Silicon University

SiliconTech

A QUARTERLY NEWSLETTER

Volume 6 Issue 4 April-June 2025

EDITORIAL

Greetings from Silicon!

It has been an exciting year and a half long journey since we became a university. The authorities and officers of the University, along with faculty members and staff, have carried out their duties with due diligence; consequently, we have made noteworthy progress in a multitude of research, academic and administrative areas.

One paramount objective of a university has to do with the creation of new knowledge. Adding to the existing body of knowledge via research has been be our main mandate, not only in the form of publishing journal articles and conference papers, but by carrying out in-house research. We have mobilized our resources to secure external grant funding, doing consultancy work, and getting involved in joint ventures. Specifically, we have received fairly substantial funds from AICTE for our IDEA Lab project, and from ANRF for therapeutic studies related to Alzheimer's disease. As regards consultancy, we are undertaking research projects with established companies such as Hindalco and Vedanta Ferro Alloys, to solve industrial bottlenecks.

One of our goals is to align with international standards and set the bar high, so that we excel in research and academics. We are currently actively involved in creating an effective research ecosystem by bolstering existing laboratories such as the Advanced VLSI Lab, Data Science Lab, IOT and Embedded Systems Lab, Materials Science Lab and Labs in Molecular Medicine. All of us - faculty members, students and staff must continue to work tirelessly across branches and disciplines under the aegis of the University umbrella to make Silicon University a top-tier educational institution in the country. We have developed a Silicon University Strategic plan via which we aim to create critical thinkers, innovators, and problem-solvers ready to take on global challenges.

Dr. Jaideep Talukdar
Vice-Chancellor, Silicon University

Workshop on 'Electrical and Electronic Devices'

The Department of Electrical and Electronics Engineering (EEE) at SiliconTech, the engineering institute of Silicon University, organized its annual Electrical and Electronics Devices (EED) workshop on 19 April 2025. Aimed at bridging the gap between theory and practice, the workshop provided students with hands-on exposure to various electrical and electronic devices. This year's edition featured 24 gadgets with detailed explanations of their mechanisms and real-world applications, along with a technical quiz. The event concluded with the recognition of top-performing groups for their innovative projects and technical acumen. Dr. Nivedita Pati, Senior Assistant Professor, EEE coordinated the event.

'Bot League', a robotic race

The Department of Electrical and Electronics Engineering (EEE) at SiliconTech, in collaboration with IEEE, IEEE PES, IEEE TEC student chapters, and the Silicon Innovation and Promotion Cell (SIPC), organized 'Bot League', a robotic race on 19 April 2025 under the UDAAN initiative to promote STEM education. The event aimed to foster experiential learning by engaging students in designing and building robots to tackle real-world challenges. A total of sixteen teams competed in the race. Team Kapidhwaj won first place, followed by team Hot Pursuit and team Code Blooded Racers winning the second and third positions respectively.

Expert talk on 'A Career in SAP'

The Departments of Computer Science and Engineering (CSE) and Computer Applications at SiliconTech organized an expert talk titled 'A Career in SAP' on 23 April 2025. The session aimed to familiarize students with real-world SAP applications and career prospects in the ERP domain. Delivered by Mr. Biswo Samal, Director of Strategy & Technology Transformation at Deloitte, the talk provided valuable insights into SAP implementation, system integration, and the competencies needed to thrive in the field. With 104 students in attendance, the session effectively connected academic learning with industry expectations.

IoT Discovery Camp

The Department of Computer Science & Engineering (CSE), in collaboration with DAV Public School, conducted the IoT Discovery Camp from 12-17 May 2025 for the school students. The camp introduced IoT fundamentals using Raspberry Pi, focusing on smart home automation and cloud-based device control. Students engaged in hands-on projects, teamwork, and a prototype competition. A total of thirty students were mentored by CSE faculty members including Dr. Samaleswari Prasad Nayak and Prof. Surajit Das to gain practical skills and confidence in emerging technologies. The program fostered creativity, critical thinking, and innovation in IoT.

‘Aquaovation’ - World Earth Day 2025

To mark World Earth Day 2025, the Eco-Social Club at SiliconTech organized a two-day awareness program, Aquaovation 2.0, on 21–22 April. Centered on the theme ‘Our Power, Our Planet’, the event featured creative competitions—Green Strokes (poster-making) and Green Speaks (impromptu oratory). Sheela Nayak (CST, 3rd Year) and Aditya Rath (ECE, 1st Year) won the respective contests. On the second day, guest speaker Mr. Satyabrata Samal, the ‘Climate Man of Odisha’, inspired students with his grassroots conservation work. The event promoted sustainability, youth engagement, and conscious action, reaffirming SiliconTech’s commitment to environmental responsibility.

