

SiliconTech

A QUARTERLY NEWSLETTER

SILICON INSTITUTE OF TECHNOLOGY, BHUBANESWAR

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EDITORIAL



Greetings and welcome to this edition of *SiliconTech*.

As we traverse through about ten months into the pandemic, Silicon has shown the resilience and innovativeness it takes to adapt to the new normal, and excel on various fronts. Teaching and research activities are on in earnest at the Institute. We continue to conduct online classes for all our BTech, MCA and MTech students, hold online written examinations and publish results in a timely fashion. A significant number of our faculty members, staff and students have taken quality online courses offered by Coursera under the Silicon banner, and enhanced their knowledge. Our Institution Innovation Council (IIC) received a 5-star rating from the Ministry of Education, Government of India, for promoting innovation and start-ups on campus in 2019-20, the only Institute from Odisha to have earned this distinction. The induction program for the autonomous Batch 2020-24 was conducted online for the first time; the introductory session witnessed excellent participation with almost all newly admitted students and parents joining in. Talks were held with eminent speakers participating in it, also in a virtual mode.

Our placement activities are ongoing, and companies such as Infosys, WIPRO, TCS, Cognizant, SAP Labs, Aptus Data Lab, Hexaware and Spikewell have offered positions and a majority of the graduating batch are already placed. Recently, we have increased efforts to better connect with our Alumni and have a new alumni portal in our website. Our 12th Alumni Meet, 2020 was held in the virtual mode with alumni joining in across geographies. It was a successful and memorable event.

When restrictions on travel ease and students are allowed back on campus, we can resume in-person activities in classrooms and dormitories. We will emerge more determined and experienced to tackle new frontiers, once this is over. Wish you a very happy and prosperous New Year.

Prof. (Dr.) Jaideep Talukdar
PRINCIPAL

NEWS & EVENTS

Silicon IIC Receives 5-Star Rating from MoE Again

The Institution Innovation Council (IIC) of Silicon has been awarded a 5-star rating for the year 2019-20, by the Innovation Cell, Ministry of Education (MoE), Government of India for its endeavor to promote innovation and start-up culture on campus. Silicon is the only Institute from Odisha, one of the seven institutes from the Eastern region and one of the 100 institutions across India who got 5 star rating for the session 2019-20.



IEEE Student Chapter Conducts INQUIZITIVE

IEEE Student Chapter at Silicon conducted 'INQUIZITIVE'- an online quiz competition on the eve of IEEE Day viz., 4th October 2020, to give a platform to students

to showcase their talent. 70 students from different colleges participated in this event and made it a success.

D2C Igniters Club Silicon Chapter Starts operation

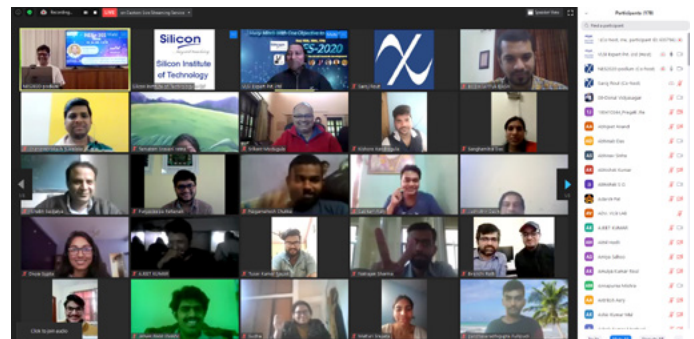
Dare2Compete, the D2C Igniters Club Silicon Chapter, led by Sanjog Samuel Samantaray (CSE 2018-2022) started its operation under SIPC (Student Innovation Promotion Cell) with Talash 1.0 - an Online Treasure Hunt which was conducted on 15th November 2020. 117 students registered for the event and top 3 students out of a total of 10 finalists were felicitated on the D2C platform with cash prizes.



