



JIS UNIVERSITY

Department of

COMPUTER SCIENCE & ENGINEERING



DEPARTMENTAL BROCHURE

2025

www.jisuniversity.com
Agarpara Campus, Kolkata
81, Nilgunj Road, Agarpara, Kolkata-700109

COMPUTER SCIENCE & ENGINEERING DEPARTMENT

ABOUT :

The Department of Computer Science and Engineering offers 4-year B.Tech. and BCA programmes in Computer Science and Engineering.

At the undergraduate level, the Department lays emphasis on foundations in Computer Science and Engineering with emphasis on hardware / software / systems. The students get exposure to state-of-the-art education and hands-on experience through well-equipped laboratories. The students are encouraged towards innovative thinking supported by projects that support this process.

VISION :

Build a strong research and teaching environment towards meeting the future needs of the nation.

MISSION :

- Provide academic excellence through quality teaching-learning methods and train students to apply their knowledge to solve real world problems.
- Enhance the potential of the students towards career paths with high quality foundation in ethics and critical thinking.

PROGRAMS OFFERED :

- **Engineering**
 - ◆ **B. Tech**
 - CSE (Computer science Engineering)
 - CSE with AI & machine Learning
 - CSE with Cyber Security
 - CSE with Data science
 - ◆ **B. Tech CSE Lateral**
 - ◆ **M. Tech**
 - ◆ **PhD**
- **Computer Application**
 - ◆ **BCA**

SALIENT FEATURES OF OUR DEPARTMENT :

- **State-of-the-Art Infrastructure** – Well-equipped laboratories, high-performance computing facilities, and modern classrooms.
- **Experienced Faculty** – Highly qualified professors with expertise in diverse areas of Computer Science & Engineering.
- **Industry Collaboration** – MoUs with leading tech companies for training, internships, and research projects.
- **Internship & Training Programs** – Hands-on industry exposure through mandatory internships.
- **Student Innovation & Hackathons** – Encouragement for participation in coding competitions, hackathons, and startup incubation.
- **Global Exposure** – Opportunities for exchange programs, international conferences, and research collaborations.
- **Active Student Clubs & Societies** – Coding club, AI club, Robotics club, and more to foster technical and leadership skills.



Scholarship Opportunities :

- **Swami Vivekananda Merit-Cum-Means Scholarship**
- **Astom India STEM Scholarship**
- **Reliance Foundation Undergraduate Scholarship**
- **Aikyashree - WB Merit Cum-Means Scholarship**
- **National Means-Cum Merit Scholarship Scheme**

COURSE PLAN :

The Computer Science & Engineering (CSE) program is designed to equip students with a strong foundation in computing principles, software development, and emerging technologies. The curriculum follows a balanced approach, combining theoretical concepts with hands-on practical training. The first year covers fundamental subjects like Mathematics, Physics, and Programming. From the second year onwards, students delve into core CSE subjects, including Data Structures, Algorithms, Operating Systems, Database Management, and Computer Networks. The curriculum also includes advanced topics such as Artificial Intelligence, Machine Learning, Data science, IoT, Cybersecurity, and Blockchain Technology to align with industry trends. Elective courses and capstone projects allow students to specialize in areas of their interest. Additionally, students undergo internships, industry collaborations, and research projects, ensuring they graduate with real-world experience and a competitive edge in the job market.

