

Information Brochure 2024-25

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Why Silicon?

SiliconTech, the engineering institute of Silicon University, is a thriving ecosystem of learning, innovation, and research. More than 2500 undergraduate and postgraduate students gain skills to invent, start a business, or take on tech-leadership roles. Since its inception in 2001, Silicon has embraced modern technology and innovative techniques to evolve its ecosystem.



Ranking & Recognitions

NAAC	
Grade 'A'	

AICTE Approved

NBA Accredited
UG Programs
(CSE, ECE and EEE)

NIRF 2022 Rank- 161 (Engineering) NIRF 2023 Band 151-300 (Innovation)

Awarded "Best performing Institution's Innovation Council (IIC)" for the 5th consecutive year in 2023, by MoE, Govt. of India

Only IIC from Odisha to be selected as a mentor institution in 2023 and 2021, by MoE, Govt. of India

Odisha State Energy Conservation Award 2022

Recognized as an "Incubator" in 2022 by Start-up Odisha

C V Raman Award for Academic Excellence 2021

Received "Start-up Cell" award in 2021 from BPUT, Odisha

Our Innovation & Incubation Centre is approved as a Business Incubator (BI) in 2019, by MSME, Govt. of India

Awarded the "Best Engineering College" in Odisha in 2018 & 2019 by Indian Society for Technical Education (ISTE)

Won the "Best Technical Institute Award in Research and Development" in the Odisha Technological Conclave 2017

"Outstanding Engineering Institute in Eastern zone" by ABP News in 2016

Programs Offered

Undergraduate (B.Tech.) Programs

Computer Science and Engineering (CSE) Electronics and Communication Engineering (ECE) Electrical and Electronics Engineering (EEE) Electronics and Instrumentation Engineering (EIE)

Postgraduate (M. Tech. / M.Sc. / MCA) Programs

M.Tech.

Computer Science and Engineering (CSE)

Electronics and Communication Engineering (ECE)

Power Engineering and Energy Systems (PE & ES)

M.Sc.

Data Science

VLSI

Embedded Electronics & IIoT

Molecular Medicine

MCA

Masters in Computer Applications

Ph.D. Program

Engineering

Computer Science and

Engineering

Electrical and Electronics

Engineering

Electronics and Communication

Engineering

Electronics & Instrumentation

Engineering

Electrical Engineering

Mechanical Engineering

Basic Sciences

Physics

Chemistry

Mathematics

Humanities

English

Management

Economics

Psychology



B.Tech. Programs

The curriculum and teaching of the four undergraduate engineering programs nurture intellectual curiosity, entrepreneurship, and industry readiness in students.

Duration: 4 years
Credits: 160
B.Tech. with Honours
or Minor: 175 credits

Innovate, Implement, Impact: The B.Tech. Advantage

Preparatory classes for GATE with no additional fee

NPTEL courses

IEEE, ISTE, and CSI Student Chapters

Google developer student club

Industry & site visits

Workshops and seminars

Industry-led Summer Internship Program in 30+ domains

Six-month internship under the Practice School (PS) program

Navigate your career path while you pursue your studies



Scope 1: IndustryBe a part of the industry

Career Development Programs

Skilling & up-skilling programs in collaboration with industry experts

Pre-Placement Training

Communications, aptitude, technical and personality development training



Scope 2: ResearchJoin the research community

Patents & Publications

Journal publication & patent filing in collaboration with faculty

Major Project

15-credit major project under faculty guidance in the final year



Scope 3: Entrepreneurship
Build your venture

Prototype Design & Development

Expert guidance and networking opportunities by the Entrepreneurship Development Cell experts

Business Incubation

••••••

Early-stage Seed and Pre-Series A funding, networking with anchor clients and venture funders

B.Tech. Computer Science and Engineering (CSE)

INTAKE: 300

Here, you will gain proficiency in the theory and application of fundamental concepts of Computer Science. Core focus areas include programming, data structures, algorithms, database systems, computer architecture, networking, and security.

	% Student Placed	Highest Package	Average Package
2023	86%	28 LPA	6.16 LPA
2022	100%	25 LPA	5.4 LPA

CSE Achievers



Putul Kumari 2020-2024 Flipkart, 32.5 LPA



Debanwita Mahato 2020-2024 Headout, 18 LPA



Gopinath Barat 2020-2024 Micron Technology, 14 LPA



Srijan Paul 2019-2023 DeepSource, 28 LPA

B.Tech. Electronics and Communication Engineering (ECE)

INTAKE: 240

Here, you will acquire the best technological know-how in electronic devices and their applications. Students learn both fundamental courses such as analog and digital electronic circuits and advanced courses such as digital/analog VLSI design and embedded systems.

