



OmDayal Group of Institutions

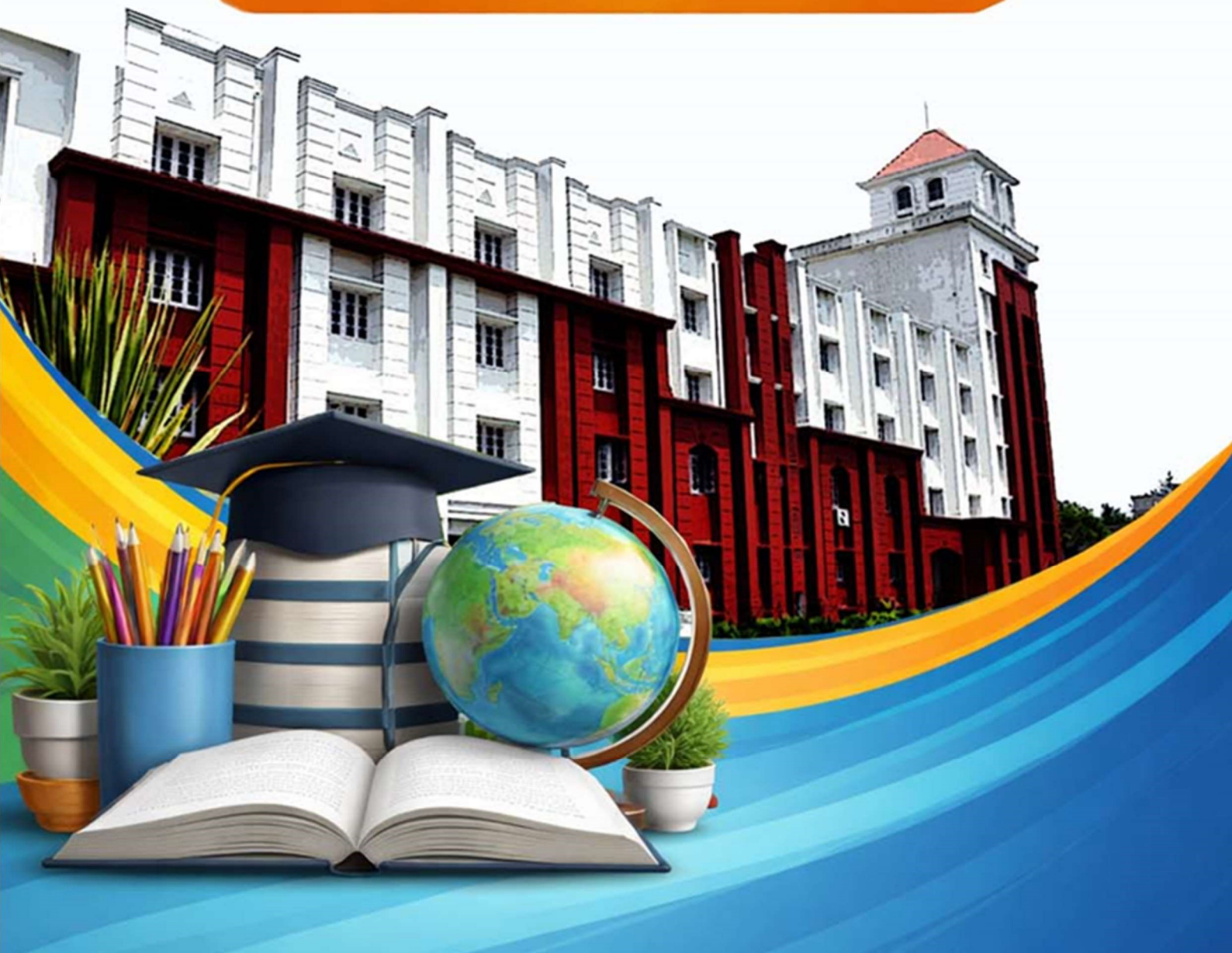
ENGINEERING | ARCHITECTURE | MANAGEMENT

AICTE & COA Approved | NAAC Accredited | MAKAUT(WBUT) Affiliated

Omcraft

2025-26

ANNUAL NEWSLETTER



Volume 9

CONTENTS

- **Vision and Mission of the College**
- **Principal's Message**
- **Vice-principal's Message**
- **Message from the Editor**
- **College Event Reports**
- **Departmental Details**

Campus : Plot No. 38 (P), 38(A), 39(P) & 39(A) Uluberia Growth Centre,
Near Birshibpur Railway Station, Howrah 711316, WB.