Webinar on Nanotechnology & Embedded Systems (NES-2020)

Silicon, in collaboration with VLSI Expert Pvt. Ltd. Noida, conducted NES 2020, a 3-day webinar on 'Nanotechnology and Embedded Systems (NES-2020)' from 15th to 17th December 2020. Dr. Saroj Rout, Additional Professor at Silicon and the Convener of this event, organized it. The primary objective of the webinar was to create awareness on the recent advances in solid-state devices, VLSI circuits and embedded systems. The keynote speaker was Dr. Shivananda Koteshwar (Head R&D at Synopsys Inc., Bengaluru). Industry talks were delivered by Mr. Atul Bhargava (Principal Engineer, STMicroelectronics, Greater Noida), Mr. Rajat Bansal (Design Engineer, KeenHeads Technologies Pvt. Ltd., Noida), Mr. Narasayya Donepudi (Co-Founder, Sevy Multimedia, Noida), and our collaborator & host Mr. Puneet Mittal (Founder, VLSI Expert Pvt. Ltd., Noida).

A hands on workshop on 'Transaction Level Verilog: A modern Approach to Integrated Circuit and Design' was also conducted in the online mode by Steve Hoover (Founder & CEO, Redwood EDA, USA). 634 registered participants across India joined live from both academia and industry.



Launch of Silicon CodeChef Chapter

Siliconites earned their CodeChef College Chapter shield for Silicon in November 2020 under the Silicon ISTE (Indian Society for Technical Education) banner. Silicon was inducted through an online Induction session held on 1st and 8th November 2020. The objective of the Silicon CodeChef Chapter is to build a robust competitive programming culture on campus and help students become better problem solvers. Rishav (ECE,

2017-2021) is the Student Chairperson of CodeChef who founded the CodeChef Silicon Chapter. Other founding members are Prashant Kumar (ECE, 2017-2021) as Event Lead, Akash Dash (CSE, 2018-2022) as Media and Outreach Lead and Ashish Sureka (CSE, 2018-2022) as Competitive Programming Lead. The faculty coordinator, Prof. Monorama Swain helped students establish the CodeChef Chapter at Silicon.

Silicon Observes World Mental Health Day

Silicon observed 'World Mental Health Day – 2020' on 10th October 2020. The theme for this year was 'Mental health for all- Greater Investment, Greater Access'. Silicon promotes good mental health for all the students & staff. To create and propagate this awareness, a video podcast was released on YouTube on this occasion

by our in-house Counseling Psychologist, Dr. Saswati Jena (Assistant Professor) - <https://www.youtube.com/watch?v=Gceo1oxmBec>. The important message conveyed in the podcast was that mental health is as important as physical health. It is absolutely Okay to feel helpless, low, detached and stressed, but it is not Okay to remain silent.

Governing Body Meeting

The 35th Governing Body meeting of Silicon was conducted on 30th October 2020. Eleven members attended the meeting to discuss the overall progress of the Institute. Members discussed the academic progress under the pandemic situation, its impact on budgetary issues, and

overall preparedness of the Institute for the ongoing academic session 2020-21. Chairman Shri Joe Madiath appreciated all the faculty, staff members and students for their continued efforts in ensuring a seamless conduction of all academic activities during these unprecedented times.

Siliconites excel in Elocution Competition

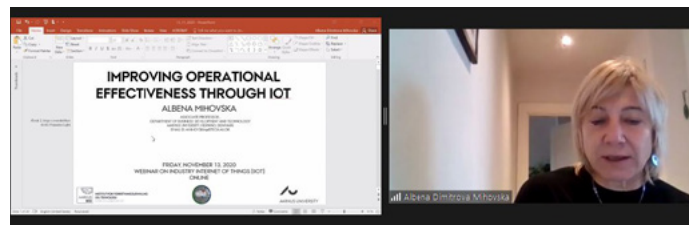
Siliconites outshone all contestants in the Elocution Competitions organized by NALCO during the Vigilance Awareness Week celebration from 27th October to 2nd November 2020. Our students earned the first position

in the competition in all 3 languages viz. English, Hindi and Odia. Sanath Kumar Swain (4th Year, EEE) was first in English, Geetansa (2nd Year, ECE) in Hindi and Annada Guman Singh (3rd Year, CSE) in Odia.

