMC Resource Centre

#### **CONTENT:**

Dean office (Academic Programs) Dean office (Student Activities) Placement Office Dean office (Research and Development) Registrar Office Resource Centre