



**Dhirubhai Ambani  
University**

Formerly known as  
Dhirubhai Ambani Institute of  
Information and Communication Technology

# B.Tech.

**Information and Communication  
Technology & Honours in ICT with  
minor in Computational Science**



**Admissions 2025**

# DAU at a Glance

**DA-IICT** was founded in 2000 as a unique university devoted to the cutting-edge interdisciplinary area of Information and Communication Technology (ICT). ICT was emerging as the technology of the future bringing in the fourth Industrial Revolution. Well known and highly qualified faculty members joined DA-IICT and developed a curriculum and research program steeped in all aspects of ICT, societal, scientific, and technical. This spirit has been nurtured for the last 24 years and DA-IICT wants to continue its excellence in interdisciplinary teaching and research well into the future.

The Act No. 6 of 2003 of the Gujarat Legislature provided for the establishment of the DA-IICT and conferred on it the status of a University. On 30 November 2004, the DA-IICT was included in the list of Universities maintained by the University Grants Commission under Section 2(f) of the UGC Act, 1956. DA-IICT is a member of the Association of Indian Universities (AIU) as approved by the AIU at its 84th Annual Meeting held during 12-14 November 2009. The National Assessment and Accreditation Council, Government of India has accredited DA-IICT with an **A<sup>+</sup> Grade in 2023**.

The Legislative Assembly of Gujarat passed the DA-IICT Amendment Act Bill on 28<sup>th</sup> February 2024 and the DA-IICT Act (Amendment) 2024, which paved the way for the formation of the Dhirubhai Ambani University, and came into force by the announcement in the Gujarat Government Gazette dated 13<sup>th</sup> May 2024. Consequent upon the said amendments, the institute transforms itself into a multi-disciplinary

university of new and emerging technologies and will establish institutions in other disciplines such as law, management etc.

## Vision and Mission

The vision of the institute is to become a globally recognized institution that offers innovative programs, outstanding faculty, an atmosphere of innovation, a responsive administration, a vibrant campus and a collaborative learning environment that continuously adapts to the changing landscape of research and innovation and the future of work. Toward this, we plan to design and deliver academic programs in both disciplinary and multidisciplinary domains to prepare students for a rapidly evolving work environment.

Govt. of Gujarat conferred the status of **Centre of Excellence** in January 2022

## NAAC (Accreditation): A+ Grade (Year- 2023)

Gujarat State Institutional Rating Framework (GSIRF) awarded **Five-Star Rating in the last three years**

Selected as one of the **Nodal Institutes to mentor Innovators** by the Industries Commissionerate, Govt. of Gujarat

Alumni who have excelled as **entrepreneurs** (founded and co-founded over 100 companies), **technocrats** (CTO, CEO), **bureaucrats** (IAS, IRS, IPS, IES), **academicians** (NUS, University of Chicago, University of Toronto, IIT Madras)

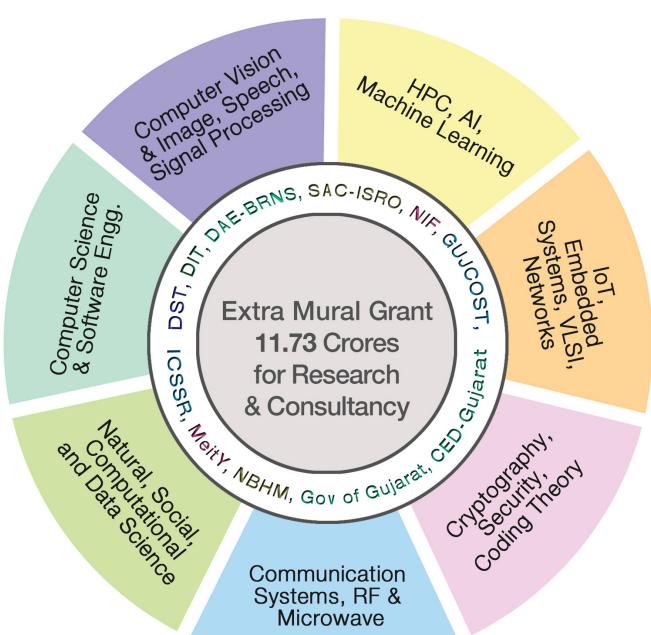
## Annual Student Scholarships: INR 4-5 Crores



# Academics and Research at DAU

## Interdisciplinary and Multidisciplinary Research Oriented Academic Programs

Program Level	Name of the Program	Duration	Unique Features
Doctoral	PhD	4-6 years	- Entry through national level entrance test & interview
PG	<b>MTech</b> (ICT)	2 years	- Thesis and Project mode
	<b>MSc</b> (IT)	2 years	- Industry oriented IT program
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UG	<b>BTech</b> (ICT)	4 years	- 1 <sup>st</sup> institute in India to offer <b>unique program</b> in ICT in 2001
	<b>BTech</b> (Hons in ICT; minor in Computational Science)	4 years	- 1 <sup>st</sup> institute in India to offer UG program in Computational Science
	<b>BTech</b> (Mathematics and Computing (MnC))	4 years	- Intersection of Computer Science & Applied Mathematics to solve complex problems
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**Sponsored Research Projects: 32**

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**Major MOUs / LOUs**

- Institut Superieur D'electronique De Paris (ISEP), Catholic University of Paris, France
- Springer Science-Business Media Singapore
- Oregon University, USA
- University of Evora, Portugal
- Texas A & M University
- University of Milano, Italy
- University of Hildesheim, Germany

**Conferences/ Workshops/ Summer Schools Organized : 25**

**Publications: 600**

**h - index: 48**



# Program Overview

## Why a B.Tech. in ICT & CS?

Computational Science is an interdisciplinary field combining mathematical modeling, computer simulations, and analysis to study various complex systems in disciplines such as physics, biology, economics and finance, social science, etc. Studying such problems requires a strong foundation in mathematical and algorithmic thinking and the ability to abstract complex phenomena through simple models and large-scale computer simulations using high-performance and parallel computing.

