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25
Glorious
Years

Synergy Group of Institutions

Message from The Chairman.....

“Inner Positivity, Outer Peace”



In today’s fast-paced world, people often search for external solutions to ensure happiness, success, and peace—be it a perfect house, a favorable environment, or expert opinions. However, true positivity does not lie outside us; it begins within our own minds. This truth is beautifully reflected in a simple yet meaningful story of a gentleman and a Vastu expert. The gentleman purchased a ready-made house at a good price, complete with old mango trees in the backyard. Since his wife loved mangoes, he felt content and confident about his decision. Yet, influenced by a friend’s suggestion, he decided to consult a Vastu expert to check for any negative energy in the house. What followed was more revealing than any inspection. On their way to the house, several cars overtook them. Instead of reacting with irritation, the man

calmly slowed down, reasoning that the others might be in a hurry. Later, when a child suddenly ran across the road, he stopped the car patiently. Anticipating that children often play in groups, he remained alert, and indeed, another child crossed moments later. Observing all this, the Vastu expert was deeply impressed. He realized that the man’s calmness, empathy, and presence of mind reflected a genuinely positive attitude. The expert concluded that there was no need to examine the house at all. A person who thinks positively and acts with patience naturally creates a positive environment around him. This story carries a powerful message, showing that inner positivity shapes our experiences more than external factors. Technical knowledge and skills are essential, but attitude plays an equally vital role in shaping our careers and lives. A positive mindset helps us handle pressure, make better decisions, and work effectively with others. Ultimately, true positive energy does not come from buildings, objects, or external arrangements. It comes from clean thoughts, balanced emotions, and a calm approach to life. When the mind is positive, every place becomes positive—and every challenge becomes an opportunity.

(Binod Dash)

Chairman & Managing Trustee, Synergy Group of Institutions

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DHENKANAL



BHUBANESWAR

Seminar cum workshop at Synergy, Bhubaneswar Department of Computer science and Engineering

A student development initiative on “Retrieval-Augmented Generation and Ethical Considerations in Generative AI” was successfully conducted by the Dept. of CSE, under the CSE Society at Synergy Bhubaneswar, on 17-12-2025. The programme commenced with a welcome address by Tapasi Das, HOD, CSE. Resource person from Edunet, Mr Deepneel Majumdar explained how Retrieval-Augmented Generation enhances the accuracy and reliability of generative AI by grounding responses in trusted data, while ethical considerations promote fairness, transparency, privacy and responsible use of AI-generated content. Dr. Aswini Kumar Mohanty Principal encouraged students to actively participate and make the most of such academic initiatives.



An ICT Academy training program on “Advanced IT Skills” was conducted by Dept. of CSE, under the CSE Society, at Synergy

Bhubaneswar from 28-10-2025 to 20-11-2025. The training was delivered by Mr. Anand Shankar, ICT Trainer, with the objective of enhancing student’s practical knowledge and industry-relevant IT competencies.



Department of Mechanical Engineering

A National Seminar on “Innovative Technological Solutions for Sustainability 2025 (ITSS-2025)” was successfully organized by the Dept. of ME at Synergy, Bhubaneswar from 29th - 31st December 2025, in collaboration with the Indian Society of Mechanical Engineers (ISME) and Indian Institute of Technology, Delhi.



The seminar was inaugurated by the Chief Guest, Professor Prabhat Kumar Raoul, Hon’ble Vice-Chancellor, Odisha University of Agriculture and Technology (OUAT), Bhubaneswar. The seminar featured eminent keynote and invited speakers, including Prof Sandeep Pattnaik, Associate Professor, School of Earth, Ocean and Climate Sciences, IIT, Bhubaneswar; Prof Saroj Kumar Sarangi, Professor (ME) and Registrar, National Institute of Technology, Jamshedpur; Prof. Lipishree Das, Dept. of Economics, Ravenshaw University, Cuttack; Prof. Ramesh Chandra Nayak, Post-Doctoral Fellow, Dept. of Science and Technology, GoI, and Prof. and Head, Dept.



of ME, Synergy, Bhubaneswar. Ms. Sai Snata Dash, Founder and Chief Executive Officer, Gracian.

Dept. of ME, Synergy, Bhubaneswar Conducted 3 days Faculty Development Program” on “Autodesk fusion 360” Training sessions conducted by Twin tech Trainers. Date: 17/10/2025 to 18/10/2025. Dept. of ME, Synergy, Bhubaneswar conducted a training program on “Design Modelling using Ansys for ME students on 29/10/2025.

Department of Civil Engineering

The Dept. of CE successfully organized six-days online faculty development programme on “**Revolutionizing Construction with Sustainable Advanced Materials**”, sponsored by AICTE - ATAL Academy New Delhi, from 10th to 15th November 2025 at Synergy, Bhubaneswar.

Resource Person: Dr. Shishir Kumar Sahu (National Institute of Technology (NIT), Rourkela), Dr. Venkatesh Kumar R Kodur (Michigan State University), Dr. Lakshmi Vara Prasad M (National Institute of Technology (NIT), Silchar), Dr. Priyadarshi Das (Institute of Technical Education and Research, ITER), Er. Shyama Sundar Mishra, (Regional Technical Head, Ultra-Tech Cement), Dr. P Guru Raju (GM, Quality Excellence Cell Afcons Infrastructure Limited) Er. Pritam Chetan Pothal (Superintending Engineer, Nimapara Irrigation Division, Govt of Odisha), Er. Somya Ranjan Nayak (Area Head, East zone, UltraTech Cement, Building Product Division).



Newsletter

Seminar cum workshop at Synergy, Dhenkanal Department of Computer science and Engineering

The Dept of CSE organized a 5-day NITTTR, Kolkata sponsored Special In-House Short Term Training Program (STTP) on Artificial Intelligence and Machine Learning” from 10th to 14th November 2025. The Convener of the Program was Dr. Prashanta Kumar Nayak, Director and Co-convener was Prof. Smruti Ranjan Dash, HOD, CSE, Synergy, Dhenkanal. The Resource Persons for the program were Dr. Kaki Venkat Rao and Dr. Jagadeesh M.S. of NITTTR Kolkata and Dr. Srinivas Sethi of IGIT, Sarang. A total of 26 staff participated in the program. The Program was enriching for the participants to help in their professional development.