 **8100 500 600 / 66445054 / 033 7130 0211**

 **www.omdayal.com**

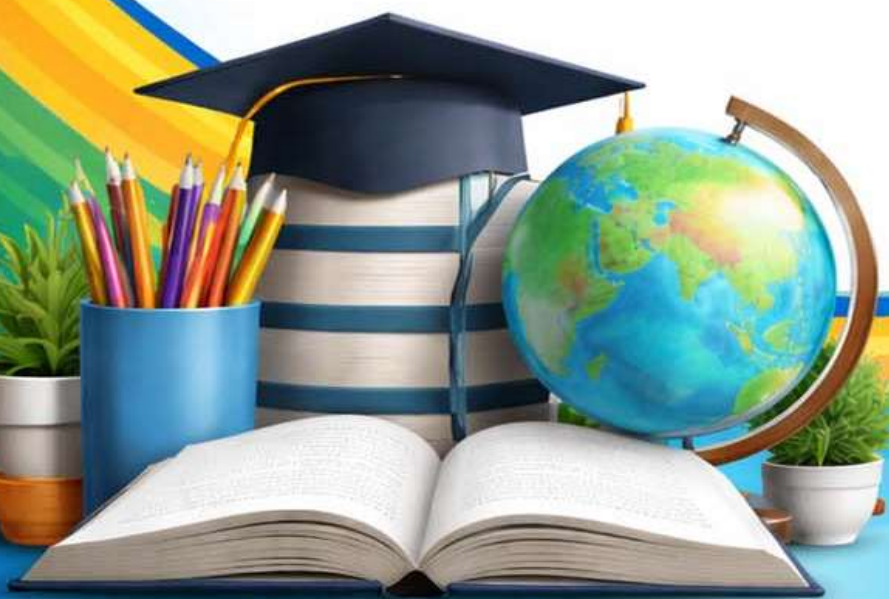


VISSION

To become an institute of repute and bring about a change in the sphere of technical education in Bengal by offering a full range of programs of global standard, and to transform the students into globally competent personalities.

MISSION

- To provide state-of-the-art resources required to achieve excellence in teaching-learning, and supplementary processes
- To provide Faculty and Staff with the required qualification and competence
- To motivate for their holistic development
- To provide opportunity to the students to bring out their inherent talent



Principal's Message

Welcome to the latest edition of our college newsletter. It brings me immense joy to share with you the incredible stories, achievements, and talents within our college community.

This newsletter reflects the spirit of our institution - a place where knowledge flourishes, creativity is celebrated, and dreams are nurtured. I encourage you to explore the diverse range of articles, artwork, and thought-provoking content curated by our talented students and faculty.

Thank you to everyone involved in bringing this magazine to life. Your hard work and dedication have made it a true reflection of our vibrant college community.



Prof. (Dr.) Yogesh Kumar Sinha
Principal

Vice-principal's Message



Dr. Prosenjit Sen
Vice Principal

It is very satisfactory to see that the latest edition of the official Newsletter "Om Craft" Volume-7 has been published.

This an immense pride as the Newsletter showcases the activities of the College for entirety of a year.

This year we have engaged in several activities and one such being the NAAC visit for the 2nd cycle of accreditation.

Without the combined effect of all the Faculty members, Staff, Technical Assistants and all the members who are associated with the ODGI it would not have been possible to achieve a better score in the NAAC visit.

From the bottom of my heart I would like to congratulate all the team members associated with the publication of "Om Craft" best wishes.