The B.Tech. (Honours) in ICT with minor in computational science at DA-IICT is a unique program that introduces undergraduate students to some aspects of the tools and thinking required in computational science. The program is meant for academically inclined, inquisitive students interested in advanced learning. In addition to the foundational courses in ICT, the program also has courses in computational physics, numerical and computational methods, modeling and simulation, and high-performance computing. Through these courses, the students learn model building, analyze and understand complex phenomena through scientific computing, draw inferences, and make predictions.

The students in the program often take advanced electives such as computational Finance, Quantum computing, complex networks, time series analysis, nonlinear dynamics, econophysics, etc., that enable them to delve deeper into many interdisciplinary domains and knowledge areas. The program started in 2013 and has been a preferred one for many of the top-performing students. In a short span, it has developed a strong alumni network with students in top positions in industry, academia, and research labs. In addition to the strength of capabilities of the ICT graduates, students of the program have also been observed to develop a strong interest in advanced learning and research. Over the years,

a significant fraction of the graduates have gone on for advanced degrees in computer science, computational, and data science departments at some of the top universities in India and abroad.

## DA-IICT philosophy and vision

DA-IICT since its inception has been an institute of interdisciplinarity and contemporary domains. B.Tech. programs in ICT and ICT honours with minor in computational science are testimonials to this. With its experience and expertise at institutional innovation and knowledge reform, DA-IICT is well-poised to provide knowledge and training to young minds to provide solutions to the challenges mentioned earlier. The ICT embodies the convergence of Computer and Communication systems and has obtained wide acceptance as a distinct discipline. It is also expected that ICT graduates would enjoy a special niche only if they have certain performance capabilities not found in conventional CSE and/or ECE graduates. Logically this convergence takes place at the systems level, but at the same time it is necessary to accept a certain level of granularity as one goes down to the level of circuits, devices and materials. All programs are designed to operate on a semester-based framework that follows choice-based credit system.

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# Program Structure

The course structure of the curriculum is broadly classified into four categories.

- **Foundational or Core Courses:** Set of compulsory courses taken by every student for first five semesters. These courses are from the technical areas of Computer Science and Information Technology, Electronics and Communication, as well as courses in Humanities, Mathematics and Basic Sciences.
- **Elective Courses:** These courses add to both, the technical strength and humanities and social science skills of the program. The students can choose the elective courses from the available ones from fifth semester onwards. The elective courses are grouped into the following categories.
  - ICT Electives (ICTE)
  - Technical Electives (TE)
  - Humanities and Social Sciences Electives (HASSE)
  - Science Electives (SE)
  - Open Electives (OE)

- **Internships and BTech Projects:** Students will do a rural internship during the third semester winter break at NGO or Government Organization. The students will do an industrial or research internship during the summer break in the end of their 6th semester. Finally the student will take a semester long on-campus project (BTP) or the off-campus project – Industrial Training Project (ITP).
- **Co-curricular Activities:** These are non-class activities like sports, cultural and technical club activities. These courses run over the first four semesters and are graded Pass/Fail.
- **Exploration Projects:** Exploration projects allow students to explore their surroundings to identify interesting problems that admit a design based and/or hardware based solution and make such a product by leveraging the introduction to ICT skills learnt in the first semester. Students are expected to work in groups of 8 to 10 under a faculty mentor over two semesters - second and third semester. This course will be graded on a Pass/Fail basis.





# Course Curriculum

## Semester-1

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

## Semester-3

Science, Technology, Society  
Linear Algebra  
Design and Analysis of Algorithms  
Computer Systems Programming  
Signal and Systems  
Exploration Project-2  
Co-curricular Activities-3

## Semester-5

Software Engineering  
Digital Communications  
Computer Networks  
ICTE-1  
TE-1  
Numerical and Computational Methods

## Semester-7

BTP-1  
ICTE-3  
TE-4  
HASSE-1  
SE-2

## Semester-2

Approaches to Indian Society  
Discrete Mathematics  
Digital Logic and Computer Organization  
Data Structures  
Data Structures Lab using Object Oriented Programming  
Electromagnetic Theory  
Exploratory Project-1  
Co-curricular Activities-2