Department of Chemistry

The Dept of Chemistry, Synergy, Dhenkanal successfully conducted an AICTE sponsored ATAL Faculty Development Program on **Holistic Utilization of Industrial and Agricultural Waste for Sustainable Environment** from 27th October to 1st November 2025. The program aimed at promoting sustainable practices through innovative utilization of industrial and agricultural waste. The AICTE-ATAL Faculty Development Program at Synergy, Dhenkanal, commenced with a warm welcome speech by Dr. P.K. Nayak, Director, Synergy, Dhenkanal. This was followed by an insightful address on the program by Dr. I. Mohanty, Director (Admin) Synergy, Dhenkanal. The theme of the FDP was introduced and elaborated by Dr. Subhakanta Dash, Asst Prof and HoD, Dept of Chemistry, Synergy, Dhenkanal. The Guest of Honour, Dr. Bhardwaj Nanda, Asso. Prof, Dept of Civil Engineering, BPUT, Rourkela, Odisha, addressed the participants, followed by the Chief Guest, Dr. Sanjay Kumar Patro, Professor and Head, Dept of Civil Engineering, VSSUT, Burla. Apart from that several eminent experts joined as Resource Persons were Dr. Subash Chandra Mallick, Dr. Chittaranjan Mishra, Dr. Nabin Kumar Dhal, Dr. Syed Mohammed Mustakim, Dr. Biswabandita Kar, Dr. S.K. Biswal, Dr. Nihar Ranjan Singh, Dr. Ambikesh Kumar Mishra, Dr. Bidyapati Sarangi, and Dr. Debidutta Das. Dr. M.P. Das, Principal SISM and Mr. P.K. Nayak, Principal SSE, encouraged the participants and felicitated the guests. The event was followed by the Technical Session, Hands-on sessions and industrial visits, including Utkal Asbestos, Dhenkanal, provided practical exposure to asbestos waste utilization, its manufacturing process, and other waste management technologies. Discussions highlighted research on ferrochrome wastes, graphene oxide composites, biochar adsorbents, fly ash-based geopolymer mortars, and various waste treatment methods. The overall programme was efficiently coordinated by Administrative Officer Mr. C.K. Mishra. The FDP concluded with inspiring addresses by Dr. Subhakanta Dash, HoD Chemistry, and vote of thanks by Dr. J. Singh, HoD Physics. Special thanks were extended to Mr. Binod Dash, CMT, Synergy Group, for allowing the program to be hosted. This program successfully bridged academic knowledge and industry practices, equipping participants with strategies for sustainable environment solutions.



Department of Mechanical Engineering



The Dept of ME, Synergy, Dhenkanal, organized a National Workshop on “Advance designing software” on 22nd & 23rd October 2025, with Mr. Niranjan Kumar Singh, Managing Director TWINTECH, BBSR as the distinguished speaker, under the convenorship of Mrs. Sushri Sangita Mahapatra, Asst Prof. Dept of ME, Synergy, Dhenkanal. Synergy School of Engineering, Dhenkanal, organized a Guest Lecture Session on 27th October 2025. The session was delivered by Dr. Chandra Kanta Mishra, Professor & Head, Department of Mechanical Engineering, KIST, Jatani, Bhubaneswar. The lecture was informative and enriching, and it provided valuable insights to the students and faculty members.



Department of Civil Engineering

The 84th Annual Session of the Indian Roads Congress (IRC) was held at Janata Maidan, Bhubaneswar, from 07th to 10th November 2025, focusing on the theme “Key Advancements in Highway Technology and Policy.” The Faculty members and students of CE Dept participated and visited the Project Exhibition on 10/11/2025 and explored various innovative projects, modern construction technologies, sustainable materials, advanced highway engineering solutions, and smart transportation systems showcased during the exhibition. The visit provided valuable exposure to real-world applications, recent technological advancements, and emerging trends in highway engineering, significantly enhancing the students’ practical knowledge and industry awareness.

Department of Electrical Engineering

The students of 3rd, 5th and 7th semester of Electrical Engineering visited Grid Substation of 132/33KV at Kharagprasad on dated 18-10-2025. The students of 3rd, 5th and 7th semester of Electrical Engineering visited Hydroelectric power plant of 250 MW at Rengali on dated 09-11-2025

Blood Donation Camp & Awareness Programme at Synergy, Bhubaneswar

A Blood Donation Camp and Awareness Programme on Cyber Crime and *Jiban Jindabad* was successfully organized on 11th November 2025 at Synergy Institute of Technology and Synergy Polytechnic, Bhubaneswar. The programme was jointly organized by the Indian Red Cross Society, Regional Branch, Commissionerate Police, Bhubaneswar–Cuttack, in collaboration with Synergy, Bhubaneswar. The event witnessed active participation from faculty members, staffs, and students. As part of the blood donation drive, 70 units of blood were successfully collected. The awareness session on Cyber Crime and *Jiban Jindabad* sensitized students about digital safety, responsible citizenship, and social well-being.



Green Skills Passport Programme at Synergy, Bhubaneswar

Green Skills Passport Programme – an Online Training Session on Sustainability, Entrepreneurship and employability was conducted at Synergy Bhubaneswar in collaboration with Microsoft Learning Link Foundation and EY Ripple at the Seminar Hall on 19th November 2025. 150 3rd Semester Students of CE, ME, EE and CSE Dept successfully completed the training programme and received the certificates under the guidance of the Trainer, Mr Prakash Chandra Routray. The programme was Coordinated by Ms Priyanka Priyadarshini (Asst. Prof. Management) and Ms Subhasmita Dash (Asst. Prof. Management).