	% Student Placed	Highest Package	Average Package
2023	82%	20 LPA	5.53 LPA
2022	99%	33 LPA	5.16 LPA

ECE Achievers



Manisha Priyadarshini 2020-2024 TATA Power, 6 LPA



Mahavir Ganapati Dash 2019-2023 McKinley Rice, 20 LPA



Subham Rath 2018- 2022 Texas Instruments, 33 LPA



Siddhant Sar 2019- 2023 Workz, 13.5 LPA

B.Tech. Electrical and Electronics Engineering (EEE)

INTAKE: 120

Here, you will develop an understanding of circuits used in modern technologies, including computers. Students will also learn to design electrical control systems and build a range of devices with applicability in diverse areas like industrial automation, aeronautics, and smart grids.

	% Student Placed	Highest Package	Average Package
2023	64%	9.5 LPA	5.7 LPA
2022	94%	8 LPA	4.59 LPA

EEE Achievers



Jagannath Prasad Maharana 2020-2024 Movidu Technologies, 7 LPA



Suryasanata Rath 2020-2024 TATA Power, 6 LPA



Saswat Sovan Mohapatra 2019-2023 JSW, 9.5 LPA



Sourav Panda 2019-2023 Spikewell, 8 LPA

B.Tech. Electronics and Instrumentation Engineering (EIE)

INTAKE: 60

This program equips students with advanced knowledge in electronic devices, VLSI technologies, and sensor applications. Core courses encompass a comprehensive study of transducers & measurements, industrial automation and control, IoT, and Industry 4.0.

	% Student Placed	Highest Package	Average Package
2023	81%	9.5 LPA	5.02 LPA
2022	100%	6.5 LPA	4.25 LPA

EIE Achievers



Himanshu Sekhar Pathak 2020-2024 Movidu Technologies, 7 LPA



Vasundhara Rani 2019-2023 JSW, 9.5 LPA



Prabhat Kumar Padhiary 2019-2023 First American, 7.5 LPA



Nishita Mohanty 2019-2023 Hexaware, 6 LPA

Credits: 80 Intake: 9

Duration: 2 years

M.Tech. Programs

Designed to cultivate innovation and mastery, these programs empower students to explore emerging technologies and make meaningful contributions to their respective industries.

M.Tech. Computer Science and Engineering (CSE)

This program equips a graduate engineer with analytical and problem-solving skills using advanced algorithms.

Core focus areas include advanced data structures and algorithms, distributed database systems, and soft computing. Students can specialize in high-performance computing, advanced machine learning, the Internet of Things, and security.



M.Tech. Electronics and Communication Engineering (ECE)

This program equips a graduate engineer with advanced learning and practice in electronic devices and their applications.

Students can pursue their specific interests through elective courses from VLSI, embedded systems, soft computing and and advanced digital signal processing.

M.Tech. Power Engineering and Energy Systems (PE & ES)

Offered by the department of EEE, this program equips a graduate engineer with advanced learning and practice in power systems.

Core courses include computational methods for power systems, power system analysis, power systems dynamics and research methodology.



M.Sc. Programs

Duration: 2 years Credits: 80 Intake: 30

Our M.Sc. programs offer a tailored curriculum and hands-on learning opportunities to prepare students for dynamic careers or further academic pursuits in their chosen fields.

M.Sc. (Data Science)

This program prepares the graduates to understand & learn the concepts of Data Science for application in diverse fields dealing with a large amount of stored or streaming data.

Core areas of study are programming for data science, scalable database systems, and machine learning. Students can specialize in big data analytics, data security and privacy, data visualization, and reporting.



M.Sc. (Data Science) Achievers



Shikha Suman 2022-2024 ApMoSys, 6 LPA



Ashutosh Patra 2022-2024 Teleglobal, 5 LPA



Shubham Pradhan 2022-2024 Teleglobal, 5 LPA

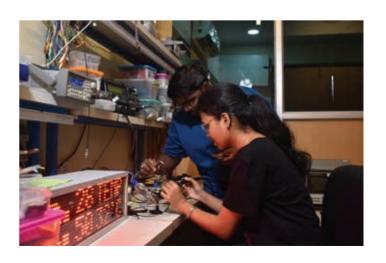


Visakha 2021-2023 Argusoft, 7.1 LPA

M.Sc. (VLSI)*

This program prepares the graduates with the knowledge to design and develop integrated circuits and systems using very large-scale integration technology.

Core areas of study are digital and analog circuits, programming for VLSI, VLSI design using Verilog HDL, CMOS VLSI design, Analog VLSI design and IC Fabrication Technology.