## 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-6

Environmental Science  
SE-1  
ICTE-2  
TE-2  
TE-3  
Modelling & Simulation

## Semester-8

BTP-2  
OE-1  
OE-2

## Representative list of electives

Graph Theory and Algorithms	Human Computer Interaction	Intro to Data Science
Approximation Algorithms	Data Mining and Visualization	Introduction to Robotics
Computational Complexity	Human Computer Interaction	Introduction to Complex Network
Randomized Algorithms	Natural Language Processing	Stochastic Simulation
Quantum Computing	Natural Computing	Computational Number Theory
Introduction to Cryptography	Software Engineering	Einstein's Physics
Blockchain and Cryptocurrencies	Optimization	Operating Systems
Adversarial Machine Learning	Computational Financial	Nanoelectronics
Machine Learning and Security	Modern Algebra	Introduction to VLSI Circuits
Intro. to coding theory and Applications	Software Project Management	Analog IC Design
Compiler Design	Specification & Verification of Systems	Logic for Computer Science
Digital Image Processing	Models of Computation	Modern European Philosophy
Internet of Things	System and Network Security	Art: Ideas and Perspectives
Digital Signal Processing	No SQL Database	Human Behaviour Management
Statistical Communication	Web Data Management	Culture, Politics, Identity
Wireless System Design	Speech Technology	Organisational Behaviour
RF and Antenna Engineering	Deep Learning	Publics in South Asia: Contemporary Perspectives
Microwave Propagation	Recommendation Systems	
Control Theory	Intro. to AI	Systems, Policies and Implications



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# Admissions

### Total Seats: 90

33% of the seats are reserved under Gujarat Category. Seats under Gujarat Category will be filled as per the guidelines of ACPC. The candidate has to apply to ACPC, GoG, separately.

### Eligibility Criteria

The minimum academic qualification for admission to the programs is that the candidate must have passed or appearing in 2025 in the final examination of 10+2 (Class XII) or its equivalent with Mathematics, Physics and any one of Chemistry/Bio-technology/Computer Science/Biology.

### Selection Process

Admission to the B. Tech (Honours) in ICT with minor CS program will be based on the All India Rank of Joint Entrance Examination 2025 (JEE-2025) Main, which is conducted by the National Testing Agency, Government of India.

The short-listed candidates will be offered admission (confirmed/waitlisted) in order of their merit (based on the All India Ranking of JEE Main 2025) and preferences selected.

### How to Apply

Candidates submit an online application by clicking on the link given on the Institute website.

### Fees Structure\*

**Tuition Fee:** Rs. 1,78,500 per Semester

*\*This Fee Structure is submitted to the Appellate Committee of the State Government for consideration.*

*\*Subject to revision every Academic Year from 8 to 10%.*

### Important Dates

Online application website opens :  
Last date for submission of online applications :

### Scholarships

**UG Institute Fellowships:** A few students admitted to the program are awarded fellowships equivalent to full tuition fees. Fellowship is for best JEE rank holders, best GUJCET rank holders, 12<sup>th</sup> class toppers from different states and girls students.

**UG Merit Scholarships:** A few students admitted to the program are awarded merit scholarships equivalent to full tuition fees based on their semester results.

**UG Merit-cum-Means Scholarships:** A few students admitted to the program are awarded upto 70% of tuition fees as a merit-cum-means scholarships based on their semester results and family's annual income.

**Mukhya Mantri Yuva Swavalamban Yojna,  
Government of Gujarat**

**Hon. Chief Minister Scholarship Scheme,  
Government of Gujarat**

**Digital Gujarat Portal, Government of Gujarat**

**National Scholarships Portal, Government of India**

**Cybage Khushboo Scholarships**

### Education Loan:

The Institute will facilitate the students to avail educational loan from selected banks.

For Inquiries

Email: [ug\\_admissions@daiict.ac.in](mailto:ug_admissions@daiict.ac.in) | Voice call: 079 69 08 08 08

For more details please visit: [www.daiict.ac.in](http://www.daiict.ac.in)



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# B.Tech. MATHΣMATICS & COMPUTING



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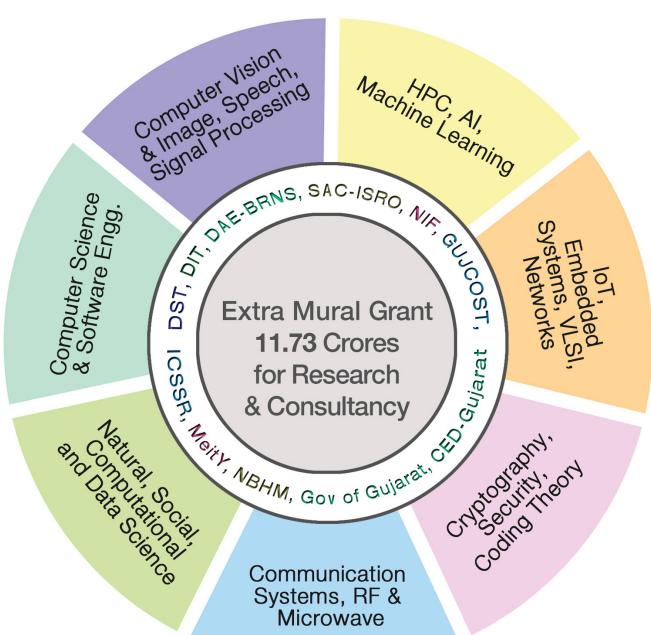
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# Program Overview

## Why a B.Tech program in MnC?

The past few decades have witnessed large scale technological advancements which have facilitated probing at scales that was not accessible earlier. No wonder, we have information like never before, however, unravelling the mysteries hidden in them remains a challenge. Industry, academia and innovators have realized that such problems cannot be looked at through the eyes of any single discipline, but rather, requires interdisciplinary and multidisciplinary approaches. The combined knowledge area of mathematics and computer science provides access to many different approaches that can be adopted for the exploration of such information and thereby creating new pathways for future scientific developments and innovation. Not surprisingly, graduates with a strong foundation in mathematics and computer science have created a unique niche for themselves and there has been an increasing requirement of graduates of these disciplines.