Book Exhibition cum Display at Synergy, Bhubaneswar

A Book Exhibition cum Display was organized on 18th and 19th of November, 2025 in the Reading Room of Central Library at Synergy, Bhubaneswar. Books displayed were in Nine Categories and almost 300 students and all the staffs visited the exhibition.



Graduation Day at Synergy, Dhenkanal

The Graduation Day Ceremony was organised by our Institute on 27th December 2025 at the Institute campus. The ceremony marked a proud celebration of success for students who had traversed the challenging path of academics and emerged accomplished. Adding grace to the occasion, an eminent personality, Prof. (Dr.) Anand Pradhan, Regional Director, IIMC, was invited as the Chief Guest. The programme began on an auspicious note with the BPUT Anthem. The Welcome Address was delivered by the Director, Dr. P. K. Nayak, followed by an insightful address on the theme of the event by the Director (Administration), Dr. Itishree Mohanty. Both dignitaries warmly welcomed the guests, parents, and students, expressed their sincere gratitude for everyone's presence, and congratulated the graduating students on the successful completion of their academic journey. In his inspirational address, Prof. (Dr.) Anand Pradhan motivated the students to become responsible professionals and conscientious citizens of the nation. He emphasised that while institutions may differ in size or location, it is not the pincode that defines an individual; rather, it is one's qualities, values, integrity, and commitment that truly shape personality and success. He encouraged the graduates to dream big, remain focused, and work diligently towards achieving their goals. Dr. Jayashree Singh, Controller of Examinations, addressed the gathering and proposed the vote of thanks. More than a hundred graduating students received their certificates in full graduation attire, with gowns and caps, capturing memorable and candid moments that reflected the joy, pride, and significance of this grand occasion.



SYNETIC Club | Art & Photography Competition at Synergy, Dhenkanal

We are delighted to share that the Art & Photography Competition, organized by SYNETIC – The Art & Photography Club, was successfully conducted on 4th December 2025 at Synergy Institute of Engineering & Technology. The event received an enthusiastic response from students across various departments. Participants showcased exceptional creativity in the On-Spot Painting Competition on the theme “Express Your Imagination” and the Photography Competition on the theme “Capture the Unseen.” The event was graciously attended by Dr. P. K. Nayak (Director), Dr. I. Mohanty (Director Administration), Dr. M. K. Debta (Coordinator), and all the esteemed club members, whose presence greatly motivated the participants. Prizes were awarded to the winners from both categories for their outstanding artistic talent and visual storytelling. The event also marked the induction of new members into the SYNETIC Club, strengthening our creative community and encouraging more students to explore their passion for art and photography.



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Student Induction Program at Synergy, Dhenkanal

As a part of Student Induction program 2025 model village visit and picnic was organized at Anshupa for the 1st year students of 2025-26 batch to foster social bonding between peers and mentors on 19th October 2025. Along with that more than 200 students visited Arati Steel Plant at Khunti, Paschimswar temple at Bhapur, Old age home and Special school at Govindpur along with senior representatives of different years. This year SIP visit was organized successfully by the coordinator Dr J. Singh along with the staff members of UHV cell of the Institute.



Annual Athletic Meet at Synergy, Dhenkanal

Synergy, Dhenkanal, successfully conducted its Annual Athletic Meet on the 17th and 18th of October, 2025. The event witnessed enthusiastic participation and showcased the athletic talents of students across various disciplines. The inauguration ceremony was graced by the presence of Dr. P.K. Nayak (Director), Dr. Itishree Mohanty (Administrative Director), Mrs. J. Sivakami (Principal, B.Sc. Nursing), and Mr. P.K. Nayak (Principal, Diploma). Their inspiring words set the tone for the energetic and competitive spirit of the meet. Students actively took part in multiple track and field events, including the 100 meters, 200 meters, 400 meters, long jump, high jump, and shot put, among others. The atmosphere was vibrant with cheers and encouragement from peers and faculty alike. The valedictory function was marked by the presence of the Chief Guest, Mr. Sudhanshu Sekhar Sahoo, who felicitated the winners with prizes and certificates. The event concluded with a vote of thanks delivered by the Mr. Siddharth Dash, VC(Sports) who appreciated the efforts of the organizing committee, faculty members, and students for ensuring the smooth and successful completion of the event.



CBBO Activities of Synergy, Dhenkanal

The AGM of Pallahara Farmers Producer Company Ltd. was held on 6th October 2025 at Jhimiripali, Angul, with the enthusiastic participation of over 250 farmers. The meeting reviewed the year's progress, business plans, and future strategies for farmer income enhancement. Eminent guests Aditya Narayan Patra (Sr. Agronomist), Gouri Sankar Sahoo (Scientist), Prof. from OUAT, Manas Ranjan Dash (Agronomist), and CBBO team members shared valuable insights on modern farming practices and market linkages. Supported by CBBO: Synergy Institute of Engineering & Technology, Dhenkanal under NABARD's Central Sector Scheme — a strong step towards Farmer Empowerment and Agri-Business Growth!



Students Achievements of Synergy, Dhenkanal

It is a moment of immense pride for us to share that Ms. Rojalin Pattanaik, a distinguished alumna of our 2017 Civil Engineering batch, has successfully cleared the OPSC OCS 2023 examination, securing an impressive Rank 196. Your remarkable achievement is a testament to your dedication, perseverance, and excellence. You have made the entire Synergy family proud! We wish you continued success in all your future endeavors and hope your journey inspires many more Synergians.



Heartiest congratulations to our Final Year CSE students Mr. Kalpit Dash, Mr. Asit Jena, and Mr. Gyana Ranjan Behera, and to Dr. S. Abinash, Associate Professor, CSE, for serving as the mentor, on their remarkable success in the BPUT Hackathon 2025. Your outstanding performance and innovative contributions have earned you the 3rd Prize, bringing pride and recognition to the department and the institution. Your dedication, teamwork, and perseverance are truly commendable. Wishing you many more achievements and greater heights in your future endeavours.