^{*} This program was launched in 2023

M.Sc. (Molecular Medicine)*

The program is a response to the increasing demand for qualified scholars in biomedicine and molecular biology.

The students will pursue advanced skilling and training in the field of Molecular Medicine in the newly established state-of-the-art'JBS Haldane Centre for Molecular Medicine (HCM)'. Core areas of study are molecular basis of disease, epigenetics, molecular oncology, stem cells, medical genetics, immunology, and endocrinology.





M.Sc. (Embedded Electronics & IIoT)*

This program will equip the students with the skills necessary to develop innovative and cost-effective embedded solutions for the electronics and manufacturing industries. They will acquire skill-oriented knowledge required for a wide range of high-tech jobs including Hardware & Embedded Systems, Firmware Development, Circuit Design, M2M and IIoT Protocols, PLC/DCS/SCADA/VFD, Embedded OS, Linux Programming, Machine Learning, and Al Technologies.



^{*}This program was launched in 2023

MCA Program

The MCA program focuses on advancing teaching and research in the theory, design, and development of computer-based systems, including information processing applications.

Duration: 2 years Credits: 80 Intake: 60

Masters in Computer Applications

This program prepares students to design and develop applications like information systems and web and mobile applications. Core courses are programming languages, databases, and software engineering. Specializations are available in machine learning, soft computing, and the Internet of Things.

MCA Achievers



Jyoti Prakash Behera 2022-2024 Incture, 7 LPA



Lipsa Praharaj 2022-2024 ApMoSys, 6 LPA



Janmejay Ghosh 2021-2023 Argusoft, 7.1 LPA



Srutibini Das 2021-2023 PwC, 6 LPA

Ph.D. Program

Silicon launched its own Ph.D. program in Engineering, Science, Humanities, Social Sciences, and allied interdisciplinary areas in January 2022, as per the UGC guidelines.

Research Facilities:

- State-of-the-art research laboratory and equipment
- Internet-based plagiarism detection software TURNITIN
- Licensed Software like MATLAB, COMSOL, TCAD
- Institute-sponsored IEEE membership
- Free access to ScienceDirect and Scopus Indexed Journals
- Free access to Wiley, Springer, and Proquest e-text books
- Access to IEEE Xplore
- · Financial assistance for patenting
- Incentives for journal publications





Research & Collaborations

"Silicon proudly maintains over 20 collaborative partnerships with industry giants, esteemed knowledge institutions, and reputable consultancy firms."





Silicon signed an MoU with the Health & Family Welfare Department, Government of Odisha to establish two state-of-the-art super speciality hospitals in the districts of Angul and Barbil on 4 October 2023.

Silicon signed an MoU with Tata Power to provide hands-on training to the students and equip them with the necessary skills for creating a talent pool in the power sector on 14 July 2023.



Silicon researchers collaborate with academics, industry experts, and scientists from across the globe to promote advances in science and technology.

22



341 SCI/Scopus indexed journals

195

Journals with high impact factor

239 Conference proceedings

56

Books/book chapters

Industry Consultation Contracts

As on 30 April 2024

Silicon has received grants amounting to over **3 Crores** from various funding organizations like the Department of Science and Technology, Govt. of India, AICTE, and BPUT to conduct research in diverse areas of science and technology.

Entrepreneurship

The Entrepreneurship Development Cell (ED Cell) at Silicon is recognized as the most vibrant ED Cell in the state. Silicon's Business Incubator (BI) has successfully incubated 14 start-ups bringing technology products and services to the marketplace.

BI IMPACT

30.35 Crores Funding received

78.42 Crores
Current revenue

146.52 Crores
Projected revenue in next two years

906
People employed

SUCCESS STORIES



Manisha Priyadarshini Sahoo from the B.Tech. CSE batch of 2024 with her team 'One Piece' won one lakh rupees seed amount for her proposed idea in the 12th edition of the Young India Challenge organized by Human Circle, Delhi at Silicon on 25 and 26 March 2023. Their project involved a community-based approach for recycling e-waste and wet waste to generate profit for society.



Two teams from Silicon won cash prizes of three lakh rupees each for being selected among the top ten ideas in the Odisha Startup Yatra 2023 organized by the Government of Odisha on 29 January 2024 at O-Hub, Bhubaneswar. Shreeman Debasmit (CST, 2024) & Dwarikanath Choudhary (CSE, 2024) showcased a new aerial vehicle design. Samarpita Nayak (CSE, 2024) & Swayamsiddha Mohanty (CST, 2024) proposed ZenCharge EV stations with cafes on highways.