World DNA Day 2025

The JBS Haldane Centre for Molecular Medicine at Silicon University hosted an event on ‘New Frontiers of DNA Technology’ to celebrate World DNA Day on 25 April 2025. Prof. Solomon F. D. Paul, Head of Faculty, Clinical Research and Professor of Human Genetics at Sri Ramachandra Institute, delivered the keynote address. Expert talks were delivered by Dr. Divya Sriram on ‘Bench to Bedside – A Giant Leap’, Dr. Amit Roy Chowdhury on the Centre’s achievements, and Dr. Pradeep K. Singh on ‘Genes and Mind – A Neurogenetic Perspective’. The event concluded with a certificate ceremony and student poster presentations on emerging DNA research.

World Environment Day 2025

The Eco-Social Club at SiliconTech observed World Environment Day on 5 June 2025 to promote environmental protection and sustainable living. The event engaged students, faculty, and staff in a meaningful plantation drive on campus, where participants enthusiastically planted saplings. Twenty-five attendees, including faculty members and students, took part in the activity, reinforcing a sense of responsibility toward nature. The event served as a reminder of the importance of green initiatives and encouraged the student community to adopt eco-friendly practices and take active steps toward building a more sustainable future.

International Day of Yoga 2025

SiliconTech celebrated the International Day of Yoga on 21 June 2025 with enthusiastic participation from students, faculty, and staff. The event aimed to promote physical, mental, and spiritual well-being through yoga practice. Professional instructor Prashant Kumar Mallik led participants through asanas such as Sukhasana, Padmasana, and Bhujangasana. This was followed by a 20-minute dhyana session conducted by Ms. Subhashree Prusty, Faculty Coordinator of the Eco-Social Club. The session emphasized the importance of integrating yoga into daily life. The celebration highlighted the role of yoga in fostering holistic health and inner balance among the academic community.

Industrial visit to HINDALCO, Hirakud

The Industry Interface Cell (II Cell) at SiliconTech organized a two-day industrial visit to HINDALCO, Hirakud, on 19 and 20 May 2025. The visit aimed to discuss the Scope of Work (SOW) for four proposed consultancy projects related to HINDALCO's 477 MW Captive Power Plant. Faculty members engaged in technical discussions, plant walkthroughs, and data collection sessions with HINDALCO's engineering team. Key focus areas included power factor improvement using HT/LT switchgear systems, motor loading and efficiency analysis, battery bank parallel operation feasibility assessment, and a direct stroke lighting protection study. The visit strengthened industry-academia ties and laid the foundation for collaborative consultancy efforts.

Industrial visit to Vedanta FACOR

The Industry Interface Cell (II Cell) at SiliconTech organized an industrial visit to Vedanta Ferro Alloys Corporation Limited (FACOR), Bhadrak, on 26 April 2025 to strengthen industry-academia collaboration through practical engagement. The visit aimed to identify real-time technical challenges at FACOR and initiate consultancy projects involving faculty and students. After a warm welcome by Mr. Kamod Singh, COO of FACOR, joint discussions led to the selection of ten consultancy projects across electrical, mechanical, energy, and safety domains from an initial list of twenty-seven. A roadmap for execution and review was formulated, along with internship opportunities for students.

Industrial Visits to OPTCL and NALCO

The Industry Interface Cell (II Cell) of SiliconTech organized two industrial visits as part of the Summer Internship Course titled 'Foundation Course on Core Industry' to provide students with practical exposure to the power sector. The first visit took place on 13 June 2025 at Odisha Power Transmission Corporation Limited (OPTCL), Chandaka, where students explored a 220/132 kV substation. They observed key electrical components such as transformers, switchgear, circuit breakers, and control systems, gaining insights into power transmission and grid operations. The second visit was held on 21 June 2025 to the National Aluminium Company Limited Captive Power Plant (NALCO CPP), Angul. Here, students learned about the generation process in a thermal power plant, including the operation of boilers, turbines, generators, and auxiliary systems. Interactive sessions with plant engineers offered valuable insights into system automation, control mechanisms, and safety protocols followed in large-scale industrial setups. These visits provided sixteen students and four faculty members with hands-on learning opportunities in core power engineering practices.