Message from the Editorial Board

As our college continues to thrive towards excellence, we are excited to bring to you the latest edition of Om Craft, our college newsletter. Over the last year, OmDayal Group of Institutions (College of Engineering and Architecture), has crossed certain milestones in the path of higher education, thereby helping its students achieve their dreams and getting prepared for future success. One of the unique aspects that sets the institution apart from others, is its keen attention towards the holistic development of students. The method of teaching followed here is a perfect amalgamation of theory and practice - the students are initiated into theoretical understanding of core scientific concepts, as well as laboratory experiments. The achievements of the students and faculty members, delineated in this newsletter, are indicative of the passion for science and technology that the students and faculty members share with one another. We hope that this stands testament to the hard work that each and every member of the college put together to create indelible marks in the field of sustainable development.

Rajlekha Sil,

Editor

Pritam Roy,

Co-Editor

College Event Reports

Voyage, 2025

Creativity, Innovation and Research lie at the heart of every scientific invention. Inventions, propelled by imaginative ideation and prudent execution, are manifestations of the talent possessed by students, and the education received by them. VOYAGE, 2025, (held on 11th and 12th of April), the technology fest, organised by the IQAC and the Institutions' Innovation Council (IIC), OmDayal Group of Institutions (College of Engineering and Architecture, Affiliated to MAKAUT, accredited by NAAC, and approved by the AICTE and the COA), was a celebration of the unique talent of its students, and a platform for them to showcase their inventions in front of an objective audience. The odyssey of VOYAGE in the path of academic and professional excellence began in the year 2016. According to the principal, Prof. Yogesh Kumar Sinha, the primary objective of the tech fest is "To provide students with a platform to execute their thoughts and ideas, while learning the empirical methods of engineering science, and to inculcate in students the spirit of learning through collaboration and teamwork." Keeping this spirit in mind, the college authorities not only involved its own students from seven departments (Computer Science and Engineering, Civil Engineering, Mechanical Engineering, Electrical Engineering, Basic Science and Humanities, Architecture and Management), but also extended an invitation to students of sixteen other reputed institutions to participate in the fest with their own inventions and enrich it with their respective innovations.

Apart from the participating schools, including Shibpur Bhabani Balika Vidyalaya, Bagnan Boys High School, Tara Sundari Balika Vidyabhawan, Bagnan Adarsha Balika Vidyalaya, Bagnan Girls' High School, Shibpur B.E College Model School, Howrah Vivekananda Institution, the fest also witnessed the presence of dignitaries from various engineering sectors and industries, including Mr. Raj Ray, the CEO and CTO of Adyakshar Labs, who meticulously observed and analysed every project exhibited by students, and enlightened the students with valuable suggestions and feedback.



Some Glimpses



Some of the most innovative models, from among a total of eighteen, built by students were, the 'Emotion-driven Music Player' by the Computer Science and Engineering Department, the 'Sustainable Dynamic Conch-shaped Building', by the Civil Engineering Department, the 'Compact Wind Power Generator' by the Mechanical Engineering Department, the 'High Accuracy Motor Protection Module' by the Electrical Engineering Department, and a 'Smart Home Automation' by the Department of Science and Humanities.

The event commenced at 11AM on 11th April, with a small, yet fervid inauguration ceremony, in which, the host warmly welcomed the honourable guests and dignitaries. The ceremony culminated in the auspicious lighting of the lamp by Mr. Alok Tibrewal, Honourable Secretary, OmDayal Group, Mr. Sagar Agarwal, Member, Board of Governors, OmDayal Group of Institutions, Mrs. Natasha Agarwal, Director, OmDayal Group, Dr. Yogesh Kumar Sinha, Principal, College of Engineering, OmDayal Group of Institutions, and Dr. Prosenjit Sen, Vice-Principal, OmDayal Group of Institutions. This was followed by an aesthetic cultural programme. After this, the guests and dignitaries made visits to the respective departments to witness model presentations by the students, and lauded the sincere efforts made by the students. Overall, Voyage, 2025, was a success and marked the continuation of OmDayal Group of Institution's relentless strive for excellence.



