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**SYNERGY**  
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# Darphan

The Quarterly Newsletter

Volume XVIIi, Issue Iii  
Jul-Sep 2025

Celebrating  
**25**  
Glorious  
Years

## Synergy Group of Institutions

SYNERGY, DHENKANAL & SYNERGY, BHUBANESWAR

# Synergy's Newsletter

### Message from The Chairman.....

#### The Race Beyond the Road: A Lesson for Life



Life often mirrors the roads we travel on. One ordinary evening, a simple drive turned into a quiet revelation. As another car overtook mine, an instant urge to compete took over. Without realizing it, I pressed the accelerator, turning a peaceful journey into an unspoken race. For a few fleeting moments, it was all about being ahead — until I noticed that

other driver had already reached his destination, while I had driven far past mine.

That moment offered a powerful metaphor for life. In our pursuit to get ahead — in career, success, wealth, or recognition — we often forget where our true destination lies. We push ourselves to outdo others, believing that victory lies in comparison. But much like that evening's race, we often end

up exhausted, far away from our own purpose, having lost the calm and contentment that once guided us.

In the world of engineering and technology, this message holds special meaning. The spirit of innovation should never become a rivalry of egos. True engineering excellence is not about surpassing others, but about solving problems, creating value, and improving lives. When we focus on self-growth and contribution, competition naturally transforms into collaboration.

As the saying goes, "Even if you win the rat race, you're still a rat." The goal of life — and indeed of learning — should not be to win meaningless races, but to discover one's unique strengths and nurture them with sincerity and patience.

Let us remind ourselves and our peers that life is not a race to be won, but a journey to be lived wisely. Let's slow down, reflect, and realign our paths — not toward others' milestones, but toward our own peace and purpose. Because at the end of the road, the greatest victory is not in being ahead, but in being true to ourselves.

(Binod Daśh)

Chairman & Managing Trustee, Synergy Group of Institutions

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DHENKANAL



BHUBANESWAR

## Seminar/Workshop conducted at Synergy, Dhenkanal Department Of Computer Science And Engineering:

The Department of Computer Science and Engineering, Synergy, Dhenkanal, organized a seminar on “Role of AI in Business Communication – Tools, Techniques and Way Forward.” The keynote address was delivered by Mr. Paras Yadav, Assistant Professor of Corporate Communication and Brand Management, Indian Institute of Mass Communication (IIMC), Dhenkanal, along with Mr. Abinash Sahu, Synergy alumnus and journalist. The speakers highlighted emerging trends, tools, and techniques of Artificial Intelligence in business communication, emphasizing its growing impact on information systems and organizational communication. Students from various semesters of the Computer Science department actively participated in the event. Mr. Smruti Ranjan Dash, Head of the Department, inaugurated the seminar and delivered the vote of thanks. The session was coordinated by Asst. Prof. Ipsita Panda. Synergy alumnus Mr. Kamal Kumar Das also graced the occasion. The seminar concluded with an interactive discussion, where students explored the



practical applications of AI in business communication and its transformative role in the future of industry practices.

Dr. S. Abinash, Computer Science Expert and Professor, Synergy, Dhenkanal orienting our NSS Volunteers and Campers on “Use and Misuse of Social Media “ At Government women college Dhenkanal today. Dt. 27.09.25.



The Dept. of Computer Science & Engineering conducted Cyber Security awareness and sensitization programme on 7th Aug. 2025 in association with CYBER DOJO Pvt Ltd.

“Cyber Charcha” event conducted to create awareness regarding Cyber Security by the students and staff of the Dept. of Computer Science and Engineering, Synergy, Dhenkanal.

The Department of Computer Science and Engineering, Synergy, Dhenkanal, held a meeting with members of Academiae & Infomaticae Technology Pvt. Ltd. to explore collaboration opportunities for student internships and placements. The meeting was attended by Mr. Avinash Raghav, CEO & MD of Academiae, and Mr. Subhadip Basu, Co-founder and Honorary Advisor of Infomaticae Technology Pvt. Ltd., along with other company representatives.

## Department Of Electrical Engineering:

The Department of Electrical Engineering had organized a one day National seminar on the topic “ Sustainability of Green Energy in Odisha State – The Present Scenario” on 26th Sept 2025. Er. Motilal Senapati, Deputy Director, NPTI, Durgapur was the Chief Guest and speaker. Er. S.P. Rollsan Rout, vocational Trainer and Entrepreneurship Development, CTTC, Bhubaneswar and Er. C.K. Barik, Director, ANVI ANAYA Engineering and Construction Ltd., Bhubaneswar were the Guest of Honor. 110 students participated in the seminar and it was a grand success.



## Department Of Mechanical Engineering:

The Department of Mechanical Engineering, Synergy Institute of Engineering & Technology, Dhenkanal, organized a National Seminar on “Intelligent Navigation and Control of Humanoid Robots” on 24<sup>th</sup> September 2025, with Mr. Himansu Sekhar Dash, Assistant Professor, Department of Production Engineering, IGIT Sarang, as the distinguished speaker, under the convenorship of Dr. M. K. Debta.



## Newsletter

### Seminar/Workshop conducted at Synergy, Bhubaneswar

#### Department Of Computer Science And Engineering:

The Dept of CSE, Synergy, Bhubaneswar, successfully hosted aFDP on **Microsoft power BI Data Analyst Associate** from 8th Sept to 12th Sept, featuring an insightful session led by Abhaya DhanMeher, a distinguished trainer from ICT Academy. Experienced trainers from ICT Academy guided participants through real-world data analysis scenarios.

The Dept of CSE, Synergy, Bhubaneswar, organized a workshop on “**Machine Learning Using Python**” conducted by Mr. Ranjan Kumar Das on 24<sup>th</sup> July, 2025. Mr. Das explained key concepts such as supervised and unsupervised learning, data preprocessing, and model evaluation techniques. Participants learned to use Python libraries like NumPy, Pandas, Matplotlib, and Scikit-learn for building ML models.