2nd Nabarasa Natya Mela 2025-2026

SiliconTech students participated in the 2nd Nabarasa Natya Mela 2025–26, organized by Kalakar Theatre at Rabindra Mandap, Bhubaneswar, on 2 May 2025. They staged 'Rashmirathi', a powerful play on Karna's journey from the 'Mahabharata', highlighting themes of destiny, struggle, and resilience. The performance was praised by eminent guests—Shri Ajay Kumar Mohapatra, renowned writer, Shrimati Jayashree Mohanty, Co-founder and President, Luminous Infoways, and Dr. Saroj Kanta Misra, Advisor, Silicon University. With one hundred and fifty attendees, the event concluded with the felicitation of performers and a vote of thanks to the team and audience.

Sports Award Ceremony

SiliconTech organized the Silicon Sports Award Ceremony 2025 on 5 May 2025 to recognize the achievements of student athletes. Dr. Ramaprasad Panda, Dean of Student Affairs and Chief Guest, addressed the gathering. He was joined by Dr. Biswajit Baral, Faculty-in-Charge, Silicon Students Council, Dr. Samaleswari Prasad Nayak, Faculty Coordinator, Sports Club, Dr. Priyanka Kar, faculty member, Mr. Pradipta Jena, faculty member, and Mr. Balaram Mohanty, Sports Officer. With around one hundred and seventy-five students in attendance, the event celebrated commitment, discipline, and the spirit of sportsmanship at SiliconTech.

Cultural Nite 2025

The Campus Life Coordination Committee (CCC) at SiliconTech organized Cultural Nite 2025 titled 'Ullas-e-Ratri' on 15 April 2025. The event aimed to celebrate Indian heritage and encourage creativity and cultural expression among students. It featured vibrant dance performances from different states, soulful musical renditions in multiple languages, and a ramp show, 'Walk of Elegance,' highlighting traditional attire and regional craftsmanship. The evening concluded with a lively musical session, where the audience joined in dancing, making it a joyous celebration of India's cultural richness and student talent.

'Parda Digital' - a film-making competition

The Social Media Cell at SiliconTech organized a short film-making competition, 'Parda Digital', on 12 April 2025. Aimed at promoting Odisha's cultural heritage, the event encouraged students to depict themes such as folk festivals, crafts, and traditions through short films. Ten teams participated, presenting creative one-to-three-minute films that showcased storytelling skills and regional pride. The entries were evaluated based on originality, visual appeal, and cultural relevance. Partha Prithwiraj (CSE, 2026) won the first prize, followed by Sarthak Kalia (CSE, 2028) and Shubhranshu Maharana (CSE, 2028) in second and third place respectively.

NOTE: For further details on any news item, visit https://silicon.ac.in/news/

RESEARCH AND PUBLICATIONS

- Scopus/SCI Indexed journals: **36**
- Conference Proceedings: **19**
- Book Chapters: **24**
- Patents: **7**

Fabrication of a Molecular Imprinted Polyacrylonitrile Engraved Graphite Electrode for Detection of Formalin in Food Extracts

Formalin — a villain in a lab coat. The most recent major news coverage highlighting formaldehyde (commonly found in formalin) as a carcinogen was published by CNN on 5 December 2024. The article was titled "Formaldehyde causes more cancer than any other toxic air pollutant. Little is being done to curb the risk". The classification of formaldehyde (commonly found in formalin) as a carcinogen has been documented in various scientific and governmental reports over the years. Notably, the U.S. National Toxicology Program (NTP) upgraded formaldehyde to "known to be a human carcinogen" in its 12th Report on Carcinogens, published on June 10, 2011. While traders might like its preserving powers, our bodies definitely don't — formalin is carcinogenic, toxic, and downright nasty if consumed over time. That's why detecting even traces of formalin in food is critica, and urgently so.

Traditional detection methods like High Performance Liquid Chromatography, Fourier Transform InfraRed, and spectrophotometry are accurate but bulky, expensive, and not exactly field-friendly.

