

**Annual Report**  
**July 2022 – June 2023**

**Silicon Institute of Technology, Sambalpur**  
**Silicon West, Sason**  
**768200**

## Message from the Chairman

Warm greetings from Silicon Institute of Technology, Sambalpur!

I am delighted to share with you some highlights of the year.

It brings me great pleasure to say that an impressive 65% of our faculty members have been awarded their PhD degrees, while the rest are actively engaged in their doctoral research pursuits. The publication of research articles by our faculty members in esteemed journals indexed by SCI and SCOPUS not only signifies their scholarly achievements but also underscores the institute's potential in the realm of academia.

Our commitment to nurturing talent extends to our students, and I am pleased to report that the placement scenario at Silicon west has seen significant improvement. In the last academic year, more than 88% of our students have successfully secured placements. With over 60 campus drives conducted by both multinational corporations and innovative startups, our students have achieved a highest package of 9.21 LPA and an impressive average package of 4.83 LPA.

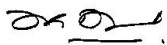
Moreover, the news of some of our alumni gaining admission to prestigious institutions such as IIMs, IITs, and universities abroad is evidence to the quality of education we provide.

In addition, I am pleased to acknowledge the remarkable achievement of 60 of our students who have been certified by NPTEL, with some of them securing positions in the top 5% scores in the offered courses. These academic engagements are a source of immense pride for us and reflect the commitment of our students to the pursuit of knowledge.

As we look ahead, I want to extend my heartfelt congratulations to all our staff members for their dedication to Silicon West. Your contributions are the driving force behind our progress, and I have no doubt that we will continue to reach new heights as a united team.

Together, we can achieve greatness. With the spirit of collaboration and a commitment to excellence, there is no limit to what we can accomplish. Let us embark on the upcoming academic year with renewed determination and a shared vision of success.

Warm regards,



Nitai Gaur Dhall

Chairman

Silicon Institute of Technology, Sambalpur

## Vision

“To become a center of excellence in the fields of technical education & research and create responsible citizens”

## Mission

“To provide the best of technical skills, professional ethics and human values in enriching the disciplines of Science, Engineering and Technology for social development and Nation building”

## Governing Body

The Governing Body for Silicon Institute of Technology, Sambalpur consists of educationists, technocrats and representatives of the affiliating University and Government. The Governing Body meets at least twice every year to frame policies and to monitor its implementation. The followings are the members of the Governing Body.

- |  |  |
|--|--|
| 1. Mr. Nitai Gaur Dhall (Chairman)       | 6. Prof. Bijoy Kishore Das (Educationist)    |
| 2. Mr. Sanjeev Nayak (Trustee)           | 7. Prof. Aditya Prasad Padhi (Educationist)  |
| 3. Mr. Ramananda Mishra (Trustee)        | 8. Prof. Omkar Nath Mohanty (Industrialist)  |
| 4. Mr. Somdutt Behura (Trustee)          | 9. Prof. Pradeep Kumar Mishra (Educationist) |
| 5. Prof. Prashant Kumar Mishra (Trustee) | 10. Prof. Saroj Kanta Mishra (Secretary)     |

## Quality Policy

We are committed to offer the best academic services to our Learners through continuous innovative practices by developing a team of highly qualified and motivated **Lecturers**, providing state-of-the-art **Laboratories** and having excellent **Library** facilities and ensuring its utilization.

## Silicon Best Practices

Silicon has initiated a series of best practices that have helped it emerge as a premier institute in Western Odisha. Some of these practices include:

- Democratic and decentralized governance
- Secular campus with no religious bias
- Online Feedback from students on the performance of members of faculty
- The system of Faculty Advisor for academic and personal care of students
- Orientation Programme for newly admitted students and Parents' Meet
- Special classes for academically weak students
- Chamber consultancy/assistance available to students
- Standard guidelines for members of faculty to prepare lesson plans and course handouts

- Weekly seminar for members of faculty
- Induction for newly admitted students where the students go through Expert Talks, Motivational Talks, Heritage Tours, Ice-Breaking Sessions, Bridge Courses etc.

### Highlights

- The academic building is having Wi-Fi connectivity for carrying out academic and administrative processes.
- The Institute uses ERP system to manage its academic & administrative processes. Like log-in, logout, class Attendance, internal marks, study material, processing of leaves etc.
- The campus has its own playground for different games like basketball, throw ball, football, cricket, volleyball.
- There is separate facility for indoor games like carrom, chess, and table tennis.
- Gymnasium facility is available for students.
- Cafeteria facility on campus is also available for the students and staff members.
- The campus has separate hostels for Boys & Girls.
- Guest House facility is available for visitors.
- The institute also has residential facility for faculty and staff members.
- A host of centralized facilities like canteen, parking in campus, transport & ambulance services for all students & staff.

### Approval & Affiliation

Silicon provides 5 UG programmes approved by the All India Council for Technical Education (AICTE), Ministry of HRD, Government of India, recognized by Government of Odisha and affiliated to the Biju Patnaik University of Technology (BPUT), Odisha.

Sl. No.	Name of Programme	Intake
1	Mechanical Engineering	60
2	Civil Engineering	60
3	Electrical Engineering	60
4	Electronics & Communication Engineering	30
5	Computer Science & Engineering	60

### Admission Process

The admission process is done through the centralised counseling of Odisha Joint Entrance Examination (OJEE) in accordance with the norms/guidelines prescribed by the state government for this purpose. The institute provides detailed Information about the admission process through its prospectus and also through its website. The institute also adheres to the reservation policies of the state government and the regulations in this regard to ensure equity and access to different Sections of the society. As the institute attracts a large number of students from other states, the reservation policies as applicable in this case are also adhered to.

### ADMISSION 2022-2023

#### Admission 2022 Regular (Rank details)

Name of the Programme	Intake		JEE M (AIR)		OJEE Rank	
			Students		Students	
	Sanctioned	Admitted	Minimum	Maximum	Minimum	Maximum
Mechanical Engineering	30	00	-	-	-	-
Electronics & Communication Engineering	30	00	-	-	-	-
Electrical Engineering	60	03	343475	897369	-	-
Computer Science & Engineering	60	56	126624	902413	1500196	1507071
Civil Engineering	30	01	-	-	1503294	1503294
<b>Total</b>	<b>210</b>	<b>60</b>	<b>126624</b>	<b>902413</b>	<b>1500196</b>	<b>1507071</b>

#### Admission 2022 Lateral (Rank details)

Name of the Programme	Intake	OJEE Rank of Admitted Students*	
		Minimum	Maximum
Mechanical Engineering	01	13355	13355
Electronics & Communication Engineering	0	-	-
Electrical Engineering	0	-	-
Computer Science & Engineering	10	13	16587
Civil Engineering	03	4203	16360
<b>Total</b>	<b>14</b>	<b>13</b>	<b>16587</b>

**Admission 2022-23 Gender Ratio**

Branch	Female	Male	Total
Mechanical Engineering	00	00	00
Electronics & Communication Engineering	00	00	00
Electrical Engineering	00	03	03
Computer Science & Engineering	12	44	56
Civil Engineering	00	01	01
			60

**Catering to Diverse Needs**

- The Institute offers remedial courses to the students upon joining so that they can adjust to the academic environment of Silicon with ease. The senior residents in the hostels also provide the necessary support by conducting peer learning classes during evening hours. The Institute also plays the role of a facilitator here by providing the necessary infrastructure support for peer learning.
- To reduce the number of back papers, faculty members are take additional classes in selected subjects.
- The Institute conducts Orientation Programme for newly admitted students in order to help them prepare for the courses of study in different branches.
- The slow and weak learners are given learning support in terms of extra class, remedial classes etc. by teachers and the mentors as required so that they can improve and learn in a better way.
- Tutorials are also a part of the set of academic instruments used at the Institute in order to ensure effective learning on part of the students.
- The Institute also follows a system for mentoring students with the help of a faculty advisor. With this system in place, a group of around 20 students are assigned to a faculty member who interacts with them on a regular basis and helps them solve their academic as well as personal problems.

**Student Support & Progression**

- The Institute provides a ragging free atmosphere to the students.
- The students admitted through the lateral entry scheme are provided proper academic support and guidance so that they can quickly adapt to Silicon's qualitative academic culture.
- The institute has provision for scholarship and other forms of financial assistance for meritorious and deserving students.
- The Institute encourages students to participate in large number of inter college competitions in curricular as well as extra-curricular fields.

- The Institute also encourages students to appear for exams such as GATE, CAT etc.
- The institute offers Pre-Placement Training to students for three consecutive semesters i.e. from 5<sup>th</sup> to 7<sup>th</sup> semester

### **Teaching Learning Evaluation Process**

- The Institute follows a non-negotiable academic calendar for all its academic processes. Though the calendar has been significantly affected by the COVID19 pandemic the institute has taken the best possible measures to keep the academic progress intact. The Institute has the distinction of having one of the best Teaching, Learning and Evaluation Processes among the affiliated private institutes in the state.
- All the departments prepare the schedule of academic and extra-curricular activities well in advance so that the activities and events can be effectively organised.
- The teaching learning processes at the institute is student centric. The methodologies used include integrated learning and ICT based learning.