SYLLABUS :



• B. Tech

- Engineering Mathematics I & II
- Engineering Physics / Chemistry
- Basic Electrical & Electronics Engineering
- Engineering Mechanics
- Programming in C
- Data Structures
- Digital Logic Design
- Environmental Science
- Engineering Drawing
- Python Programming (Lab)
- C Programming Lab / Data Structures Lab
- Discrete Mathematics
- Object-Oriented Programming (Java/C++)
- Computer Organization & Architecture
- Operating Systems
- Design and Analysis of Algorithms
- Database Management Systems
- Software Engineering
- Computer Networks
- DBMS Lab / OS Lab
- Java / OOPs Lab
- Communication Skills & Professional Ethics
- Theory of Computation
- Web Technologies
- Compiler Design
- Artificial Intelligence
- Machine Learning
- Cloud Computing
- Internet of Things (IoT)
- Data Mining & Data Warehousing
- Mini Project / Seminar
- AI/ML Lab / IoT Lab / Web Tech Lab
- Elective I (e.g., Blockchain, AR/VR, Cybersecurity, NLP)
- Big Data Analytics
- Human Computer Interaction
- Software Project Management
- Cybersecurity / Ethical Hacking
- Elective II & III (e.g., Quantum Computing, Edge AI, DevOps)
- Research Methodology
- Major Project – Phase I & II
- Industrial Visit / Seminar

• BCA

- Fundamentals of Computers & IT
- Programming in C
- Digital Electronics
- Mathematics for Computing
- Communication Skills
- Operating Systems (Basics)
- Web Design (HTML, CSS, JavaScript)
- C Programming Lab
- Web Design Lab
- Environmental Studies
- Data Structures using C
- Object-Oriented Programming in C++ / Java
- Database Management Systems (DBMS)
- Computer Networks
- Software Engineering
- Operating Systems (Advanced)
- Java / OOP Lab
- DBMS Lab
- Python Programming
- Web Application Development (PHP / JavaScript Frameworks)
- Data Analytics / Basics of AI & ML
- Cloud Computing
- Cybersecurity & Ethics
- Mobile Application Development (Android/iOS basics)
- Project Work / Internship / Dissertation
- Elective II & III (e.g., Digital Marketing, IoT, Game Dev)
- Python Lab / Cloud & Security Lab

Department's Visionaries



**Dr. Sandip
Roy**



**Dr. Rajesh
Bose**



**Dr. Dharmpal
Sigh**



**Dr. Dipankar
Mishra**



**Dr. Sayantan
Nath**



**Dr. Nazma B J
Naskar**



**Dr. Paramita
Sarkar**



**Dr. Abhrendu
Bhattacharya**



**Dr. Radhakrishna
Jana**



**Dr. Bidisha
Bhabani**



**Dr. Tanaya
Das**



**Dr. Kaushik
Adhikary**



**Mrs. Sonali
Bhowmick**



**Mrs. Debmitra
Ghosh**



**Mr. Chowdhury
Md Mizan**



**Mr. Suprativ
Saha**



**Mr. Debasish
Mahanty**

Publication Highlights :

Faculty Publication Details				
SN	Item	2023-24	2022 - 23	2021 - 22
1	No. of Peer Reviewed journal published	44	30	29
2	No. of Peer Reviewed conference papers published	14	2	3
3	No. of books/book chapters published	6	6	4
4	No. of Patents	7	2	0

Student Publication Details		
SN	Assessment Year	No. of Publication
1	2023-24	29
2	2022-23	27
3	2021-22	15



Placement Highlights :



