

Annual Report
July 2021 – June 2022

Silicon Institute of Technology, Sambalpur
Silicon West, Sason
768200

Message from the Chairman

Greetings from Silicon Institute of Technology, Sambalpur.

At Silicon our struggle for improvement in technical education is an honest endeavor, now its greater challenge for TEAMSILICON to accept the fact and work beyond their limitations.

The placement scenario has improved with 87% students placed in the last academic year. Students participated in more than 35 campus drives and the highest package in 2021-22 was 7.5 LPA. A similar trend, in fact a better trend is seen this year and the highest package for the current year has been 8 LPA so far.

Now faculty and students have access to Knimbus , NPTEL for greater research and learning and more than 15 articles have been published in SCI/SCOPUS indexed journals.

I must congratulate all staff members on their dedication and commitment to Silicon West and looking forward to next phase of development.

Together we can achieve.



Nitai Gaur Dhall

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. Saroj Kanta Mishra (Secretary) |
| 5. Prof. Prashant Kumar Mishra (Trustee) | |

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 Details – Year 2021-22

<i>Sl. No.</i>	<i>Course Name</i>	<i>Intake A.Y. 2021-22</i>
1	Mechanical Engineering	60
2	Civil Engineering	60
3	Electrical Engineering	60
4	Electronics & Communication Engineering	30
5	Computer Science & Engineering	60

Admission 2021 Regular (Rank details)

Name of the Programme	Intake		JEE M (AIR) Students		OJEE Rank Students	
	Sanctioned	Admitted	Minimum	Maximum	Minimum	Maximum
Mechanical Engineering	60	05	595638	778680	1104047	1104047
Electronics & Communication Engineering	30	00	-	-	-	-
Electrical Engineering	60	01	587009	587009		
Computer Science & Engineering	60	37	218054	841340	1100810	1106308
Civil Engineering	60	03	337947	674492	-	-
Total	270	46	218054	841340	1100810	1106308

Admission 2021 Lateral(Rank details)

Name of the Programme	Admitted	OJEE Rank Admitted	
		Minimum	Maximum
Mechanical Engineering	03	4816	10682
Electronics & Communication Engineering	-	-	-
Electrical Engineering	-	-	-
Computer Science & Engineering	06	2815	10614

Civil Engineering	07	253	12494
Total	16	253	12494

Admission 2021-22 Gender Ratio

Branch	Female	Male	Total
Mechanical Engineering	00	05	05
Electronics & Communication Engineering	-	-	00
Electrical Engineering	00	01	01
Computer Science & Engineering	08	29	37
Civil Engineering	01	02	03
			46

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 5th to 7th 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.

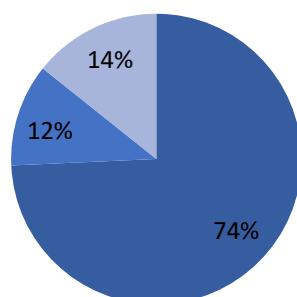
Teacher Quality

- 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

Final Result of Batch 2018-2022

■ Pass ■ 1 Back ■ 2 or more Backs



Branch	Cleared	Back	Total	In %
CE	0	2	2	0%
CS	17	4	21	81%
EE	0	1	1	0%
ECE	6	0	6	100%
ME	3	2	5	60%
Total	26	9	35	74%

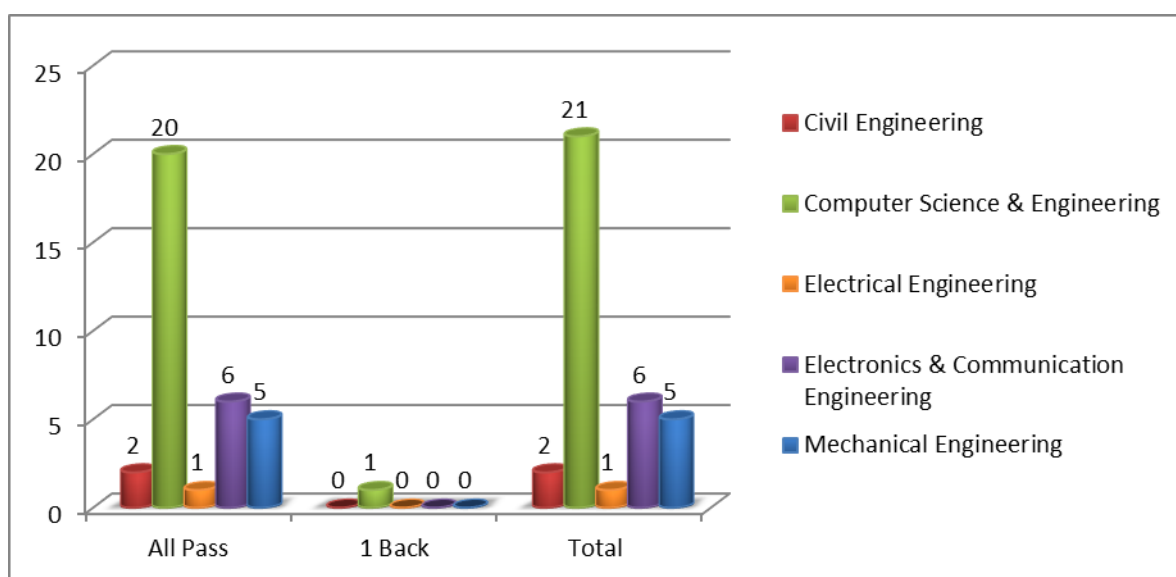
CGPA Analysis

Branch	>9.0	8.0-9.0	6.0-8.0	Total
CE	0	1	1	2
CS	7	11	3	21
EE	0	0	1	1
ECE	1	4	1	6
ME	2	2	1	5
Total	10	18	7	35
In %				
Branch	>9.0	8.0-9.0	6.0-8.0	Total
CE	0.00%	50.00%	50.00%	100%
CS	33.33%	52.38%	14.29%	100%
EE	0.00%	0.00%	100.00%	100%
ECE	16.67%	66.67%	16.67%	100%
ME	40.00%	40.00%	20.00%	100%

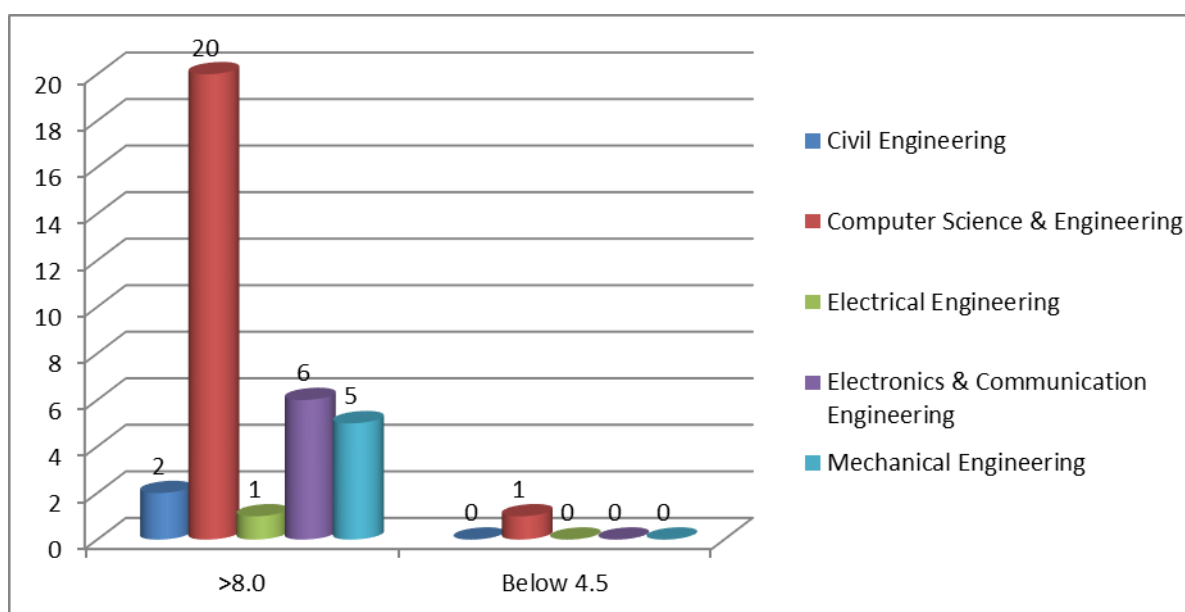
Even Semester Result of Batch 2018-22 (8th Semester)

Branch	Appeared	Passed	Failed	% Success
Civil Engineering	2	2	0	100%
Computer Science & Engineering	21	20	1	95%
Electrical Engineering	1	1	0	100%
Electronics & Communication Engineering	6	6	0	100%
Mechanical Engineering	5	5	0	100%
Total	35	34	1	97%