Students Achievements of Synergy, Bhubaneswar

Projects of 4 Students from Dept. of ME, Synergy, Bhubaneswar have been selected for the final round of the prestigious International Project Competition- Anveshana 2025-26.

“Development of a Track Guided Autonomous Robot for Medical Logistics in Operating Theaters”

by Abhisek Krupasindhu Majhi, Debadatta Rout, Sanjeev Kumar Bage, SouravSekharSahoo, and Rajesh Mohanty, Students of Dept. of ME, Synergy, Bhubaneswar, was included as a book chapter in IC4M published by Taylor and Francis: CRC Press. The chapter has been accepted and presented.

Project titled “A novel irrigation system with pendulum attachment “ by Mr. Nilakantha Maharana and Mr.Kamal Lochan Padhan, students of Dept. of ME, Synergy Bhubaneswar secured 2nd prize in BPUT Project exhibition 2025. A total of 150 projects participated in the project exhibition.

Synergy School of Engineering, Dhenkanal Achieves Prestigious QCI Ranking

Synergy School of Engineering, Dhenkanal, has proudly secured the 19th position in the QCI rankings, demonstrating outstanding performance among engineering institutions across Odisha. This notable accomplishment stands as a testament to the collective dedication, perseverance, and unwavering commitment of the entire Synergy family. On this proud occasion, the Principal, Prof. Pabitra Kumar Nayak, extended his heartfelt congratulations to all staff members for their cooperation, sincerity, and relentless hard work. He acknowledged their invaluable contributions towards achieving this milestone and motivated everyone to continue fostering the same spirit of teamwork, excellence, and dedication in the years ahead. The Management and Administration also convey their best wishes to all staff members and express confidence in continued collaboration and commitment as the institution strives to reach even greater heights in the future.



Training Program by Staff & Students of SISM, Dhenkanal

A two-day hands-on training program on cancer biology was held at Heredity Bioscience, Bhubaneswar. The training, titled “Genetic Signature: How Molecular Signatures Redefine Early Cancer Identification,” was attended by Mrs. Lopisa Brahma (Lecturer), and Dr. Laxminandan Satpathy (Asst Prof), and **Bsc** 2nd and 3rd-year students from the Dept of Zoology of the Synergy Institute of Science and Management.



Blood Grouping Test by SISM, Dhenkanal

A blood grouping test was successfully conducted by the students of the Dept of Zoology, SISM, Dhenkanal, on 22nd November 2025 under the proper guidance and supervision of the department faculty as part of a health awareness and social responsibility initiative. The students actively participated in organising and carrying out the tests, ensuring safe and hygienic procedures throughout the process. “This initiative helped many individuals identify their blood group and Rh factor, which are crucial in medical emergencies.



Campus Recruitment Drive by our Alumuns at Synergy, Dhenkanal

Mr. Samaya Kumar Muduli, esteemed alumnus of Synergy, Dhenkanal and CEO of CredenceSoft Ltd., graciously conducting the campus recruitment drive for our final-year Computer Science and Engineering students. On behalf of Synergy Family, we extend our heartfelt gratitude to him and his presence on campus was truly inspiring, and we deeply appreciate the time and effort he devoted to guide and evaluate our students. His valuable insights, encouragement, and professionalism created a remarkable learning experience for all participants. It was an honour to witness one of our distinguished alumni return to support the next generation, reinforcing the strong bond between our institution and its graduates. We look forward to many more collaborations in the future.



Felicitation of the Institute and the Students of Synergy, Dhenkanal

On the occasion of the 138th Birth Anniversary of Sri Sri Thakuranukulchandra, Talabarakota Divine Institute invited the students of Synergy Dhenkanal to participate in the commemorative programme held on 19th September 2025. On this auspicious occasion, both the Institute of Synergy Dhenkanal and its students were honoured and felicitated by the organizing institute. The students actively participated in various events conducted during the programme and were awarded participation certificates in recognition of their enthusiastic involvement. The event proved to be a spiritually enriching and memorable experience for all.



Newsletter

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

Textbook International Publication: Ramesh Chandra Nayak et al. Sustainable Rural Development: Technology for rural Communities, International Publication CWP, Australia, ISBN (print): 978-1-922617-77-4 Central West Publishing PTY LTD (ABN 13 683 898 722), Published/2025/ Pages 211.

Ramesh Chandra Nayak et al. Experimental investigation and theoretical analysis of inclined tubes with and without internal rings for natural convection in an energy efficient stove(2025) Discover ME, 4 (1), art. no. 59 DOI: 10.1007/s44245-025-00151-1.

Ramesh Chandra Nayak et al. Design of an innovative fuel-efficient stove for reducing air pollution and enhancing sustainability(2025) Environmental Progress and Sustainable Energy, 44 (5), art. no. e70022 DOI: 10.1002/ep.70022.

Ramesh Chandra Nayak et al. Design and Development of a Smokeless Stove for Environmental Protection of Smart City(2025) Indian Journal of Environmental Protection, 45 (7), pp. 670 – 676.

Ramesh Chandra Nayak et al., Application of Industry 4.0 for Enhancing Climate Compliant Irrigation System in Agriculture(2025) Communications in Computer and Information Science, 2207 CCIS, pp. 92 – 101. DOI: 10.1007/978-3-031-74440-2_9.

Ramesh Chandra Nayak et al. Epicyclic Gear Train-Based Device to Harvest Electric Energy from Pressure Energy Towards Sustainable Environment(2025) Lecture Notes in Electrical Engineering, 1271, pp. 61 – 68 DOI: 10.1007/978-981-97-7921-5_5.

Ramesh Chandra Nayak et al..An innovative irrigation system for farming towards environmental sustainability in India(2025) Environmental Progress and Sustainable Energy, 44 (1), art. no. e14500 DOI: 10.1002/ep.14500.

Ramesh Chandra Nayak et al..Natural Convection Heat Transfer Through Composite Aluminum Heated Tube(2025) Springer Proceedings in Materials, 72, pp. 525 – 533 DOI: 10.1007/978-981-96-5281-5_45.