### **Teacher Quality**

- Faculty members are selected as per the guidelines of AICTE and UGC, through open advertisement on all India basis. The selection committee for such appointments is constituted in 19 faculty members, 9 hold PhD degrees, and 08 members are continuing their doctoral research in respective fields.
- Out of the 19 faculty members, 18 are regular and permanent employees and 1 has been employed on contract. However, AICTE guidelines are strictly adhered to while assigning faculty workload.
- The Institute not only facilitates professional development of its faculty members through the liberal policy of study leave, but also through financial assistance.
- The Institute provides financial support to faculty members for making presentations in national and international conferences, seminars, workshops and to participate in FDPs, QIPs etc.
- The Institute also provides financial support to faculty members for membership in professional bodies /organizations and learning societies of repute.
- Faculty members publishing research articles in SCI and Scopus Indexed journals are given incentives as per institute norms.

## RESULT ANALYSIS

**Academic Year 2022-23**

**8<sup>th</sup> semester (Batch 2019-23) – Pass Rate**

<b>Branch</b>	<b><i>Appeared</i></b>	<b><i>Passed</i></b>	<b><i>Failed</i></b>	<b><i>% Success</i></b>
Civil Engineering	11	11	0	100%
Computer Science & Engineering	35	35	0	100%
Electrical Engineering	6	6	0	100%
Electronics & Communication Engineering	4	4	0	100%
Mechanical Engineering	3	3	0	100%
<b>Total</b>	<b>59</b>	<b>59</b>	<b>0</b>	<b>100%</b>

### CGPA

<b>Branch</b>	<b><i>&gt;=8.0</i></b>	<b><i>Total</i></b>
Civil Engineering	11	11
Computer Science & Engineering	35	35
Electrical Engineering	6	6
Electronics & Communication Engineering	4	4
Mechanical Engineering	3	3
<b>Total</b>	<b>59</b>	<b>59</b>

**7<sup>th</sup> semester (Batch 2019-23) – Pass Rate**

<b>Branch</b>	<b><i>Br.</i></b>	<b><i>Appeared</i></b>	<b><i>Passed</i></b>	<b><i>Failed</i></b>	<b><i>% Success</i></b>
Civil Engineering	CE	11	8	3	73%
Computer Science & Engineering	CSE	35	30	5	86%
Electrical Engineering	EE	6	5	1	83%
Electronics & Communication Engineering	ECE	4	4	0	100%
Mechanical Engineering	ME	3	3	0	100%
<b>Total</b>		<b>59</b>	<b>50</b>	<b>9</b>	<b>85%</b>

### CGPA

<b>Branch</b>	<b><i>Br</i></b>	<b><i>&gt;8.5</i></b>	<b><i>&gt;=8.0- &lt;8.5</i></b>	<b><i>&gt;=6.0- &lt;8.0</i></b>	<b><i>&gt;=4.5- &lt;6.0</i></b>	<b><i>Total</i></b>
Civil Engineering	CE	1	2	8	0	11
Computer Science & Engineering	CSE	4	17	14	0	35
Electrical Engineering	EE	0	2	3	1	6
Electronics & Communication Engineering	ECE	2	2	0	0	4
Mechanical Engineering	ME	0	0	3	0	3
<b>Total</b>		<b>7</b>	<b>23</b>	<b>28</b>	<b>1</b>	<b>59</b>



**5<sup>th</sup> semester (Batch 2020-24) - Pass Rate**

<b>Branch</b>	<b>Br.</b>	<b><i>Appeared</i></b>	<b><i>Passed</i></b>	<b><i>Failed</i></b>	<b><i>% Success</i></b>
Civil Engineering	CE	4	2	2	50%
Computer Science & Engineering	CS	33	27	6	82%
Mechanical Engineering	ME	6	3	3	50%
Total		43	32	11	74%

**CGPA**

<b>Branch</b>	<b>Br</b>	<b>&gt;8.5</b>	<b>&gt;=8.0- &lt;8.5</b>	<b>&gt;=6.0- &lt;8.0</b>	<b>&gt;=4.5- &lt;6.0</b>	<b>Below 4.5</b>	<b>Total</b>
Civil Engineering	CE	0	1	3	0	0	4
Computer Science & Engineering	CS	8	12	12	1	0	33
Mechanical Engineering	ME	1	0	4	1	0	6
Total		9	13	19	2	0	43

**3<sup>rd</sup> semester (Batch 2021-25) - Pass Rate**

<b>Branch</b>	<b>Br.</b>	<b><i>Appeared</i></b>	<b><i>Passed</i></b>	<b><i>Failed</i></b>	<b><i>% Success</i></b>
Civil Engineering	CE	6	4	2	67%
Computer Science & Engineering	CS	42	27	15	64%
Electrical Engineering	EE	1	1	0	100%
Mechanical Engineering	ME	5	2	3	40%
Total		54	34	20	63%

**CGPA**

<b>Branch</b>	<b>Br</b>	<b>&gt;8.5</b>	<b>&gt;=8.0- &lt;8.5</b>	<b>&gt;=6.0- &lt;8.0</b>	<b>&gt;=4.5- &lt;6.0</b>	<b>Below 4.5</b>	<b>Total</b>
Civil Engineering	CE	1	2	2	1	0	6
Computer Science & Engineering	CS	7	6	25	4	0	42
Electrical Engineering	EE	1	0	0	0	0	1
Mechanical Engineering	ME	0	0	4	1	0	5
Total		9	8	31	6	0	54

**1<sup>st</sup> semester (Batch 2022-26) - Pass Rate**

Branch	Br.	Appeared	Passed	Failed	% Success
Computer Science & Engineering	CS	56	25	31	45%
Electrical Engineering	EE	3	0	3	0%
	Total	59	25	34	42%

**CGPA**

Branch	Br	>=8.5	>=8.0- <8.5	>=6.0- <8.0	>=4.5- <6.0	Below 4.5	Total
Computer Science & Engineering	CS	9	5	36	4	2	56
Electrical Engineering	EE	0	0	1	2	0	3
Total		9	5	37	6	2	59

**PLACEMENT DETAILS**

PLACEMENT AT A GLANCE (2023 GRADUATES)									
Branch	Total Students	Eligible Students	No. of Job Offers	Offers against Total Students (%)	Offers against Eligible Students (%)	Repeaters	Placed	Placed against Eligible Students (%)	Placed against Total Students (%)
CE	11	5	2	18.18	40.00	0	2	40.00	18.18
CSE	35	30	46	131.43	153.33	12	29	96.67	82.86
ECE	4	4	9	225.00	225.00	3	4	100.00	100.00
EE	6	2	1	16.67	50.00	0	1	50.00	16.67
ME	3	2	4	133.33	200.00	1	2	100.00	66.67
<b>Total</b>	<b>59</b>	<b>43</b>	<b>62</b>	<b>105.08</b>	<b>144.19</b>	<b>16</b>	<b>38</b>	<b>88.37</b>	<b>64.41</b>
Company wise offers for 2023 graduates									
Company			Offers	LPA					
Infosys (InfyTQ SE)			2	3.5					
SAP Labs			2	6.5					
Incture			3	6.25					
Surya Software			1	7					
Prodapt			1	8					
Asiczen			2	4.34					
Digit Insurance			2	4.5					
Accenture			7	4.5					
Capgemini			8	4.25					
Hexaware			1	6					
Nirmalya Labs			1	3.25					
Rumango Technology			1	4					

LTTS	9	4
Synergy Labs	1	9.21
Synergy Labs	1	8
TCS (Ninja)	1	3.36
STL	2	3.23
Spotline	1	7
In2itEBS	1	3.5
Kirloskar	1	2.4
Cozentus	2	6
Synopsis	2	8.38
Qspider	7	TBD
Aditya Aluminum	1	3.2
S D Construction Equipment	1	2.4
Byju's	1	4
<b>Total</b>	<b>62</b>	

### Highest Package – 9.21 LPA

### Students with Highest Package – 1

### Company – Synergy Labs

## LIBRARY RESOURCES

Books, journals and periodicals are procured on a regular basis in order to support academic and research activities among students and faculty members. Silicon has made addition to its existing Library Resources during the session March- September 2023 by acquiring 05 Titles and 09 volumes. In addition to this the Library also subscribes to 9 hardcopies of national & international journals, 9 technical magazines and 11 general magazines. The details are as follows.