Entrepreneurs in Focus



Biraja Prasad Rout 2005-2009 Biggies Burger 'n' More



Lipsa Panigrahi 2006-2010 ORPHUB Consultancy Services



Brijesh Samantray 2007-2011 Propelld



Anindita Dash 2001-2005 Iktaara Creations-'Hands Entwining Magic'



Surendra Nath 2010-2013 Vaisali Dairy



Kumar Avinas 2005-2009 BSR Combines

Placement Highlights

Key Statistics

B.Tech.

(2023 graduating batch)

83%Students placed

80Companies participated

28 LPAHighest package

5.8 LPA Average package

246 Internship offers

(2022 graduating batch)

96%Students placed

65Companies participated

33 LPA Highest package **5.1 LPA** Average package

221Internship offers



MCA _

(2023 graduating batch)

70%
Students
placed

7.1 LPA
Companies
participated

7.1 LPA
Highest
package

(2022 graduating batch)

91%
Students
placed

35
Companies
participated

7.5 LPA
Highest
package

M.Sc. (Data Science)

(2023 graduating batch)

50%
Students
placed

20
Companies
participated

7.1 LPA
Highest
package

(2022 graduating batch)

94%
Students
placed

Companies
participated

6 LPA
Highest
package

Our Flagship Skilling Programs

Practice School (PS)

Applicable only to final year B.Tech. students of all branches Optional component of B.Tech. curriculum

Carries 15 academic credits

Program duration is six months / one semester Can be availed in 7th semester (Jul to Dec) or in 8th semester (Jan to Jun)

Usually assisted by monthly stipend in the range of 8K -60K

Key Statistics

(2024 graduating batch)

261Students opted for PS

75% Converted to placements

65 PS Stations*

14K Average Stipend

60K Highest Stipend **5.2 LPA** Average Package

(2023 graduating batch)

237 Students opted for PS **90%**Converted to Placements

61 PS Stations*

15K Average Stipend **50K** Highest Stipend **6.23 LPA** Average Package

(2022 graduating batch)

128 Students opted for PS **100%** Converted to Placements

27 PS Stations* **10K** Average Stipend **40K** Highest Stipend

6.01 LPA Average Package

^{*}Practice School (PS) Stations are companies where the PS students do their internship like Accolite, BALCO, STMicroelectronics, Vodafone etc.



Practice School (PS) program on Embedded Systems at PHYTEC, Skill Development Institute, BBSR

Summer Internship

Applicable to B.Tech./MCA/M.Sc students

Compulsory component

Carries 1 academic credit Program duration is approximately 100 hours or 30 – 45 Days

Held during summer breaks

Helps in skilling & upskilling by providing hands-on learning sessions mostly by Industry experts

Our Recruiters (Last 3 Years)

IT-Product/Consulting

Accenture
Accolite Digital
Acorn Globus
Aditi Consulting

Akridata Amazon ApMoSys Aptus Data Labs Argusoft

BRN Commerce Capgemini Capillary CAW Studios Centroxy

CGLIA Chargebee Cognizant Cozentus Date TheRamp

Deloitte (Cybersecurity domain)

DeltaX
DXC
ESSPL
Evosys
Eximietas
Finastra
First American

FSS Genpact

GlobalFoundries

Glosity

Goranggo & Company

HashedIn HCL Headout Hexaware HighRadius Hughes Systique

IBM Incture Infosys

Innova Solutions

Intel

Intellect Design Intellipaat INVINCIX iServeU ITC infotech Kaynes KPIT

Kreativan Technologies Kristellar Aerospace

Kuvera

Larix Technologies

LatentView Logit One LTTS Mavenir

Micron Technology Mindfire Solution MindGraph Mindtree Modak Analytics Mohs10 Technologies

Movidu Technology MQAS MTX Nagarro

Nirmalya Labs ODISOFT Pcon Utilities PeopleStrong Persistent

Pipli Technologies PoloSoft Technologies Prodapt

PwC Qvantel Rapidsoft Recruit CRM

Propelld

Rumango

Runo Sanmina SAP Labs

SearchingYard Signicent SimplfyVMS Spikewell

Squbix

Silicon TechLab

Subex

Surya Digital Surya Software SysCloud

TCS

Tech Mahindra

Teleglobal International Texas Instruments Tiger Analytics

upGrad ValueLabs Wipro Workz Xoriant Zensar

Ziroh Labs

VLSI / Core Manufacturing / Media / Research / Insurance & Banking / Sales & Marketing