Ramesh Chandra Nayak et al..Enhancement of natural convection heat flow from the heated source through vertical tube with internal rings(2025) Materials Research Proceedings, 49, pp. 21 – 28 DOI: 10.21741/9781644903438-3.

Patent Publication (IPR): Ramesh Chandra Nayak et al, Pendulum operated water withdraw mechanism from underground water resources in order to support irrigation work for smallholder farming communities. Patent Published, Application Number: 202531006619, Patent office Journal Number: 15/2025.,

Design Patent Grant (IPR): Synergy Institute of Technology, Dr. Ramesh Chandra Nayak, Mr. Debasis Bhujabal Irrigation device with gear and flywheel, Design Application No. 473136-001, Design patent grant, 10 September 2025 under class number 15-03, Certificate Received, Serial No: 213990, 28/11/2025.

Patent Publication (IPR): Dr. Ramesh Chandra Nayak, Mr. Jiban Jyoti Sahoo, Mr. Aswini Prusty, Mr. Debashis Behera, Laboratory level integrated mechanical power transmission device for research and education, IP INDIA, Patent Published, Application Number: 202531103627 A, Date of filing of Application: 28/10/2025, Publication Date: 07/11/2025. <https://search.ipindia.gov.in/IPOJournal/Journal/View> Journal, The Patent Office Journal No. 45/2025 Dated 07/11/2025, 109522

Patent Publication (IPR): Ramesh Chandra Nayak et al, A process for preparing ceramic core natural fiber-reinforced polymer composite and its prepared structure thereof, IP INDIA, Patent Published, Application No. 202531108526 A, Date of filing of Application : 08/11/2025, Publication Date: 12/12/2025. The Patent Office Journal No. 50/2025 Dated 12/12/2025.

Dr. Priyabrata Pradhan, HoD, Asst. Prof., Dept of ME, Synergy, Dhenkanal, have a patent titled “Onboard nitrogen separation device for internal combustion engines and another patent titled “An Artificial Intelligence Based Robotic Biogas Plant With Rotating Mirror For Domestic Applications”

Mr. Debasis Rout, Asst. Prof., Dept of ME, Synergy, Dhenkanal, have two book chapters titled “ Role of agroforestry system in organic farming” in *Insights into Organic Farming* and “Government schemes and programmes for Women Agripreneurship” in *SHE-PRENEURSHIP*.

Mrs. Chandana Subudhi, Asst. Prof., Dept of ME, Synergy, Dhenkanal, participated and presented a technical paper titled “ Effect of inlet temperature of jet burner using syn-gas” in 6th International Conference on Recent Advances in Mechanical Engineering Research & Development (ICRAMERD-2025) held from 19th-20th December 2025 organised by Dept of ME, ITER, Bhubaneswar.

Faculty Achievements by the staff of Synergy ,Dhenkanal & Synergy ,Bhubanswar

Post Doctoral Achievement: Dr. Ramesh Chandra Nayak, Head of Dept. of ME, Synergy, Bhubaneswar successfully completed the Chanakya Post Doctoral Fellowship under the National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS), supported by the Dept. of Science and Technology (DST), Government of India, through iHub Anubhuti–IIIT Delhi Foundation, Post Doctoral Research Title: Design and development of continuous irrigation system by mechanical concept without any external sources. Fellowship Duration: November 2023 – May 2025. The research work was carried out under the valuable guidance of Prof. (Dr.) Manmatha Kumar Roul, Professor and Principal, GITA, Bhubaneswar.

Dr. Ramesh Chandra Nayak, Head of Dept. of ME, Synergy, Bhubaneswar received Elsevier Peer Review Assignment for Journal: Next Research, Publisher: Elsevier. and received complimentary access of ScienceDirect, Scopus, and Reaxys.

Dr. Ramesh Chandra Nayak, Head of Dept. of ME, Synergy, Bhubaneswar has received Complimentary access to the Begell House Digital Library, one of the world’s leading publishers in heat transfer, thermal sciences, and energy system research. Begell House, Inc. is a premier international publisher specializing in engineering, heat transfer, fluid mechanics, and applied sciences.

Dr. Ramesh Chandra Nayak, Head of Dept. of ME, Synergy, Bhubaneswar completed the review for Submission Title: AI in Climate Science: Machine Learning for Environmental Modeling and Prediction, Bentham Science Publishers.

Dr. Ramesh Chandra Nayak, Head of Dept. of ME, Synergy, Bhubaneswar has been assigned as Technical Reviewer at the IEEE International Conference on Women in Computing (INCOWOCO 2025) held at G H Raisoni College of Engineering and Management, Pune.

Dr. Ananta Kumar Sahoo HoD, Electrical, Synergy School of Engineering, Dhenkanal was awarded the Doctor of Philosophy (Ph.D.) degree in Electrical Engineering at the 6th Convocation of C.V. Raman Global University (CGU), held on 23rd December 2025. The degree was conferred in recognition of his significant research contributions and academic excellence in the field of Electrical Engineering marking an important milestone in Dr. Sahoo’s academic and professional journey.

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

Miss Priyanka Priyadarshini, Asst. Prof. in the Dept. of Management, Synergy, Bhubaneswar presented a paper in National Conference on “Role of Employee Wellbeing and Resilience in developing Sustainable Organization in IT Industry in India” on 24th - 25th October 2025 organized by School of Management DRIEMS UNIVERSITY, Tangi, Cuttack

Miss Priyanka Priyadarshini, Asst. Prof. in the Dept. of Management, Synergy, Bhubaneswar presented a paper in International Seminar on “Digital Transformation in Human Resource Management in IT Industry” on 2nd – 3rd November 2025 organized by Dept. of Commerce at Ravenshaw University, Cuttack.

Dr. Ramesh Chandra Nayak, Head of Dept. of ME at Synergy, Bhubaneswar completed “Workshop Module, Research Integrity and Publication Ethics - Addressing current trends and challenges through technology and policy, 26 November, 2025, by Elsevier Researcher Academy, Elsevier.