## DA-IICT philosophy, vision and MnC

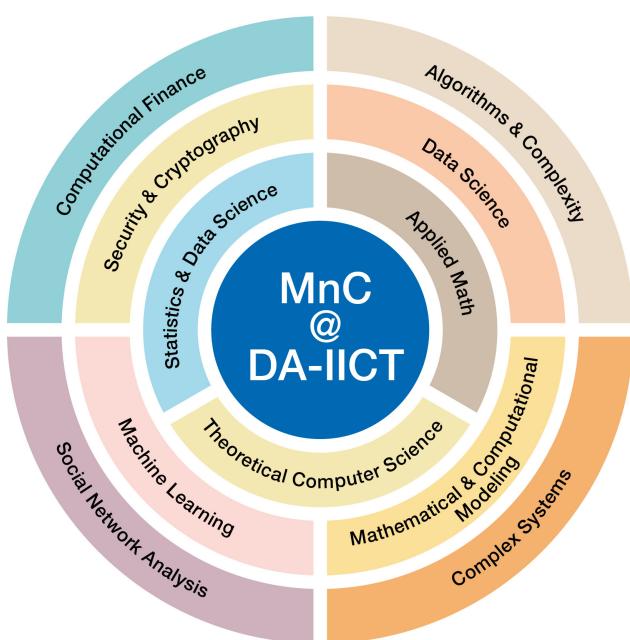
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MnC embodies the fusion of Mathematics and Computer Science. It is obtaining wide acceptance as a distinct discipline dealing with Mathematics as a fundamental intellectual tool in computing and with Computing as a primary component of mathematical problem solving. The curriculum focuses on expanding mathematical, algorithmic and computational thinking abilities of the students. A strong mathematical foundation will enable the students to study and analyse abstract concepts and to model many real life problems as mathematical problems. Algorithmic thinking will enable them to solve these mathematical problems in an automated way while computational thinking will enable them to evaluate the efficiency of these solutions. The rigour in curriculum's content will provide an adequate and solid foundation as well as opportunities for skill development in MnC. The wide variety of competence acquired through the curriculum will make the students eligible to apply for a whole range of occupations and for research and managerial careers in later life.



# Program Overview

MnC program at DA-IICT has been carefully designed in consultation with leading experts from industry and academia from India and abroad. The curriculum blends together foundational aspects of mathematics and computer science with emerging areas in contemporary science and technology. The core course component in the first two years aims to build a solid foundation in mathematics, computer science and humanities and social sciences. Emphasis here is on both technical and communication and creative skills. Core courses in humanities also bring in the role and importance of ethics in technological developments. Elective courses provide exposure in several related disciplines and enable the students to choose and pursue the path of their interest. Overall, the curriculum is a syllabus of courses that ensures competence, quality and adaptability of the graduates.



## Salient Features of the program

- The program is designed keeping in mind the emergent areas in modern science and technology.
- The program structure is contemporary with blend of courses in traditional as well as new emergent areas.
- A rigorous program that also provides flexibility in learning. It has a strong foundation and at the same time inculcates interdisciplinary thinking and provides the required skill.
- The program core consists of 42% courses in computer science, 36% in mathematics and 22% in humanities and social sciences and combined knowledge areas of math and computing
- MnC electives in the broad areas of theoretical computer science, applied math and statistics and data science.
- Open electives in the areas of engineering arts and design, humanities, social science & management.
- Independent projects, rural, industrial and research internships that help the students to expand their knowledge base and pursue the path of their own interest.

## Careers

Apart from the available prospects in traditional computer science and IT, graduates of the BTech (MnC) program from DA-IICT will be suitably prepared for jobs in emerging niche areas in data science, computational finance, mathematical modelling and large-scale computer simulation. Our graduates will also be able to pursue career paths in higher education in areas of applied maths, computer science and computational sciences.

# Course Curriculum

## Semester-1

Mathematical, Algorithmic, & Computational Thinking  
Computer Organization and Programming  
Discrete Mathematics  
Digital Logic Design  
Language and Literature

## Semester-2

Functions 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

## 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  
Independent Project – 1 / MnC Elective – 6

## 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 /BTP – 1

## Semester-8

MnC Elective – 10 / BTP-1  
BTP-2

## Representative list of electives

Graph Theory and Algorithms	Data Mining and Visualization	Stochastic Simulation
Approximation Algorithms	Human Computer Interaction	Dynamical Systems
Computational Complexity	Natural Language Processing	Computational Number Theory
Randomized Algorithms	Network Science	Fluid Dynamics
Quantum Computing	Time Series Analysis	Game Theory
Introduction to Cryptography	Software Engineering	Queuing theory
Block Chain and Cryptocurrencies	Hypothesis Testing	Operations Research
Adversarial Machine Learning	Multivariate Statistics	Functional Analysis
Machine Learning and Security	Bayesian Analysis	Stochastic calculus for finance
Introduction to coding theory & Applications	Financial Data Analysis	Computational finance
Compilers	Machine Learning in Finance	



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### Important Dates

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Last date for submission of online applications	:	9 <sup>th</sup> June 2025