Webinar on Industry Internet of Things

The departments of ECE & EIE at Silicon organized a 3-day webinar on **Industry Internet of Things** from 11th to 13th November 2020. This webinar primarily focussed on cutting-edge technologies used to resolve various problems related to day-to-day life and industry. A total of 233 participants across the country registered for this webinar. The talks were delivered by eminent speakers from the Industry and Academia such as Er. Anish Sarangi (Silicon alumnus) from Fusion Practices Pvt. Ltd.; Prof. D. P. Acharya & Prof.

Santosh Das from NIT, Rourkela, Er. Debasis Satapathy from Capgemini, Er. Renjith CV from Philips India Ltd. and Prof. Albena D. Mihovska from Aarhus University, Denmark.



Induction of 2020 Admission Batch (3rd Batch under Autonomy)

The Orientation-cum-Induction program, for the 3rd Batch under Autonomy (2020-2024) was conducted in the online mode from the 8th-13th December 2020. The program had been designed so as to orient students into cultivating the right attitude towards their chosen career and inculcating a strong value system. Some of the eminent speakers were Prof. Sunil Kumar Sarangi- Ex-Director, NIT Rourkela, Dr Joe Madiath- Ex-Chairman Gramvikas, Prof. Shradha Padhi- Professor OB & HR, KSOM Bhubaneswar, Mr. Abhijit Sen- Ex-AVP, Infosys and Founder, Syllogistek Systems and Prof. Kalyani Samantray- HoD FACIS, Sri Sri University. Many of our distinguished alumni,

addressed the students with their inspirational success stories. The first year classes commenced in the online mode from 14th December 2020.



FACULTY IN NEWS

- **Dr. Bhagyalaxmi Jena** Senior Assistant Professor from the department of ECE had filed two patents which were published on 23rd October 2020. The titles of inventions were, 'A Mobile Sanitizer Dispensing Unit' and 'Smart Classroom System'.
- **Dr. Samaleswari Prasad Nayak** Assistant Professor from the department of CSE had filed for a patent which was published on 30th October 2020. The title of invention was 'Sensor-Based Smart Railway System to Minimize Train Collisions and Accidents'. Dr. Nayak, was also awarded his PhD degree from Utkal University, Odisha on 26th November 2020 for his thesis titled 'Real-Time Healthcare with Cloud-Based Wireless Sensor Network'.
- **Dr. Pradyumna K. Tripathy (CSE), Dr. Manoranjan Behera (BSH), Dr. Ambarish G. Mohapatra (EIE), Dr. Bodhisattva Dash (ECE) and Ms. Debasmita Pradhan (CSE)** of Silicon Institute of Technology, Bhubaneswar were awarded the University Foundation Day Research Award For Faculty/Research Scholar –2020 by Biju Patnaik University of Technology (BPUT) – the state technical university of Odisha. The felicitation ceremony was held online on 21st November 2020. Silicon is proud of them.

RESEARCH & PUBLICATIONS

- Publications (journals): 11
- SCI Indexed Journals published (with high impact factor): 3
- Scopus Indexed Journals published: 6
- Patents filed: 3
- PhDs Awarded: 1
- Consultancy Projects approved: 2
- AICTE Grants received: 2 (1 MODROB and 1 STTP AQIS) for 2019-20; both grants received in October 2020
- CSIR (EMR II) Grants received: 1 in December 2020

STUDENT ACHIEVERS

Empowering Youth Hackathon 2020 Winners

Team Farm Folks from Silicon is one of the top 5 winning teams in the Empowering Youth Hackathon 2020 conducted from 28th – 30th November 2020. Empowering Youth Hackathon is a meeting of minds, backgrounds and skills at the national level, on innovation and tech ideas. In the 2nd round of this Hackathon 2 out of 10 teams were selected who represented Odisha in the national level.