Sl. No	Types of Books/Journals	Titles Added	Total Title	Volumes Added	Total Volume
1	Library	05	3784	09	16470
2	Book Bank	0	198	0	5408
3	National & International Journals	9			
4	Technical Magazines	9			
5	General Magazines	11			
6	E-Journal	Access to Nature, IEEE, ScienceDirect, ProQuest and Springer through Knimbus			

## PUBLICATIONS BY FACULTY MEMBERS

### Journals

Total Number of Journal Publications	Indexed by SCI/ESCI	Indexed by Scopus	Others
8	4	2	2

1. **Chinmayee Padhy**, Pabitra Kumar Jena, S.K. Paikray, 'Operator Matrices on the Bergman Space' Filomat, Vol. 36, Issue 10, 2022. Page 3311-3320. ISSN: 2406-0933. DOI – doi.org/10.2298/FIL2210311P. Indexed by SCI(E) and Scopus
2. **Buddhadeva Sahoo**, Mohammed M. Alhaider, and Pravat Kumar Rout. "Power quality and stability improvement of microgrid through shunt active filter control application: An overview." Renewable Energy Focus (2023)
3. **Manoj Kumar Mahapatra**, Payodhar Padhi, Jayadev Rana, Biswajit Satpathy. A WEDM Investigation of Alumina-Metal Matrix Nanocomposites Fabricated by Non-Contact Ultrasonic Cavitation Method by Multi-Response Signal-to-Noise ratio (MRSN) Approach. Industrial Engineering. Publisher: Indian Institution of Industrial Engineering. ISSN:0970-2555, Volume:-15, Issue-10, page no.741-753, Indexed by UGC Care.
4. **Manoj Kumar Mahapatra**, Jayadev Rana, Vyjainto Kumar Ray, Biswajit Satpathy. Sliding Wear Characteristics Through An Artificial Neural Network Of Alumina-Aluminum Nano-Composite Produced By Noncontact Ultrasonic Cavitations Method. Advances in Mechanics Publisher: li xue jin zhan bian ji bu. ISSN :1000-0992, Volume-10, Issue-1, page no.1457-1470, Indexed by Scopus Q3 . Date of Publication: November 2022
5. Chanda S S. Patel, **S. K.; Nayak**, A.N.; Mohanty C. R. (2023) Performance evaluation on bond, durability, micro-structure, cost effectiveness and environmental impacts of fly ash cenosphere based structural lightweight concrete, Constr. Build. Mater, Elsevier (SCIE & Scopus, IF.-7.14),132429.
6. Rajashree Pani, **Ashutosh Rath**, P.K.Swain "Water quality assessment for River Mahanadi of Odisha, India using statistical techniques and Artificial Neural Networks", Journal of Cleaner Production Elsevier ((SCIE & Scopus, IF.-11.1),417(2023)137713, July 2023
7. **Tyagraj Thakur**. "Chinua Achebe's Alternative Narrative Paradigm: 'Re-storying' Africa through Arrow of God," Meher Journal of English Studies, published by Gangadhar Meher University, Sambalpur (Accepted)

8. **Nabin Kumar Naik.** "Hybrid Enhanced Featured Alexnet for Milled Rice Grain Identification" in *Ingénierie des Systèmes d'Information* on June 2023. <https://doi.org/10.18280/isi.280315>

### Papers under Review

1. **Satyabrat Sahoo,** Satya Prakash Sahoo, Manas Ranjan Kabat. "A Pragmatic Review of QoS Optimisations in IoT Driven Networks". Springer, *Wireless Personal Communications*, Vol. x, No. x, 2021. (Communicated and under Review)
2. **Satyabrat Sahoo,** Satya Prakash Sahoo, Ram Chandra Barik, Manas Ranjan Kabat. "A Hybrid Genetic Algorithm for Resource Optimization in 5G enabled IoVs". Springer, *Wireless Network*, Vol. x, No. x, 2022. (Communicated and under Review)

### Book Chapters

1. **Simanchal Bag.** "Socio-Economic and Cultural Status of Distress Labour Migrants of Western Odisha- A Normative Analysis" in *Emerging Trends in Insurance and Management Practices*, Kunal Books, New Delhi.
2. **Ashutosh Rath et.al.** "Effect of Climate Change on the Agricultural System of Hirakud Command Area, Disaster Risk Reduction for Resilience Vol. 6, springer nature

### Papers Reviewed by Faculty Members for Journals/Conferences

1. **Mr. Biresh Kumar Dakua** reviewed a manuscript ID: TIMC-22-1281 entitled "Centralized model matching integer order/fractional order controller design for multivariable processes with/without time delay" for the *Journal Transactions of the Institute of Measurement and Control of SAGE Publication*.
2. **Mr. Biresh Kumar Dakua** reviewed manuscript ID: 29024 entitled "Determination of AVR system PID controller parameters using improved variants of reptile search algorithm and a novel objective function: AVR PID Controller Using ORSA and ORSAPS with a novel OF," which has been submitted to the *Journal Energy Engineering of Tech Science Press*.
3. **Mr. Biresh Kumar Dakua** reviewed a Conference paper (ID-25) titled "MPC based Frequency Regulation for Shipboard Microgrid" at the 2nd International Symposium on Sustainable Energy and Technological Advancements (ISSETA 2023), National Institute of Technology Meghalaya, India. 24th-25th Feb. 2023.
4. **Mr. Biresh Kumar Dakua** reviewed a Conference paper (ID-30) titled "Battery and SMES based Dynamic Voltage Restorer Performance Verification Under Various Load Conditions in a Grid Connected PV-Wind System" at the 2nd International Symposium

- on Sustainable Energy and Technological Advancements (ISSETA 2023), National Institute of Technology Meghalaya, India. 24th-25th Feb. 2023.
5. **Mr. Biresh Kumar Dakua** reviewed a Conference paper (ID-109) titled “Nonlinear Behaviour of Rotor Angle Dynamics in Three Machine Infinite Bus Power System” at the 2nd International Symposium on Sustainable Energy and Technological Advancements (ISSETA 2023), National Institute of Technology Meghalaya, India. 24th-25th Feb. 2023.
  6. **Mr. Biresh Kumar Dakua** reviewed a conference paper (ID: 97) titled “Microgrid frequency stabilization study with approaching SCA tuned Fuzzy controller” submitted to the 4th Electric Power and Renewable Energy Conference (EPREC-2023) held during 25th - 27th May 2023 at NIT Jamshedpur.
  7. **Mr. Biresh Kumar Dakua** reviewed a conference paper (ID: 107) titled “Reducing the burden on the utility grid by implementing the demand response strategy with home loads and solar PV using TLBO technique” submitted to the 4th Electric Power and Renewable Energy Conference (EPREC-2023) held during 25th - 27th May 2023 at NIT Jamshedpur.
  8. **Mr. Satyabrata Sahoo** reviewed a conference paper (ID :46) titled "A review on stanene nanostructures - A promising material for nano-scale applications" submitted to 11th IEEE ESDC 2023 organized by Indian Institute of Information Technology (IIIT), Sri City, India In association with London Digital Twin Research Center (UK)

### **PAPERS PRESENTED IN CONFERENCES/SEMINARS**

1. **Biresh Kumar Dakua.** “Design of PI $\lambda$ -PD $\mu$  Controller for Industrial Unstable and Integrating Processes with Time Delays”. 2nd International Symposium on Sustainable Energy and Technological Advancements (ISSETA 2023), National Institute of Technology Meghalaya, India. 24th-25th Feb. 2023.
2. **Manoj Kumar Mahapatra.** “Study of processing parameters of hybrid Nano-alumina reinforced aluminum metal matrix composites with wire cut EDM” at National Conference on Advances in Condensed Matter Physics(ACMP-2020) organised by the Post Graduate Department of Physics, Government Autonomous College, Angul, Odisha, India during 3rd -4th December 2022
3. **Manoj Kumar Mahapatra.**“Tribological characteristics of Metal matrix nano composite prepared by non contact solidification cavitations method” at 4th International Conference on Processing and Characterization of Materials (ICPCM) organised by the Department of Metallurgical and Materials Engineering. NIT, Rourkela during 9th -11th December 2022
4. **Manoj Kumar Mahapatra.** “MRSN-based Multi-response Optimization of Wire EDM parameters for Aluminium Silicon Carbide Metal matrix Nano Composites” at the 50<sup>th</sup> National Symposium on Acoustical Science (NSA-2023) on Emerging Trends in Acoustical science, Design and Technology **Organized by the** Department of Physics and Architecture, VSSUT , Burla, Odisha and Acoustical Society of India (ASI) during 24<sup>th</sup> -26<sup>th</sup> February 2022

5. **Nabin Kumar Naik.** "Roasted Coffee beans Classification based on Convolutional Neural Network" in International Conference on Futuristic Technologies - INCOFT 2022 organized by SGBIT, Belagavi, IEEE Bangalore Section, Karnataka, on 25th November 2022.
6. **Nabin Kumar Naik.** "Support Vector Machine Classifier for Wheat Grain Identification based on Grid Search Optimization Technique" 8th Edition of ICT4SD International ICT summit & Awards 2022 in concurrence with Indian Esports & Gaming Summit 2023 on 3th - 4th, August 2023 at Goa, India.
7. **Tyagraj Thakur.** 'Translation for Globalectics: With the Example of Two Odia Novels Recently Translated into English,' at the International Conference on "Imagining and Translating the 'Other': Engaging with Contemporary Indian Literature" organised by the Department of English Language and Literature, Central University of Odisha, Koraput on from 20th to 22nd March 2023 .
8. **Chimayee Padhy.** 'A study on Kernel & range of Toeplitz and little Hankel operators on the Bergman space' at OHEPEE sponsored National Seminar organised by the P.G. Department of Mathematics, Berhampur University on 25-26 March 2023.
9. **Satyabrat Sahoo.** "A novel Optimization technique in 5G based IoVs using hybrid Fuzzy Weight-NSGA Scheme" IEEE conference on "Electronic System Devices and Computing" held at IIIT SRI City, AP on between 4th-6th May, 2023 and was published in IEEE explorer[DOI: 10.1109/ESDC56251.2023.10149880].
10. **Satyabrat Sahoo et.al.** "A Wheel-Chair model for disabledes utilizing hybrid approach of Text Classification". IEEE INDICON-2023
11. **Biresh Kumar Dakua.** "A Comparison between the FOTID and FOPID Controller for the Close-Loop Speed Control of a DC Motor System" Presented at the INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND APPLICATIONS (ICAIA-2023), Alliance University, Bangalore, India held during April 21-22, 2023.
12. **Buddhadeva Sahoo,** Pravat Kumar Rout, and Mohammed M. Alhaider. "Modified Nonlinearity observer-based Sliding Mode Controller for Electric Vehicle Operation (Electric Vehicle Dynamics Study)." 2022 2nd Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON). IEEE, 2022.