Backlog Details



SGPA Analysis

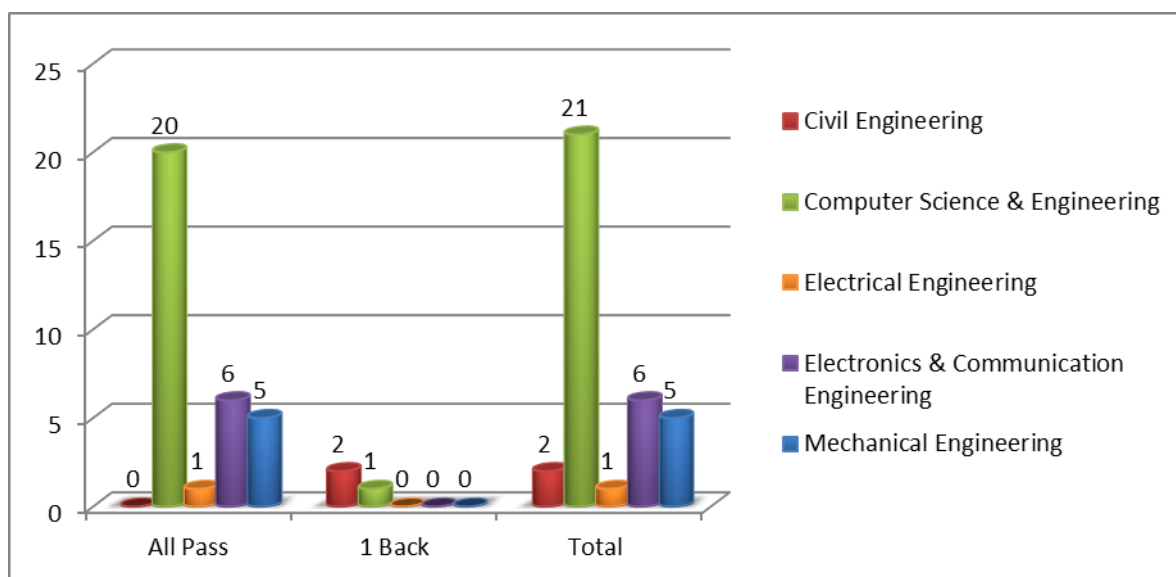


Even Semester result of Batch 2019-23 (6th Semester) is awaited. The Even semester exams of Batch 2020-24 (4th Semester) and Batch 2021-25 (2nd Semester) are not yet scheduled.

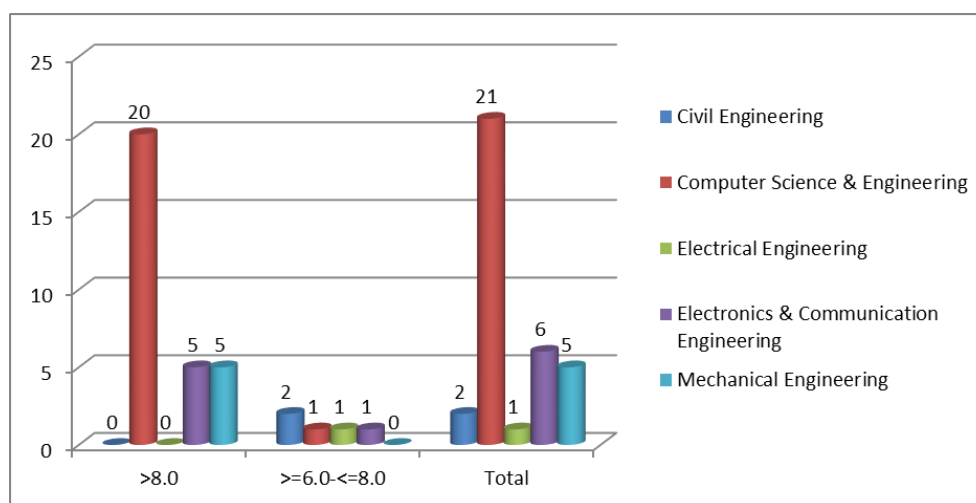
Odd Semester Result of Batch 2018-22 (7th Semester)

Branch	<i>Appeared</i>	<i>Passed</i>	<i>Failed</i>	<i>% Success</i>
Civil Engineering	2	0	2	0%
Computer Science & Engineering	21	20	1	95%
Electrical Engineering	1	1	0	100%
Electronics & Communication Engineering	6	6	0	100%
Mechanical Engineering	5	5	0	100%
Total	35	32	3	91%

Backlog Details

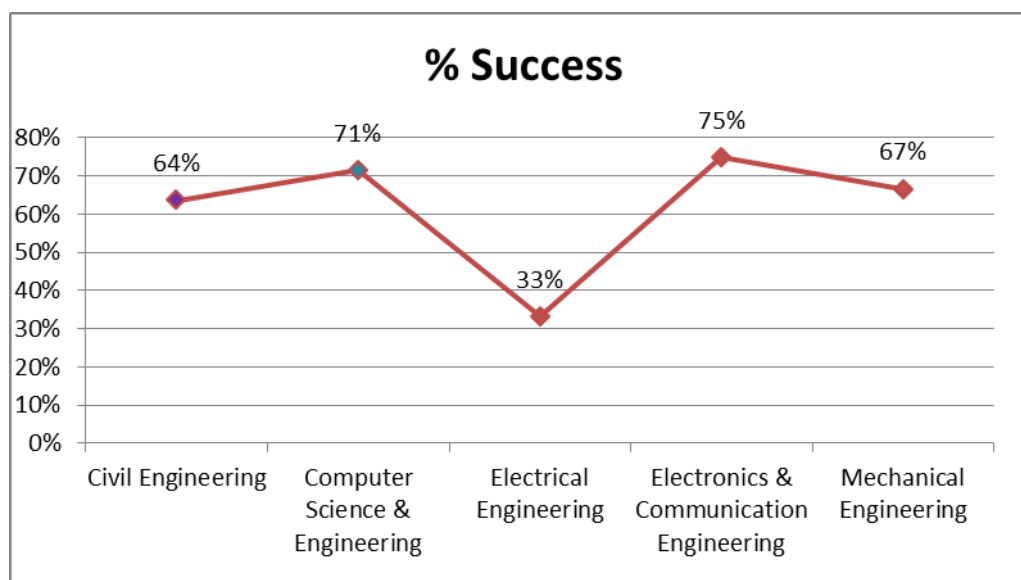
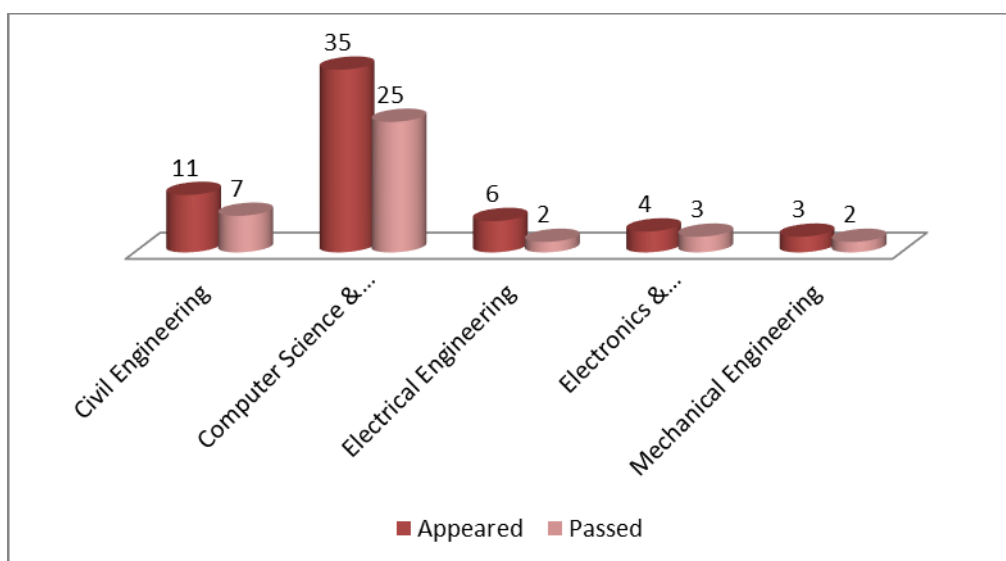


SGPA Analysis

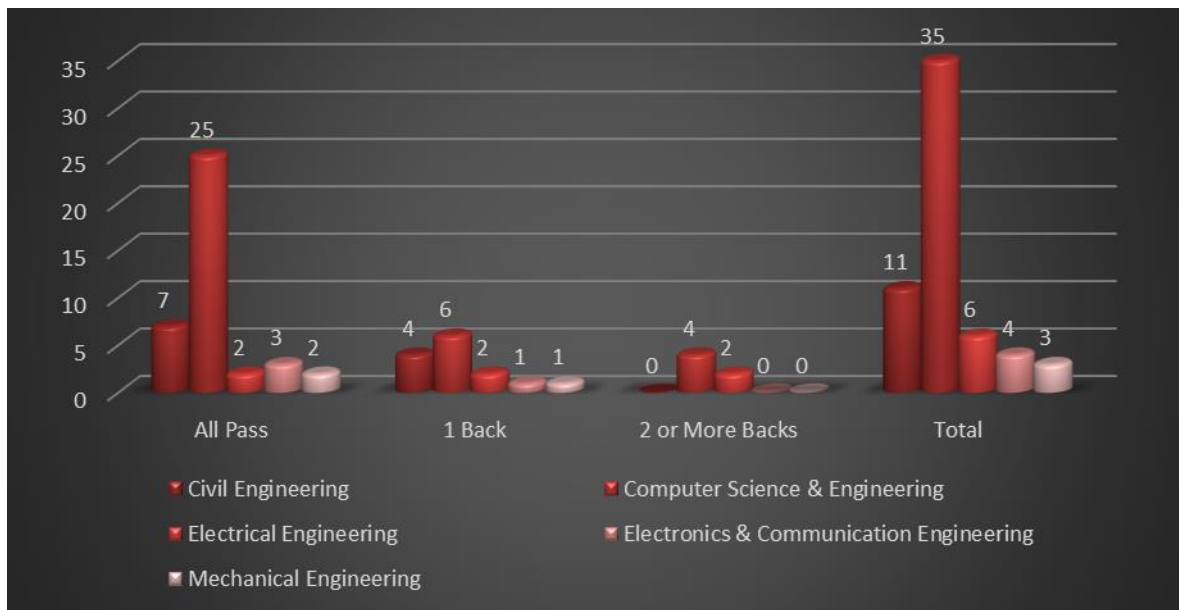


Odd Semester Result of Batch 2019-23 (5th Semester)