Ramesh Chandra Nayak, Head of Dept. of ME at Synergy, Bhubaneswar completed and received certificate for “Roadmap for Success: Mastering Strategy Formulation with Chat GPT” NPTEL online certificate course and Workshop.

Naresh Patra, Asst. Prof. in the Dept. of ME at Synergy, Bhubaneswar completed and received certificate for “Sustainable innovative techniques for better future” online FDP certificate organized by K.L.N College of Engineering.

Naresh Patra, Asst. Prof. in the Dept. of ME at Synergy, Bhubaneswar completed and received certificate for “Exploring the future of ME Trends, Tools and Techniques” online FDP certificate organized by J.P College of Engineering.

Sudhansu Sekhar Singh, Asst. Prof. in the Dept. of ME at Synergy, Bhubaneswar completed and received certificate for “Fundamentals of Manufacturing Processes” NPTEL online certificate course and FDP. Secured 61% July-October 2025.

Sudhansu Sekhar Singh, Asst. Prof. in the Dept. of ME at Synergy, Bhubaneswar completed and received certificate for “Sustainable innovative techniques for better future” online FDP certificate organized by K.L.N College of Engineering.

Mr. Naresh Patra, Asst. Prof. in the Dept. of ME at Synergy, Bhubaneswar, “Fluid Flow & Heat Transfer Analysis Between Aluminum Parallel Plates by Natural Convection Heat Transfer” presented a paper at the 1st International Conference on Thermofluids Engineering, organized by the Indian Institute of Technology (Indian School of Mines), Dhanbad.

Sujeet Kumar Nayak, Asst. Prof. in the Dept. of CSE, Bhubaneswar presented paper on “Psychological state detection in Indian women’s speech using optimised quantum neural network” in 6th international conference on data engineering and communication technology in Bhubaneswar engineering on 1-12-2025 to 2-12-2025.

Mr. Chandan Kumar Behera, Asst. Prof., CE Dept. attended a 6 days Online FDP on “CE5.0: Integrating Sustainability, Intelligence, and Innovation” organized by Dept. of Civil Engineering, Atria Institute of Technology, Bengaluru, in collaboration with Carbon Craft Design during 17th November 2025 to 22th November 2025.

Mr. Chandan Kumar Behera, Asst. Prof., CE Dept. attended a 6 days Online FDP on “Revolutionizing Construction with Sustainable Advanced Materials” organized by Dept. of CE at Synergy Bhubaneswar during 10th November 2025 to 15th November 2025.

Mr. Chandan Kumar Behera, Asst. Prof., CE Dept. attended a 6 days National Level virtual FDP on “Reimagining the future: cutting edge innovations in AI&ML” organized by Dept. of Information Technology, Lords institute of Engineering and Technology, Hyderabad during 15th December 2025 to 20th December 2025.

Dr. Jayashree Singh Professor and HOD Physics has attended as a delegate in the 10th International Conference on Human Values in Higher Education (ICHVHE) between 19th to 24th December 2025.

Mrs. Sushri Sangita Mahapatra, Mrs. Chandana Subudhi, Mr. Debasish rout, Dr. Malaya debta & Mr. Bijanananda Mishra department of mechanical engineering have successfully completed five-days ATAL sponsored fdp on “Holistic Utilization of Industrial and Agricultural Waste for Sustainable Environment” from 27/10/25 to 01/11/25 organized by SIET, Dhenkanal.

Prof. S.S. Pati, Dr. L Dhall Samant (Asso. Prof), Ramakanta Mahanta (Asst. Prof.), Ellora Das (Asst. Prof.), & Sanjay Sathua Mohapatra (Assistant Prof.) had attended one week AICTE Training And Learning (ATAL) Academy Faculty Development Program on Holistic Utilization of Industrial and Agricultural Waste for Sustainable Environment, organized by Synergy Institute of Engineering & Technology, Bhubaneswar from 27th October to 1st November 2025.

Prof. S.S. Pati, Dr. L Dhall Samant (Asso. Prof), Ramakanta Mahanta (Asst. Prof.), Ellora Das (Asst. Prof.), & Sanjay Sathua Mohapatra (Assistant Prof.) had attended three days Seminar under AICTE - Vibrant Advocacy for Advancement and Nurturing of Indian Languages (VAANI) on Energy forecasting driven by AI for solar and wind energy charging stations for electric vehicles in Oriya language organized by Synergy Institute of Engineering & Technology, Bhubaneswar from 13th to 15th November 2025.

Ramakanta Mahanta (Asst. Prof.), Ellora Das (Asst. Prof.), & Sanjay Sathua Mohapatra (Assistant Prof.) had attended one week AICTE Training And Learning (ATAL) Academy Faculty Development Program on Next-Gen Aerial Communication: Integrating AI and Drone Technologies organized by Aryan Institute of Engineering & Technology from 13th to 18th October 2025.

Ramakanta Mahanta (Asst. Prof.), Ellora Das (Asst. Prof.), & Sanjay Sathua Mohapatra (Assistant Prof.) had attended one week AICTE Training And Learning (ATAL) Academy Faculty Development Program on Revolutionizing Construction With Sustainable Advanced Materials organized by Synergy Institute of Technology from 10th to 15th November 2025.

Mrs. Sushri Sangita Mahapatra, Mrs. Chandana Subudhi, Mr. Debasish rout, Dr. Malaya debta & Mr. Bijanananda Mishra department of mechanical engineering have successfully completed five-days ATAL sponsored fdp on “Holistic Utilization of Industrial and Agricultural Waste for Sustainable Environment” from 27/10/25 to 01/11/25 organized by SIET, Dhenkanal.


Dr Brahmanand Sahoo, Faculty, Dept of Management has attended Investor Connect Program on 11th November 2025 at O-Hub, Odisha Startup Incubation Centre.

Ms Kalpana Sahu, Asst. Professor, Dept of Management has attended “Startup Orientation” session by BPUT on 30th October 2025.