### **INVITED TALKS**

1. **Dr. Tyagraj Thakur** delivered an online invited talk titled 'Postcolonial Literature: A Bird's- Eye View' in a webinar organised by the PG Department of English, Kalahandi University, Bhawanipatna on 15th April 2023.
2. **Dr. Tyagraj Thakur** delivered an online invited talk titled "Role of English in Disseminating Indian Knowledge Tradition" in an International Webinar on Humanities in the Digital and Global World organised by the PG Department of English, Government College, Sundargarh on 4<sup>th</sup> March 2023.

### **PARTICIPATION IN WORKSHOPS/SEMINARS/WEBINARS/FDPS**

1. **Dr, Ashutosh Rath** attended the training program titled "Bhuvan Overview" organised by National Remote Sensing Centre, ISRO, Govt.of India from 9-11-22 to 11-11-22.

2. **Mr. Nabin Kumar Naik** attended Two Week ATAL FDP AICTE Sponsored on “Architecture Design Strategy for Signal Processing Algorithms using Approximation Techniques” organized by the Department of Electronics Communication Engineering, SUIIT, Sambalpur University from 5th -16th December 2022.
3. **Dr. Tyagraj Thakur** participated in Prof. Srimat Sahu Memorial Lecture on “Literary Globality: Indian Literature and World Literature” by Prof. Harish Trivedi, Former Professor of English, Delhi University organised by Gangadhar Meher University, Sambalpur on 22nd February 2023.
4. **Dr. Tyagraj Thakur** participated in a Short Term Training Program (STTP) on “Accreditation Process and NBA” organised by Silicon Institute of Technology, Bhubaneswar from 17th to 21st January 2023.
5. **Dr. Manas Ranjan Jena** participated in a Short Term Training Program (STTP) on “Accreditation Process and NBA” organised by Silicon Institute of Technology, Bhubaneswar from 17th to 21st January 2023.
6. **Mr. Satyabrata Sahoo** participated in a Short Term Training Program (STTP) on “Accreditation Process and NBA” organised by Silicon Institute of Technology, Bhubaneswar from 17th to 21st January 2023.
7. **Mr. Satyabrata Sahoo** participated in AICTE-ATAL Led TechSaksham OnLine FDP on “Artificial Intelligence” from 20<sup>th</sup> to 24<sup>th</sup> Feb 2023.
8. **Mr. Biresh Kumar Dakua** attended a Three-Day Webinar on “Wireless Communication, Image & Signal Processing” WCISP-2022 held from 20th - 22nd October 2022, at SIT Bhubaneswar.
9. **Mr. Satyabrata Sahoo**, Department of Computer Science attended NPTEL-IIT KGP East Zone SPOC felicitation Workshop at Kolkata on 1st June, 2023.
10. **Dr. Chinmayee Padhy** attended a Five-Day Online-FDP on Universal Human Values (UHV)-I organised by the AICTE, New Delhi from 21st to 25th August 2023.
11. **Dr. Simanchal Bag** attended a workshop on National Board of Accreditation (NBA) organised by BPUT, Odisha in CIME, Bhubaneswar from 22nd to 24th August 2023.
12. **Dr. Deepak Sahu** attended a workshop on National Board of Accreditation (NBA) organised by BPUT, Odisha in CIME, Bhubaneswar from 22nd to 24th August 2023.
13. **Mr. Satyabrata Sahoo** attended an online workshop titled “Fundamentals of Wireless Communication” conducted by IIT-Madras NPTEL+ on 5th Aug 2023.
14. **Dr. Ashutosh Rath** attended an online FDP on “Faculty Interactive Session On Industry Expectation” organized by BPUT, Rourkela, Odisha on 28<sup>th</sup> August 2023.
15. **Dr. Sohan Kumar Pande** attended an online FDP on “Faculty Interactive Session On Industry Expectation” organized by BPUT, Rourkela, Odisha on 28<sup>th</sup> August 2023.
16. **Dr. Manas Ranjan Jena** attended an online FDP on “Faculty Interactive Session On Industry Expectation” organized by BPUT, Rourkela, Odisha on 28<sup>th</sup> August 2023.
17. **Mr. Nabin Kumar Naik** attended an online FDP on “Faculty Interactive Session On Industry Expectation” organized by BPUT, Rourkela, Odisha on 28<sup>th</sup> August 2023.
18. **Mr. Ashish Singh Saluja** attended an online FDP on “Faculty Interactive Session On Industry Expectation” organized by BPUT, Rourkela, Odisha on 28<sup>th</sup> August 2023.
19. **Mr. Biresh Kumar Dakua** attended an online FDP on “Faculty Interactive Session On Industry Expectation” organized by BPUT, Rourkela, Odisha on 28<sup>th</sup> August 2023.



20. **Dr. Simanchal Bag** attended an online FDP on “Faculty Interactive Session On Industry Expectation” organized by BPUT, Rourkela, Odisha on 28<sup>th</sup> August 2023.
21. **Dr. Tyagraj Thakur** attended and acted as a rapporteur in the National Seminar on “Holistic Education: NEP 2020” organized by Sambalpur Public Library in collaboration with Teaching Learning Centre, Ramanujan College, University of Delhi on 13<sup>th</sup> August 2023.
22. **Dr. Simanchal Bag** attended a Five-Day Online-FDP on Universal Human Values (UHV)- I organised by the AICTE, New Delhi from 11<sup>th</sup> to 15<sup>th</sup> September 2023.
23. Two students from 8<sup>th</sup> Semester CSE, namely **Mr. Siddharth Priyadarshi** and **Mr. Kunal Sharma** participated in the G20 Seminar organised by Indian Institute of Technology, Bhubaneswar (IITB) at CSIR-IMMT, Bhubaneswar from 23<sup>rd</sup> to 26<sup>th</sup> April 2023.

### **AWARDS AND CERTIFICATIONS FROM NPTEL**

#### **NPTELCERTIFICATES EARNED BY FACULTY MEMBERS**

Sr.	Course Name	Name	Department	Final Score	Certificate Type	Exam Date	Timeline
1	Big Data Computing	Sohan Kumar Pande	CSE	77	Elite+Silver	2022-10-29	Jul-Oct 2022
2	Introduction to Wireless and Cellular Communications	Dr MANAS RANJAN JENA	ECE	60	Elite	2022-10-30	Jul-Oct 2022
3	Introduction To Soft Computing	ASHUTOSH RATH	CE	88	Elite+Silver	2023-03-26	Jan-Mar 2023
4	Blockchain and its Applications	Sohan Kumar Pande	CSE	75	Elite+Silver	2023-04-29	Jan-Apr 2023
5	Optical Wireless Communications for Beyond 5G Networks and IoT	Dr MANAS RANJAN JENA	ECE	76	Elite+Silver	2023-04-29	Jan-Apr 2023

#### **NPTEL CERTIFICATES EARNED BY STUDENTS**

Sr.	Course Name	Name	Department	Final Score	Certificate Type	Exam Date	Timeline
1	Programming In Java	Amarnath Aich	CSE	87	Elite+Silver	2022-10-30	Jul-Oct 2022
2	Programming In Java	HITESH MISHRA	CSE	87	Elite+Silver	2022-10-30	Jul-Oct 2022
3	Programming In Java	Chiranjeeb Das <b>(TOPPER OF</b>	CSE	82	Elite+Silver	2023-04-30	Jan-Apr 2023