Cultural Fest, ULLASH 2K25

In an era in which diversity, equity and inclusion (DEI) is of utmost significance, cultural exchange emerges as one of the key players in making the DEI dream a reality. Cultural fests in educational institutions, thereby, foster the process of DEI by several notches. The students of OmDayal Group of Institutions joined hands in organising Ullash 2k25 on competition, graffiti art competition, treasure hunt, break the pot, singing competition, dancing competition, fashion show competition, DJ music and dance by DJ , and a special performance by the esteemed Bengali vocalist. The event was an opportunity for students to learn organising, planning and decision-making, while embracing cultural values.



Some Glimpses



KHELKUD, 2k25

Team-building is one of the most important lessons that students need to learn throughout their academic journey. In this regard, 'sports' and 'games' play an important role in not only helping students to rejuvenate, but also to build a healthy relationship with their peers and colleagues. OmDayal Group of Institutions organised a two-day Sports event called 'Khelkud, 2025' on 21.02.2025 and 22.02.2025. The event comprised 6 games, including Football, Cricket, Badminton, Chess, Carrom and Table Tennis. A perfect milieu of indoor and outdoor games, the event catered to an array of physical and mental attributes of students, including fitness, strategic thinking and sportsmanship spirit.



Some Glimpses



GPS Map Camera

DEPARTMENTAL DETAILS

Department of Computer Science and Engineering (CSE & AI/ML)

Participation of faculty members in seminars/ webinars/ workshops/ conferences/ FDPs

- Dr. Dhrubajyoti Ghosh has completed an online course on "Deep Learning", from Simplilearn, held between 09.06.2025 and 10.07.2025.
- Dipankar Hazra has participated in a summer school on Quantum Foundation held during 06.06.2025 to 08.06.2025, organised by Bhaktivedanta Institute, Kolkata and CDAC, Patna.
- Dr. Dhrubajyoti Ghosh has successfully completed an online Faculty Development Program (FDP) on "Exploring Emerging Research Trends in Computing Technologies: AI, ML, and IoT" (E2RTCT-2K25), held from 02.06.2025 to 06.06.2025
- Dipankar Hazra has completed a one month course on Quantum Computing held during 03.05.2025-25.05.2024, organised by CDAC, Hyderabad, IIT, Roorkee in support with MEITY, India.
- Indrani Mukherjee has successfully completed an ATAL FDP, titled 'AI in Precision Agriculture and Smart Healthcare for Society 5.0', organised by MAKAUT with ATAL.AICTE, SKILL INDIA, held from 03.02.2025 to 08.02.2025.
- Sougata Samanta has successfully completed an ATAL FDP, titled 'AI in Precision Agriculture and Smart healthcare for Society 5.0', organised by MAKAUT with ATAL.AICTE, SKILL INDIA from 03.02.2025 to 08.02.2025.
- Indrani Mukherjee has successfully completed an ATAL FDP, titled 'AI in Science & Engineering', organised by NIT Nagaland with ATAL.AICTE, SKILL INDIA from 17.02.2025-22.02.2025.
- Sougata Smanta has attended & completed successfully an ATAL FDP, titled 'AI in Science & Engineering', organised by NIT Nagaland with ATAL.AICTE, SKILL INDIA from 17.02.2025-22.02.2025

Industrial Visit

A visit to Viswa Bangla Mela Prangan was organised on 11 Feb, 2025 on occasion of 73rd Indian Foundry Congress & International Foundry Exhibition (IFEX 2025). Students of Second Year & Third Year, guided by Indrani Mukherjee, have participated in the event. A visit to Thinker Lab was organized by the CSE department on 12.11.2025. This visit has increased the innovative thinking of the students. Students of Second Year, under the guidance of Sougata Samanta, have participated.



Research Publications

Conference Papers

Indrani Mukherjee has presented a conference paper co-authored with Anusree Nag, and Suparna Biswas, titled "Advancing healthcare with machine learning: Predictive models for neurological and chronic diseases," in Proc. 2nd Int. Conf. Artif. Intell. Sustain. Comput. (AISC 2025), Springer, 2025.