The Dept of CSE, Synergy, Bhubaneswar, successfully organized a departmental function “**CSESYN**” on 24.07.25, a celebration of innovation, technology, and teamwork. The event brought together students, faculty, and guests to showcase the department’s achievements and talents. The program began with an inaugural ceremony, including a welcome address by the HOD Asst. Prof. Tapasi Das and a keynote speech by a distinguished guest Mr. Ranjan Kumar Das. Various technical events such as coding competitions, project expos, and tech quizzes were conducted. Winners of different events were honoured with certificates and prizes in the valedictory session.

#### Department Of Civil Engineering:

The Dept of CE, Synergy, Bhubaneswar, successfully organized a Two-Days National seminar on “**Sustainable Concrete for Future Construction**” in collaboration with Ultra Tech Cement Ltd. (Aditya Birla) on 23<sup>rd</sup> and 24<sup>th</sup> September 2025 at Synergy Institute of Technology, Bhubaneswar. Sarat Kumar Panda (IIT,BBSR), Retd. Prof. Amar Nath Nayak (Principal, KMBB), Prof. Venkatesh Kodur (Michigan State University), Er. Sambit Mohanty (SE, Works Dept. Keonjhar, Govt of Odisha), Yash Rai (Project Head, UltraTech Cement Pvt Ltd) were the Resource Person for the event. The students of Dept of CE, Synergy, Bhubaneswar, attended the **UltraTech India Next Stimulation Program on 26<sup>th</sup> July 2025** at KIIT College, Bhubaneswar. This program aimed at fostering innovation, leadership, and industry readiness.

The Dept of CE, Synergy, Bhubaneswar, organized a **Parents Teacher Meeting** on 13<sup>th</sup> August 2025 to discuss students’ progress, development, and awareness. The students of Dept of CE, Synergy, Bhubaneswar, participated in the **Model Exhibition** held at **CV Raman College on 13<sup>th</sup> September 2025**.

The students of Dept of CE, Synergy, Bhubaneswar, participated in a National Conference on “**Advance in Concrete Technology**” held at **CV Raman College on 13<sup>th</sup> Sept 2025**. The students of Dept of CE, Synergy, Bhubaneswar, celebrated a **Bana Mohotsav** (Tree Plantation Drive) in our college campuses on 17<sup>th</sup> September 2025, promoting tree plantation, reducing carbon footprint, and conserving biodiversity.

The Dept of CSE, Synergy, Bhubaneswar, conducted an Internship Program in collaboration with UltraTech Cement on 22 September 2025. The students gained valuable industry experience through the internship program with UltraTech Cement. The program provided hands-on training, exposure to real-world projects, and insights into the latest industry trends.

#### Department Of Mechanical Engineering:

The Dept of ME, Synergy, Bhubaneswar, arranged an alumni talk on 14.07.2025 by Dr. Bikash Pattanayak on The Topic “**Career Trajectories**”. The Dept of ME, Synergy, Bhubaneswar, arranged a Guest Lecture on 22.07.2025 on “**Climate Change**” by Prof (Dr) Sandeep Pattnaik, Associate Professor, School of Earth, Ocean and Climate Science, IIT, Bhubaneswar.

The Dept of ME, Synergy, Bhubaneswar, arranged an Industrial Visit to “**Jindal stainless limited**”, **Kalinganagar, Jajpur** Organized on dated 25.08.2025.

The Dept of ME, Synergy, Bhubaneswar, arranged an alumni talk conducted on **16 Sept 2025** by **Mr. Bibhu Prasad Sahoo** on topic “**Transitioning from life as a students to a job in the industry –opportunities and challenges**”

The Dept of ME, Synergy, Bhubaneswar, arranged Two-Day Workshop on Clean Water Solutions and Design Innovation, organized by the Dept of ME, Synergy, Bhubaneswar,, in collaboration with ISME, IIT Delhi, was successfully conducted on 26th & 27th September 2025 .

The Dept of ME, Synergy, Bhubaneswar, arranged an Expert Talk on dated 08.10.2025. on topic “**Metal Casting**” by **Dr. D. Benny Karunakar** Professor, Department of Mechanical Engineering, Indian Institute of Technology, Roorkee.



### The Beginning of SYNETIC at Synergy, Dhenkanal

With immense joy and creativity in the air, we mark the inauguration of SYNETIC – The Art & Photography Club of Synergy Dhenkanal was inaugurated by Dr. Prashanta Kumar Nayak, Director, Synergy, Dhenkanal . SYNETIC is more than just a club—it’s a canvas of imagination, a lens of perspective, and a stage for every hidden artist and storyteller. From painting vibrant emotions to capturing timeless moments, we are here to create, inspire, and celebrate art in all its forms. This inauguration is not just a start, but a promise—A promise to nurture creativity ,to explore new perspectives ,and to build a community where every brushstroke and every click tells a story. Join us in this exciting journey of colors, frames, and ideas. Together, let’s make SYNETIC a symphony of creativity!

### Celebration of National Sports Day at Synergy, Dhenkanal

To honour the legacy of Major Dhyan Chand, Synergy, Dhenkanal organised a Volleyball Tournament on the occasion of National Sports Day at the Sports Ground. Four teams participated in the event, where the B.Tech Final Year team emerged as Champions, while the Diploma Final Year team secured the Runners-up trophy. On 31st August 2025, the Director (Admin) and the Director of the institute proudly presented the trophies to the winning teams. We are delighted to share that Prof. (Dr.) Rayaguru A. K. Das, Professor in the Department of Computer Science & Engineering, Synergy Institute of Engineering & Technology, Dhenkanal, delivered an insightful talk on “AI, Big Data & The Future of Academia” in the National Seminar on “Converge 2025” organised by Ravenshaw University, Cuttack on 30th August 2025. Dr. Rayaguru’s session highlighted the transformative role of Artificial Intelligence and Big Data in reshaping education, research, and industry. His vast academic and research experience made the session highly enriching for students, faculty, and participants. We congratulate Dr. Rayaguru for representing Synergy Institute at such a prestigious platform and inspiring the academic community with his vision for the future of academia.

### Engineers’ Day Celebration at Synergy, Dhenkanal

Synergy, Dhenkanal celebrated Engineers’ Day on 15th September 2025 with great enthusiasm at the Conference Hall. The event featured a Poster Making Competition, an Open House Quiz for students and staff, and inspiring student speeches on the occasion.

Dr. Itishree Mohanty, Director (Administration), chaired the program and appreciated the participants. The event was well-coordinated by the Cultural Committee.