Year - 2022

Name	Course	Company Placed
Anudeep Das	B.TECH	MINDTREE
SAYANI PAL	B.TECH	WIPRO
Arindam Panda	B.TECH	BYJU's
SOUVIK DEY	B.TECH	NAGARRO SOFTWARES / HIGHRADIUS
sanjit shome	B.TECH	BYJU's
PIYALI PAUL	B.TECH	NSEIT
SAGNIK GHOSH	B.TECH	WIPRO / TCS
SWARNADIP GHOSH	B.TECH	ACCENTURE / TECH MAHINDRA
ANKITA MISHRA	B.TECH	ACCENTURE / HEXAWARE / WIPRO
TANYA SAXENA	B.TECH	WIPRO / TCS / High Radius
KOYEL MONDAL	B.TECH	WIPRO
MADHURIMA MUKHERJEE	B.TECH	WIPRO
AMAN GIRI	B.TECH	PERSISTENT / BLUECONCH / JOSH TECHNOLOGIES/ TCS / WIPRO
SNEHASISH DAM	B.TECH	WIPRO
DEEPAK KUMAR	B.TECH	WIPRO
SAGAR MISHRA	B.TECH	WIPRO
PRAMOD KUMAR PANDEY	B.TECH	WIPRO
UMRAO SINGH	B.TECH	CITTITUSTECH
SHIVAM SHARMA	B.TECH	TCS
ARKA NARAYAN JAS	B.TECH	CAPGEMINI
SOUMALYA CHOWDHURY	B.TECH	ACCENTURE
KOUSTAVI DAS	B.TECH	ARC DOCUMENTATION SOLUTIONS
TUHIN SARKAR	B.TECH	NAGARRO SOFTWARES
SAHINI MOULICK	B.TECH	EMBEE SOFTWARES

Year - 2023

Name	Course	Company Placed
ABHISHEK KUMAR GUPTA	B.TECH	IBS Software
Ankit Prasad	B.TECH	Persisitent Systems
ANKITA SAH	B.TECH	Hexaware Ltd
ARKAJYOTI PODDAR	B.TECH	Ernst & Young
DIPANKAR MAZUMDER	B.TECH	IBS Software & CAPGEMINI
GAIRIK SAJJAN	B.TECH	Capgemini ; Ernst & Young ; TCS
INDRANIL SAMANTA	B.TECH	TCG Digital & Tech Mahindra Ltd
KRISHNENDU PAL	B.TECH	AMAZON ; Ernst & Young ; Persistent Systems & Tech Mahindra Ltd
MD IMTIYAZ	B.TECH	ByJus
SANDIP DAS	B.TECH	Siechem
SANGHITA DATTA	B.TECH	UST Product Engineering & Tech Mahindra Ltd
SAYANTAN BANERJEE	B.TECH	Bitwise Solutions
Shipon Nandy	B.TECH	TCS
SOUMEN MAITY	B.TECH	Ernst & Young
SOUVIK SANTRA	B.TECH	AMAZON & CAPGEMINI
SUBHADIP GHOSH	B.TECH	CAPGEMINI
SUBHAJEET MONDAL	B.TECH	Mantra Labs Globa



Year - 2024

NAME OF STUDENT	COURSE	COMPANY PLACED
JAYASREE GHOSH	B. TECH(CSE)	ARTECH INFOSYSTEMS
TIRTHAJYOTI NAG	B. TECH(CSE)	JMAN DIGITAL SERVICES; TCS (DIGITAL); MOCERO HEALTH SOLUTIONS(INTERNSHIP)
WRIDDHI HAZRA	B. TECH(CSE)	ZSCALLER
RITU MAHATO	B. TECH(CSE)	PERSISTENT SYSTEMS LTD; TCS (DIGITAL)
HRITTIK PAUL	B. TECH(CSE)	TELAVERGE COMMUNICATION INDIA; PROLIFICS
SHASWATA BASU	B. TECH(CSE)	APMOSYS TECHNOLOGIES
ARNAB MONDAL	B. TECH(CSE)	BITWISE SOLUTIONS
RUSHDA RAHMAN	B. TECH(CSE)	PLANET SPARK
HIMANGSHI SAHA	B. TECH(CSE)	ACCENTURE; CAPGEMINI; TCS (DIGITAL)
ANJALI SINGH	B. TECH(CSE)	EDVEDHA EDUTECH PVT LTD; MY JOB GROW
SAYANI GHATAK	B. TECH(CSE)	CAPGEMINI; TCS (NINJA)
ARITRA BHATTACHARJEE	B. TECH(CSE)	TCS (NINJA)
SUBHADIP BASAK	B. TECH(CSE)	TCS (NINJA)
RIJU SANTRA	B. TECH(CSE)	TCS (DIGITAL)
ADESH SHARMA	B. TECH(CSE)	TCS (NINJA)
SNEHASHIS DASGUPTA	B. TECH(CSE)	TCS (DIGITAL)
SOUVIK DAS	B. TECH(CSE)	TCS (NINJA)
TUSHAR YADAV	B. TECH(CSE)	TCS (NINJA)
MIRAJ KHAN	B. TECH(CSE)	TCS (NINJA)