For Inquiries

Email: [ug\\_admissions@daiict.ac.in](mailto:ug_admissions@daiict.ac.in) | Voice call: 079 69 08 08 08

For more details please visit: [www.daiict.ac.in](http://www.daiict.ac.in)



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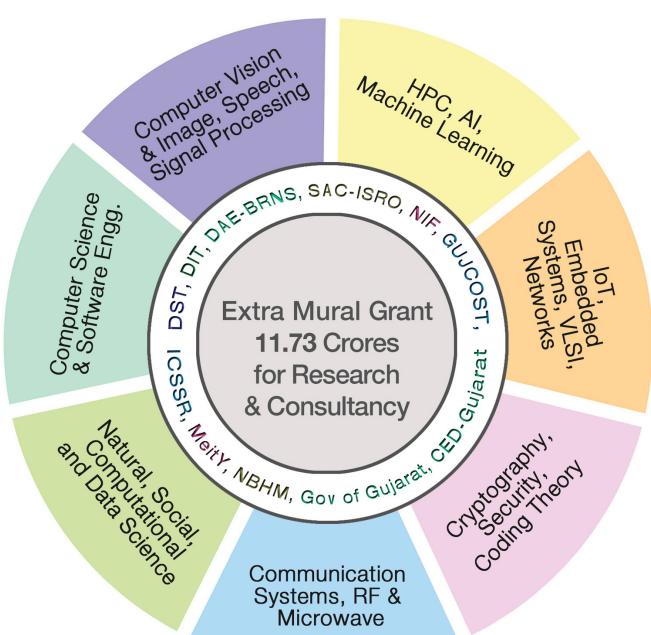
## Annual Student Scholarships: INR 4-5 Crores



# Academics and Research at DAU

## Interdisciplinary and Multidisciplinary Research Oriented Academic Programs

Program Level	Name of the Program	Duration	Unique Features
Doctoral	PhD	4-6 years	- Entry through national level entrance test & interview
PG	<b>MTech</b> (ICT)	2 years	- Thesis and Project mode
	<b>MSc</b> (IT)	2 years	- Industry oriented IT program
	<b>MSc</b> (Data Science)	2 years	- Hands-on program
	<b>MSc</b> (Agriculture Analytics)	2 years	- In collaboration with IIRS & AAU
	<b>MDes</b> (CD)	2 years	- Fusion of ICT and Design
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UG	<b>BTech</b> (ICT)	4 years	- 1 <sup>st</sup> institute in India to offer <b>unique program</b> in ICT in 2001
	<b>BTech</b> (Hons in ICT; minor in Computational Science)	4 years	- 1 <sup>st</sup> institute in India to offer UG program in Computational Science
	<b>BTech</b> (Mathematics and Computing (MnC))	4 years	- Intersection of Computer Science & Applied Mathematics to solve complex problems
	<b>BTech</b> Electronics and VLSI Design (EVD)	4 years	



**Sponsored Research Projects: 32**

**Consortia Projects (DST, MeitY): 4**

**Industry / Consultancy Projects: 2**

**Major MOUs / LOUs**

- Institut Superieur D'electronique De Paris (ISEP), Catholic University of Paris, France
- Springer Science-Business Media Singapore
- Oregon University, USA
- University of Evora, Portugal
- Texas A & M University
- University of Milano, Italy
- University of Hildesheim, Germany

**Conferences/ Workshops/ Summer Schools Organized : 25**

**Publications: 600**

**h - index: 48**

# Program Overview

## Why a B.Tech. program in ICT?

DA-IICT has played a pioneering role in developing innovative undergraduate programs in Information and Communication Technology (ICT) in India since 2001. A student trained in ICT is able to integrate Information Technology, Communication Technology, Electronics Engineering and Social Sciences courses with a solid grounding in Mathematics and Science, Humanities and Social Sciences, which a student trained in conventional Computer Science & Engineering or Electronics and Communication Engineering alone will not be able to do.

B.Tech. (Honours) in ICT Program: This degree will be awarded to students who complete some extra course credits in addition to all credit/course/internship/project requirements stipulated for the B.Tech. (ICT) program. These students have to complete a minimum of 15 additional credits (and a minimum of five additional courses) in the form of electives.

## DA-IICT philosophy and vision

DA-IICT since its inception has been an institute of interdisciplinarity and contemporary domains. B.Tech. programs in ICT and ICT honours with minor in computational science are testimonials to this. With its experience and expertise at institutional innovation and knowledge reform, DA-IICT is well-poised to provide knowledge and training to young minds to provide solutions to the challenges mentioned earlier. The ICT embodies the convergence of Computer and Communication systems and has obtained wide acceptance as a distinct discipline. It is also expected that ICT graduates would enjoy a special niche only if they have certain performance capabilities not found in conventional CSE and/or ECE graduates. Logically this convergence takes place at the systems level, but at the same time it is necessary to accept a certain level of granularity as one goes down to the level of circuits, devices and materials. All programs are designed to operate on a semester-based framework that follows choice-based credit system.