Team Farm Folks was one of these 2 teams, which comprised of 6 members from 2021 graduating batch viz., Punyadeepa Pattanaik (ECE), Ayushman Patnaik (ECE), Ashutosh Patra (CSE), Asutosh Rath (CSE), Amit Kumar Patro (ECE) and Neha Mohanty (ECE). They were guided by Mr. Sushant Ku Pattnaik, Asst. Prof, Dept of ECE along with Dr. Rabindra Kumar Nayak, Professor, Department of Soil Science, OUAT, Bhubaneswar and Mr. Siddharth

Bhattar, CEO and Founder, Karkhana Makerspace. They competed against the top 20 teams across India, securing 5th position and were awarded up to 2 lakh worth prototyping support from IKP Eden and incubation opportunity at 100 Open Start-ups.



HackWithInfy 2020 Winners

8 students from our 2021 graduating batch were selected for the role of SSE (5 LPA) and SE (3.6 LPA) in HackWithInfy2020, the pan-India Hackathon contest conducted by Infosys. These students are Ankita Das

(CSE), Medha Raj (CSE), Prateek Ram (CSE), Sachin Kumar Rawani (CSE), Utkarsha Koushik (CSE), Kamaljeet Mallik (CSE), Navin Chandra (CSE) and Deepak Kumar (ECE).

TCS Digital Winners

5 students from 2021 graduating batch were selected for TCS Digital 2021 (These students were the top performer in TCS-NQT exam and got the opportunity to participate for TCS digital interview and were selected for a package

of 7LPA). The selected students are Pratik Ram (CSE), Rachit Pattnaik (ECE), P. Digvijay (CSE), Siddharth Chakraborty (ECE) and Ayush Poddar (CSE).

TCS CodeVita Winners

11 students from Batch 2021 were selected in TCS CodeVita, a global programming contest conducted by TCS and also got a job offer of 3.5 LPA. These students were Anubhaba Samanta (CSE), Navnita (CSE),

Nityakrushna Behera (CSE), Piyushi Poddar (CSE), Prateek Ram (CSE), Rahul Kumar (CSE), Ritesh Kumar Sinha (CSE), Shubham Saw (CSE), Swastik Mishra (CSE), Potnuru Kiran Kumar (ECE) and Vikrant Kumar (ECE).

ENTREPRENEURSHIP DEVELOPMENT CELL

Warm-up Session on Silicon Start-Up Ecosystem

The Entrepreneurship Development (ED) Cell organized an online warm-up session on Silicon Start-Up Ecosystem for 3rd and 5th semester students on 8th December 2020. Dr. Debabrata Kar (Dean Academics) welcomed all the participants to the session and Dr. Mahendra P. Agasty (FIC ED Cell) spoke about the objective of the program. Silicon has taken the initiative to build a platform to provide opportunity to students to establish successful start-ups. Silicon is collaborating with FreeFlow (MindSpace Ventures)

- a Venture Building company for this purpose. Mr. Aaquib Hussain, Founding Partner, FreeFlow (MindSpace Ventures), addressed the students on 8th December 2020.

ED Cell also received a sanction of INR 2.6 lakhs from the Department of Science and Technology (DST), Government of India to conduct two projects- WEDP (Women Entrepreneurship Development Programme) and TEDP (Technology-Based Entrepreneurship Development Programme).