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Training & Placement at Synergy, Dhenkanal & Bhubaneswar

During this academic year, 665 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 October to December 2025.

SYNERGY, DHENKANAL			SYNERGY, BHUBANESWAR
Date	Company Name	No. of students	
13.09.25	ANGO Digital	09	
04.09.25	AMPIN Energy	13	
28.11.25	Credence Soft	03	

Alumni Talk at Synergy, Dhenkanal

The Department of Computer Science and Engineering in association with Synergy Alumni Association conducted a Alumni Talk on 04.10.2025. Dr. Sitanshu Sekhar Sahu, Head (ICT Cell), Associate Professor, Dept. of Electronics & Communication Engineering Birla Institute of Technology, Mesra, Ranchi delivered the talk on “Current Trends in Academia and Research”. He is the alumni of Synergy, Dhenkanal (2001-2005 Batch).



Alumni Talk at Synergy, Bhubaneswar

The Dept. of CE arranged an alumina talk on 11.10.2025 on Practical Insights of Project Estimation and Tendering Process by Er. Batakrushna Swain, Junior Engineer, Rural Works Division, PWD, Govt of Odisha (Batch: 2020-24).



Dept. of ME, Synergy, Bhubaneswar organised an alumni talk on 13.11.2025 by Mr. Abhisek Chatarjee on The Topic “Class Room To Shop Floor Journey To Automobile Industry”.



Expert Talk at Synergy, Dhenkanal

The Dept of CE, Synergy, Dhenkanal, organized an expert talk on 11/11/2026 by Dr. Suprabeet Datta, Assistant Professor, School of Construction and Technology (SoCT), NICMAR University of Construction Studies, Hyderabad on the topic Assessment of Capacity & Level of Service for Suburban Uncontrolled Intersections.



Expert Talk at Synergy, Bhubaneswar

The Dept. of CE arranged one day Expert Talk on 4th November 2025 on “**ICONIC Redevelopment of SCB MCH Infrastructure to AIIMS+ by Kallol K Pradhan** (Superintending Engineer, OBCC Limited, Bhubaneswar, Govt. of Odisha)

The Dept. of CE arranged one day Expert Talk on 25th October 2025 on “**Construction Technology and Management** by Er. Shivansh Dwived, Senior Engineer (Afcon Infrastructure Limited).



Seminar/Workshop/Conference Attended by the Teachers of DPS, Dhenkanal

CBP Workshop

Capacity Building Program was conducted on the topic ‘Learning Outcomes and Pedagogies’ on 11th Oct, 2025 by resources person, Subhashree Debasmita, PGT Biology from BJEM-II and Mr. Prasanta Kumar Panda from Gurukul Public School Jajpur in which 40 teachers participated. The programme aimed at capacity building of teachers through innovative pedagogies and learner-centered teaching strategies. Pedagogical Approaches used were •Activity-Based Learning •Collaborative Learning •Experiential Learning •Use of ICT and Digital Tools Teachers became familiar with child-centred and competency-based teaching methods. The Building Programme proved to be highly beneficial for both teachers and students.

Sl.	DATE	NAME OF THE TEACHER	TOPIC
1	14th - 16th Oct, 2025	Mrs. Anupama Rout, TGT Social Science.	Rural and Urban Administration, Gender and Marginalisation
2	27th Oct, 2025	Ms. Jyoti Prava Rath, TGT Social Science	Socio-Economic Background of Bhakti Movement
3	27th & 28th Oct, 2025	Ms. Leela Biswal, TGT Social Science	Understanding Competency-Based Assessments in Social Sciences
4	28th Oct, 2025	Ms. Anupama Rout, TGT Social Science	Pedagogy of Social Sciences; Rethinking Teaching Learning Sources
5	29th Oct, 2025	Ms. Afrin Hakim, TGT Social Science	Climate and Climatic Components of India: Seasonal & Regional Perspectives

Student Achievement of DPS, Dhenkanal

We are proud to announce that The Climate Reality Project (India & South Asia) organized the Students Climate Action Conference – 2025, where two students from our school represented DPS DHENKANAL for the first time ever. Our Grade IX students---Nitish Kumar Rout & Saswat Kumar Kabi Satapathy participated in this prestigious international conference and presented a research project titled: Environmental Problems in Dhenkanal: A Strategic Framework and Actionable Roadmap for Building Heatwave Resilience in Dhenkanal District. We are delighted to share that their work was selected among the Top 11 entries internationally, marking a remarkable achievement not only for our school but also for the entire region.

In the Inter-School Badminton Tournament conducted by Sahodaya Schools Complex, Bhubaneswar, Areen Prusty (Std V C), Pratyush Mohanty (Std IX A), Archita Mohapatra (Std IX C) and Snehashree Das (Std XI B) represented the school.

Dibyangee Debasmita secured 1st Position in the District Level Geeta Chanting Competition at Tirupati Tirumala Sansthanam, Dhenkanal, and also won a consolation prize at the State Level Competition held from 26–28 December 2025 at Hariharananda Gurukulam, Puri, among 90 participants from all 30 districts of Odisha.

Snehashree Behera won 2nd Position in Solo Dance at Kapilash Mahotsav. During the District Level events marking the 150th Birth Anniversary of Sardar Vallabhbhai Patel, Arpita Priyadarshini (Std X) won 1st Position in Debate, Birajalaxmi Rout (Std IX) secured 1st Prize in Essay, and Pratyush Ku Sahoo (Std IX) won 1st Position in Painting.

Pratishruti Rout (VIII), Anshita Panda (VIII), Ananya Aradhya (VIII) and Ayushee Priyadarshini (VIII) participated in the slide show and quiz competition held at the Science Centre to celebrate Constitution Day.

In the Cyber Safety Awareness Campaign Debate competition at B.B. High School., Dhenkanal, Sreyas Saktismit (Std XI) and Arpita Priyadarsini (Std X) secured 1st Position in English and Odia respectively.