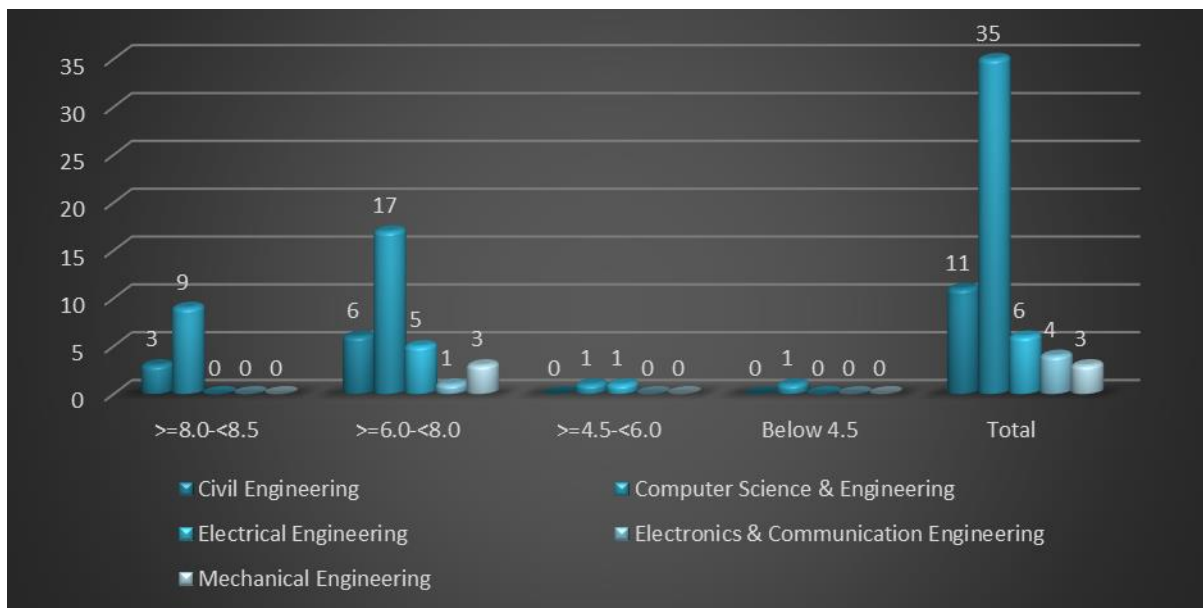
Branch	Appeared	Passed	Failed	% Success
Civil Engineering	11	7	4	64%
Computer Science & Engineering	35	25	10	71%
Electrical Engineering	6	2	4	33%
Electronics & Communication Engineering	4	3	1	75%
Mechanical Engineering	3	2	1	67%
Total	59	39	20	66%



Backlog Details



SGPA Analysis



Results of Batch 2020-24 (3rd Semester) and Batch 2021-25 (1st Semester) are awaited.

Placement Details

PLACEMENT AT A GLANCE (2022 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	2	1	0	0.00	0.00	0	0	0.00	0.00
CSE	21	18	49	233.33	272.22	12	17	94.44	80.95
ECE	6	6	6	100.00	100.00	1	4	66.67	66.67
EE	1	1	1	100.00	100.00	0	1	100.00	100.00
ME	5	5	8	160.00	160.00	2	5	100.00	100.00
Total	35	31	64	182.86	206.45	15	27	87.10	77.14

Company wise offers for 2022 graduates		
Company	Offers	LPA
Intellipaat	1	5
DXC	6	4
Legato	2	4
Capgemini - Senior Analyst	3	7.5
Capgemini - Analyst	4	4
Accenture - Advanced ASE	4	6.5
Accenture - ASE	5	4.5
TCS Ninja	3	3.5
Hexaware	2	4
Wipro	4	3.5
Infosys	5	3.6
Tech Mahindra	1	3.25
Latentview	1	6.5
IBM	1	4.25
Quest Global	2	3.25
Nirmalya Labs	1	3.25
LTTS	12	4
Kellton Tech	1	4
CCTech	1	5
Xoriant	1	5.5
Qspiders	3	
Pratian Technologies	1	4.5
Total	64	

Highest Package – 7.5 LPA

Name of company - Capgemini

Number of students selected with highest package – 3

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 April-October 2022 by acquiring 05Titles and 09volumes. 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	All students, members of faculty and staff have been given the access to Nature, IEEE, ScienceDirect, ProQuest and Springer through Knimbus.			

Keeping in view the heat-waves during summer the reading room of the library has been air-conditioned.

Award of Doctor of Philosophy to Faculty Members

Sl. No.	Name/Designation/Dept.	Status	Awarding University
1	Dr. Buddhadeva Sahoo Assistant Professor Electrical Engineering	Awarded	SOA University, BBSR
2	Dr. Sudeep Kumar Patel Senior Assistant Professor Civil Engineering	Awarded	VSSUT, Burla

Doctoral Scholar of Dr. Mihir Hota submitted PhD Thesis to BPUT, Rourkela

Ms Sonali Prabha Dash, Doctoral scholar of Dr. Mihir Hota bearing Registration number 18DS001174, Discipline: Electronics and Communication Engineering submitted her thesis titled "Implementation of Optical LogicGate/Sensing elements using Fiber Bragg Gratings and Photonic Crystals" to the Faculty of Engineering, BPUT, Rourkela on 7th May 2022.

PUBLICATIONS BY FACULTY MEMBERS

Journals

Total Number of Journal Publications	Indexed by SCI/ESCI	Indexed by Scopus
15	10	5

Mr. Satyabrata Sahoo

- (i) Satyabrata 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)
- (ii) Satyabrata Sahoo, Satya Prakash Sahoo, Manas Ranjan Kabat. "A Hybrid Genetic Algorithm for Resource Optimization in 5G enabled IoVs". Springer, Journal of Supercomputing, Vol. x, No. x, 2022. (Communicated and under Review)

Dr. Sohan Kumar Panda

- (i) Panda, Sohan Kumar, Priyanka Swain, Sanjib Kumar Nayak, and Sanjaya Kumar Panda. "An Indicator-Based Algorithm for Task Scheduling in Multi-Cloud Environments." International Journal of Cloud Applications and Computing (IJCAC) 12, no. 1 (2022): 1-19. SCOPUS indexed
- (ii) Nayak, Sanjib Kumar, Sanjaya Kumar Panda, Satyabrata Das, and Sohan Kumar Panda. "A multi-objective renewable energy-based algorithm for geographically distributed datacentres." International Journal of Embedded Systems 15, no. 2 (2022): 119-131. SCOPUS indexed

Mr. Biresh Kumar Dakua

- (i) Biresh Kumar Dakua, Buddhadeva Sahoo, and Bibhuti Bhusan Pati: Design of PI λ D μ Controller for a Fractional-Order Automatic Voltage Regulator System, IFAC-Papers-

Dr. Buddhadeva Sahoo

- (i) Sahoo, Buddhadeva, Sangram Keshari Routray, and Pravat Kumar Rout. "Complex dual-tree wavelet transform and unified power management based control architecture for hybrid wind power system." *Sustainable Energy Technologies and Assessments* 47 (2021): 101560. (SCI/SCOPUS, Impact Factor-5.7)
- (ii) Sahoo, Buddhadeva, Sangram Keshari Routray, and Pravat Kumar Rout. "Execution of robust dynamic sliding mode control for smart photovoltaic application." *Sustainable Energy Technologies and Assessments* 45 (2021): 101150. (SCI/SCOPUS, Impact Factor-5.7)
- (iii) Sahoo, Buddhadeva, et al. "Mathematical Morphology-Based Artificial Technique for Renewable Power Application." *CMC-COMPUTERS MATERIALS & CONTINUA* 69.2 (2021): 1851-1875. (SCI/SCOPUS, Impact Factor-3.7)
- (iv) Sahoo, Buddhadeva, et al. "Neural Network and Fuzzy Control Based 11-Level Cascaded Inverter Operation." *CMC-COMPUTERS MATERIALS & CONTINUA* 70.2 (2022): 2319–2346. (SCI/SCOPUS, Impact Factor-3.7)
- (v) Sahoo, Buddhadeva, Sangram Keshari Routray, and Pravat Kumar Rout. "FUZZY Logic Based Hybrid Active Filter for Compensating Harmonic and Reactive power in Distributed generation" *International Journal of Power Electronics* 14.4 (2021): 405-432. (SCOPUS)
- (vi) Sahoo, Buddhadeva, et al. "Power quality and stability assessment of hybrid microgrid and electric vehicle through a novel transformation technique." *Sustainable Energy Technologies and Assessments* 51 (2022): 101927. (Elsevier) SCI/SCOPUS-IF: 5.7.
- (vii) Sahoo, Buddhadeva, et al. "Controller for a Fractional-Order Automatic Voltage Regulator System" *Advances in Control & Optimization of Dynamical Systems (ACODS 2022)*. Elsevier-IFAC (SCOPUS), Organized by IIT Guwahati and NIT Silchar.
- (viii) Sahoo, Buddhadeva, Sangram Keshari Routray, and Pravat Kumar Rout "Modified Sliding Mode Control for Universal Active Filter based Solar Microgrid System" *International Journal of Automation and Control* International Journal of Automation and Control, Inderscience 2022, (ESCI/ Scopus)
- (ix) Sahoo, Buddhadeva, Mohammed M. Alhaider, and Pravat Kumar Rout. "Effective Harmonic Cancellation Technique for a Three-Phase Four-Wire System." *Energies* 15.20 (2022): 7526. (SCI/SCOPUS-IF:3.25).
- (x) Sahoo, Buddhadeva, et al. "Power quality and stability assessment of hybrid microgrid and electric vehicle through a novel transformation technique." *Sustainable Energy*

Technologies and Assessments 51 (2022): 101927. (Elsevier) (SCI/SCOPUS-IF:5.7).