		5% IN THIS COURSE)					
4	Introduction To Internet Of Things	Arnold Anthony	CSE	82	Elite+Silver	2023-04-30	Jan-Apr 2023
5	Programming In Java	Rupeswar Bhainsa	CSE	80	Elite+Silver	2022-10-30	Jul-Oct 2022
6	Programming In Java	Gourav	CSE	80	Elite+Silver	2023-04-30	Jan-Apr 2023
7	Introduction To Internet Of Things	APALA MAHANA	CSE	79	Elite+Silver	2023-04-30	Jan-Apr 2023
8	Programming In Java	Amiya Prakasha Bisoi	CSE	71	Elite	2022-10-30	Jul-Oct 2022
9	Programming In Java	Satyajit Mahato	CSE	71	Elite	2023-04-30	Jan-Apr 2023
10	Programming, Data Structures And Algorithms Using Python	Yoshobanta Bisoi	CSE	70	Elite	2022-09-25	Jul-Dec 2022
11	Data Base Management System	APALA MAHANA	CSE	70	Elite	2022-10-29	Jul-Oct 2022
12	Programming In Java	Chirag Singh	CSE	70	Elite	2023-04-30	Jan-Apr 2023
13	Programming In Java	Nikhil Agrawal	CSE	70	Elite	2023-04-30	Jan-Apr 2023
14	Data Structure And Algorithms Using Java	Nikhil Agrawal	CSE	69	Elite	2022-10-30	Jul-Oct 2022
15	Programming In Java	ANKIT ROY	CSE	69	Elite	2023-04-30	Jan-Apr 2023
16	Programming In Java	Bhupinder Singh	CSE	69	Elite	2023-04-30	Jan-Apr 2023
17	Fundamental Algorithms: Design And Analysis	Santosh Kumar Meher	CSE	68	Elite	2023-03-26	Jan-Mar 2023
18	Programming In Java	Madhusudan sahu	CSE	68	Elite	2023-04-30	Jan-Apr 2023
19	Python for Data Science	Somdev Behera	CSE	67	Elite	2022-09-25	Jul-Dec 2022
20	Data Base Management System	Arnold Anthony	CSE	65	Elite	2022-10-29	Jul-Oct 2022
21	Data Structure And Algorithms Using Java	Somdev Behera	CSE	65	Elite	2022-10-30	Jul-Oct 2022
22	Python for Data Science	Subhendu Goutam	CSE	64	Elite	2022-09-25	Jul-Dec 2022

23	Programming In Java	Subhashree Behera	CSE	64	Elite	2022-10-30	Jul-Oct 2022
24	Data Base Management System	Smriti Shikha Behera	CSE	64	Elite	2023-03-26	Jan-Mar 2023
25	Programming In Java	Ankur Kumar Mishra	CSE	63	Elite	2023-04-30	Jan-Apr 2023
26	Programming In Java	Bandita Thakur	CSE	63	Elite	2023-04-30	Jan-Apr 2023
27	Programming In Java	Disha Podha	CSE	63	Elite	2023-04-30	Jan-Apr 2023
28	Programming In Java	Aayush Kumar	CSE	62	Elite	2023-04-30	Jan-Apr 2023
29	Programming In Java	Yoshobanta Bisoi	CSE	58	Successfully completed	2023-04-30	Jan-Apr 2023
30	Programming In Java	Vipul kumar	CSE	56	Successfully completed	2023-04-30	Jan-Apr 2023
31	Programming In Java	LOPITA SAHU	CSE	55	Successfully completed	2023-04-30	Jan-Apr 2023
32	Programming In Java	Abhisek Patra	CSE	55	Successfully completed	2023-04-30	Jan-Apr 2023
33	Programming In Java	Piyush Das	CSE	55	Successfully completed	2023-04-30	Jan-Apr 2023
34	Data Structure And Algorithms Using Java	Anup Kumar Sahu	CSE	54	Successfully completed	2022-10-30	Jul-Oct 2022
35	Programming In Java	Ritesh Brahmachari	CSE	54	Successfully completed	2023-04-30	Jan-Apr 2023
36	Programming In Java	Pradyumna Kumar Sahoo	CSE	54	Successfully completed	2023-04-30	Jan-Apr 2023
37	Programming In Java	Rakesh Patel	CSE	54	Successfully completed	2023-04-30	Jan-Apr 2023
38	Data Base Management System	Aayush Kumar	CSE	53	Successfully completed	2022-10-29	Jul-Oct 2022
39	Data Base Management System	Abhishek Bhakat	CSE	51	Successfully completed	2022-10-29	Jul-Oct 2022
40	Computer Networks And Internet Protocol	Kuldeep Parida	CSE	51	Successfully completed	2023-04-29	Jan-Apr 2023
41	Programming In Java	Deepika Rout	CSE	51	Successfully completed	2023-04-30	Jan-Apr 2023
42	Data Base Management System	Riya Choudhary	CSE	50	Successfully completed	2022-10-29	Jul-Oct 2022
43	Data Base Management System	Diksha Yadav	CSE	50	Successfully completed	2023-03-26	Jan-Mar 2023

44	Foundation of Cloud IoT Edge ML	Subham Barik	CSE	50	Successfully completed	2023-04-29	Jan-Apr 2023
45	Data Base Management System	Pranjal Parmar	CSE	49	Successfully completed	2022-10-29	Jul-Oct 2022
46	Data Base Management System	Priyanshu Raj	CSE	49	Successfully completed	2022-10-29	Jul-Oct 2022
47	Programming In Java	Matru Prasad Sahoo	CSE	49	Successfully completed	2023-04-30	Jan-Apr 2023
48	Programming In Java	Vargav Mishra	CSE	48	Successfully completed	2023-04-30	Jan-Apr 2023
49	Data Base Management System	Kshitij Satpathy	CSE	41	Successfully completed	2022-10-29	Jul-Oct 2022
50	Programming In Java	Tanisha Dutta	CSE	41	Successfully completed	2023-04-30	Jan-Apr 2023
51	Basic construction materials	SASWAT RANJAN PATTNAIK	CE	64	Elite	2023-04-30	Jan-Apr 2023
52	Integrated Waste Management For A Smart City	Pratham Narayan Panda	CE	58	Successfully completed	2022-10-30	Jul-Oct 2022
53	Programming In Java	Dulal bag	CE	55	Successfully completed	2023-04-30	Jan-Apr 2023
54	Basic construction materials	Purushottam sonwani	CE	55	Successfully completed	2023-04-30	Jan-Apr 2023
55	Water Supply Engineering	Bhagyaban Behuria	CE	53	Successfully completed	2023-04-29	Jan-Apr 2023
56	Housing Policy & Planning	Prajna priyadarshini swain	CE	49	Successfully completed	2022-09-25	Jul-Dec 2022
57	Basic construction materials	ADYASHA KARNA	CE	49	Successfully completed	2023-04-30	Jan-Apr 2023
58	Manufacturing Process Technology I & II	Gyana ranjan Nag	ME	52	Successfully completed	2023-04-30	Jan-Apr 2023
59	Manufacturing Process Technology I & II	ABHINAB PANIGRAHI	ME	51	Successfully completed	2023-04-30	Jan-Apr 2023
60	Manufacturing Process Technology I & II	SANYASHI MAHANAND	ME	51	Successfully completed	2023-04-30	Jan-Apr 2023

#### **ADDITIONAL FACILITIES CREATED**

With a view to ensure smooth conduct of classes during two months of summer (May-June 2023), air-conditioners were installed in three of the classrooms.

## TALKS/WORKSHOPS/FDPs ORGANISED

### 1. Talk on Value Education

A lecture on Value Education was organised in the institute campus on 23rd July 2022. Sri Gokuleswar Das, Vice-President, International Society for Krishna Consciousness (ISKCON), Juhu, Mumbai was the resource person of the occasion who reflected on the diverse connotations of Dharma and Karma while elucidating the path to a happy and successful life through examples from Indian scriptures and mythology. The lecture was followed by an interactive session where students and members of faculty and staff asked their queries. All the queries were addressed by the resource person. Prof. Mihir Hota (Dean) welcomed the resource person and the delegates from ISKCON, and Dr.Tyagraj Thakur compered the programme. Mr. Ashish Singh Saluja, FIC, Students' Council coordinated the hospitality and logistics. More than 140 students and staffs participated in the programme.



### 2. Expert Talk on A Journey from Campus to Corporate

The Industry Interface Cell organised an online **Expert Talk** titled “A Journey from Campus to Corporate: Career in Manufacturing Sector” by Mr. Sanjay Kumar Pattnaik, CEO-People Better on 22nd August 2022. Mr.Pattnaik reflected upon the changing dynamics of the manufacturing sector and the need for an interdisciplinary approach that the students aspiring to join the corporate should imbibe and inculcate. While highlighting the role of Internet of Things (IoT), Artificial Intelligence (AI) and Machine Learning (ML) in the next generation manufacturing sector he emphasised how students can make a swift switch from campus to corporate. He also addressed the significance of the 4Ps namely, People, Process, Product and Presence for the industries to grow in contemporary times. Students from all batches and branches of Sambalpur campus participated in the Talk and added value to their learning.

SiliconTech  
SAMBALPUR

**A JOURNEY  
FROM CAMPUS  
TO CORPORATE**  
CAREER IN MANUFACTURING  
SECTOR

ORGANISED BY  
IICELL, SIT-B

Sanjay Kumar Pattnaik  
CEO, PEOPLE BETTER

Conduction  
Mode  
**ONLINE**

Event  
Date  
**22ND AUGUST**

Event  
Time  
**3:30 PM**

### 3. Expert Talk on “Opportunities in Agri-Tech Startup Ecosystem”

The Entrepreneurship Development Cell of the institute organised an Expert Talk on "Opportunities in Agri-Tech Startup Ecosystem" on 24th November 2022 where the Resource Person Mr. AbhilashVarma, CEO, Hendel Social Ventures, Hyderabad reflected upon the opportunities in the social development through AgriTechStart-up ventures. Prof. MihirHota(Dean) delivered the welcome address and Ms. Ankita Panda (FIC, ED Cell) shared her thoughts on the need of entrepreneurial mindset to create opportunities for the society. The resource person Mr. Varma delineated how the



new-age technological innovations have brought a paradigm shift to the agricultural process and product in the recent years. He also oriented the students to the possibilities and opportunities in the AgriTech sector that can be rewarding career options for the budding technocrats while bringing the most desired change in the socioeconomic fabric of the nation. Mr. SiddhartPriyadarshi, 7<sup>th</sup> Semester, CSE coordinated the programme and Mr. GourishBhagat, 7<sup>th</sup> Semester, ECE proposed the vote of thanks.