INDUSTRY INTERFACE CELL

Placement Highlights

SiliconTech has witnessed a very good placement season in spite of the current pandemic. 65% of its eligible students have already been placed. More than 22 reputed companies have already participated and recruited the students during the current placement season. Over 50% of the placed students have got multiple offers with differential salary packages of 4.5 LPA and above. Some of the notable recruiters till date are SAP Labs, Infosys, Wipro, TCS, Cognizant, Spikewell,

Larkai, SysCloud, Rewoke Technologies, Aptus Datalab, VVDN Technologies, Qvantel, Cozentus Technologies Pvt. Ltd., Felix Healthcare, Hexaware, Sevyta Multimedia Technologies, Centrox, Polosoft Tech, Mindfire Solutions Pvt Ltd etc.

More than 60% of the students have already got intern-to-job offers, where the students would be doing internships in the final semester. The highest internship stipend till date is INR 25000 offered by Syscloud.

QUARINTERN DIARIES

For the past two quarters, we have been publishing the online internship experiences of our final year students during Covid-19 pandemic. Most of the interns have gladly responded to us to share their unique learning

experiences which they engage in by braving the varied challenges of Work from Home. We will conclude the Quarintern Diaries this time with the experiences of the remaining students.



SIDDHANT PANDA (CSE-4th Year)
Data Engineering Intern @ Everlytics Data
Science Inc

PROJECT: I am working on 4Pointx - an AIoT (Artificial Intelligence + IoT) platform which enables its customers to monitor their industrial productions & processes in real-time.

INTERNSHIP EXPERIENCE: During the first phase of the internship, I had to complete the Bootcamp training within a month. After that I got the opportunity to work on projects. Along with technical enhancement, I have gained some fine experience about different skills that are used in the professional workplaces such as Teamwork, Adaptability, Time Management, Professional Communication etc.

MESSAGE TO JUNIORS: Focus on your goals. Try to gain some practical skills on Versioning tools, Agile Software Development methodology, JIRA etc. One should also try to work on real-life projects during the first three years of college.



RAJEEV RANJAN (ECE - 4th Year)
Embedded System Intern @Reworke

PROJECT: I am working on a physiotherapeutic device involving pulsating electromagnetic field which will work in conjunction with the body's own recovery processes to relieve pain by restoring the ability of a cell to function efficiently. I have also worked on UV Sanitizer Box (Corona bin) which is the quickest, easiest and most cost-effective way to disinfect any items.

INTERNSHIP EXPERIENCE: This internship helped to know about real time problems. My hands-on experience is now at a stage where I can tackle any real time problems.

MESSAGE TO JUNIORS: Keep focusing on your goal irrespective of domains. Never look for shortcuts.



DIBYAJYOTI PRUSTY (CSE-4th Year)
Data Science Intern @ Spikewell

PROJECT: I am creating a simple, secure, multi-lingual, browser-based video calling application supporting interactive AR features for a child care hospital.

INTERNSHIP EXPERIENCE: This internship gave me the opportunity to work with various tools which are currently used in the IT industry.

MESSAGE TO JUNIORS: Focus on the core concepts as learning different languages becomes very easy if you have expertise in any one language; as a fresher you never know which technology you will be assigned to work with.

ALUMNI BUZZ

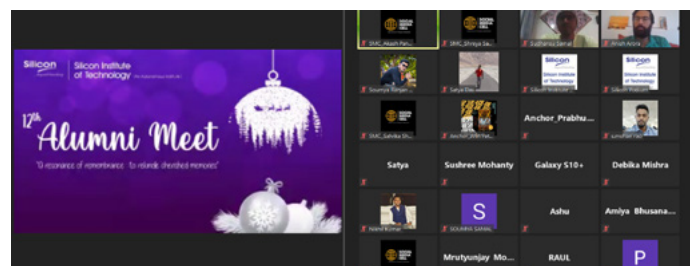
The Induction program for BTech students of Batch 2020-2024 was replete with motivational talks by our distinguished alumni from various walks of life. Mr. Chandrasekhar Mahanta - Assistant Consultant at TCS (BTech CSE, 2004-2008), Dr. Rameswar Panda, Research Staff Member at MIT-IBM Watson AI Lab, USA (BTech ETC 2007-2011), Dharmesh Darshan, MPE ToolCraft Australia (BTech EIE, 2008-2012), Dr. Manas K. Jena-Asst. Professor

at IIT Palakkad (BTech EEE, 2007-2011) and Mr. Sabyasachi Mishra, Odia Cine Star (BTech ETC, 2002-2006) spoke about their success stories. They not only spoke about various challenges prevalent in the IT industry, but ways to build a successful career and the importance of the present academic curriculum in career building. The talks were followed by an impressive and fruitful Q/A session with the freshmen.