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# Program Structure

B.Tech. ICT curriculum consists of core courses, technical and open elective courses. Students will be working on Rural and Industrial internships during the program. They will be having

- **Foundational or Core Courses:** These are set of compulsory courses taken by students during first 5 semesters. These courses are from the technical areas of Computer Science and Information Technology, Electronics and Communication, as well as courses in Humanities, Mathematics and Basic Sciences.
- **Elective Courses:** These courses add to both, the technical strength and humanities and social science skills of the program. The students can choose the elective courses from the available ones from the fifth semester onwards. The elective courses are grouped into the following categories:
  - ICT Electives (ICTE)
  - Technical Electives (TE)
  - Humanities and Social Sciences Electives (HASSE)
  - Science Electives (SE)
  - Open Electives (OE)

- **Internships and BTech Projects:** Students will be working during their 3rd semester winter break for the rural internships with NGOs or government organizations. During 6th semester summer, they will be working for their Research/Industrial Internship and during the 8th semester they have BTech Project (BTP) or Industrial Training Project (ITP).
- **Co-curricular activities:** These are non-class activities like sports, cultural and technical club activities. These courses run over the first four semesters and are graded Pass/Fail.
- **Exploration Projects:** The students explore their surroundings to identify interesting problems. They formulate a design based and/or hardware based solution and turn it into a product by leveraging the introduction to ICT skills learnt in the first semester. Students are expected to work in groups of 5 to 8 under a faculty mentor over two semesters - second and third semester. This course will be graded on a Pass/Fail basis.





# Course Curriculum

## Semester-1

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

## Semester-3

Science, Technology, Society  
Linear Algebra  
Design and Analysis of Algorithms  
Computer Systems Programming  
Signal and Systems  
Exploration Project-2  
Co-curricular Activities-3

## Semester-5

Software Engineering  
Digital Communications  
Computer Networks  
ICTE-1  
TE-1

## Semester-7

BTP-1  
ICTE-3  
TE-4  
HASSE-1  
SE-2

## Semester-2

Approaches to Indian Society  
Discrete Mathematics  
Digital Logic and Computer Organization  
Data Structures  
Data Structures Lab using Object Oriented Programming  
Electromagnetic Theory  
Exploratory Project-1  
Co-curricular Activities-2

## Semester-4

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

## Semester-6

Environmental Science  
SE-1  
ICTE-2  
TE-2  
TE-3

## Semester-8

BTP-2  
OE-1  
OE-2

## Representative list of electives

Graph Theory and Algorithms	Human Computer Interaction	Intro to Data Science
Approximation Algorithms	Data Mining and Visualization	Introduction to Robotics
Computational Complexity	Human Computer Interaction	Introduction to Complex Network
Randomized Algorithms	Natural Language Processing	Stochastic Simulation
Quantum Computing	Natural Computing	Computational Number Theory
Introduction to Cryptography	Software Engineering	Einstein's Physics
Blockchain and Cryptocurrencies	Optimization	Operating Systems
Adversarial Machine Learning	Computational Financial	Nanoelectronics
Machine Learning and Security	Modern Algebra	Introduction to VLSI Circuits
Intro. to coding theory and Applications	Software Project Management	Analog IC Design
Compiler Design	Specification & Verification of Systems	Logic for Computer Science
Digital Image Processing	Models of Computation	Modern European Philosophy
Internet of Things	System and Network Security	Art: Ideas and Perspectives
Digital Signal Processing	No SQL Database	Human Behaviour Management
Statistical Communication	Web Data Management	Culture, Politics, Identity
Wireless System Design	Speech Technology	Organisational Behaviour
RF and Antenna Engineering	Deep Learning	Publics in South Asia: Contemporary Perspectives
Microwave Propagation	Recommendation Systems	
Control Theory	Intro. to AI	Systems, Policies and Implications



# Admissions

## Total Seats: 252

33% of the seats are reserved under Gujarat Category. Seats under Gujarat Category will be filled as per the guidelines of ACPC. The candidate has to apply to ACPC, GoG, separately.

## Eligibility Criteria

The minimum academic qualification for admission to the programs is that the candidate must have passed or appearing in 2025 in the final examination of 10+2 (Class XII) or its equivalent with Mathematics, Physics and any one of Chemistry/Bio-technology/Computer Science/Biology.

## Selection Process

Admission to the B. Tech (ICT) program will be based on the All India Rank of Joint Entrance Examination 2025 (JEE-2025) Main, which is conducted by the National Testing Agency, Government of India.

The short-listed candidates will be offered admission (confirmed/waitlisted) in order of their merit (based on the All India Ranking of JEE Main 2025) and preferences selected.

## How to Apply

Candidates submit an online application by clicking on the link given on the Institute website.

## Fees Structure\*

**Tuition Fee:** Rs. 1,78,500 per Semester

\*This Fee Structure is submitted to the Appellate Committee of the State Government for consideration.

\*Subject to revision every Academic Year from 8 to 10%.

## Important Dates

Online application website opens	:	3 <sup>rd</sup> April 2025
Last date for submission of online applications	:	9 <sup>th</sup> June 2025

For Inquiries

Email: [ug\\_admissions@daiict.ac.in](mailto:ug_admissions@daiict.ac.in) | Voice call: 079 69 08 08 08

For more details please visit: [www.daiict.ac.in](http://www.daiict.ac.in)

## Scholarships

**UG Institute Fellowships:** A few students admitted to the program are awarded fellowships equivalent to full tuition fees. Fellowship is for best JEE rank holders, best GUJCET rank holders, 12<sup>th</sup> class toppers from different states and girls students.