### 4. Expert Talk on "R&D, Innovation and Entrepreneurship in Engineering Sciences"

The Industry Interface Cell of the institute organised an Expert Talk titled "R&D, Innovation and Entrepreneurship in Engineering Sciences" on 26th November 2022. Prof. Mihir Hota (Dean) delivered the welcome address and the Resource Person Dr.Bijay Kumar Sahu, Head-Technology

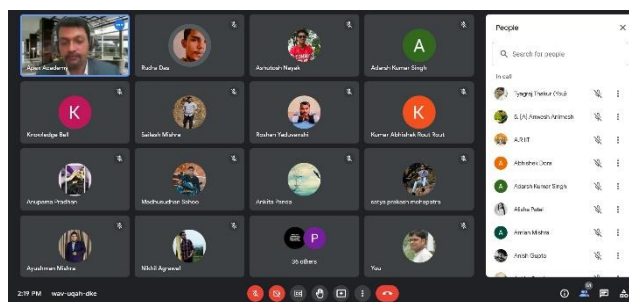


Innovation Support Centre & Intellectual Property Facilitation Centre, National Research Development Corporation (NRDC), Government of India reflected upon the need for innovative thinking for the nation's progress. He deliberated on the wide range of opportunities in the areas of scientific and technological innovations supported and facilitated by the Government of India through NRDC. He urged students to come up with innovative ideas that can significantly address the gaps and problems through technological interventions and emphasised the role of NRDC in taking the potential ideas to their desired fruition. Mr.SiddheswarOjha, 7<sup>th</sup> Semester, CSE coordinated the programme and proposed the vote of thanks.



## 5. Investor Awareness Programme

An "Investor Awareness Programme" for students was organised by the Industry Interface Cell in collaboration with Knowledge Bell, Bangalore and Apex Academy, Kochi on 10<sup>th</sup> December 2022 where more than 60 students participated.



The expert for the session was Mr. Manoj T Neelakantan, Managing Partner & Lead Trainer, Apex Academy, Kochi.

## 6. Expert Talk on "Development of Quantum Mechanics"

An expert talk on the "Development of Quantum Mechanic" was organised for students of 1st semester on 11th January 2023. Dr. Prasanna Kumar Mishra, Former Professor of Physics, Gangadhar Meher University (Erstwhile Gangadhar Meher College), Sambalpur addressed the students on the journey of quantum mechanics from 1900 to 1927 and emphasised its relevance today.

## 7. Expert Talk on Archaeological Survey

An expert talk on the role of archaeological survey in reaching unexplored terrains and facts was delivered by Mr. Jitu Mishra, renowned archaeologist from Odisha on 11th January 2023, Students, faculty members and staff participated in this talk where Mr. Mishra shared fascinating details and anecdotes from his experience of archaeological surveys in the last three decades. More than 200 students attended the talk.



## 8. Alumni Talk

An Alumni Talk by Ms. Ankita Meher (Batch 2011-15) was organised on 13 May 2023. Presently Ankita is working as a Data Engineering Consultant at Accenture, London, UK. With more than seven years of experience in the IT industry Ankita shared her insights and learnings with the current students of the Institute. She also reflected upon her four years of life as a student at Silicon Sambalpur, and emphasized the role of effective communication and perseverance in one's career path. At the interactive session towards the end, she responded to the questions of the participants in the hall. Prof. Mihir Hota, Dean welcomed Ankita and the audience to the talk, and Dr. Tyagraj Thakur, Faculty in Charge, Industry Interface Cell convened, coordinated and compered the programme. Students of all batches and branches participated in the programme.



## 9. An Expert Talk on 'Blockchain'

An Expert Talk (hybrid mode) on 'Blockchain' by Dr. Bhabendu Kumar Mohanta, Associate Professor, CSE-KLU,AP, Senior IEEE Member and listed in the World Top 2% Scientists by Stanford University (2022 Release) was organised by the Department of CSE on 3<sup>rd</sup> June 2023.

## INDUSTRIAL VISITS

### 1. Industrial Visit to Hirakud Hydro-Electricity Project

An Industrial Visit to the Hirakud Hydro-Electricity Project, Burla of the Odisha Hydro Power Corporation Ltd. was organised for the students of 7th Semester on 10 December 2022.

A total of 22 students from the branches namely, Civil Engineering, Electrical



Engineering, Electronics & Communication Engineering and Mechanical Engineering accompanied by Mr.Biresh Kumar Dakua, Assistant Professor (Department of Electrical Engineering), Ms.Ankita Panda Assistant Professor (Department of Basic Sciences & Humanities) and Mr.Uday Kumar Pandey, Technical Assistant (Department of Electrical



Engineering) visited the project. The students concerned were guided through the mechanism of power generation by HHEP officials. They were also introduced to the Artificial Intelligence enabled systems that monitor and manage the turbines,

gates, water level data etc.

### 2. Industrial Visit to Odisha Power Generation Corporation (OPGC)

An Industrial Visit to the Odisha Power Generation Corporation, Banharpali, Jharsuguda was organised for the students of 7th Semester on 17 December 2022. A total of 18 students from the branches namely, Civil



Engineering (CE), Electrical Engineering (EE), Electronics & Communication Engineering (ECE) and Mechanical Engineering (ME) accompanied by Mr.Nabin Kumar Naik, Senior Assistant Professor (ECE), Ms.Sagarika Pradhan, Assistant Professor (ME), Mr.Biresh Kumar Dakua,



Assistant Professor (EE) and Mr.Satya Narayan Das, Technical Assistant (EE) visited the industry.

## PARTICIPATION OF STUDENTS IN HACKATHONS

### 1. Smart India Hackathon 2022

Four teams from Silicon Sambalpur participated in the Smart India Hackathon organised by the Innovation Cell, Ministry of Education, Government of India. Two of these participating teams qualified to participate in the finale. Team Coders4Coders participated in the finale at IIT-BHU and Team Comp-Crew participated in the finale at GIET University on 25<sup>th</sup> and 26<sup>th</sup> August 2022.

#### Team - Coders4Coders

Abhishek Kumar Rabidas, Siddharth Priyadarshi, Siddheswar Ojha, Chowdhary Swayansu Satyaprajna, Geetanjali Dash, Pankaj Kumar

#### Team - Comp-Crew

Malay Kumar Purohit, Aniket Shukla, Shubham Kumar, Sanskruti Maharana, Shoib Ansari, Gourish Bhagat



### 2. SheHacks'22

Ms. Sanskruti Maharana 4<sup>th</sup> Semester, CSE participated in She Hacks'22 organised by IIIT Allahbad on 25<sup>th</sup> July 2022.



## NEWS & EVENTS

### 1. Real Raksha Bandhan for Real Freedom

Dr. Mihir Hota, Dean was an Invited Guest to grace the occasion titled “Real Raksha Bandhan for Real Freedom” organised under the auspice of ‘Azadi Ka Amrit Mahotsav’ by the Brahma Kumaris, Sambalpur at Pawan Sarovar, Sambalpur on 7<sup>th</sup> August 2022. Prof. Brajamohan Mishra, Former Dean & Principal, VIMSAR, Burla and Mr. Anand Singh, ADRM, East Coast Railways, Sambalpur were the other invited guests. Rajyogini B K Parbati from Brahma Kumaris, Sambalpur reflected on the aforementioned topic of the programme where 5 members of faculty & staff and 47 students from Silicon Sambalpur participated.

### 2. 76<sup>th</sup> Independence Day

The **76<sup>th</sup> Independence Day** was celebrated on 15<sup>th</sup> August 2022 in the institute premises. Prof. Mihir Hota, Dean Academics hoisted the national flag and reflected upon the significance of the completion of 75 years of Independence. Students’ cultural performances (Songs, Dance, Skit) enriched the occasion. Ms. Ankita Panda, Assistant Professor (BSH) coordinated the programme.



### 3. Divine Youth Festival

A total of 42 students 3 members of faculty and 4 members of non-teaching staff participated in the ‘**Divine Youth Festival**’ organised by Prajapita Brahma Kumaris Ishwariya Vishwa Vidyalaya, Sambalpur at Royal Retreat, Sambalpur on 11<sup>th</sup> September 2022. Mr. Suresh Pujari, Honourable Member of Parliament (Bargarh Constituency) and Prof. N. Nagaraju, Vice Chancellor, GM University, Sambalpur were the Chief Guest and Guest of Honour respectively. A special Motivational Talk was delivered by BK Parbati.