This study presents a novel sensor based on a Molecularly Imprinted Polymer (MIP) crafted using acrylonitrile, built over a graphite electrode — dubbed MiPAN@GP. Think of MIP like molecular Velcro — it has "memory" for a particular molecule (formalin in this case), so it can selectively "grab" it out of a crowd of imposters. Formalin is used as a template during polymerization. After polymer formation, formalin is washed out, leaving behind molecular "molds". When food extract containing formalin hits the electrode, it fits right in, the molecule is detected. A measurable electrochemical signal is displayed with the help of a potentiostat. Characterization tools like FTIR, UV-Vis, and SEM confirm that the MIP was made correctly. The sensor showed impressive performance, shown below:

Detection range: 10 µM to 1000 µM
Limit of detection: 0.63 µM
Accuracy: ~99% match with HPLC
Selectivity: Appreciable. Does not detect any other chemicals.

Yes! The sensor was tested on fish and mushroom extracts from local markets. It detected formalin accurately — showing that this isn't just a lab toy, it's field-ready. This work isn't just science for the shelf — it proposes a low-cost, simple, and portable solution for a very real and urgent problem — food safety.

If formalin is hiding in your dinner, this sensor can sniff it out — and that's a big win for public health.

This research is being conducted by Dr. Debangana Das, Assistant Professor, Electronics Engineering.

A Semi-Supervised Approach of Cluster-Based Topic Modeling for Effective Tweet Hashtag Recommendation

In recent years, Twitter has evolved into a crucial platform for generating real-time, user-generated content that holds immense value for various Natural Language Processing (NLP) tasks. Its short and dynamic format makes it ideal for applications such as sentiment analysis, document clustering, information retrieval, topic modeling, and text summarization. One of the most distinctive features of Twitter is the use of hashtags, which function as metadata to help categorize tweets and link them to broader conversations or themes. Despite their utility, many tweets are posted without hashtags, making it difficult to retrieve and analyze content based on thematic relevance.

To address this gap, our research presents a novel hashtag recommendation framework that can predict appropriate hashtags for tweets by classifying them into one of four predefined thematic categories- sports, politics, health, and technology. The proposed method introduces a custom heuristic that leverages both linguistic and statistical features to recommend meaningful and context-aware hashtags. A dataset comprising 20,000 tweets was compiled for this study, with an equal distribution of 5,000 tweets across the four categories. Each tweet was initially tagged with relevant hashtags by domain experts, but these were removed before training the model to simulate a real-world, hashtag-missing scenario.

The tweet corpus was first subjected to standard preprocessing steps, including noise removal, lowercasing, punctuation stripping, and tokenization. To capture the semantic structure of the tweets, we employed Word2Vec for vector representation. This technique allowed us to embed each word into a continuous vector space that reflects its contextual similarity, thereby mitigating issues of sparsity and enhancing feature learning.

To manage high-dimensional embeddings and facilitate better clustering, we implemented a two-stage dimensionality reduction approach. Initially, Singular Value Decomposition (SVD) was used to retain the most informative components. This was followed by t-distributed Stochastic Neighbor Embedding (t-SNE), which helped in visualizing and organizing the data into well-separated clusters. The resulting low-dimensional vectors were grouped into four clusters corresponding to the predefined categories.

A semi-supervised strategy was applied to label each cluster based on its proximity to topic-representative keywords and structures. The final step involved generating hashtags by identifying dominant terms within each cluster, effectively capturing the underlying theme of the tweets. The recommended hashtags thus reflected both the semantic content and thematic context.

Performance evaluation was conducted using standard classification metrics—precision, recall, and F1-score. Comparative analysis against baseline methods demonstrated that our approach consistently outperformed existing techniques in recommending relevant and accurate hashtags. These results underline the effectiveness of combining semantic embedding, dimensionality reduction, and semi-supervised clustering in enhancing hashtag recommendation.

The model presents a scalable and adaptable framework that can be extended to more categories or integrated into social media platforms for real-time hashtag suggestions, improving content discoverability and organization.

This research is being conducted by, Dr. Pradipta Kumar Pattanayak, Senior Assistant Professor, Computer Science and Engineering

STUDENT ACHIEVERS

Richa Kumari gets placed in Amazon with 30.3 LPA

Richa Kumari (CST, 2025) has been placed at Amazon with a package of 30.3 LPA. A skilled coder and MERN stack developer, she built diverse projects and honed her problem-solving abilities through consistent practice on LeetCode and HackerRank.

Swati Nath joins IIM Visakhapatnam (PGP 2025–27)

Swati Nath (CSE, 2025) has secured admission to the Post Graduate Program in Management at IIM Visakhapatnam. She did her final year Practice School (PS) internship at Mindfire Solutions, gaining hands-on experience in Python, Django, React, and smart contracts.