Year - 2025

NAME OF STUDENT	COURSE	COMPANY PLACED
ARINDAM SARKAR	B. Tech(CSE)	TELAVERGE COMMUNICATIONS INDIA PVT LTD
DEBANJAN PAN	B. Tech(CSE)	IBM CONSULTING
SOUVIK MOITRA	B. Tech(CSE)	IBM CONSULTING
AMAN KUMAR SINGH	B. Tech(CSE)	DREAMZTECH SOLUTIONS PVT LTD
MD NASAR ZIA	B. Tech(CSE)	DREAMZTECH SOLUTIONS PVT LTD
CHANDAN KUMAR PANDEY	B. Tech(CSE)	HCL TECH; LTI MINDTREE
SATHI GHOSH	B. Tech(CSE)	HCL TECH
SOUMODIP PAL	B. Tech(CSE)	HCL TECH
ANSHITA CHOUBEY	B. Tech(CSE)	INTERNZVALLEY
ARPAN HALDER	B. Tech(CSE)	INTERNZVALLEY
BIRAJ NASKAR	B. Tech(CSE)	INTERNZVALLEY
NANDINI GHOSH	B. Tech(CSE)	INTERNZVALLEY
NILADRI DAS	B. Tech(CSE)	INTERNZVALLEY
RITAM SINGHA	B. Tech(CSE)	INTERNZVALLEY
RITOBRA TA BOSE	B. Tech(CSE)	INTERNZVALLEY; LTI MINDTREE
SIMRAN MAITY	B. Tech(CSE)	INTERNZVALLEY
SOURAV SAMANTA	B. Tech(CSE)	INTERNZVALLEY
SRIJAN MONDAL	B. Tech(CSE)	INTERNZVALLEY
ATIN BERA	B. Tech(CSE)	LTI MINDTREE
DIGANTA BISWAS	B. Tech(CSE)	LTI MINDTREE
MAHASWETA SAHA	B. Tech(CSE)	LTI MINDTREE
RAMITA KUNDU	B. Tech(CSE)	LTI MINDTREE

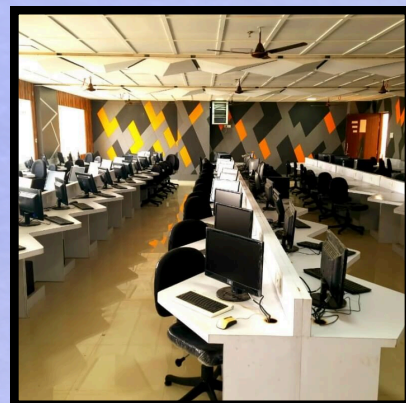
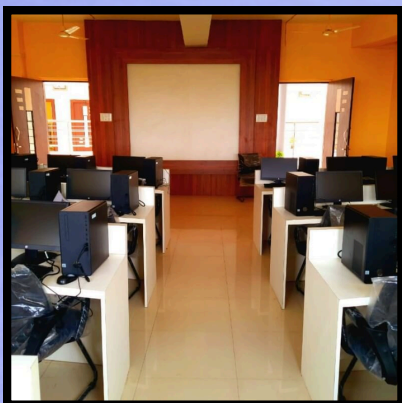
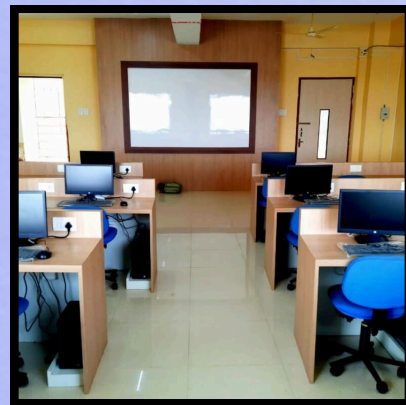
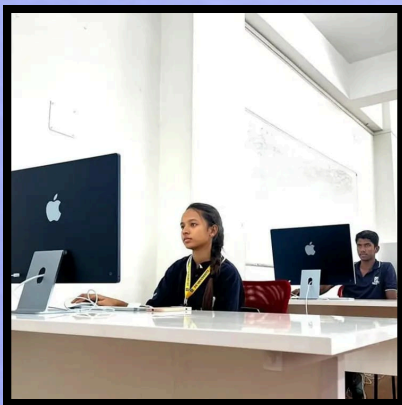
Student Achievements :