ALUMNI MEET

The 12th Alumni Meet, was conducted online on 26th December 2020. A total of 160 alumni attended the event. The event commenced with the welcome address by our Director, Prof. (Dr.) Saroj Kanta Misra, followed by the Principal, Prof. (Dr.) Jaideep Talukdar, and FIC IICELL, Dr. Sanjit Kumar Swain. These yearly meets provide a platform for our alumni to share their experiences through insightful discussions, know the progress and major achievements of the Institute and students over the years. The event ended with alumni bonding over various cultural performances

clubbed with fun activities and an exquisite virtual campus tour, specially curated to reminisce on their memories.





Ankit is a senior data scientist with the Air Asia group (Airline sector). Prior to joining the industry, he worked as a Research Scientist in the Institute of High Performance Computing (IHPC), Singapore. He completed his PhD in Computer Science from Nanyang Technological University (NTU), Singapore in 2017. His research interests include developing and applying machine learning/ deep learning algorithms for solving real world problems. He has developed an intelligent brain machine interface that can enable people with disabilities to navigate the world in a smooth manner.

ANKIT DAS

Senior Data Scientist (Air Asia) | BTech(IT), 2004-2008

Swarnika worked at Infosys, Teradata (Pune), and later moved to core engineering. She worked with KBR Inc. (an Oil and Gas Company) as a Control Systems Engineer, at Gurgaon (India) and Houston (USA). Her key role in the organization was working on databases, developing and running ETL jobs, preparing Instrument Index, Datasheets, Flow Orifice and Control Valves Sizing which earned her awards like MVE (Most Valuable Engineer) and Star Performer award. One of her great achievements was to develop and enhance the CSE Smart Tool. Recently, she is pursuing MSc in Data Science from the University of Surrey in Guildford, England.



SWARNIKA PRIYAM

Ex- Control Systems Engineer, KBR Inc., England, UK | BTech (AEI), 2004-2008



After completing her engineering studies at Silicon, Amrita studied at the University of Glasgow, Scotland earning an MSc Degree in Public and Urban Policy. In 2015, she joined Reliance Jio headquarters in Navi Mumbai. She is a certified Jio Project Manager and has Jio Six Sigma certification. Over these five years, she has worked in project war rooms and toured fiber and tower sites across India. Her job responsibilities include project facilitation of Intracity Network Operations, training of field teams for fiber construction, database management in GIS and NE platforms.

AMRITA MISRA

Assistant Manager, Intracity Operations Center, Reliance Jio Infocom Pvt. Ltd. | BTech (ETC) 2009-2013

Chandan has been living in Melbourne, Australia for the past 10 years. He started his career with iGate Global Solutions. Having started his career in Java development, Chandan moved into different roles in the digital and e-commerce space. Currently, he is the Head of Digital & E- Commerce for a leading local homeware business, Stan Cash Superstore in Melbourne. He is also the Founder and Director of my Startup ShopExp Pty Ltd (www.shopexp.io) which he founded in 2018. His start-up helps retail businesses gain their competitive edge in the market with in-store digital smart mirrors.



CHANDAN PANDA

Founder and Director, ShopExp Pty Ltd & Head Of Digital & E- Commerce at Stan Cash, Melbourne, Australia | BTech (CSE), 2001-2005

Alumni Desk

Visit our Alumni Portal at <https://alumni.silicon.ac.in> & register yourself

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