Adani Group Aloha Technology ARF Design Argus News

Asiczen Technologies Aurus Tech

Bajaj Electricals Blue Star Byju's CAMS

CoreEL Technologies

COSMOVOLT DeepSource

Digit General Insurance

DzinePixel
Edu-versity
Electroboltz
Fusion Practices
GoComet
Haber
Infogain

JSW

Kellton Tech

Marquee Semiconductor Medha Sevo Drives Mentor Graphics

nslhub Open-Silicon Pentair

Phoenix Software

PHYTEC (Embedded Domain)

Rotodyne Engineering

Scaledge

Sevya IT

SmartSOC Solutions

SquidMind

STMicroelectronics

Synopsys Tata Power Vodafone Idea

VuNet VVDN

Xeedo Technologies

Campus Life

The Silicon Student Council (SSC) is a representative student body led by the Secretary-General. The office bearers comprise of core team members, elected representatives from each class, and nominated representatives from each club.

More than 20 student clubs, groups and learning societies help to explore extra-curricular interests



Technology ClubsCircuit Club, SWITCH Club, Robotics Club, QWERTY Club



Personality Development Clubs Health & Gym, Sports, Cricket, Yoga Club



Social and Cultural ClubsSocial Media Cell, CineMax Club, Creative Club, Music Club, Photography Club



Learning SocietiesIEEE, ISTE, CSI, Unstop, Code Chef



Sports and Fitness Clubs
Health & Gym, Sports Club, Cricket Club, Yoga Club



Social Service Zeal Club, Green Club, YfS, NSS

Facilities

Academics -



Spacious Classrooms with audio-visual facility



Laboratories with state-of-the-art equipment



Lecture Theatres with advanced audio-visual setup



Central Library having discussion rooms & separate reading cubicles



Research Center for building a thriving research community



A 400-seater auditorium

Other Facilities



SkyLab - An outdoor 24*7 Wi-Fi zone



SunDeck – Sports Complex having 400M Running Track, Basketball Court, Badminton Court, Volleyball Court, Football Ground, Cricket Ground.



Gym - Well-equipped with a dedicated instructor

- 1. **Residences:** 2 boys' residences with the capacity of 1200
 - 1 girls' residence with a capacity of 600
 - Each resident is provided with a bed, table, chair, wardrobe, new mattress & pillow
 - AC rooms also available
 - Most of the rooms are on sharing basis
- 2. **Medical facilities:** 24 x 7 ambulance facility
 - A general physician and a gynaecologist visit the campus twice a week
 - On-campus Residence Clinic with first-aid essentials
- 3. **Dedicated counselling psychologists:** Present on campus to help the students
- 4. Transport facilities: Available at no additional cost

Our Alumni

Best Offers*



Putul Kumari CSE, 2024 Flipkart, 32.5 LPA



Sourav Mishra
CSE, 2023
McKinley Rice, 20 LPA



Subham Rath ECE, 2022 Texas Instruments, 33 LPA



Swapna Sanjog Mohanty CSE, 2022 Amazon, 25 LPA



Akash Dash CSE, 2020 Wiley, 40 LPA



Raj Jha CSE, 2019 Swiggy, 42 LPA

Best Career Advancements*



Avipsa Bhujaban CSE, 2024 MS, University of Buffalo, USA



Arunav Mishra
CEN, 2024
MS, New Jersey Institute
of Technology, USA



Prabhudutta Mishra CSE, 2023 MS, North Carolina University, USA



Anubhav Pattnaik CSE, 2023 MS, New York University, USA



Digbijayee Nayak CSE, 2023 GATE 2022 AIR 299 GAIL, India



Smrutiranjan Dalei CSE, 2023 GATE 2022 AIR 250 IlSc, Bangalore



Contact Us

ADMISSIONS TEAM 2024 – 25

General Enquiry:

+91 9937289499 / 7381499499

B.Tech. Programs:

Prof. Bikram Keshari Mishra (+91 8249925509) Mr. Gopal Chandra Sahoo (+91 9338525089) Prof. Ramaprasad Panda (+91 7978970033)

M.Tech. / MCA / M.Sc. Programs:

M.Tech:

Prof. Bikram Keshari Mishra (+91 8249925509) Prof. Rabindra K. Dalei (+91 9937737895)

M.Sc. (DS): Prof. Rabindra K. Dalei (+91 9937737895) M.Sc. (VLSI): Prof. Biswajit Baral (+91 9937071268)

M.Sc. (EE & IIoT): Prof. Ambarish G. Mohapatra (+91 9938918991)

M.Sc. (Molecular Medicine): Prof. Amit Roy Chowdhury (+91 8056160589)

MCA Program: Prof. Rabindra K. Dalei (+91 9937737895)

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