In the Poster Making Competition, Kumkum Dash (3rd Year CSE) secured the first prize, followed by Jayashree Sahoo (1st Year CSE) in second place and Divyanka Deva Dutta (1st Year CSE) in third. In the Speech Competition, Kumari Bishnupriya (4th Year CSE) won the first prize, while Simran Padhi (3rd Year Civil) bagged the second prize.

The celebration concluded on a joyful note, appreciating the active participation of all and honoring the innovative spirit of engineers.



### Synergy, Dhenkanal Welcomes New B.Tech Students with Orientation Program.

Synergy, Dhenkanal, conducted its Orientation Program today for the newly admitted B.Tech 1st year students in the Institute premises. The program, held in the morning session, witnessed enthusiastic participation of students along with their parents. The event commenced with the lighting of the ceremonial lamp accompanied by sloka chanting, followed by a welcome song and the BPUT Anthem, creating an inspiring atmosphere for the new academic journey. Director Dr. P. K. Nayak and Director (Administration) Dr. I. Mohanty formally welcomed the students, motivating them to embrace discipline, hard work, and determination in their professional path. All Heads of Departments introduced their respective branches and encouraged students to strive for academic and personal excellence. Trustee Er. A. K. Sahu inspired the students to focus on building resilience, adaptability, and a strong knowledge base as the key to success in professional life. Chairman and Managing Trustee, Shri Binod Dash, presided over the program and urged the students to blend technical expertise with values, integrity, and innovation, stating that true education is measured not only by academic success but also by the strength of character. Other dignitaries including of various Sections and Cells addressed the gathering, offering valuable guidance for holistic student development. An interactive alumni session proved to be a highlight of the program, with alumni members motivating the freshers to stand on their own and seize opportunities with confidence. Senior students also shared their experiences, which further encouraged the newcomers. Parents attending the event expressed their satisfaction with the program and appreciated the comprehensive orientation provided by the Institute. The program concluded with a vote of thanks by Prof. J. Momin HoD, English. The entire event was smoothly conducted under the coordination of Prof. Smruti Ranjan Dash, Coordinator of the Cultural Committee, with active support from faculty, staff, and student volunteers.



## Newsletter

### Students' Induction Programme (SIP) 2025 at Synergy, Dhenkanal

The Students' Induction Programme (SIP) 2025 at Synergy Institute of Engineering & Technology, Dhenkanal, was conducted with great enthusiasm and purpose to welcome and guide the newly admitted students toward academic and personal excellence.

The first day began with a warm welcome and inspiring sessions by senior faculty members, introducing students to the values, vision, and environment of the institute.

On the second day (16.08.2025), teachers from Brahma Kumari Ishwariya Vishwa Vidyalaya conducted enlightening sessions on meditation, value-based living, and self-awareness. The third day continued with various interactive and motivational sessions that promoted teamwork, communication, and emotional balance among students.

The fourth day featured talks by Mr. Jyoti Ranjan Pattnaik, Ex-Deputy Director (Agriculture), and Mr. Sameer Pradhan from the Art of Living School, Dhenkanal, along with members of Brahma Kumari Ishwariya Vishwa Vidyalaya, who spoke on discipline, mindfulness, and holistic development.

The fifth and sixth days comprised sessions by faculty members focusing on academic orientation, career goals, and ethical values, helping students adapt to the academic culture of the institute.

The seventh day was devoted to creative learning, with dance and music classes conducted by Ganesh Sir and Jyotirmayee Madam from DPS Dhenkanal, encouraging artistic expression and cultural awareness.

The eighth day involved internal mentoring sessions by the faculty, preparing students for the final phase of the programme.

On the ninth day, Yoga Acharya Dr. Biswa Ranjan Rath from Utkal University led a rejuvenating yoga and wellness session, emphasizing the importance of health and mental peace.

The tenth day marked the beginning of the Holistic Personality Development Certificate Course, organized in association with Sri Sathya Sai Seva Organisations, Odisha, focusing on character building and moral education.

The eleventh and final day (6th September 2025) concluded both the SIP 2025 and the Certificate Course on Holistic Personality Development, organized with Sri Sathya Sai Centre for Human Excellence, Odisha. Renowned speakers such as Prof. (Dr.) Nayantara Chotrai, Mrs. Mamata Samal, Dr. Sudhakar Sahoo, Dr. Umakanta Subudhi, Dr. Ashok Kumar Hota, and Shri Harihar Parhi delivered insightful talks on youth and holistic growth. The Welcome Address was given by Dr. Itishree Mohanty, Director (Administration), while Dr. J. Singh, SIP Coordinator, proposed the Vote of Thanks, and Vice Principal Prof. S. S. Pati distributed certificates to the participants.

The active participation of teachers from Brahma Kumari Ishwariya Vishwa Vidyalaya, Art of Living, DPS Dhenkanal, and other resource persons, along with the dedicated contribution of Synergy's faculty and the UHV Cell, made SIP 2025 a remarkable success—fostering holistic learning, moral strength, and value-based education among the new students.



### Massive Plantation Drive under EkPedMaaKeNaam on the Birthday of Hon'ble Prime Minister Shri Narendra Modi Ji

On the auspicious occasion of Hon'ble Prime Minister Shri Narendra Modi Ji's birthday, a massive plantation drive was organized with great enthusiasm and collective spirit. Under the CSS FPO Promotion Programme, our CBBO mobilized all 11 FPOs, who together planted nearly 34,000 saplings, including mango and other fruit-bearing trees generously provided free of cost by the Horticulture Department. On this special occasion, FPOs promoted by CBBO Synergy planted trees under the #EkPedMaaKeNaam campaign—an initiative supported and encouraged by NCDC & NABARD, Govt. of India, to build a sustainable future for farmers and the nation. This effort reflects not just our commitment to environmental sustainability but also our vision of long-term livelihood enhancement for the farming community. Adding to this noble cause, Synergy Dhenkanal, Synergy Bhubaneswar, and DPS Dhenkanal also took part in the plantation drive. Altogether, a remarkable 38,000 saplings were planted, marking a green tribute to the Hon'ble Prime Minister and a significant step towards a cleaner, greener tomorrow.