### 4. Induction of Batch 2022-26 and LE Batch 2022-25

The Induction Programme for the Batch 2022-26 and LE Batch 2022-25 was conducted from 1<sup>st</sup> to 9<sup>th</sup> November 2022. The Day-1 started with a briefing session and a document verification session by Dr. Ashutosh Rath and Mr. Soumya Ranjan Dash, followed by a campus visit of the newcomers.

On Day-2 the students were taken to a heritage tour to Hirakud with a view to orienting them one of the mega structures of India. The Day-3 started with a Yoga Session by the

Brahmakumaris followed by a session on “English: The Lingua Franca” by Dr. Tyagraj Thakur. It was followed by a session on “Robotics Technology: Redefining the Future” by Ms. Sararika Pradhan and the members of Robotics Club.

The Day-4 began with an Expert Talk by Dr. Prakash Chandra Swain, Professor of Civil Engineering, VSSUT, Burla where he reflected upon a value based life and career. It was followed by an Alumni Talk by Ms. S. K. Rajeshwari (ME, Batch 2012-16) who connected virtually from London and oriented the newcomers to the diverse career paths they have to carve out their future trajectories. She also reflected on her experiences at SiliconSambalpur as an undergraduate student, Wipro as an IT professional and the University of Liverpool, UK as a postgraduate student. It was followed by a session on “Financial Awareness” by Ms. Ankita Panda.

The Day-5 began with an Expert Talk titled “Technolution” by Dr. Prasanna Kumar Mishra, Former Professor of Physics, GM University, Sambalpur where Prof. Mishra shared his insights on the evolution of technology over the years. It was followed by a workshop by CodigoPlataforma, the coding club of the institute where Dr. Sohan Kumar Pande and the team of students oriented the students to the new areas of programming that the club engages with. It was followed by an outing session where students were introduced to the important places of Sambalpur which would be of use during their stay at Silicon.

From Day-6 to Day-9 students were offered bridge courses in Physics, Chemistry, Mathematics, Programming in C, English, BME, BCE, BEE and BE. Meanwhile, they also had another Alumni Talk by Mr. Rishikesh Kumar Suman (EE, Batch 2012-16) connected virtually from Jamshedpur where he addressed the students on how to bring a holistic approach to career and life. A debate competition and a quiz competition were also held during this period.

## **5. Orientation Programme**

The 14<sup>th</sup> Orientation Programme was held on 10<sup>th</sup> November 2022. Prof. Mihir Hota delivered the Welcomed Address and reflected on the need of discipline and diligence in the next four years of the students’ stay on campus. Mr. Manoj Kumar Mahapatra reflected on the academic rules and regulations and Mr. Nabin Kumar Naik addressed the students on the rules and regulation of Silicon Residence. Mr. Satyabrata Sahoo took the students on a virtual tour to the ERP system. Dr. Tyagraj Thakur reflected upon the process and requirements of Training and Placement. He also introduced the Faculty Advisory system and its role in students’ life on campus. Mr. Chowdhury Swayansu Satyaprajna (7<sup>th</sup> Semester, CSE) welcomed the newcomers on behalf of the students and shared his views on the way to a successful and rewarding life and career. Mr. Ashish Singh Saluja introduced the HoDs, FICs, SPOCs and Officials to the students. It was followed by an open house interactive session where the queries were addressed. Ms. Ankita Panda compered the programme and proposed the vote of thanks. Ms. Sagarika Pradhan coordinated the Interaction Session with Faculty Advisors after the lunch.

## **6. Welcome Ceremony**

The welcome ceremony by batch 2021-25 was organised on 12<sup>th</sup> November 2022 under the supervision of Mr. Ashish Singh Saluja, FIC, Students’ Council. After a round of introductory session and fun events the Mr. Fresher and Ms. Fresher from the Batch 2022-26 were selected

by the members of jury comprising Dr. ChinmayeePadhy, Ms. Ankita Panda and Mr. Biresh Kumar Dakua.

## 7. Orientation by CodigoPlataforma

The “Codigo Plataforma” organized an orientation program for the first year – regular and 2nd year - lateral entry students on 17<sup>th</sup> December 2022. In the orientation program, various ongoing projects of the coding club were demonstrated and explained, and one quiz competition was also conducted by the Club Coordinators of 3<sup>rd</sup> & 4<sup>th</sup> years.



## 8. Blood Donation Camp

The Students' Council in collaboration with Ama Odisha (The Sambad Group) organised a Blood Donation camp at the institute campus on 24<sup>th</sup> December 2022. Mr. Dev Kumar Tiwari, Director, ShyamMetallics and Energy and Mr. Gopal Sharma, AGM, ShyamMetallics and Energy, Sambalpur were the Chief Guest and Guest of Honour of this occasion. Medical and paramedical staff from Blood Bank, DHH, Sambalpur carried out the process and a total of 50 units of blood were collected.



## 9. Interactive Session on SIH

An interactive session with the finalists of Smart India Hackathon – 2022 was organised by the Department of Computer Science and Engineering on 7<sup>th</sup> January 2023. All the finalists shared their experiences and addressed the queries of students.



## 10. Orientation by Robotics Club

The Silicon Robotics club organised an orientation programme for the 1<sup>st</sup> year and 2<sup>nd</sup> year Lateral entry students on 13<sup>th</sup> January 2023. The Programme was inaugurated by the Dean and the coordinators of Robotics club demonstrated some robotics projects and delivered a presentation on various events organised by the club inside the institute. All the faculties, staff and 68 students participated in the programme. 56 interested new-students enrolled in the Robotics Club in this session.



### 11. Model United Nations 2023

The Literary Club organised the Model United Nations 2023 on 14th January 2023 where students as delegates of 26 different nations reflected and debated on the following issues of geopolitical and relevance.

1 - World Peace: Potential threats and measures to ensure peace in the world

2 - Economic policies for healthy international trade

3 - Combating health crises with special emphasis on COVID19

4 - Scientific advancements with special focus on Space, Nuclear, Energy and IT

Dr. Uma Charan Pati, Deputy Registrar and HoD, Economics, Gangadhar Meher University, Sambalpur was the Chief Guest and Invited Member of Jury for this event. The programme unfolded in three rounds namely, Briefing the House, Open House and Jury's Shoot. Out of the 77 applicants 26 students were shortlisted through 6 rounds of Group Discussion sessions to participate in this event. Prof. Mihir Hota, Dean welcomed the delegates and shared a few words of encouragement in the inaugural session and Dr. Uma Charan Pati expressed his appreciation for the well thought-out plan, execution and students' enthusiasm. After the day's deliberations, debates and reflections Mr. Siddheswar Ojha from 7th Semester CSE was adjudged the Best Delegate of MUN2023. Mr. Chowdhary Swayansu Satyaprajna (7th Semester, CSE) and Mr. Gourish Bhagat (7th Semester, ECE) conducted the affairs of the house in the capacity of Chairperson and Secretary General of MUN2023 respectively. The in-house members of the jury were Ms. Sagarika Pradhan, Mr. Satyabrata Sahoo, Dr. Sohan Kumar Pande and Dr. Tyagraj Thakur.



### 12. 12th Annual Athletic Meet

The 12th Annual Athletic Meet was organised on 21st January 2023 where a wide panoply of events namely 100 metre race, 200 metre race, 400 metre race, 800 metre race, Relay race, Shot-Put, Discus Throw, Long Jump, High Jump etc. were included. Ms. Simran Swain from 7th Semester CSE and Mr. Adarsh Kumar from 1st Semester CSE were adjudged Champions for both the Women's and Men's categories respectively.



### 13. 74th Republic Day

The 74th Republic Day was celebrated with great enthusiasm and zeal at silicon west on 26th January 2023. The day began with the unfurling of the national flag by the Prof. Mihir Hota (Dean). This was followed by the singing of the National Anthem. The Dean addressed the gathering and spoke about the importance of the day. He also exhorted the students to be responsible citizens and to always remember the sacrifices made by our freedom fighters. The celebrations concluded with the distribution of sweets among the students and a group photo session. The entire event was enjoyed by



all the students, staff, and faculty members present on the occasion.

#### 14. Food Fest

The students' council of the institute organised the 3rd annual food fest – Zaika-ae-Tadka on 2nd February 2023. The event was organized on the cricket ground where the participants were given One Hour to prepare their dish and Ten Minutes to garnish. The coordinators were there to help the participants. All the participants made delicious delicacies representing a wide panoply of cuisines. Mr. NaquibZilani Khan, Mr. Sailesh Mishra, Mr. AnuragBhuyan from the first year were adjudged the winners. Similarly, Mr. PranjaliGiri, MrAlok Raj, and Mr. Abhishek Kumar were adjudged the first runner-up team and Mr. Chowdhury SwayansuSatyaprajna, Mr. Ashis Dash and Mr. Vishal Kumar were adjudged the second runner-up team.



#### 15. Code Fest

The coding club “Codigo Plataforma” organized the ‘Code Fest’ – a competitive coding competition, for all the years in two divisions as Junior Category (1st& 2nd Years) and Senior Category (3rd& 4th Years) on 11<sup>th</sup> February 2023. A total of 65 students participated in this event. Six winners (3 from each category) were selected.