Dr. Mihir Hota

- (i) Sonali Prava Dash, Mihir Hota, Sukanta Kumar Triapthy, "Fingertip Touch-based Noninvasive Glucose Sensor using Visible Laser in a SiO₂-Au-SiO₂ Coated Prism Design and Implementation using Matrix Method," Lasers in Engineering, Vol. 2, pp. 1–14 (2021)(SCI Journal)

Dr. Tyagraj Thakur

- (i) Thakur, Tyagraj. "New Perspectives on Translation: Translating Odisha by Paul St-Pierre". Rupkatha Journal on Interdisciplinary Studies in Humanities. Vol.-13, No.-04, E-ISSN 0975-2935 indexed by Web of Science, Scopus, ERIHPLUS, EBSCO, UGC. DOI: <https://doi.org/10.21659/rupkatha.v13n4.22>

Book Chapters

Dr. Sudeep Kumar Patel

- (i) Nain, Z., Nayak, B. P., & Patel, S. K. (2022). Effect of Mechanical and Chemical Activation of Fly Ash on the Properties of Fly Ash Bricks. In Recent Developments in Sustainable Infrastructure (ICRDSI-2020)—Structure and Construction Management (pp. 139-148). Springer, Singapore.

Dr. Buddhadeva Sahoo

- (ii) Sahoo, Buddhadeva, et al. "Advanced adaptive filter based control strategy for active switch inverter operation" 2nd International Conference on 'Innovation in Electrical Power Engineering, Communication & Computing Technology (IEPCCT) (2021). 24-25 sep 2021
- (iii) Sheetal Chandak, Buddhadeva Sahoo et al. "A brief analysis of Microgrid Control" Innovation in Electrical Power Engineering, Communication & Computing Technology (IEPCCT) (2021). 24-25 sep 2021

Papers reviewed by faculty members for journals & conferences

1. Dr. Tyagraj Thakur

- (i) Reviewed a manuscript for *The Explicator* by Routledge (Taylor & Francis Group)

2. Dr. Buddhadeva Sahoo

- (i) Reviewer for Renewable Energy- Elsevier
- (ii) Reviewer for Sustainable Energy and Technology Assessment- Elsevier
- (iii) Reviewer for IET Energy system Integration- IET
- (iv) Reviewer for Energies- MDPI

- (v) Reviewer for Electric power component system- Taylor Francis
- (vi) Reviewer for Innovation in Electrical Power Engineering, Communication & Computing Technology (IEPCCT)- Springer
- (vii) Reviewer for world Energy Journal.

3. Biresh Kumar Dakua

- (i) Reviewed a Journal manuscript TIMC-22-0334 entitled "An Adaptive Control Framework for a Class of Nonlinear Time-Delay Systems" for Transactions of the Institute of Measurement and Control on 2nd May 2022.
- (ii) Reviewed a conference paper for ICICCSP 2022: International Conference on Intelligent Controller and Computing for Smart Power organized by Sreenidhi Institute of Science and Technology, 4 Hyderabad, India 21-23 July 2021. Paper Title: Signal Processing Technique Based Transmission Line Protection with and Without Penetration of Wind Energy.

PAPERS PRESENTED IN CONFERENCES/SEMINARS

1. Mr. Sudeep Kumar Patel, Senior Assistant Professor, Civil Engineering

- (i) Patel, S., Mohanty, C. R., & Nayak, A. (2021). Application of Fly Ash Cenosphere in Cement Composites: A Comprehensive Review. PREPARE@u@ | IEI Conferences.
https://doi.org/10.36375/prepare_u.iei.a107

2. Dr. Buddhadeva Sahoo, Assistant Professor, Electrical Engineering

- (i) Advances in Power, Signal and Information Technology (APSIT) IEEE (2021). Oct-8-2021
- (ii) Innovation in Electrical Power Engineering, Communication & Computing Technology (IEPCCT) (2021). 24-25 Sep 2021
- (iii) Sahoo, Buddhadeva, et al. "Controller for a Fractional-Order Automatic Voltage Regulator System" Advances in Control & Optimization of Dynamical Systems (ACODS 2022). Elsevier-IFAC (SCOPUS), Organised by IIT Guwahati and NIT Silchar.
- (iv) Sahoo, Buddhadeva, et al. "Advanced reactive power control technique for wind power application" 'Advances in Power, Signal and Information Technology (APSIT) (2021). Oct-8-2021. (SCOPUS).
- (v) Sahoo, Buddhadeva, et al. "Neutral clamped three-level inverter based fractional order filter design for power quality advancement" 'Advances in Power, Signal and Information Technology (APSIT) (2021). Oct-8-2021. (SCOPUS).
- (vi) Sahoo, Buddhadeva, et al. "Advanced adaptive filter-based control strategy for active switch inverter operation" 2nd International Conference on 'Innovation in Electrical

Power Engineering, Communication & Computing Technology (IEPCCT) (2021). 24- 25 Sep 2021. (SCOPUS)

(vii) Sheetal Chandak, Buddhadeva Sahoo et al. "A brief analysis of Microgrid Control" Innovation in Electrical Power Engineering, Communication & Computing Technology (IEPCCT) (2021). 24-25 Sep 2021. (SCOPUS)

3. Mr. Niraj Kumar Singh

(i) "Static Stability Analysis of Tapered Timoshenko Sandwich Beam Resting on Pasternak Foundation with Thermal Gradient," International Conference on 'Recent Advances in Engineering Material' organised by Alvas Institute of Engineering & Technology, Karnataka from 3rd to 5th March 2022.

(ii) "Free vibration investigation of a visco-elastically supported asymmetric sandwich beam tapered along width and thickness subjected to pulsating axial load" International Conference on 'Recent Advances in Mechanical and Material Sciences' organised by Gandhi Engineering College, Bhubaneswar from 30th to 31st March 2022.

INVITED TALKS

1. Dr. Tyagraj Thakur

(i) Invited talk titled "Efficient Communication" in a webinar on "Capacity Building and Personality Development for Women Students" organised by SUIIT & NAAC-IQAC Cell, Sambalpur University in collaboration with National Commission for Women, New Delhi on 11th December 2021.

(ii) Disha: Navigating the Future Trajectories – a Career Awareness Programme for students of Diploma in Engineering at Government Polytechnic College, Rengali, Sambalpur. 8th April 2022

2. Dr. Buddhadeva Sahoo

(i) SOAWAL-EE-18 Invited Talk titled "Advanced Power Electronic and Controller Requirement for Electrification" organised by SOA University on 4th Dec 2021.

(ii) SOAWAL-EEE-20 Invited Talk titled "Role of Power quality and Reliability Regulation for Rural Electrification" organised by SOA University on 18th Dec 2021.

3. Dr. Sudeep Kumar Patel

(i) Invited talk on "Indian Standard Provisions for Load Calculation" at Government Polytechnic, Balangir for 6th Sem Civil Engineering students and faculties on 10.06.2022

4. Ms. Sagarika Pradhan

- (i) A seminar on “Rapid Manufacturing Techniques” was delivered on 10.06.2022 at Govt. Polytechnic, Bolangir

PARTICIPATION IN WORKSHOPS/SEMINARS/WEBINARS/FDPS

1. Mr. Satyabrata Sahoo, Assistant Professor, Department of Computer Science & Engineering

- (i) Five Days Online ATAL FDP on “Emerging Techniques and Applications for IoT” organized by Department of IT, VSSUT, Burla from August 09, 2021 to August 13, 2021 in association with AICTE.

2. Dr. Buddhadeva Sahoo, Assistant Professor, Electrical Engineering

- (i) AICTE Sponsored one-week STTP on Challenges in Smart Grid Environment Using IOT- One-week online STTP on “Solar Photovoltaic System” organized by NITTTR Kolkata from 22-26 November 2021.
- (ii) One Day National webinar on “Grid Resilience with Renewable Energy Sources” organized by Indian Energy Congress on 05 December 2021.
- (iii) ATAL one-week online FDP on “Type-I and Type-II Fuzzy Logic and its Applications” organized by IIIT Kota from 06-10 December 2021.
- (iv) One-week online STTP on “Optimization with MATLAB Applications” organized by NITTTR Kolkata from 13-17 December 2021.
- (v) One Week Virtual Lecture series “Anveshan” on the occasion of “National Mathematics Day” organized by SRMS College of Engineering & Technology, Bareilly from 20-24 December 2021.
- (vi) One-week online STTP on “LabVIEW and MATLAB Applications in Engineering” organized by NITTTR Kolkata from 03-07 January 2022.
- (vii) ICT mode STTP on “Renewable Energy Sources and Emerging Technologies (ICT235)- 20/12/2021 to 24/12/2021(NITTTR, Kolkata).
- (viii) ICT Mode STTP on “Optimization with MATLAB Applications (ICT234)” - 13/12/2021 to 17/12/2021 (NITTTR, Kolkata).
- (ix) National Webinar on “GRID RESILIENCE WITH RENEWABLE ENERGY SOURCES” organized by Indian Energy Congress held through online mode on 5th December 2021.
- (x) AICTE-ISTE Sponsored Induction Program on “Green Technologies and Environmental Sustainability” organized by SOA University - 13-18 December 2021.