### Swachhata Pakhwada at Synergy, Dhenkanal

As a part of nationwide Swachhata Pakhwada, initiative of AICTE, Synergy School of Engineering, Dhenkanal successfully organized "Campus and Community Cleanliness" on 13<sup>th</sup> September 2025. The event began with the motto "Cleanliness is not just a habit; it's a way of life." Continuing the spirit, a series of competitions were held including essay writing, debate, quiz, and poster presentation. More than 150 students participated enthusiastically showcasing their creativity and awareness about environment and cleanliness.



### Engineer's Day at Synergy, Dhenkanal

On 15<sup>th</sup> September 2025, Synergy School of Engineering celebrated Engineer's Day honoring the birth anniversary of Sir M. Visvesvaraya. The renowned Engineer, Er. Nirakar Puhan graced the occasion and emphasized the importance of engineers in society, citing their contribution to technological innovation and environmental sustainability. He inspired the future generations to pursue careers in engineering.

### Plantation Drive at Synergy, Dhenkanal

On 14<sup>th</sup> September 2025, Synergy School of Engineering organized a plantation drive aiming to promote environmental sustainability. The event highlighted the importance of collective action in protecting our environment and encouraged participants to take ownership of their surrounding because "Together, We can make a difference."

### Plantation Drive: Ek Ped Maa Ke Naam at Synergy, Bhubaneswar

**Synergy, Bhubaneswar** organized a Plantation Drive entitled, "Ek Ped Maa Ke Naam" on 17<sup>th</sup> September, 2025 in its lush green premises. The event was inaugurated by esteemed Chairman and Managing Trustee of Synergy Group of Institutions, **Sri Binod Dash and Madam Mrs Anita Padhi**, as they stepped forward and planted the first plant of the drive, thus, laying the foundation of the drive. **Prof. Dr. Ashwini Mohanty**, Principal, Synergy, Bhubaneswar, all the HOD's - Prof. Tapasi Das (Computer Science & Engineering), Prof. Dr. Ramesh Nayak (Mechanical Engineering), Prof. Dr. Pankaj Dash (Civil Engineering), Prof. Dr. Ajay Kumar Swain (Electrical Engineering), Prof. Dr. Jogeswari Rout (Basic Science & Humanities), all faculties along with the students in large number contributed to the event by planting as many plants as possible ensuring a greener future.



### Visit To O – Hub, Synergy, Bhubaneswar

**Synergy, Bhubaneswar** had organized a Visit to **O-HUB**, Startup Odisha, at Bhubaneswar on 19<sup>th</sup> September, 2025 to attend an Exclusive Mentoring Session under the Startup Focus – Mentor Connect Series: "Creating New Horizons: Blue Ocean Innovation for Startups", featuring Shri Subhrangshu Sanyal, CEO, IIM Calcutta Innovation Park as the Guest Speaker. Students of 7<sup>th</sup> Semester of Civil, Mechanical, Electrical and Computer Science Departments along with faculty members attended the Mentoring Session. Dr. Jogeswari Rout (Dean, Student Welfare), Miss Priyanka Priyadarshini (Coordinator, Dept. of Management), Miss. Subhasmita Dash (Co-Coordinator, Dept. of Management), Dr. Anjan Kumar Sahu, (Professor, ME), Dr. Dilip Ku. Mohapatra (Professor, CSE) and Mr. Debaprasad Nathasharama (Technical Asst. EE) accompanied the students as Guide and attended the programme. Shri Subhrangshu Sanyal shared actionable insights to empower startups in building disruptive business models and pioneering new horizons of success. After the mentoring session the students interacted with the Startup companies. The programme became a great platform for all the students to develop necessary skills and strategy to build Startup in near future.



### Student Achievements

Department of Mechanical Engineering (NBA Accredited Department) Synergy Institute of Technology, Bhubaneswar has officially registered for Student Membership with the Indian Society of Mechanical Engineers (ISME) a premier professional body in India, headed by the Department of Mechanical Engineering, Indian Institute of Technology (IIT), Delhi has successfully formed an ISME (Indian Society of Mechanical Engineering) Student chapter. Department of Mechanical Engineering, Synergy Institute of Technology, Bhubaneswar has designed and developed an innovative dustbin arrangement system to promote cleanliness and aesthetic appeal in institutional and public environments, as part of the Industry Institute Partnership Cell (IIPC) initiative.

Department of Mechanical Engineering, Synergy Institute of Technology, Bhubaneswar is conducting a 3 months internship program on 6 DOF Robotics. The internship is provided for 5<sup>th</sup> semester mechanical students by Utkal Robotronics: ISO 2000-1:2018 certified organisation, Head Quarter in Bengaluru, Karnataka.



### Swachhata Pakhwada event conducted at Synergy Polytechnic, Bhubaneswar

Synergy Polytechnic, Bhubaneswar, observed **Swachhata Pakhwada** on 9<sup>th</sup> September 2025 with great enthusiasm and active participation from students and staff. The event aimed to promote cleanliness and environmental consciousness within the campus and surrounding areas. A plantation drive was organized to encourage greenery and sustainability, followed by an environmental awareness rally highlighting the importance of maintaining a clean and healthy environment. The program successfully instilled a sense of responsibility among students towards a cleaner and greener future.

## Newsletter

### Paper Publication /Book Publication /Paper Presentation by the staff of Synergy, Dhenkanal & Synergy, Bhubaneswar

Dr. Priyabrat Pradhan , HOD,Asst. Prof., Dept of ME, Synergy, Dhenkanal, have a patent titled “AN ARTIFICIAL INTELLIGENCE BASED ROBOTIC BIOGAS PLANT WITH ROTATING MIRROR FOR DOMESTIC APPLICATIONS.

Dr. Priyabrat Pradhan , HOD,Asst. Prof., Dept of ME, Synergy, Dhenkanal, published a research article titled “Computational modelling and optimization of mechanical properties of red brick dust-epoxy composites using machine learning approach

Dr. Prashanta Kumar Nayak,Professor, Dept. of ETC, Ellora Das Asst. Prof., Dept. of EE, Sushri Sangita Mahapatra, Asst. Prof, Dept. of ME & K. Sekhar Rao, B. Tech Student, Dept. of EE Presented a paper “ ATC Automatic Lubrication System Design and Development of CNC” in International Conference on Futuristic Information and Communication (ICFIC-2025) Organised by: Siksha ‘O’ Anusandhan (Deemed to be University) In association with Taylor& Francis.