Participation in inter-institute events by students of the program of study				
Year	No. of Students Participated		No. of Awards Received	
	Within State	Outside State	Within State	Outside State
2023-24	56	46	37	26
2022-23	49	39	32	22
2021-22	46	25	21	19
Total	151	110	90	67



Laboratory Facilities :

- ◆ **Apple Lab – Dedicated iOS development lab equipped with the latest Apple iMacs and MacBooks for app development and design.**
- ◆ **Programming Lab – Fully-equipped with modern PCs and essential software for coding in C, C++, Java, Python, and more.**
- ◆ **Data Science & AI Lab – High-performance computing systems with GPU support for Machine Learning, Deep Learning, and Data Analytics projects.**
- ◆ **IoT & Embedded Systems Lab – Hands-on lab with Arduino, Raspberry Pi, sensors, and IoT kits for smart device prototyping.**



Co-curricular Activities :

2021-2022 Session

Seminar/Workshop/Industrial Visit	Name Of The Event	Date
Webinar	One-day Webinar on Mathematical Modeling and Analysis	17.12.2021
Seminar	One-Day Seminar on Women Empowerment Through Skill Development	24.12.2021
Seminar	Introduction to Intellectual Property Rights	10.12.2022
Seminar	Intellectual Property Rights (IPRS) And Ip Management	10.12.2022

2022-2023 Session

Seminar/Workshop/Industrial Visit	Name Of The Event	Date
Webinar	Webinar On Early Stage Of Entrepreneurship And Innovation	15.10.2022
Seminar	Seminar On Cyber Security Awareness	29.10.2022
Children's Day	Children's Day	14.11.2022
Seminar	Seminar On Networking Using Cisco Tools	16.11.2022
Industrial Visit	Industrial Visit-Techno Exponent	23.09.2022
Engineer's day	Engineer's day	15.09.2022
SKILL X EXHIBITION	SKILL X EXHIBITION	25.11.2022
Workshop	Workshop On Machine Learning Using Python	25.08.2022
Industrial Visit Ardent Computech Pvt. Ltd	Industrial Visit Ardent Computech Pvt. Ltd	09.11.2022
FDP	FDP On Innovation In Recent Trends In Computing	09.11.2022

2023-2024 Session

Seminar/Workshop/Industrial Visit	Name Of The Event	Date
Industrial Visit	Industrial Visit at Ardent Computech Private Limited	12.08.2023
Alumni Talk	Alumni Talk on “preparation for Placement”.	26.08.2023
Industrial Visit	Industrial Visit at “Euphoria Genx”	16.09.2023
National Engineers Day 2023	Seminar on National Engineer's Day 2023	15.09.2023
GDSC and its Mission	GDSC and its Mission	24.09.2023
Workshop	Machine Learning and Data Science with Python	25.11.2023
Hackathon	Programado -24 hours Hackathon	26.08.2023
BCT Training	Beyond Curriculum Training	10.03.2025 - 17.03.2025

Extra-curricular Activities :





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