3. Dr. Mihir Hota

- (i) AICTE recognized short term course on Machine Learning using Python through ICT by

National Institute of Technical Teacher's Training and Research, Chandigarh from 28-3-2022 to 1-4-2022(One week) online.

- (ii) AICTE recognized short term course on Cryptography for Information Security through ICT by National Institute of Technical Teacher's Training and Research, Chandigarh from 09-5-2022 to 13-5-2022 online.
- (iii) 19th OITS International Conference on Information Technology OCIT 2021 Jointly Organized by Silicon Institute of Technology, Bhubaneswar
- (iv) and Orissa Information Technology Society (OITS) from 16th to 18th December,2021.
- (v) National Webinar on Functional Materials for Emerging Technology(FMET-2022) FROM 14TH-17TH March,2022.
- (vi) National Workshop on Advances in Solar Photovoltaic: Emerging Materials and Technologies Information Technology Organized by NIT,Patna from 16th-20th Feb,2022.
- (vii) One day Online Workshop on "Hands on training on Photonics Design using MATLAB" by MIT WPU,Pune on 26th March,2022.
- (viii) International Conference on Current Trends in Physics and Photonics (ICCTPP-2022), which was held on June 09 - 11, 2022 by MIT World Peace University – Pune.
- (ix) Annual Convention of Orissa Physical Society and National Seminar on physics in Sustainable Developments on 4th and 5th,June 20022 at GIET University,Gunupur.
- (x) "Virtual summit on Advances in Electro-optics and Photonics System's Simulation in Aerospace and Defense" which will be held today 21-05-2022 from 5PM to 8PM organized by AP-MTT Joint Chapter, IEEE Bangalore Section, Department of Electronics and Communication Engineering,RV College of Engineering.

4. Dr. Ashutosh Rath

- (i) FDP Programme "Machine Learning using Python through ICT" from 28th March - 1st April, 2022 conducted by NITTR Chandigarh.

5. Mr. Ashish Singh Saluja

- (i) Workshop on "Communicating Effectively - Everywhere" conducted by Dr. Rosalia H Bonjour, Professor; Head, Department of English; Foreign Languages, MITS, Madanapalle, Chittoor, AP organized by Silicon-West, Sambalpur on 15-Jul-2021, 10:30am-12:30pm.
- (ii) Expert Talk on "Futuristic Approach to Engineering" delivered by Dr. Vinay Sharma, Professor & Head, Department of Production Engineering, Birla Institute of

Technology, Mesra, Ranchi organized by Silicon-West, Sambalpur on 16-Jul-2021, 11:00 AM - 01:25 PM.

- (iii) Workshop on "Advance MATLAB Tools and SIMULINK for Power System Applications" conducted by Dr. Siddhartha Panda, Professor, Dept. of Electrical Engg. and Dr. Amit Kumar, Assistant Professor, Dept. of Electrical & Instrumentation Engg., Thapar Institute of Engineering & Technology, Punjab, organised by Dept. of EE, Silicon-West, Sambalpur on 26th and 27th July 2021.
- (iv) Workshop on "Business English Communication and Certification" conducted by Dr. Rosalia H Bonjour, Professor & Head, Department of English & Foreign Languages, MITS, Madanapalle, Chittoor, AP organized by Silicon-West, Sambalpur on 30-Jul-2021, 10:30 AM - 12:30 PM.
- (v) Workshop on "Digital Hardware Designs using HDL", DHDHDL-2021, conducted by Dr. S. K. Tripathy, Associate Professor, NIT-Silchar and Mr. S. Nath, Ph.D Research Scholar, NIT-Silchar, organized by Dept. of ECE, Silicon-West, Sambalpur scheduled on August 20-21, 2021.
- (vi) Workshop on "Nature Inspired Optimization Techniques and Microgrid Applications" (NIOTMA 2022) Organized by the Department of Electrical Engineering, Silicon Institute of Technology, Sambalpur on 21st – 26th March 2022.
- (vii) FDP on "Machine Learning using Python" organized by Dept. of CSE, NITTTR, Chandigarh and hosted by Dept. of CSE, Silicon-West, Sambalpur from 28-Mar-2022 to 01-Apr-2022.
- (viii) FDP on "Cryptography for Information Security" organized by Dept. of CSE, NITTTR, Chandigarh and hosted by Dept. of CSE, Silicon-West, Sambalpur from 09-May-2022 to 13- May-2022.

6. Mr. Satyabrata Sahoo

- (i) Workshop on "Communicating Effectively - Everywhere" conducted by Dr. Rosalia H Bonjour, Professor; Head, Department of English; Foreign Languages, MITS, Madanapalle, Chittoor, AP organized by Silicon-West, Sambalpur on 15-Jul-2021, 10:30am-12:30pm.
- (ii) Expert Talk on "Futuristic Approach to Engineering" delivered by Dr. Vinay Sharma, Professor & Head, Department of Production Engineering, Birla Institute of Technology, Mesra, Ranchi organized by Silicon-West, Sambalpur on 16-Jul-2021, 11:00 AM - 01:25 PM.

- (iii) Workshop on "Advance MATLAB Tools and SIMULINK for Power System Applications" conducted by Dr. Siddhartha Panda, Professor, Dept. of Electrical Engg. and Dr. Amit Kumar, Assistant Professor, Dept. of Electrical & Instrumentation Engg., Thapar Institute of Engineering & Technology, Punjab, organised by Dept. of EE, Silicon-West, Sambalpur on 26th and 27th July 2021.
- (iv) Workshop on "Business English Communication and Certification" conducted by Dr. Rosalia H Bonjour, Professor & Head, Department of English & Foreign Languages, MITS, Madanapalle, Chittoor, AP organized by Silicon-West, Sambalpur on 30-Jul-2021, 10:30 AM - 12:30 PM.
- (v) ATAL FDP on "Emerging Techniques and Applications for IoT" organized by Department of IT, VSSUT, Burla from August 09, 2021 to August 13, 2021.
- (vi) Workshop on "Digital Hardware Designs using HDL", DHDHDL-2021, conducted by Dr. S. K. Tripathy, Associate Professor, NIT-Silchar and Mr. S. Nath, Ph.D Research Scholar, NIT-Silchar, organized by Dept. of ECE, Silicon-West, Sambalpur scheduled on August 20-21, 2021.
- (vii) Webinar on "From Smart Things to Smart Network " presented by Dr. Farooque Hassan Kumbhar organized by SOA University, Bhubaneswar on 22 Sept 2021, 3pm - 4:30pm.
- (viii) ISTE collaborated National Workshop on "Nature Inspired Optimization Techniques and Microgrid Applications" (NIOTMA 2022) Organized by the Department of Electrical Engineering, Silicon Institute of Technology, Sambalpur on 21st – 26th March 2022.
- (ix) FDP on "Machine Learning using Python" organized by Dept. of CSE, NITTTR, Chandigarh and hosted by Dept. of CSE, Silicon-West, Sambalpur from 28-Mar-2022 to 01-Apr-2022.
- (x) FDP on "Cryptography for Information Security" organized by Dept. of CSE, NITTTR, Chandigarh and hosted by Dept. of CSE, Silicon-West, Sambalpur from 09-May-2022 to 13- May-2022.
- (xi) Webinar on "Investor Awareness Programme, SEBI (Govt. of India) Initiated" by Mr. Manoj T N, BFSI Trainer, Ex-AGM IDBI Bank, RP-IICA, SMART-SEBI, Certified National Trainer-Skill India Mission organized by Silicon-West, Sambalpur in association with Knowledge Bell, Bangalore & Apex Academy, Kochi on 28th May 2022, 11:30 am – 12:30pm.

7. Dr. Sohan Kumar Pande

- (i) Participated & Completed successfully AICTE Training and Learning (ATAL) Academy Online Elementary FDP on “Emerging techniques and Application in IoT” from 09-08-2021 to 13-08-2021 at Veer Surendra Sai University of Technology.
- (ii) Attended online short-term course on Cloud and Fog Computing Platforms for IoT Applications conducted by the department of Computer Science and Engineering from 02-08-2021 to 06-08-2021.
- (iii) Participated in AICTE recognized short term course on Machine Learning using Python through ICT conducted by CSE department from 28-03-2022 to 01-04-2022 at Silicon Institute of Technology, Sambalpur (Odisha).
- (iv) Participated in the AICTE recognized Faculty Development Programme on Cryptography and Information Security conducted by Computer Science and Engineering department from 09-05-2022 to 13-05-2022 at Silicon Institute of Technology, Sambalpur, Odisha.

8. Dr. Manas Ranjan Jena

- (i) Attended a FDP Programme "Machine Learning using Python through ICT" from 28th March - 1st April, 2022 conducted by NITTR Chandigarh.
- (ii) Attended a FDP Programme on “Cryptography for Information security” from 9th May to 13th May 2022 conducted by NITTR Chandigarh.
- (iii) Attended one FDP ON “RF/Microwave Sensor Technology” organized by the Department of Electronics & Communication Engineering, NIST, Berhampur on 22.05.2022.