Dr. Malaya Kumar Debta, Asst. Prof., Dept of ME,, Synergy, Dhenkanal, published a research paper titled “Influence of Heat Input on the Characteristic and Performance of TiC-Co Coating Developed by TIG Arc Scanning” in the SCI-indexed Journal of Materials Engineering and Performance.

Prof. Aswini Kumar Mohanty, Principal & Professor at Dept of CSE, Synergy, Bhubaneswar, has published an Indian patent “FINANCIAL SECURITY MONITORING IOT DEVICES”

Asst. Prof. Tapasi Das, HOD, Dept of CSE, Synergy Bhubaneswar, has authored a book entitled “AI Prompt Playbook”,bearing ISBN 979-8263076184, published in August 2025. The book is available for access on Amazon.

A paper titled “IoT Enabled Automatic Planting Robot for Smart Environment” was published and presented by Asst. Prof. Karisma Mohapatra, Dept of CSE, Synergy, Bhubaneswar in an International Conference on Intelligent and Cloud Computing (ICoICC).

A paper titled “Ensemble Classification Model for SAR and ESP Assessment: Advancing Irrigation Water Quality Analysis on the East Coast of India” was published by Asst. Prof. Karisma Mohapatra, Dept of CSE, Synergy, Bhubaneswar.

A paper titled “Addressing the influential factors for assessment of cloud computing adoption in service provisioning” published by Asst. Prof. Karisma Mohapatra, Dept of CSE, Synergy Bhubaneswar in an International Symposium on Signal and Image Processing.

Dr. Pankaj Kumar Dash, HOD & Professor in the Dept of CE, Synergy, Bhubaneswar has contributed a paper in eBook of *Advance Materials Processing and Characterization Technology* which has been published in **Springer**.

Dr. Ramesh Chandra Nayak, HOD & Prof. Dept of ME, Synergy, Bhubaneswar et al. “Enhancement of Natural Convection Heat Flow from a Heated Source through a Vertical Tube with Internal Rings.” *Materials Research Proceedings*, 49 (2025): 21–28. DOI: <https://doi.org/10.21741/9781644903438-3>. (Scopus Indexed)

Dr. Ramesh Chandra Nayak, HOD & Prof. Dept of ME, Synergy, Bhubaneswar et al. “Technology for Urban Crisis Management towards Green Energy Harvesting and Sustainable Environment.” *Advances in Computers*, Elsevier, 2025. ISSN 0065-2458. DOI: <https://doi.org/10.1016/bs.adcom.2025.08.008>. (Scopus Indexed)

Afrina Sharmin, Vishwa Mohan Behera, Chaitali Sarangi, and Sudhansu Sekhar Singh. “Microbial Electrolysis Cells for Sustainable Hydrogen and Methane Production: Design, Performance, and Emerging Applications.” Chapter 5 (Accepted). AAP, CRC Press, Taylor & Francis Group. (Indexed in Scopus and Web of Science).

Dr. Ramesh Chandra Nayak, Dr. Dr. Anjan Kumar Sahu, Vishwa Mohan Behera, Sudhansu Sekhar Singh, and Naresh Patra, HOD & Professors in the Dept of ME, Synergy, Bhubaneswar, presented a paper on “Experimental Study on Natural Convection Heat Transfer through a Composite Aluminium Heated Tube.” in an International Conference entitled ICIT-25, AIT, Bangkok, Thailand (16–18 Aug 2025).

Dr. Ramesh Chandra Nayak et al. “Empowering Small-Scale Farming through a Compound Gear Train-Based Irrigation Model” has been accepted for publication in the *Indian Journal of Environmental Protection*. (CiteScore 2025: 0.2, SJR: 0.109, SNIP: 0.075, Scopus Indexed).

Dr. Ajay Kumar Swain, Director & HOD of Dept of EE, Synergy, Bhubaneswar published a book entitled, *Artificial Intelligence for IOT* under CIIT Research background.

A Paper entitled “Nanostructured Quadric-Confined Quantum Dot-Quantum Well Kieserite Solar Cell: A Pathway for Cost-Effective Photosensitive Devices” was published by Smruti Ranjan Mohanty, Assistant Prof. in the Dept of EE, Synergy, Bhubaneswar, in *PSS(A) Journal* in 2025.

A Paper Titled “A study on Efficiency Enhancement Techniques for photovoltaic systems to maximize the power generation efficiency and enhance sustainability” was published by Mamata Rani Swain, Prof. in the Dept of EE, Synergy, Bhubaneswar in *Taylor Francis Environmental Claims Journal* in 2025.

### Faculty Achievements by the staff of Synergy ,Dhenkanal & Synergy,Bhubaneswar

Dr. Ramesh Chandra Nayak, HOD & Professor, Dept of ME, Synergy, Bhubaneswar, Editor: *Clean Energy from Microbes: Emerging Technologies and Applications* (Apple Academic Press, co-published by CRC Press, Taylor & Francis Group). (Indexed in Scopus and Web of Science.)

Dr. Ramesh Chandra Nayak, HOD & Professor, Dept of ME, Synergy, Bhubaneswar, Editor: *Engineering Solutions for Lignocellulosic Waste Valorization: From Biomass to Green Energy* (Apple Academic Press, CRC Press, Taylor & Francis Group). (Indexed in Scopus and Web of Science.)

Dr. Ramesh Chandra Nayak, HOD & Professor, Dept of ME, Synergy, Bhubaneswar, has been selected as a Mentor for the Sharda Launchpad Federation (SLP) — the incubation centre under Sharda University in collaboration with the DST, Govt. of India, and iHub Divyasampark.

Dr. Ramesh Chandra Nayak, HOD & Professor, Dept of ME, Synergy, Bhubaneswar, served as Session Chair during the 10th International Conference on Intelligent Technologies (ICIT–2025) held at the Asian Institute of Technology, Bangkok, Thailand (16–18 August 2025).