#### 16. Litterateur of the Fall 2023

Litterateur of the Fall 2023 was organised by the Literary Club on 15th February 2023. Prof. Mihir Hota (Dean Academic) inaugurated the programme and welcomed the participants and audience. The occasion was graced by Dr. P. Muralidhar Shama, Assistant Professor of English, Gangadhar Meher University, Sambalpur as the Chief Guest and External Member of the Jury. Other in-house members of the jury were Ms. Ankita Panda, Assistant Professor (Economics) and Dr. Tyagraj Thakur, Senior Assistant Professor (English). The students shortlisted from the first round titled Scripto Fabula - a Creative Writing session, participated in the Finale comprising the following three rounds.



Round 1 - Poetica Reflexionem

(Interpreting a given piece of poem)

Round 2 - Dramatic Soliloquy

(Performing on selected Soliloquies from different plays)

Round 3 - Oratio

(Oration on the topic - "India that is Bharat ...")

Mr. Somdev Behera, 3rd Semester CSE was adjudged the Winner of the title 'Litterateur of the Fall 2023'.

### 17. Quizanna 2023

Quizanna 2023 - an Interschool Quiz Competition organised by Silicon Institute of Technology, Sambalpur on 17th February 2023. Students of 15 Higher Secondary Schools in the vicinity of Sambalpur participated in the event. After the Prelim Test, 6 Teams entered the Finale. The results are as follows.

Winning Team: Gangadhar Meher Higher Secondary School, Sambalpur

1st Runner-Up Team: Vikash the Concept School, Sambalpur

2nd Runner-Up Team: Vikash Higher Secondary School, Sambalpur



Trophies, Cash Prizes and Certificates were presented to the Winning Team, and the Runner-Up Teams by Prof. Mihir Hota (Dean Academic). All the participants were presented Certificates of Participation.

The event was organised and coordinated by the members of Literary Club and the Students' Council. The Jury consisted of two members of faculty namely, Dr. Sohan Kumar Pande, Assistant Professor of Computer Science & Engineering and Ms. Sagarika Pradhan, Assistant Professor of Mechanical Engineering.

### 18. Annual Technical Festival 2023 and Cultural Festival 2023

The annual technical festival – Techstasy 2K23 and the annual cultural festival – Zreyas 2K23 of Silicon Institute of Technology, Sambalpur were organised by the Students' Council and the Cultural Committee of the institute on 17th and 18th March 2023. Prof. Mihir Hota, Dean Academic inaugurated the technical



festival on 17th March which was followed by more than 20 technical and fun events where students from all batches and branches participated with zest and zeal. Some of the notable events were Coding Competition, Technical Roadies, Technical Quiz, Spell-Bee, PPT Presentation, Treasure Hunt etc.

The Cultural evening was graced by Prof. Aditya Prasad Padhi, Former Vice Chancellor, Berhampur University as the Chief Guest and Prof. Pradeep Kumar Mishra, Former Professor of Civil Engineering, VSSUT, Burla and Former Director of Silicon Institute of Technology, Sambalpur as the Guest of Honour. Prof. Mihir Hota, Dean Academic of the institute welcomed the guests and audience to Zreyas 2023 and Prof. Aditya Prasad Padhi reflected on the importance of values like diligence, perseverance and sincerity in students' career and life. In his address Prof. Padhi quoted deliberated on the rich tradition of values as narrated in the Indian mythologies and urged students to inculcate such values in all endeavours of life and career. Prof. Pradeep Kumar Mishra mused on his wonderful association with the academic culture of Silicon Sambalpur in the capacity of the Director of the institute for close to a decade.



In his succinct and insightful deliberation Prof. Mishra shared his thoughts on the role of discipline in the curricular as well as co-curricular activities of students that can immensely add value to their holistic development and pursuits of life. Mr. Ashish Dash, Secretary General of the Students' Council read the Annual Report of the institute emphasising a wide panoply of activities and achievements in the last academic year.

The cultural evenings in both the days were filled with passionate and magnificent performances of students on a wide range of categories such as Song, Dance (Solo, Duet and Group), Skit with social relevance, Ramp Walk with Indian and Western outfits, Dance on the tune and beats of DJ etc. The winners and runners up of different competitions as well as student members of different clubs and committees were presented certificates of achievement and appreciation on stage. The two days of events, both Techstacy and Zreyas were coordinated by Mr. Ashish Singh Saluja, Faculty in Charge of the Students' Council and Mr. Biresh Kumar Dakua, Faculty in Charge of the Cultural Committee with the enthusiastic team of students from the students' council as well as anchors and student coordinators of different events led by Mr. Ashish Dash, (Secretary General), Mr. Gourish Bhagat (Secretary Academics) and Mr. Jatin Banjara (Secretary Amenities). At the end of the two days of zest and zeal, Mr. Jatin Banjara (Secretary Amenities) proposed the vote of thanks.

### **19. Celebration of World Environment Day**

Silicon Institute of Technology, Sambalpur in collaboration with L&T Sambalpur-Rourkela Toll Way Limited organized a Painting Competition on 'Ecosystem Restoration' in the institute on the occasion of World Environment Day on 5th June 2023. A total of 29 students participated in the competition and the top three winners were awarded. The event was conducted with the support of Prof. (Dr.) Mihir Hota (Dean, Academic, SIT West) and Mr. Manoj Kumar Pattnaik (Representative, L&T).



The list of winners is as follows:

First Prize - Mr. Shubham Barik, 3rd Year CSE

Second Prize - Mr. Bhupinder Singh, 2nd Year CSE

Third Prize - Mr. Aditya Sharma, 3rd Year CSE

### **20. Farewell Function for batch 2019-2023**

The Farewell Function for the 2023 graduating batch was held on 9th June 2023. On this occasion, the 'Best Student of the Year Award 2023' was conferred on Mr. Gourish Bhagat (ECE).





## 21. Faculty Members' Visit to Government Polytechnics

Teams of faculty members visited a number of government polytechnics as well as private and government institutes with a view to improving inter institute connectivity. In this endeavor the following were proposed to the Principals of different institutions.

- Expert talks by faculty members of Silicon Sambalpur on a wide range of topics in the disciplines of engineering and technology.
- Hands-on training to students of polytechnics on a wide range of subjects at Silicon Sambalpur campus.
- Career counselling programmes for students.
- Opportunity to the final year students of polytechnics for admission into B.Tech Programme in different branches of engineering through Lateral Entry.

One of the important requests received from Government Polytechnic, Boudh is if Silicon Sambalpur can offer a one-month summer internship to its students. However, this request is under consideration.

The institutes visited in this context since April 2023 are as follows.

- Government Polytechnic, Bargarh
- Government Polytechnic, Sonapur
- Government Polytechnic, Boudh
- Government Polytechnic, Deogarh
- Government Polytechnic, Angul
- Government Polytechnic, Rengali, Sambalpur
- Narayani Institute of Technology, Angul
- Badriprasad Institute of Technology, Sambalpur
- Government College, Angul

## ACTIVITIES BY CAMPUS COORDINATION COMMITTEE

### 1. Movie Show

The Campus Coordination Committee (CCC) organized a movie show for all boarders on 20.01.23 in the seminar Hall from 4.30 pm to 7pm. A total of 100 boarders were present during the screening of the movie **Mission Majnu**. The Movie was screened in the presence of FIC, CCC.



### 2. Heritage Tour to Ramchandi Temple

The CCC organised a heritage tour for 4<sup>th</sup> yr boarders to Ramchandi Temple, Brajarajnagar, Jharsuguda on



22.01.2023. Around 38 students travelled to the heritage site.

### 3. Heritage Tour to Ghanteswari Temple

The CCC organised a heritage tour for 2nd yr boarders to Ghanteswari Temple, Chipilima, on 05.02.2023. Around 31 students travelled to this heritage site.



### 4. Heritage Tour to Huma Temple

The CCC organised a heritage tour for 3rd yr. boarders to Huma Temple, Huma on 19.02.2023. Around 20 students travelled to the heritage site.



### 5. Art Competition

The Campus Coordination Committee (CCC) organised an Art Competition for all the boarders on 13.02.23 in the Engineering Drawing Lab from 3.30PM to 4. 30PM.



16 students participated in this event. Mr. Bhupinder Singh (2<sup>th</sup> yr CSE), Mr. Shubham Barik (3<sup>rd</sup> Yr. CSE), & Ms. Yogajanma Aparajita (2<sup>nd</sup> yr. CSE) were declared winners of First, Second and Third prizes respectively. The event was



conducted in the presence of FIC, CCC.

### 6. Rangoli Competition

The Campus Coordination Committee (CCC) organized a Rangoli competition for all the boarders on 17.02.23 at the institute lobby from 3.30PM to 4.30PM. A total of 12 students participated in this event. Ms. **Lopita Sahu (2<sup>th</sup> yr CSE)**, Ms. **Rojalin Biswal (3<sup>rd</sup> Yr. CSE)** & Ms. **Shubhashree Behera (3<sup>rd</sup> yr. CSE)** were declared winners of First, Second and Third prizes respectively.