9. Mr. Nabin Kumar Naik

- (i) Attended two days workshops on “Digital Hardware Designs using HDL” organized by the Department of Electronics & Communication Engineering, SIT Sambalpur, on 20th - 21th Aug 2021.
- (ii) Attended AICTE Sponsored one-week STTP on “Recent Advancements in Organic and Nanoelectronics-RAONE 21” organized by the Department of Electronics & Communication Engineering, SRM University KTR Campus, Chennai on 8th -13th Oct 2021.
- (iii) Attended a FDP Programme "Machine Learning using Python through ICT" from 28th March - 1st April, 2022 conducted by NITTR Chandigarh
- (iv) Attended a FDP Programme on “Cryptography for Information security” from 9th May to 13th May 2022 conducted by NITTR Chandigarh.
- (v) Attended one FDP ON “RF/Microwave Sensor Technology” organized by the Department

of Electronics & Communication Engineering, NIST, Berhampur on 22.05.2022.

10. Mr. Biresh Kumar Dakua

- (i) 12-week certification course on “Process Control: Design, Analysis, & Assessment” organised by NPTEL from 24 Jan-15 Apr 2022.
- (ii) 1-week online STTP on “Renewable Energy Sources and Emerging Technologies” organized by NITTTR Kolkata from 21-25 March 2022.
- (iii) 1-week online AICTE-ISTE approved refresher program on “Development and Application of Renewable Energy Source in Power System” organized by CSIT Durg from 02-08 March 2022.
- (iv) 1-week online STTP on “Estimating and Costing of Non-conventional Energies” organized by NITTTR Kolkata from 21-25 February 2022.
- (v) 1-Day Pre-Conference Workshop on “Kalman Filter: A journey to its present status with its MATLAB implementation” organized by 7th IFAC ACODS 2022 at NIT Silcher on 22 February 2022.
- (vi) 1-Day webinar on “From PID Control to Adaptive Control: Systematically Designing Controllers in SIMULINK” organized by MathWorks on 17 February 2022.
- (vii) 1-week online STTP on “Electricity Rules and Code of Practices” organized by NITTTR Kolkata from 14-18 February 2022.
- (viii) 1-week online STTP on “Labview and MATLAB Applications in Engineering” organized by NITTTR Kolkata from 03-07 January 2022.
- (ix) 1-Week Virtual Lecture series “Anveshan” on the occasion of “National Mathematics Day” organized by SRMS College of Engineering & Technology, Bareilly from 20-24 December 2021.
- (x) 1-week AICTE/ISTE approved orientation/refresher program on “Electric Vehicle and Smart Grid: A Path Towards Sustainable Energy” organized by KIIT Bhubaneswar from 17-23 December 2021.
- (xi) 1-week online STTP on “Optimization with MATLAB Applications” organized by NITTR Kolkata from 13-17 December 2021.
- (xii) 1-Day National webinar on “Grid Resilience with Renewable Energy Sources” organized by Indian Energy Congress on 05 December 2021.
- (xiii) Udemy Certification course on “Control System, Optimization, & Hardware in Loop Simulations” completed on 23 November 2021.
- (xiv) 1-week online STTP on “Solar Photovoltaic System” organized by NITTTR Kolkata from 22-26 November 2021.

(xv) ATAL 1-week online FDP on “Recent Trends in Control System Engineering” organized by CSIT, Durg from 23-27 August 2021.

(xvi) ATAL 1-week online FDP on “Data Sciences” organized by NPTI (Southern Region) from 9-13 August 2021.

11. Dr. Buddhadeva Sahoo

(i) AICTE-ISTE Sponsored Induction Program on “Electric Vehicle and Smart Grid: A Path Towards Sustainable Energy” organized by KIIT Deemed to be University - 17-23 December 2021 (Certificate on 23 Jan 2022).

(ii) Online short-Term Training Program on Recent Trends in Electric Vehicle Technology (RTEVT-2022) from 15th to 17th March 2022 at SIT, Bhubaneswar

(iii) Webinar on “Preparedness for Electric Vehicles by Discom” February 06th 2022 conducted by Indian Energy Congress (IEC) in collaboration with NIST (Autonomous), Berhampur.

(iv) AICTE-ISTE Sponsored Induction Program on “Green Technologies and Environmental Sustainability” organised by SOA University - 13-18 December 2021

(v) ICT mode STTP on “Renewable Energy Sources and Emerging Technologies (ICT235)- 20/12/2021 to 24/12/2021(NITTTTR, Kolkata)

(vi) AICTE Sponsored one-week STTP on Challenges in Smart Grid Environment Using IOT- Phase-II- (4-9 Oct 2021)

(vii) ICT Mode STTP on “Optimization with MATLAB Applications (ICT234)” - 13/12/2021 to 17/12/2021 (NITTTTR, Kolkata).

(viii) National Webinar on “GRID RESILIENCE WITH RENEWABLE ENERGY SOURCES” organized by Indian Energy Congress held through online mode on 5th December 2021.

12. Niraj Kumar Singh

(i) Participated in AICTE recognized short term course on Machine Learning using Python through ICT conducted by CSE department from 28-03-2022 to 01-04-2022 at Silicon Institute of Technology, Sambalpur (Odisha).

(ii) Participated in the AICTE recognized Faculty Development Programme on Cryptography and Information Security conducted by Computer Science and Engineering department from 09-05-2022 to 13-05-2022 at Silicon Institute of Technology, Sambalpur, Odisha.

Other academic participation

1. Mr. Satyabrata Sahoo

(i) Local Coordinator of FDP on “Machine Learning using Python” organized by Dept. of

CSE, NITTTR, Chandigarh and remotely hosted by Silicon-West, Sambalpur from 28-Mar-2022 to 01-Apr-2022

- (ii) Local Coordinator of FDP on “Cryptography for Information Security” organized by Dept. of CSE, NITTTR, Chandigarh and remotely hosted by Silicon-West, Sambalpur from 09-May-2022 to 13-May-2022.
- (iii) SPOC and Coordinator for NPTEL Local Chapter, Silicon Institute of Technology, Sambalpur, Odisha since 21-Oct-2021.
- (iv) SPOC and Mentor of 4 Teams (2 Finalist Teams) of Silicon-West, Sambalpur for Smart India Hackathon 2022, Innovation Cell, MoE, Govt. of India.
- (v) Life Member of the Indian Society for Technical Education (ISTE) since Feb, 2022

2. Dr. Manas Ranjan Jena

- (i) Enrolled in NPTEL Course “Digital System Design” session Jan-April 2022 and Got NPTEL pass Elite Certificate.
- (ii) Organised Two Days Workshop (Online) as coordinator On “Digital Hardware Designs using HDL”, DHDHDL-2021, from August 20-21, 2021 organized by the Department of Electronics and Communication Engineering, Silicon Institute of Technology, Sambalpur.
- (iii) Session chair at Springer INTERNATIONAL CONFERENCE ON SMART & SUSTAINABLE TECHNOLOGIES (RURAL & TRIBAL DEVELOPMENT USING RH AND CLOUD COMPUTING) ICSST-2021, 16th - 18th DECEMBER 2021, Organised by Department of ECE, School of Engineering Technology, GIET university, Gunupur

3. Mr. Nabin Kumar Naik

- (i) Successfully completed SWAYAM NPTEL online course on “**Digital Electronics & Microprocessor**” and secured 92%.

4. Mr. Biresh Kumar Dakua

- (i) Organized a 1-Week Online FDP on “Nature Inspired Optimization Techniques & Microgrid Applications” NIOTMA-2022 on 21-26 March 2022 by Department of EE, SIT Sambalpur.

5. Dr. Buddhadeva Sahoo

- (ii) Guest Energies- MDPI Journal (SCI, Scopus, IF-3.25).
- (iii) Best Paper Award for the presentation in Advances in Power, Signal and Information Technology (APSIT) IEEE (2021). Oct-8-2021.
- (iv) BPUT Research recognition award-2021.

- (v) Chaired a session in 7-Day online National workshop on “Nature Inspired Optimization techniques and Microgrid Applications” NIOTMA-2022 on May 2022.

AWARD/CERTIFICATION

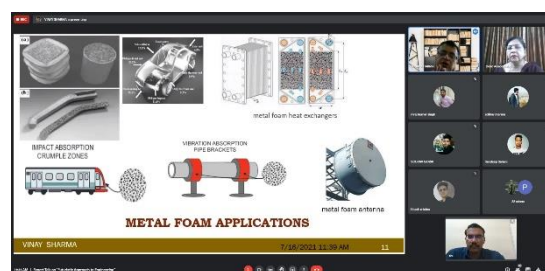
1. **Dr. Buddhadeva Sahoo** was conferred with the University Foundation Day Research Award 2021 by BPUT, Odisha in November 2021
2. **Dr. Tyagraj Thakur** was certified as ‘Foundation Level Cognitive Learning Instructor’ by Illumine Foundation and BPUT, Odisha in November 2021.
3. **Dr. Buddhadeva Sahoo** completed the Udeemy Certification course on “Control System, Optimization, & Hardware in Loop Simulations” on 23th November 2021.

WORKSHOPS/FDPs ORGANISED

1. The Department of Basic Science & Humanities organised an online Workshop titled “Communicating Effectively” for members of faculty and staff on 15 July 2021. Dr. Rosalia H Bonjour, Professor & Head, Department of English and Foreign Languages, MITS, Madanapalle, Chittoor, Andhra Pradesh was the resource person for this workshop session. She reflected upon the need of communicating effectively in present day workplace and engaged the session with the activities with a view to instilling the attitude and mechanics of communicating better.



2. The Department of Mechanical Engineering organised an Expert Talk titled “Futuristic Approach to Engineering” on 16 July 2021 with a view to orienting the students to the technological advancements and current trends of research in the discipline of Mechanical and Production Engineering. Dr. Vinay Sharma, Professor & Head, Department of Production Engineering, BIT Mesra was the resource person for this talk. Dr. Sharma reflected on the recent research trends in the domain of mechanical and production engineering and guided how these researches are going to bring in a paradigm shift in the technological innovations in the days to come. He also reflected on the interdisciplinary approaches to research that would significantly contribute to the growth of knowledge in diverse domains of engineering and science.