## Workshop/Conference/FDP Attended by the Staff of Synergy, Dhenkanal & Synergy, Bhubaneswar

Mrs. Chandana Subudhi, Mr. Debasish rout, Dr. Malaya debta&Mr. Bijanananda Mishra Dept of ME, Synergy, Dhenkanal, has actively participated in the five-days Workshop on “Metal additive manufacturing : recent progress and future opportunities” from 7<sup>th</sup> to 11<sup>th</sup> July 2025 in virtual mode organized by Dept. of Mechanical Engg., NIT Rourkela.

Mrs. Sushri Sangita Mahapatra ,Mrs. Chandana Subudhi, Mr. Debasish rout, Dr. Malaya debta & Mr. Bijanananda Mishra Dept of ME, Synergy, Dhenkanal, have successfully completed five-days ATAL sponsored FDP on “Next -generation materials : Innovations , challenges & applications “ from 01/09/25 to 06/09/25 organized by government college of engineering , Kalahandi , Bhawanipatna , ORISSA

Mr. Debasish rout, Dr. Malaya Debta Dept of ME, Synergy, Dhenkanal, have successfully completed five-days ATAL sponsored fdp on “The role of Robotics & AI in industry 4.0” from 04/08/25 to 09/08/25 organized by School of engineering OP Jindal University.

Mrs. Sushri Sangita Mahapatra, Assistant Professor, Dept of ME, Synergy, Dhenkanal, was successfully completed 8-days face-to-face UHV - II FDP organized by AICTE at BPUT Rourkela, from 3<sup>rd</sup> to 10<sup>th</sup> July 2025.

Dr. Malaya Kumar Debta, Assistant Professor, Dept of ME, Synergy, Dhenkanal, was selected for, and successfully attended the INAE-CEEE Program 2025 held at the Department of Mechanical Engineering, IIT Kharagpur, from 2<sup>nd</sup> to 14<sup>th</sup> June 2025.

Mr. Soumyaranjan Samanta, Librarian Synergy. Dhenkanal has successfully completed the course ‘IT Applications in Libraries’ on SWAYAM with a consolidated score of 80%.

Mr. Chandan Kumar Behera, Asst. Professor, Civil Engineering Dept, Synergy, Bhubaneswar attended a 5 days Online workshop on “**Importance of Soil Investigation in Construction**” organized by Dept of Civil Engineering, NITTTR, Kolkata in collaboration with RASTA Centre of Road Technology, Bangalore during 14<sup>th</sup> July 2025 to 18<sup>th</sup> July 2025.

Mr. Chandan Kumar Behera, Asst. Professor, Civil Engineering Dept, Synergy, Bhubaneswar attended a 6 days ATAL FDP on “**Advanced Trends in Aerospace Engineering**” organized by A.M.C Engineering College during 18<sup>th</sup> August 2025 to 23<sup>rd</sup> August 2025.

Mr. Chandan Kumar Behera, Asst. Professor, Civil Engineering Dept, Synergy, Bhubaneswar attended a 7 days FDP on “**Smart Civil Engineering: Integrating Technology for Sustainable Infrastructure**” organized by Dept of Civil Engineering, GIET, Bhubaneswar during 15<sup>th</sup> September 2025 to 20<sup>th</sup> September 2025.

Mrs Lopamudra Sahoo, Asst. Professor, Civil Engineering Dept, Synergy, Bhubaneswar attended a 7 days FDP on “**Smart Civil Engineering: Integrating Technology for Sustainable Infrastructure**” organized by Dept of Civil Engineering, GIET, Bhubaneswar during 15<sup>th</sup> September 2025 to 20<sup>th</sup> September 2025.

Mrs. Mousumi Mohapatra, Asst. Professor, Civil Engineering Dept, Synergy, Bhubaneswar attended a 7 days FDP on “**Smart Civil Engineering: Integrating Technology for Sustainable Infrastructure**” organized by Dept of Civil Engineering, GIET, Bhubaneswar during 15<sup>th</sup> September 2025 to 20<sup>th</sup> September 2025.

Dr. Smita Sahoo, Asst. Professor, Civil Engineering Dept, Synergy, Bhubaneswar attended a National Seminar on Advance in Concrete Technology oAsst. Professor, Civil Engineering Dept 13<sup>th</sup> September 2025 at C.V Raman Global University, Bidyanagar, Bhubaneswar.

Dr. Anjan Kumar Sahu, Professor in the Dept of Mechanical Engineering at Synergy, Bhubaneswar, has completed and received a certificate for the NPTEL online FDP course on “Product Design Using Value Engineering,” securing 98% (Elite Gold) during July–August 2025.

Dr. Ramesh Chandra Nayak, HOD & Professor in the Dept of Mechanical Engineering at Synergy, Bhubaneswar, has completed the workshop on “How to Write a Manuscript and Get It Published” (Technology and Medical Journals, Elsevier 2025), organized by the Elsevier Research Academy on Campus, presented by Aishwarya Nayal and Dr. Jessica Tom.

## Newsletter

### Training & Placement at Synergy, Dhenkanal & Bhubaneswar

During this academic year, 640 students of Synergy Institute of Engineering & Technology, Dhenkanal & 136 students of Synergy Institute of Technology, Bhubaneswar got placed in reputed corporate organizations like WIPRO INDUST. (P), MICRO TURNER, RONCH POLYMER, COLLABERA TECHNOLOGIES(P) LTD, BARCOM INDUSTRIES LTD, COGNIXIA, MERCEDES BENZ, KALISMA STEEL, DIGICALL, SILLICON TECH(STL) AMTEK AUTO LTD., ROTODYNE SUMUKH ENGG. PVT. LTD. , INDO ALUSYS INDUSTRIES LTD, E.TECH GS, PARAGON TECH TNS GLOBAL, RONCH POLYMERRANGAM INFO, PRECISION ENGG, ROTODYNE, EPITOME ENGI, RESEARCH-IN BHUMI, CLEBRIT CHIF, AIU CONSULTANY, HATIM TECH, AFFINITY etc. SILLICON TECH(STL) COGNIZANT , CAPGEMINI, MINDTREE. The following is a list of students who have been selected by different companies in the recent campus from April to June 2025.