Bibhasindhu Barik won the Bronze Medal in Men’s Double SL3–SU5 category at the Odisha State Para Badminton Championship 2025–26. The achievers of CTSE are: Class XI Commerce—Yuvraj Mohapatra (1st), Amitesh Behera (2nd), Anurag Behera (3rd); Class XII Commerce—Siptita Brahma & Aditya Behera (1st), Nimisha Kar & Bibhasindhu Barik (2nd), Archita Panda & Shiv Prasad Umasankar (3rd).



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Constitution Day Celebrated at DPS, Dhenkanal

Delhi Public School, Dhenkanal celebrated Constitution Day on 26th November 2025 in the school auditorium with great enthusiasm and patriotic spirit, following the national theme “Hamara Samvidhan – Hamara Swabhiman” (Our Constitution, Our Pride). The programme commenced with the morning assembly led by Grade VIII students, highlighting the importance of the Indian Constitution and its core values—justice, liberty, equality, and fraternity. Mr. Subrahmanya Kumar Sripada, Principal, DPS Dhenkanal, along with the teachers of the Social Science Department, participated in the assembly. The celebration concluded with the entire school taking the Constitutional Pledge, followed by an inspiring message from the Principal.



Inter School Talent Search Competition at DPS, Dhenkanal

Delhi Public School, Dhenkanal, organised an Inter School Talent Search Competition on 16th November 2025 in the school campus and 30th November 2025 at Subhadeepa Kalyan Mandap, Athagarh. The competition was exclusively for Non-DPS school students, encouraging wider participation from various schools across the district. Students took part in four major competitions:

1. Quiz 2. Debate (English) 3. Drawing 4. Essay Writing (in Odia, Hindi, and English)

Participants were grouped into Junior and Senior categories for quiz and debate, while drawing and essay writing included Sub-Junior, Junior, and Senior groups to ensure fair participation according to age and class levels.



Memory Management Workshop at DPS, Dhenkanal

On 24th October, 2025, our students of grades VIII, X, and XII took a step towards excelling in the art of effective learning through an insightful ‘Memory Management Workshop’ planned by the Principal Subrahmanya Kumar Sripada. The session was led by Dr. Devi Prasad Mishra and esteemed guest speakers Mr. Arun Kumar Pati (Principal, Doon International School, Bhubaneswar), Mr. Atal Bihari Mallik, and Er. Pratap Kumar Behera (Academic Advisor), inspired students to explore practical techniques for enhancing memory, focus, and self-discipline.



Annual Sports at DPS, Dhenkanal

Delhi Public School, Dhenkanal celebrated its 5th Annual Sports Meet with great enthusiasm over two days, on 13th December 2025 (Senior Wing) and 14th December 2025 (Junior Wing). The event highlighted the school’s commitment to physical fitness, discipline, and holistic development.

The Senior Wing Sports Meet witnessed impressive performances by students in various track and field events, reflecting teamwork, perseverance, and sportsmanship. The occasion was graced by the Chief Guest, Mr. Ashok Kumar Pattanaik, GM (Corporate Affairs), Vice President & Factory Manager, IR & A and SHE, Aarti Steels Ltd., and the Guest of Honour, Col. Rajib Kumar Bal, Commanding Officer, 12 Odisha Battalion, NCC, Dhenkanal. The event was further dignified by the presence of Sri B. S. Singh Deo, Wing Commander (Retd.) & Family, Smt. Jayanti Patra, Chairperson, Dhenkanal Municipality, Dr. Lagnajit Dash, Director, DPS Dhenkanal, and Mrs. Dhvani Gandhi Dash, Member, Board of Management.



The Junior Wing Sports Meet was a colourful and joyful celebration of young talent. The programme was graced by the Honourable Chief Guest, Brig. K. P. Singh Deo, AVSM, ADC (Retd.), and the Guest of Honour, Shri Krushna Chandra Patra, Hon’ble Minister of Food Supplies, Consumer Welfare, Science & Technology, Government of Odisha. Several eminent dignitaries, including MPs, MLAs, members of the Board of Management, and other distinguished guests, added grace to the occasion. The junior students delighted the audience with energetic drills and fun races. The two-day Sports Meet was conducted smoothly under the guidance of Shri Binod Dash, PVC, DPS Dhenkanal, Dr. Lagnajeet Dash, Director, DPS Dhenkanal, and Shri Subrahmanya Kumar Sripada, Principal, DPS Dhenkanal, leaving behind cherished memories and reinforcing the spirit of healthy competition and sportsmanship among students.

International Men’s Day at DPS, Dhenkanal

Delhi Public School, Dhenkanal observed International Men’s Day on 19th November 2025 with respect and admiration for the valuable contributions of the men in the institution. The celebration acknowledged the role of male teachers and staff members in shaping young minds and supporting the school community. The programme began with expressions of gratitude, saluting their dedication, discipline, and hard work. The occasion was graced by Dr. Lagnajit Dash, Director, DPS Dhenkanal, whose presence added motivation and created a warm, joyful atmosphere while honouring the men who continue to make a positive difference in the school environment.





Ashish Routray of Synergy, Dhenkanal won Gold medal in BPUT Tech Carnival 2025 Long Jump Competition 2025



Mr.A.K Jena receiving the appreciation certificate on behalf of Synergy, Dhenkanal from District administration for participating in Cyber Safety Campaign Odisha 2025



Students of SSE, Dhenkanal secure 1st & 2nd in Photography and 1st & 3rd in Art competitions organised by Synetic Club of Synergy, Dhenkanal.



World Aids Day was celebrated by Synergy School of Nursing, Dhenkanal.



Students of Synergy, Dhenkanal as winners of BPUT Tech Carnival Yoga Competition held on 18th December 2025.



Blood donation camp organised by Rotaract Club of Synergy on 15th November 2025 at Synergy, Dhenkanal.



Staff and students of Synergy, Dhenkanal visited the Old Age Home at Govindpur, Dhenkanal, spreading love, care, and compassion.

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