3. The Department of Electrical Engineering organised a Two-Day online Workshop with Hands-on Training on “Advance MATLAB Tools and SIMULINK for Power System Application” from 26 to 27 July 2021. Dr. Siddhartha Panda, Professor of EE, VSSUT, Burla was the resource person for the first session of Day-1 where he reflected on the Fundamentals and Applications of MATLAB and SIMULINK. For the second session of Day-1 Dr. Amit Kumar, Assistant Professor, Electrical and Instrumentation Engineering, Thapar Institute of Engineering and Technology, Punjab took the participants through a Hands-on Practice session with MATLAB for Load Frequency Control and Automatic Voltage Regulator Design in Power System. The resource person for the sessions on Day-2 of the workshop was Mr. Kabalya Prasad Mishra, PhD Scholar, Department of EE, National Institute of Technology, Meghalaya. Mr. Panda took the first session on Microgrid System Design with Multilevel Inverter Interfacing followed by a hands-on session on MPPT Control, PWM Control, Multilevel Inverter Design for the second session.
4. The Department of Basic Science & Humanities organised an online Workshop titled “Business English Communication and Certification” for 2nd and 4th semester students on 30 July 2021. Dr. Rosalia H Bonjour, Professor & Head, Department of English and Foreign Languages, MITS, Madanapalle, Chittor, Andhra Pradesh was the resource person for this workshop session. She reflected upon the need of communicating effectively in present day workplace and engaged the session with the activities with a view to instilling the attitude and mechanics of communicating better. She also reflected on the role of the BEC certification in students’ career.
5. The Department of Electronics & Communication Engineering organised a Two Day Workshop on Digital Hardware Designs using HDL from 20th to 21st August 2021. Dr. S.K. Tripathy, Associate Professor, NIT, Silchar was the Chief Resource Person of the occasion who oriented the participants towards the nuances of the topic in focus. Similarly, Mr. S. Nath, PhD Research Scholar, NIT, Silchar oriented the participants through a hands-on training session.
6. The Department of Computer Science and Engineering organised an FDP on “Machine Learning using Python” in collaboration with NITTTR, Chandigarh from 28th March to 1st April 2022.
7. The Department of Computer Science and Engineering organised an FDP on “Cryptography for Information



Security” in collaboration with NITTTR, Chandigarh from 9th to 13th May 2022.

8. The Department of Electrical Engineering organized a Six-Day National Workshop on “Nature Inspired Optimization Techniques and Micro grid Applications” from 21st March to 26th March 2022. Prof. Vijay D Vaidya, Executive Secretary, ISTE New Delhi was



the Chief Guest of this National workshop. Prof. Prakash Kumar Hota (Dept of EE, VSSUT, Burla), Dr. Harish Sharma, (Associate Professor, Dept of CSE, Rajasthan Technical University Kota), Dr Jagdish Chandra Bansal (Associate Professor Dept of Mathematics, South Asian University, New Delhi), Dr C N Bhide (Associate Professor, Dept of Electrical Science, IIT, Bhubaneswar), Dr. Anupam Yadav (Assistant Professor, Dept of Mathematics, NIT, Jalandhar) and Prof Sidhartha Panda (Dept of EE, VSSUT, Burla) were the resource persons of the workshop. A total of 175 numbers of faculty members and research scholars and students across the globe participated in this workshop. Dr. Buddhadev Sahoo and Mr. Biresh Kumar Dakua both Assistant Professors in the Dept of EE, SIT Sambalpur were the convener and coordinator of this workshop respectively.

Academic Support to Diploma Engineering Students of nearby institute

1. A two-day training programme by the department of Electronics and Communication Engineering was conducted from 09.06.22 to 10.06.22 for diploma students of Govt Polytechnic Rengali, Sambalpur. Around 10 students participated in this training programme. Faculty members and technical assistant demonstrated various experiments



of different laboratories i.e. Microprocessor & Microcontroller Lab, Analog & Digital Communication Lab and Communication Engg. The students from Govt polytechnic had a hands-on exposure to various labs in the department.

2. A four-day training programme on 13-14 May and 03-04 June 2022 was conducted by the Department of Electrical Engineering for diploma students of Govt Polytechnic Rengali, Sambalpur in the institute premises. Around 48 students participated in this training



programme. Faculty members and technical assistants of the department demonstrated various experiments of different laboratories i.e. power system lab & Electrical Drives Lab. The students from Govt polytechnic had a hands-on exposure through various labs of the department.

Certifications by NPTEL



Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
KUNAL SHARMA
for successfully completing the course
Python for Data Science

with a consolidated score of **75** %

Online Assignments	15.83/25	Programming Exam	25/25	Proctored Exam	34/50
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Total number of candidates certified in this course: 1937


 Prof. Devendra Jalihal
 Chairman
 Centre for Continuing Education, IITM


 Prof. Andrew Thangaraj
 NPTEL, Co-ordinator
 IIT Madras

 Indian Institute of Technology Madras



Roll No: NPTEL21CS78524200121 To validate and check scores: <https://npTEL.ac.in/hoc>



Elite

NPTEL Online Certification
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to
KUNAL SHARMA
for successfully completing the course
Programming, Data Structures And Algorithms Using Python

with a consolidated score of **74** %

Online Assignments	23.63/25	Programming Exam	25/25	Proctored Exam	25/50
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Total number of candidates certified in this course: 1199


 Prof. Devendra Jalihal
 Chairman
 Centre for Continuing Education, IITM


 Prof. Andrew Thangaraj
 NPTEL, Co-ordinator
 IIT Madras

 Indian Institute of Technology Madras



Roll No: NPTEL21CS67514200098 To validate and check scores: <https://npTEL.ac.in/hoc>



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
CHIRANJEEB DAS
for successfully completing the course
Programming, Data Structures and Algorithms using Python

with a consolidated score of **75** %

Online Assignments	23.96/25	Programming Exam	25/25	Proctored Exam	26.25/50
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Total number of candidates certified in this course: 1600


 Prof. Devendra Jalihal
 Chairman
 Centre for Continuing Education, IITM


 Prof. Andrew Thangaraj
 NPTEL, Co-ordinator
 IIT Madras

 Indian Institute of Technology Madras



Roll No: NPTEL22CS26544190083 To validate and check scores: <https://npTEL.ac.in/hoc>



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
ABHIJEET BEHERA
for successfully completing the course
Data Science for Engineers

with a consolidated score of **52** %

Online Assignments	21.88/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 1264


 Prof. Devendra Jalihal
 Chairman
 Centre for Continuing Education, IITM


 Prof. Andrew Thangaraj
 NPTEL, Co-ordinator
 IIT Madras

 Indian Institute of Technology Madras



Roll No: NPTEL22CS28544170026 To validate and check scores: <https://npTEL.ac.in/hoc>



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
ABHIJEET BEHERA
for successfully completing the course
Data Science for Engineers

with a consolidated score of **52** %

Online Assignments	21.88/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 1264


 Prof. Devendra Jalihal
 Chairman
 Centre for Continuing Education, IITM


 Prof. Andrew Thangaraj
 NPTEL, Co-ordinator
 IIT Madras

 Indian Institute of Technology Madras

Roll No: NPTEL22CS28544170026 To validate and check scores: <https://npTEL.ac.in/hoc>



Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
ABHIJEET BEHERA
for successfully completing the course
Data Science for Engineers

with a consolidated score of **52** %

Online Assignments	21.88/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 1264


 Prof. Devendra Jalihal
 Chairman
 Centre for Continuing Education, IITM


 Prof. Andrew Thangaraj
 NPTEL, Co-ordinator
 IIT Madras

 Indian Institute of Technology Madras

Roll No: NPTEL22CS28544170026 To validate and check scores: <https://npTEL.ac.in/hoc>

NEWS &EVENTS

26 November 2021 - Celebration of Constitution Day

The Constitution Day was celebrated in the institution campus on 26th November 2021. In view of this celebration all members of faculty, staff and students readout the Preamble to the Constitution of India.

10December 2021 - 13th Orientation Programme

The 13th Orientation Programme of Silicon Institute of Technology, Sambalpur was held on 10th December 2021 where students from the admission batch 2021-25 and 2021-24 (Lateral Entry) were introduced to the academic and meta-academic environment at Silicon. Dr. Mihir Hota, Professor of Physics and Dean offered the welcome address and urged the students to embrace optimism and enthusiasm for the next four years of their academic trajectory. Mr. Manoj Kumar Mahapatra, Senior Assistant Professor, Mechanical Engineering & Faculty in Charge (FIC) – Academics briefed the students and their parents/guardians about the academic rules, regulation, discipline and examination system at Silicon Sambalpur. Similarly, Mr. Nabin Kumar Naik, Senior Assistant Professor of ECE and FIC – Residences oriented on the role of hostel life for the academic growth of students. Dr. Lalit Mohan Pradhan, Senior Assistant Professor of Mathematics and FIC-ERP introduced the students to the Enterprise Resource Planning portal at Silicon Sambalpur which is a cutting-edge interface to ensure the academic and administrative processes. Dr. Tyagraj Thakur, HoD, Basic Sciences & Humanities and FIC- Industry Interface Cell (Training & Placement) addressed the students on the significance of training that Silicon offers to students and the wide panoply of recruiters that the institute hosts for the on-campus placement drives. He briefed the audience about the rigorous training that students undergo at Silicon that makes them industry-ready and also highlighted that more than 30 MNCs, (Capgemini, Accenture, Infosys, DXC, TechMahindra, TCS, Hexaware, Latent View, Legato, SAP Labs to name a few) have already conducted their drives for the students graduating in 2022 where more than 70% of students have already been placed. Mr. Harshit Gupta, student

of 7th semester in CSE reflected upon his experience at Silicon and the preparations required for students to grow in career. He welcomed the newcomers on behalf of all the students. Likewise, Ms. Sagarika Pradhan, HoD, Mechanical Engineering and FIC-FA introduced the Faculty Advisory System at Silicon that strengthens the relationship of students and parents/guardians with the institute as well as significantly monitors and mentors the students' academic progress. Mr. Ashish Singh Saluja, Assistant Professor of CSE and FIC-Students' Council introduced all the departments and FICs to the newly admitted students. Ms. Ankita Panda, Assistant Professor of Economics introduced the audience to the purpose of the occasion and compered the programme. Dr. Tyagraj Thakur hosted an interactive session as well as proposed the vote of thanks. Dr. Ashutosh Rath, Senior Assistant Professor, Civil Engineering, Mr. Bhawesh Kumar Chaudhary, Senior Assistant Professor ECE and the Admission Team coordinated the admission and registration processes.