#### SYNERGY, DHENKANAL

##### Ango Digital, Bangalore

Niharika Soni	-	CS
Sheetal Suman Pattanaik	-	CS
Kumari Bishnupriya	-	CS
Mehreen Binth Tasawoor	-	CS
Kalpita Das	-	CS
Biswajit Behera	-	CS
Debasish Dash	-	CS
Asit Sahoo	-	CS
Amit Sahoo	-	CS



#### Industrial Talk at Synergy, Bhubaneswar

The Department of Civil Engineering at Synergy Institute of Technology, Bhubaneswar, arranged one day Industrial Talk on 4<sup>th</sup> September 2025 on Topic-Casting & erection of full span box girder by **Er.Devendra Balabantaray** (Sr.Construction Manager L&T).

#### Expert Talk at Synergy, Bhubaneswar

The Department of Civil Engineering at Synergy Institute of Technology, Bhubaneswar organised one day Expert Talk on 7<sup>th</sup> August 2025 on "Kusumi Smart Irrigation Project" by **Pritam Chetan Pothal** (Superintending Engineer, Nimapara Irrigation Division, Govt. of Odisha)

#### Alumni Talk at Synergy, Bhubaneswar

The Department of Civil Engineering at Synergy Institute of Technology, Bhubaneswar, arranged an alumina talk on 21.07.2025 by **Er.Prasanajit Parida**, Proprietor, Sai Smruti Construction, Bhubaneswar. (Batch:2018-22)

The Department of Civil Engineering at Synergy Institute of Technology, Bhubaneswar, arranged an alumina talk on 30.08.2025 by **Ms.Tanushree Das**, Assistant Officer, RMC Plant, Ultra-tech Cement Pvt. Ltd, (Batch: 2017-21)

The Department of Civil Engineering at Synergy Institute of Technology, Bhubaneswar, arranged an alumina talk on 27.09.2025 by **Er. Pratap Kumar Rout**, Project Head, Assotech Limited Bhubaneswar. (Batch:2017-21)

#### Alumni Talk at Synergy, Dhenkanal

The Department of Mechanical Engineering, Synergy Institute of Engineering & Technology, Dhenkanal, organized a Alumini talk by **Mr.Bita Acharya** Exicutive engineer RML DSP Rungta Mines , Dhenkanal on 03/9/25.

**Er Rahul Kumar Tewary** alumni 2014-2018 batch currently working as Manager planning & QS, HG Infra Limited gave an industrial talk on the topic MASTERING CONSTRUCTION PLANNING on 02.08.2025. Students of Civil Engineering of 3rd , 5th and 7th Semester attended the program.

## Student Achievement of DPS, Dhenkanal

Bibhasindhu Barik received 1 Bronze Medal in Singles and 1 Bronze Medal in Doubles in International Para Olympics in Uganda

Smaranika Rout of grade VII B achieved the 1<sup>st</sup> prize and Pratishruti Rout achieved 2<sup>nd</sup> prize in G.K Quiz and English to Odia translation competition, held at Sanskruti Bhavan, Dhenkanal on 10<sup>th</sup> July, 2025.

Dibyangee Debasmita of Std VII secured 1<sup>st</sup> position in Speech Competition conducted by Zilla Karjyalaya Dhenkanal; Odia Bhasha Sahitya and Sanskruti Department on 10<sup>th</sup> July, 2025.

Vinamra Raunaq Dash of Std X & Shriyanshu Priyam of STD X ( Group 2) won the 3<sup>rd</sup> position in the Central Zone conducted by CSM Synapse Quiz held at Guru Kelu Charan Mohapatra Odissi Research Centre (GKCMORC) on 21<sup>st</sup> July, 2025

Bibhasindhu Barik of Std XII has secured two Bronze medals in both Singles and Doubles categories in International Para Badminton Senior level held in Uganda.

Ishita of Std V has secured a red belt and silver medal in the ( under 16) category in the NATIONAL POOMSAE TAEKWONDO CHAMPIONSHIP, held from 27<sup>th</sup> – 29<sup>th</sup> June, 2025 organised by the Taekwondo Academy of India and Devbhumi Uttarakhand Taekwondo Association, in association with the Taekwondo Federation India.

DPS, Dhenkanal secured the 2<sup>nd</sup> position in the Inter DPS Quiz Competition held on 21<sup>st</sup> August from 8.00 a.m – to 12.30 p.m in online mode with 76 students from various DPS branches participated. The winners are :- Vinamra Raunaq Dash of 10 D, Shriyanshu Priyam of Std 10 B, Smaranika Rout of 7 B, Prateekshya Nayak of 7 D.

Smaranika Rout & Prateekshya Nayak ( junior team) secured 1<sup>st</sup> prize and Vinamra Raunaq Dash & Shriyanshu Priyam( senior team) secured 3<sup>rd</sup> prize in the Quiz competition organised by Bharat Bikash Parishad

Arpita Priyadarshini of Std X C and Dibyangee Debasmita of VII B secured 2<sup>nd</sup> position in Odia ( Debate); Adyasha Mishra of Std X B and Wish Aroshi of Std VII B secured 3<sup>rd</sup> position in English ( Debate); Shreyanshu Priyam of Std XB secured 1<sup>st</sup> position, Swayam Shubhankar of Std X A secured 2<sup>nd</sup> position, Divyanshi Dhal of Std VIII D secured 3<sup>rd</sup> position in English ( Essay writing); Subhasmita Parida of Std IX B secured 3<sup>rd</sup> position & Pratishruti Route of Std VIII A secured 2<sup>nd</sup> position in Odia ( essay writing) conducted by Dhenkanal Municipality on 29<sup>th</sup> August 2025

SM Lucy of Std VIII has been awarded at the 42<sup>nd</sup> National Taekwondo championship and 28<sup>th</sup> National Poomsae championship Nyeishia Sahoo of standard IX C has bagged the 3<sup>rd</sup> position in Elocution Competition held on 2<sup>nd</sup> September 2025 by LIC of India. Adyasha Mohanty a student of 7<sup>th</sup> grade has secured 2<sup>nd</sup> position in ‘Good Handwriting Competition ‘ organized by the Sambad News. Dibyangee Debasmita of Std VII has bagged the 1<sup>st</sup> prize ( Group B) & Krishnangi Patra of Std IX has bagged the 3<sup>rd</sup> prize ( Group C) in the Block Level Geeta Sloka Chanting Competition, held at Lekhak Sansad.