**UG Merit Scholarships:** A few students admitted to the program are awarded merit scholarships equivalent to full tuition fees based on their semester results.

**UG Merit-cum-Means Scholarships:** A few students admitted to the program are awarded upto 70% of tuition fees as a merit-cum-means scholarships based on their semester results and family's annual income.

**Mukhya Mantri Yuva Swavalamban Yojna,  
Government of Gujarat**

**Hon. Chief Minister Scholarship Scheme,  
Government of Gujarat**

**Digital Gujarat Portal, Government of Gujarat**

**National Scholarships Portal, Government of India**

**Cybage Khushboo Scholarships**

## Education Loan:

The Institute will facilitate the students to avail educational loan from selected banks.



**Dhirubhai Ambani  
University**

Formerly known as  
Dhirubhai Ambani Institute of  
Information and Communication Technology

# B.Tech. Electronics & VLSI Design



**Admissions 2025**

# DAU at a Glance

**DA-IICT** was founded in 2000 as a unique university devoted to the cutting-edge interdisciplinary area of Information and Communication Technology (ICT). ICT was emerging as the technology of the future bringing in the fourth Industrial Revolution. Well known and highly qualified faculty members joined DA-IICT and developed a curriculum and research program steeped in all aspects of ICT, societal, scientific, and technical. This spirit has been nurtured for the last 24 years and DA-IICT wants to continue its excellence in interdisciplinary teaching and research well into the future.

The Act No. 6 of 2003 of the Gujarat Legislature provided for the establishment of the DA-IICT and conferred on it the status of a University. On 30 November 2004, the DA-IICT was included in the list of Universities maintained by the University Grants Commission under Section 2(f) of the UGC Act, 1956. DA-IICT is a member of the Association of Indian Universities (AIU) as approved by the AIU at its 84th Annual Meeting held during 12-14 November 2009. The National Assessment and Accreditation Council, Government of India has accredited DA-IICT with an **A<sup>+</sup> Grade in 2023**.

The Legislative Assembly of Gujarat passed the DA-IICT Amendment Act Bill on 28<sup>th</sup> February 2024 and the DA-IICT Act (Amendment) 2024, which paved the way for the formation of the Dhirubhai Ambani University, and came into force by the announcement in the Gujarat Government Gazette dated 13<sup>th</sup> May 2024. Consequent upon the said amendments, the institute transforms itself into a multi-disciplinary

university of new and emerging technologies and will establish institutions in other disciplines such as law, management etc.

## Vision and Mission

The vision of the institute is to become a globally recognized institution that offers innovative programs, outstanding faculty, an atmosphere of innovation, a responsive administration, a vibrant campus and a collaborative learning environment that continuously adapts to the changing landscape of research and innovation and the future of work. Toward this, we plan to design and deliver academic programs in both disciplinary and multidisciplinary domains to prepare students for a rapidly evolving work environment.

Govt. of Gujarat conferred the status of **Centre of Excellence** in January 2022

## NAAC (Accreditation): A+ Grade (Year- 2023)

Gujarat State Institutional Rating Framework (GSIRF) awarded **Five-Star Rating in the last three years**

Selected as one of the **Nodal Institutes to mentor Innovators** by the Industries Commissionerate, Govt. of Gujarat

Alumni who have excelled as **entrepreneurs** (founded and co-founded over 100 companies), **technocrats** (CTO, CEO), **bureaucrats** (IAS, IRS, IPS, IES), **academicians** (NUS, University of Chicago, University of Toronto, IIT Madras)

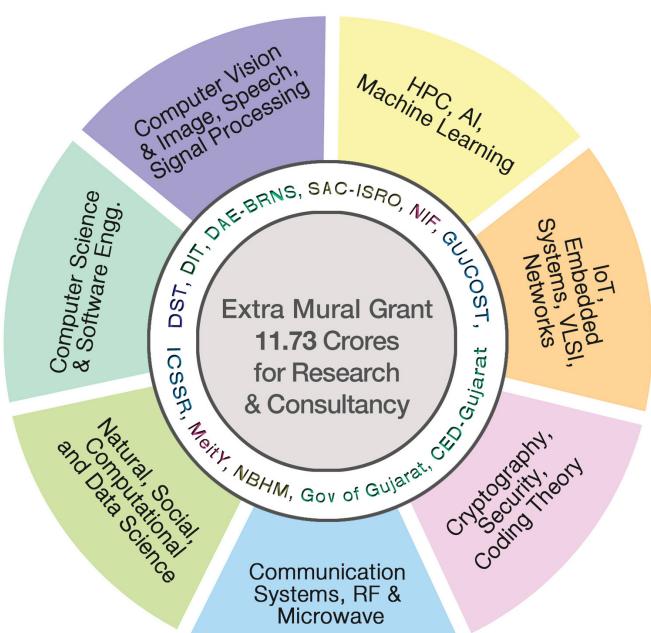
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# Program Overview

## Why a B.Tech. program in EVD?

The electronics industry has achieved a phenomenal growth over the last few decades, mainly due to the rapid advances in large scale integration technologies and system design applications. Semiconductor industry is the lifeline of electronics and computing and is poised to grow \$1 trillion by 2030. Very-large-scale integration (VLSI) is the process of incorporating millions of transistors on a single semiconductor chip. With the advent of VLSI designs, the number of applications of integrated circuits (ICs) in high-performance computing, controls, telecommunications, image and video processing, and consumer electronics has been rising at a very fast pace. This trend is expected to grow rapidly, with important implications on VLSI and Electronic System designs.