13-18 December 2021 - Induction Programme for Batch 2021-2025

The Induction Programme for the Batch 2021-2025 was held from 13th to 18th December 2021. The Day-one of the programme started with a session on Memory Management by Dr. Lalit Mohan Pradhan, Senior Assistant Professor of Mathematics, SIT Sambalpur followed by an Alumni Talk by Ms. Nikita Nayak, an alumna from ECE, batch 2013-2017 presently working as a Data Scientist at Nasdaq, Bangaluru. Subsequently, an orientation session titled "Robotics Technology – Redefining the Future" was conducted by Ms. Sagarika Pradhan, Assistant Professor of Mechanical Engineering and FIC, Robotics Club. The day-one ended with a session on Yoga and Meditation by the Brahmakumaris, Sambalpur. The Day-two started with an expert talk on career building by Mr. Abhijit Sen, CEO and Founder, Syllogistec Systems Pvt. Ltd. which was followed by an interactive session on "Holistic Approach to Engineering" by Dr. Ramaprasad Panda, Professor of EEE, SIT Bhubaneswar. Dr. Saswati Jena, Counselling Psychologist, SIT Bhubaneswar reflected on "Mental Wellbeing for Engineers" in the post-lunch session which was followed by a session on "Financial Awareness" by Ms. Ankita Panda, Assistant Professor, SIT Sambalpur. The Day-Three of the programme started with a session on "English as the Global Lingua Franca" by Dr. Tyagraj Thakur, Senior Assistant Professor of English and FIC, II Cell, SIT Sambalpur which was followed by a Coding Workshop Session by Dr. Sohan Kumar Pande, Assistant Professor of CSE and FIC, Coding Club (Codigo Plataforma), SIT Sambalpur. In the post-lunch session the newcomers joined another interactive Alumni Talk by Mr. Ronit Kumar Satapathy, an alumnus from ME, batch 2012-2016 presently working as Senior Technology Analyst, RWE, Germany. It was followed by an expert talk on "Recent Trends in Computer Science and Engineering" by Dr. Sourav KantiAddya, Assistant Professor of CSE, National Institute of Technology Karnataka, Surathkal. From 16th to 18th December, the students

were introduced to basics of a diverse panoply of subjects namely Applied Mathematics, Applied Physics, Programming in C, Basic Mechanical Engineering, Basic Civil Engineering, Basic Electrical Engineering and Basic Electronics Engineering. Moreover, as a part of the induction programme the students were taken for a Heritage Tour to Hirakud Dam and were also taken to some common facility centres in Sambalpur.

24 December 2021 - Blood Donation Camp

A Blood donation camp was organized by Silicon Sambalpur, ISTE Student Chapter in collaboration with Sambad-Ama-Odisha and Silicon Student Council on 24th December 2021. The camp was inaugurated by Mr. Dhanajaya Kumar Sinha, Vice President (Administration-JSW-Bhusan Power and Steel Ltd.). Students, Members of faculty and Staff voluntarily came forward to contribute to this noble cause of donating blood. Paramedical team from blood bank, VIMSAR Burla took care of the process.



26 February 2022 – Food Festival

Student Council organized a food fest “Zayka-ae-Tadka 2K22”, under the ‘Ek Bharat Shrestha Bharat (EBSB)’ program, an MHRD initiative of Government of India. The event was conducted on 26 February and 5 March 2022.



7 March 2022 – Orientation by Robotics Club

The Annual Orientation Programme by Silicon Robotics Club was held on 7th March 2022.



14 March 2022 – Orientation by Codigo Plataforma

The Coding Club of Silicon West, “Codigo Plataforma” organized an orientation program for the first-year students and lateral entry (2nd year)



students. In the orientation program, various ongoing projects of the coding club were demonstrated and explained and one quiz competition was also conducted.

26 March 2022 – 11th Annual Athletic Meet

The 11th Annual Athletic Meet 2022 was held on 26th March 2022. Prof. Mihir Hota, Dean Academics inaugurated the meet by lighting the athletic flame and hosting the athletic flag at 6AM. The meet comprised a diverse range of events such as 100 mt race, 200 mt race and 400 mt race, shot put, discus throw, high jump, long jump and tug of war. Mr. Tikeswar Dewagan from 7th Semester ECE and Ms. Seemran Swain from 5th Semester CSE were adjudged the Athletic Champions of the year.



28-30 March 2022 – Litterateur of the Fall

The literary club organised the annual event titled 'Litterateur of the Fall' on 28th and 30th March 2022. On the Day-1 of the event the first round titled 'Scripto Fabula' (Developing a story out of given cues) was conducted where 70 students participated. On the Day-2 of the event the shortlisted students participated in the subsequent rounds namely 'Poetica Reflexionem' (Interpreting a given piece of poem), 'Shakespearean Soliloquy' (Performing on Shakespearean Soliloquy) and 'Oratio' (Oration on a given topic). Mr. Chowdhuri Swayansu Satyaprajna was adjudged the 'Winner of Litterateur of the Fall 2022'. The winning trophy, cash prize and certificates were presented to the students by Prof. Mihir Hota, Dean.



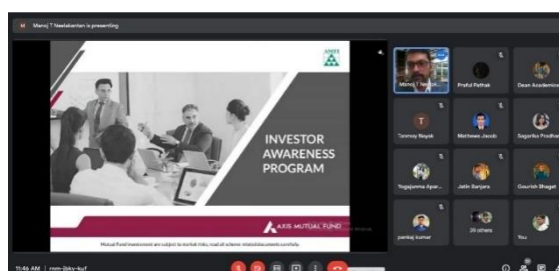
28 April 2022 - VIHASA

A workshop titled "Values in Healthcare: A Spiritual Approach (VIHASA)" by Prajapita Brahma Kumaris was held on 28 April 2022.



28 May 2022 - Investors' Awareness Programme:

An "Investor Awareness Programme" for students was organised by the Department of BSH in collaboration with Knowledge Bell,



Bangalore and Apex Academy, Kochi on 28th May 2022 and more than 50 participants joined the session. The expert for the session was Mr. Manoj T Neelakantan, Managing Partner & Lead Trainer, Apex Academy, Kochi.

21 June 2022 – International Day of Yoga

About 30 students and six staff from Silicon Institute of Technology, Sambalpur participated in the International Day of Yoga - 2022 organised by the Brahma Kumaris at Royal Retreat, Sambalpur on 21 June 2022. Prof. Sanjiv Mittal, Honourable Vice-Chancellor, Sambalpur University graced the occasion as the Chief Guest. Rajyogini BK Parbati from the Sambalpur division of



Brahma Kumaris was the Chief Speaker of the occasion and Mr. Viswanath Neelambar, DFO, Sambalpur graced it as the Guest of Honour. Prof. Mihir Hota, Dean, Silicon Sambalpur joined the programme as an invited guest and encouraged the participation of students.

Formation of Scholars' Club

The Scholars' Club for the academic year 2021-2022 was formed where 6 students from 7th semester, 12 students from 5th semester and 6 students from 3rd semester were selected to be members of the club after meeting the eligibility criteria and were presented the golden band accordingly. Moreover, the following students qualified to receive the institute sponsored scholarship of ₹12000/- for the academic year 2021-2022.

Sl. No	Regd. No.	Name	Branch	Attendance	Backlog	CGPA
1	1801341015	KANCHAN SINGH	CSE	99%	0	9.31
2	1921341004	ANKITA DAS	ECE	93%	0	9.19
3	1901341033	SIDDHESWAROJHA	CS	95%	0	9.56
4	2021341002	ROHAN KUMAR PANDEY	CE	91%	0	9.33
5	1901341040	GOURISHBHAGAT	ECE	97%	0	9.16

Activities by Campus Coordination Committee

- Organized a movie show for all the boarders on 11.03.22 in the ground floor gallery from 4.30 pm to 7. 30pm.97 boarders were present during the show.
- Organized an Antakshari event for all boarders on 12.03.22 in the ground floor gallery from 2 pm to 4. 30 pm. Twelve teams participated in this event. Team 12(Abhishek Kumar Singh –8th Sem CSE, Ankit Kumar – 8th Sem CSE, Anukul Chandra Mahato 8th Sem – Mechanical)and Team 1 (Matru Prasad Sahoo 1st Sem CSE, Yoshabanta Bisoi 1st Sem CSE, Tapur Dey 1st Sem CSE& Yogajanma Aparajita 1st Sem CSE) were declared winner and Runner up.