Ratikanta Rout gets recognized by IOCL Guwahati Refinery

Ratikanta Rout (CSE, 2026) did his summer internship in Indian Oil Corporation Limited (IOCL), Guwahati Refinery. He has been recognized for his innovative project on Predictive Maintenance using Machine Learning. His work aimed at enhancing safety and operational efficiency by predicting equipment failures and reducing downtime.

Practice School (PS) Selectees from 8th Semester B.Tech. graduating batch of 2026

ISRO (Delhi Earth Station)

Alisha Singh
CSE, 2022-26

Haber Technologies@35K

Lavkush Solanki
CSE, 2022–26

Rahul Kumar Singh
CSE, 2022–26

Rishu Kumar
CSE, 2022–26

Inovaare@20K

Aditya Samal
CSE, 2022–26

P Satya Prakash
CSE, 2022–26

Purnima Mishra
CSE, 2022–26

Yasmin Swain
CSE, 2022–26

Siddharth Pal
CSE, 2022–26

Rounak Biswal
CSE, 2022–26

Bhakta B. Sahoo
CSE, 2022–26

Akanksha Barik
CSE, 2022–26

Piyush Kumar
CSE, 2022–26

Md Wahid
CSE, 2022–26

Sanidhya Patra
CSE, 2022–26

Khusi Pandey
CSE, 2022–26

Subham Kiran
CSE, 2022–26

Subham Behera
CSE, 2022–26

Nityashree Moharatha
CSE, 2022–26

Suraj K Sikhar
CST, 2022–26

Raghvendra Pratap
CSE, 2022–26

Rahul Kumar
CSE, 2022–26

Swaraj Mishra
CSE, 2022–26

Bhabna Mohanty
CST, 2022–26

Tushar K Padhiary
CSE, 2022–26

INDUSTRY INTERFACE CELL

PLACEMENT HIGHLIGHTS

Despite the challenging market conditions in recent years, SiliconTech continues to maintain a promising placement record. Last year 74% of eligible students were placed. This year, the placement process is still continuing, and as of now, over 70% of the eligible B.Tech. students have been placed. Notably, more than 64% of these placements have come through intern-to-job offers under the Practice School (PS) Program, where students completed their internship in the final-year with monthly stipends ranging from ₹10,000 to ₹1.1 lakh. The highest package offered so far is ₹30.3 LPA by Amazon. Placement snapshot for eligible students, is given below.

B.Tech.*

70% Students placed
79 Companies recruited
263 Internship offers
5 LPA Average package
30.3 LPA Highest package

MCA*

56% Students placed
33 Companies recruited
6.25 LPA Highest package

M.Sc. (Data Science)*

40% Students placed
13 Companies recruited
6.25 LPA Highest package

* Placement is continuing

PRACTICE SCHOOL (PS) HIGHLIGHTS

2025 Graduating Batch

The Practice School (PS) program at SiliconTech has successfully completed four years. The students had the opportunity to work on real-world projects involving cutting-edge technologies at various PS stations, which included IT and core sector organizations. Regardless of the prevailing industry trends, the PS program continues to demonstrate strong outcomes year after year.

- **263 students** from the B.Tech. 2025 graduating batch have successfully completed their PS program.
- Most of the selected students received stipends ranging from **₹10,000 to ₹40,000 per month**.
- The **highest stipend** of **₹1.1 lakh per month** offered by **Amazon**.
- **73 PS stations** have collaborated with us this year, engaging over **49% of the total students**, with a noticeable rise in those opting for internships in core sectors.
- Nearly **91.2%** of the PS interns received their final placement offer after successfully completing their PS program.

2026 Graduating Batch

The Practice School (PS) program for the B.Tech. 2026 graduating batch has started on a positive note.

- Till date more than 55 students have been selected to do their PS program during the 7th semester.
- One student has got an opportunity from ISRO (Delhi Earth Station) to do the internship under the PS program.
- The highest stipend is 35K per month offered by Haber Technologies.
- The company those have completed their PS drives include Athrv Cloud, BIPROS, comePounder, Haber Technology, Inofinity, Inovaare, and Logistos.

Naada Technologies, Squibix, Viden Edutech, Vyuhaa Med Data and few other companies are in the pipeline to conduct their PS drives. II Cell is also collaborating with various core companies like Vedanta, Hindustan Zinc, HINDALCO, and FACOR for industrial research and consultancy by involving the PS students.