Recently, the Government of India has launched India Semiconductor Mission with a vision for growth and development of the semiconductor industry and to enable India to become a global hub for semiconductor design and manufacturing. This expected growth in the semiconductor industry in turn requires trained engineers to support the technology and to sustain development in this area. The domain of Electronics and VLSI design is interdisciplinary in nature. It provides strong foundation building through tailored courses in mathematics, physics, electronics and system design which strengthens the student fraternity in knowledge building, problem solving and design skills. These skills further pave the way for future scientific developments and innovation. Graduates with the above mentioned skill set are anticipated to be in high demand given the current scenario where the electronics industry is booming and has a huge requirement for manpower.

## DA-IICT philosophy, vision and B.Tech. (EVD)

DA-IICT since its inception has been an institute of interdisciplinarity and contemporary domains. B.Tech. program in Information and Communication Technology (ICT), B.Tech. in ICT with minors in Computational Science and B.Tech. in Mathematics and Computation (MnC) are testimonials to this. From the academic year 2023-2024, DA-IICT is offering a new B.Tech. program in Electronics and VLSI Design (EVD). With the institute's experience and expertise in innovation and knowledge reform, DA-IICT is well-poised to provide knowledge and training to young minds to provide solutions to real world problems. The B.Tech. program in Electronics and VLSI Design (EVD) at DA-IICT, is therefore a strong step in this direction.

EVD is a multidisciplinary domain which provides highly specialized knowledge to design, fabricate and test, devices, circuits and systems, at 'micro and nanoscale' levels. The curriculum focuses on using the fundamental knowledge of analog and digital circuit design to build energy efficient and optimal circuit designs for a multitude of applications like smart homes, agriculture, healthcare, robotics, etc. The curriculum is designed to provide the required skillset through the foundation courses in Electronics like semiconductor physics, electronic circuits, digital and analog electronics etc. in the initial semesters. The advanced courses in VLSI and System Design further help to strengthen and hone their analytical and design skills. The hands on training in VLSI CAD and system development tool suites plays a key role in increasing their employability in industry. The rigour in the curriculum also paves the way for students aspiring to pursue higher studies.

# Program Overview

The proposed B.Tech. course maintains a balance between theory and practice, ensuring that the students gain relevant skills as per the requirement of the industry. The program is designed to operate on a semester-based framework that follows choice-based credit system. The first 2 years will focus on the basics, leading to strong foundations in humanities, mathematics, logical reasoning, physics, programming skills and basic engineering. In the 3rd and 4th year, the students will get a deeper understanding in VLSI and Electronics System Design along with the freedom to choose from a wide range of electives.



In the 2nd year, students will be introduced to courses such as Controls and Communications, Embedded System Design and Analog Electronics which will provide them the necessary knowledge to select one of the specialization routes in the upcoming semesters. The Electronic Design lab course offered in the 4th semester will enable the students to learn the practical aspects of measurement techniques and different software tools. A unique and state-of-the-

art design project is introduced where the student will get an opportunity to work towards designing an integrated circuit from specification to fabrication. The student will also get an opportunity to delve into the realms of product design and entrepreneurship.

From the third year onwards, the student will also be able to choose from a wide range of innovative inter-disciplinary courses (free electives). In the 6th semester, the student will have the unique experience of testing the chip that he/she had designed earlier. Additionally, the student will also be encouraged to go to research labs/organizations for a period of 8 weeks during the summer to design and/or fabricate a device. The individual project is to be taken in semesters 5 and 6. Students can work with a faculty mentor at DA-IICT and will be encouraged to explore different System Design Projects while using various software tools and hardware platforms. Another unique feature of the proposed course is the group design project in the 7th semester. In this, students will have an opportunity to use their skills into practice and experience working for an industry or an academic advisor.





# Course Curriculum

## Semester-1

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

## 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-III

## Semester-5

Digital Signal Processing Hardware  
VLSI Design  
VLSI Design Lab  
Open elective -I  
Specialization Elective-II  
Principles of Economics  
Individual Project-I

## Semester-7

Specialization Elective -IV  
Specialization Elective -V  
Open elective-III  
Group Project

## Semester-2

Engineering Mathematics II  
Digital Logic and Computer Organization  
Data Structures  
Data Structures Lab using Object Oriented Programming  
Electromagnetic Theory  
Approaches to Indian Society  
Exploration Project I  
Co-curricular Activities-II

## 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 -I  
Co-curricular Activities-IV

## Semester-6

Environmental Science  
Open elective-II  
VLSI Testing and Validation  
Specialization Elective -III  
Individual Project-II,III

## Semester-8

BTP/Internship

## Specialization routes

### Electronic System Design

VLSI Technology  
Real Time Embedded System Design  
Advanced Computer Architecture  
Secure Hardware  
IoT Sensors and systems

### VLSI Design

VLSI Technology  
VLSI Circuits for DSP  
Analog and Mixed Signal IC  
MEMS  
IoT Sensors and systems



## Dhirubhai Ambani University

Formerly known as  
Dhirubhai Ambani Institute of  
Information and Communication Technology

# Admissions

### Total Seats: 40

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### Eligibility Criteria

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For more details please visit: [www.daiict.ac.in](http://www.daiict.ac.in)