Bibhasindhu Barik of Std XII won the Gold medal (Champion) under 19 Doubles, Silver Medal ( Runner up) under 19 Singles, Bronze Medal ( Youth Doubles) at 2<sup>nd</sup> Junior & Youth National Championship 2025 in Uttar Pradesh. Sai Smita of Std VIII D got 2<sup>nd</sup> prize ( Junior Group) & Anikesh Behera of Std XI C got 2<sup>nd</sup> prize in ( Senior group) in the Online Quiz Competition “ Ozone Layer” held on 12<sup>th</sup> September, 2025 in the District level.

## Hindi Diwas Celebration at DPS, Dhenkanal

On 14<sup>th</sup> September 2025, DPS Dhenkanal celebrated Hindi Diwas to promote pride in the national language. The event began with lamp lighting and floral offerings, followed by a welcome address and song by Teacher Ganesh Mishra and his group. Students performed dances and recited poems, while Teacher Bhavana Yadav conducted an engaging Hindi.

## Teachers’ Day Celebration at DPS, Dhenkanal

Teachers’ Day was celebrated on 5<sup>th</sup> September 2025 in honour of Dr. Sarvepalli Radhakrishnan. The celebration included floral tributes, lighting of the ceremonial lamp, and entertaining performances by teachers. Senior students of Classes XI and XII enacted teacher roles in a fun-filled activity. The Principal appreciated the teachers’ efforts and urged students to follow their path of dedication and learning.

## International Commerce Day Celebration at DPS, Dhenkanal

On 12<sup>th</sup> August 2025, the Commerce Department celebrated International Commerce Day with participation from Classes X, XI, and XII. The event began with Vedic mantras, followed by an address from HOD Mr. Bidhan Chandra Maharana, who highlighted the department’s achievements. Students shared insights on commerce-related careers, while quizzes, drama, dance, and games added liveliness. Prizes were distributed to achievers and winners, and the programme concluded with the National Anthem.



## Newsletter

### Samvidhan Hatya Divas at DPS, Dhenkanal

Delhi Public School, Dhenkanal observed Samvidhan Hatya Divas (Constitution Murder Day) on 25th June 2025 to mark the anniversary of the Emergency declared in 1975. Students of Grade 10 participated in various activities reflecting on the importance of protecting democracy. Class 10-A conducted a special assembly and speech, Class 10-B presented a skit, Class 10-C showcased essay writing and poster-making, and Class 10-D organized a quiz session. The observance reminded students of the need to safeguard constitutional values and individual freedoms.



### 79th Independence Day Celebration at DPS, Dhenkanal

The 79th Independence Day was celebrated on 15th August 2025 with great patriotic fervour. The event began with flag hoisting by Principal Mr. Subrahmanya Kumar Sripada, followed by the National Anthem and an impressive march past by all four houses. Students presented patriotic songs, dances, and speeches in English, Hindi, and Odia. The programme ended with a vote of thanks and distribution of refreshments.



### Investiture Ceremony at DPS, Dhenkanal

The Investiture Ceremony of Delhi Public School, Dhenkanal for the academic session 2025–26 was held with great dignity and grandeur on 23rd August 2025 in the school auditorium. The event commenced with the arrival of the esteemed Chief Guest, Dr. Amiya Kumar Chand, Ex-Naval Officer of the Government of India and a proud recipient of the President's Award, accompanied by the respected Principal, Mr. Subrahmanya Kumar Sripada. The most awaited part of the ceremony, the distribution of badges and sashes, followed. The Chief Guest conferred the honours on the newly elected School Appointees and House Appointees. Following the investiture, the newly appointed student council members took the Oath of Office, pledging to uphold the school's values, shoulder their responsibilities with integrity, and lead their peers with dedication and humility. The Chief Guest, Dr. Chand, then addressed the gathering with an inspiring speech. In recognition of his gracious presence, Dr. Chand was felicitated by the Principal with a memento and words of appreciation. The ceremony concluded with the Vote of Thanks, followed by School anthem and National anthem.



### Blue Day Celebration at DPS, Dhenkanal

On 26th July 2025, DPS Dhenkanal celebrated Blue Day with great excitement for Nursery and Prep students. Dressed in blue, the children and teachers enjoyed a vibrant day filled with blue-themed decorations, crafts, and a fun cartoon show. The highlight was gifting blue pencils to all students, spreading joy and helping the little ones learn about the color blue through creative play.

### Father's Day Celebration at DPS, Dhenkanal

Father's Day was celebrated on 19th July 2025 for Nursery and Prep students with fun and affection. Fathers joined their children for interactive games and creative activities, making it a delightful and memorable occasion that strengthened their emotional bond.

### Ganesh Puja at DPS, Dhenkanal

On 27th August 2025, DPS Dhenkanal celebrated Ganesh Puja with devotion and grandeur. The school was adorned with rangolis and flowers, and a beautifully crafted idol of Lord Ganesha was worshipped with Vedic hymns and rituals. Principal Mr. Subrahmanya Kumar Sripada, teachers, and students participated in the Maha Aarti, followed by prasad distribution, symbolizing faith and togetherness.



On the occasion of 79th Independence Day, Synergy, Dhenkanal was honoured with the Highest Blood Donor Award, presented by the Collector of Dhenkanal.



Prof. (Dr.) Rayaguru A. K. Das, Prof. Dept of CSE, Synergy, Dhenkanal, delivered an talk on “AI, Big Data & The Future of Academia” in the National Seminar on "Converge 2025" organised by Ravenshaw University, Cuttack on 30th August 2025.



Ms. Shreya Nayak, 3rd yr of CSE Dept, Synergy, Dhenkanal receiving 2nd prize for English Debate on the eve of Independence Day



“Ek Ped Maa Ke Naam” Plantation Programme, organized by Synergy, Dhenkanal.



4th yr student of Dept of CE, Synergy, Dhenkanal Mr. Kanhajee Maharana has been selected for the East Zonal Final Round of the “UltraTech India Next Stimulus 2025” competition by UltraTech Cement Limited.



Tiranga RANGOLI Competition held on 8th August 2025 at Synergy, Dhenkanal as a part of celebration of 79th Independence Day & Har Ghar Tiranga Abhiyaan.

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