SUMMER INTERNSHIP 2025

SiliconTech's Summer Internship Program 2025 commenced on 2 June 2025 and will continue till 12 July 2025.

- **34 industry-relevant and skill-enhancing courses**, across a wide range of emerging technologies, have been offered in this summer internship program.
- Out of the 34 programs, 21 were delivered in offline mode, while 13 were conducted online, offering flexibility to participants.
- Over **2350 students** enrolled in the Summer Internship Program which includes 58 participants from external institutions. Students from reputed institutes such as VIT, KIIT University, SOA University, Pondicherry University, Trident Academy, IIIT Bhubaneswar, and PMEC Berhampur actively participated in this initiative.
- These programs align with industry trends, featuring sessions by experts and mentorship from SiliconTech faculty for a comprehensive learning experience.
- The courses spanned across multiple domains, few of which are mentioned below:

  - Azure masters and Introduction to Azure Data Engineering
  - Digital VLSI Design from Verilog RTL and Verification to Synthesis
  - Digital System Verification Using System Verilog
  - Fullstack with Java Spring Boot with Angular MYSQL
  - Generative AI with Keras Python and ChatGPT
  - ML and Deep Learning Bootcamp using Python
  - Security Analysis Investing & Trading and DeVops masters
  - Block Chain with Rust
  - Data Science
  - Embedded Systems and IoT
  - Foundation Course on Core Industry
  - Introduction to IoT using Raspberry Pi
  - Problem solving using Leetcode on DSA
  - SEO and Digital Marketing
  - Specialized Training on Power System

The external participants expressed high appreciation for SiliconTech's infrastructure, as well as the structured and professional execution of the internship program. The entire internship initiative was coordinated by II Cell, marking another milestone in SiliconTech's commitment to industry-oriented education.






ENTREPRENEURSHIP DEVELOPMENT CELL

The Entrepreneurship Development Cell (ED Cell) and the Institution's Innovation Council (IIC) events in the April-June quarter.

Business Plan Pitching

The ED Cell, in collaboration with the IIC, organized a Business Plan Competition on 30 April 2025 for 6th Semester B.Tech. students. Thirteen teams presented their business ideas, including the Business Model Canvas, Value Proposition Canvas, and Revenue Model, before a panel of experts. The jury included Mr. Deepak Choudhury from Success Leaf and Mr. Chittaranjan Pattanaik, Former Coordinator of EDII, Ahmedabad who provided valuable feedback. The session was coordinated by Dr. Mahendra Prasad Agasty, President of IIC. All business plans were evaluated out of 100 marks. With around 65 students participating, the event proved to be a successful and enriching experience for aspiring entrepreneurs.

Prototype Exhibition

The ED Cell and IIC organized a Prototype Exhibition on 7 May 2025, featuring 13 student teams who showcased working prototypes developed during their Entrepreneurship Development Projects. From ideation to proof of concept, each team presented innovative solutions under the mentorship of faculty members. Innovation Ambassadors provided structured mentoring and guidance leading up to the exhibition. Jury members Mr. Deepak Choudhury from Success Leaf and Mr. Chittaranjan Pattanaik from EDII praised the creativity and execution on display. Notable teams included Digital Stetho, Mera Bharat, Easy CA, and Rentique, making the event a vibrant platform for innovation and entrepreneurial growth. Over 70 students and faculty members attended the event, which highlighted promising ideas with startup potential.

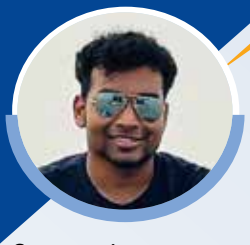
Session on 'Raising capital and Managing Finance'

The ED Cell and IIC jointly organized a session on 'Raising Capital and Managing Finance' on 7 May 2025, attended by 70 students from the 6th Semester B.Tech. program. Aimed at equipping budding entrepreneurs with essential financial knowledge, the session focused on funding sources, investment strategies, and financial management techniques crucial for startup success. Conducted by Dr. Mahendra P. Agasty, President of IIC, the session highlighted the importance of strategic planning and financial discipline. Students actively participated in discussions, seeking clarity on real-world financial challenges. The session proved to be an insightful and interactive learning experience.

ALUMNI BUZZ

The 2025 Summer Internship Program for the 1st and 2nd year students witnessed enthusiastic involvement from our alumni, strengthening the bridge between academia and industry. **Papun Kumar Jena, Manager – Voice & Data Core Operations at Vodafone Idea Limited and alumnus of the 2019–2023 batch**, played a key role in the course titled 'IoT and Industrial Applications using MATLAB', sharing valuable industry insights and guiding students in applying theoretical knowledge to real-world scenarios. Similarly, **Suraj Kumar Sharma, Systems Engineer at TCS, alumnus of the 2020–2024** batch actively contributed to the course 'Python Programming, Machine Learning, and Deep Learning for Industry', helping students grasp emerging technologies with practical relevance. Their active participation greatly enriched the learning experience and plays a pivotal role in shaping the academic and professional growth of current students.

ALUMNI IN FOCUS

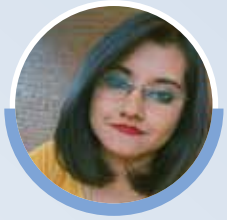


SOUMYA MAHAPATRA
Senior Manager, Infosys
B. Tech. (AE & I) 2004–2008

Soumya is a seasoned technology leader and currently serves as a Senior Manager at Infosys, driving customer delivery for global clients undergoing digital transformation. His mission is to enable enterprises to establish a strong digital footprint through innovative solutions rooted in Cloud, Artificial Intelligence, Generative AI, and Data & Analytics. He has previously worked with IBM, Cognizant, Tech Mahindra, and Patni. With cross-domain expertise in Finance, Telecom, E-commerce, Retail, and Banking, Soumya excels at aligning advanced technologies with business goals. He leads a 70+ member team, managing delivery for six key clients and a $10M+ annual portfolio. An active contributor to the PMI South Asia Chapter, he remains committed to mentoring future leaders and advancing excellence in project and program management.

VIKASH KUMAR
Deputy Director, Ministry of Power, GoI
B.Tech. (EEE) 2011-2014

Vikash currently serves as Deputy Director in the Ministry of Power, Government of India. With nine years of experience, he is responsible for national electricity planning, including demand forecasting, generation capacity planning, and transmission development. He plays a key role in preparing the National Electricity Plan and conducts detailed supply-demand analyses to support crucial policy decisions. Vikash coordinates closely with central and state utilities, appraises project reports, and provides essential technical inputs to the Ministry of Power, GoI. He also contributes to integrated resource planning, energy transition initiatives, and promotes data-driven decision-making. His expertise ensures the alignment of power sector projects with national sustainability goals, helping to drive India's transition towards a cleaner and more efficient energy future.



RITUPARNA MUKHERJEE
Solution Delivery Head, Deloitte
B. Tech. (ECE) 2014-2017

Rituparna started her professional journey in the IT industry in 2017, joining Capgemini India. During her time there, she earned multiple awards and led several important projects. After gaining valuable experience, Rituparna moved to Deloitte, where she currently works as a Solution Delivery Head. She has been with Deloitte for two years, managing project delivery and client relationships. Her role involves leading teams to successfully execute complex IT solutions. Rituparna's career reflects her strong technical skills and leadership qualities. She has consistently demonstrated excellence in project management and team coordination. Her achievements highlight her dedication and expertise in the IT sector.

TRIDEEP GORAI
B.Tech. (CSE) 2018-2022
MBA, IIM Bangalore (2025-27)

Trideep is currently pursuing an MBA at IIM Bangalore (2025–27), building on nearly three years of experience as a Data Engineer at Samsung R&D Institute, Bangalore (Aug 2022 – May 2025). In his role, he specialized in designing and migrating data pipelines, working with databases, Python, C++, and a range of data engineering tools. He has a strong track record of building efficient, scalable data systems tailored for enterprise needs. He did his PS internship in the 8th semester with Cozentus where he worked as a Java Full Stack Engineer and further honed his technical acumen. Outside of his professional life, he is an avid football player, having represented his school, college, and organization in various tournaments. His combination of technical expertise and teamwork reflects a well-rounded and driven professional.

Alumni Desk

Visit our Alumni Portal at ***https://alumni.silicon.ac.in/*** & register yourself
E-mail: ***siliconalumni@silicon.ac.in*** | Contact: ***+91 9937289499*** | Extn: ***352/353/354/356/358***

Silicon University

Please send your feedback /suggestions to **pcell@silicon.ac.in**

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