- Dr. Dhrubajyoti Ghosh has presented conference paper titled "Evaluation of Faculty Teaching Effectiveness through Student Feedback utilizing Fuzzy TOPSIS Method" at the 2024 Sixth Doctoral Symposium on Intelligence Enabled Research (DoSIER 2024), organized by Sukanta Mahavidyalaya, Dhupguri, India in association with Acuminous Research Foundation (AcuminoR) and in collaboration with Algebra University, Zagreb, Croatia from 28.11.2024-29.11.2024.
- Santosh Das presented a paper named "Empirical Energy Consumption Analysis of Blockchain Mining over Constrained IoT Nodes" at the 21st IEEE INDICON 2024 held at IIT Kharagpur from 19-21 December 2024.

Book Chapters

- Soumyodip Thanadar, Indrani Mukherjee. "Deep Learning for Crop Disease Detection". Chapter 4. "Phytopathology Using Machine Learning for Crop Disease Detection" by Willey.2025 (upcoming- Abstract Accepted)
- Utsab Bhowmik, Indrani Mukherjee. "Crop Disease Detection Using Machine Learning". Chapter 3. "Phytopathology Using Machine Learning for Crop Disease Detection" by Willey.2025 (upcoming- Abstract Accepted)
- Soumyodip Thanadar, Indrani Mukherjee. Sohail Saif, Saqib Qamar, "Security Framework for 5G-Enabled Healthcare: Challenges and Solutions". Chapter 7. "AI in Smart and Secure Healthcare: Research Trends and Future Opportunities" by Springer Optimization & Its Applications Book Series.2025 (upcoming- Abstract Accepted)
- Indrani Mukherjee. Dishani Roy & Suparna Biswas, "Human Computer Interaction in Disease Detection/Prediction". Chapter 4. "AI in Smart and Secure Healthcare: Research Trends and Future Opportunities" by Springer Optimization & Its Applications Book Series.2025. (Upcoming- Abstract Accepted)
- Souryadip Ghosh, Indrani Mukherjee. "Machine Learning Algorithms for Data-Driven Modelling: Technique, Method & Applications". Chapter 5. Data-Driven Modellings by Willey. 2024.
- Tanishka Chakraborty, Indrani Mukherjee. "Neural Networks and Deep Learning in Data- Driven Modelling: Technique, Method & Applications". Chapter 6. Data-Driven Modellings by Willey.2024.

Seminars/ Workshops organised by the department

Sl. No	convener	Title of the Program	Date	Speaker Name
1	CSE Dept	7 th Alumni Meet	26 th October.2024	Koustav Hazra & Arnab dey (2019 Batch)
2	CSE Dept.	EduAI	13 th April.2025	Mr. Saikat Pahari
3	CSE Dept	Front End Development with React JS	21 st August.2024- 24 th August.2024	ARDENT
4	CSE Dept.	PYTHON PROJECTS WITH DATABASE CONNECTIVITY	3 rd Dec.2024-7 th Dec.2024	Dr. Dhrubajyoti Ghosh
5	CSE Dept.	Application of Block chain Technology	19 th Dec.2024	Mr. Santosh Das
6	CSE Dept.	Artificial Intelligence & IoT with MATLAB: Transforming Industry Insight	12 th Nove.2024	Mr. Pickon Majumdar
7	CSE Dept.	Evolutionary AI: Theories & Optimizations	27 th Spe.2024	Mr. Saikat Pahari

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

We are excited to present our
7TH VIRTUAL ALUMNI TALK

Kaustav Hazra
Embee software,
Senior Application/Consultant
Specialist, Class of 2019

Arnab Dey
Panasonic Avionics India, SDE 2,
Class of 2019

26th Oct'24 | 10:30 AM onwards | Google Meet

Coordinator: Dr. Dhrubajyoti Ghosh, Associate Professor (+91 9635030856)

+91 81005 00600 | www.omdayal.com | contact@omdayal.com

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

We are proud to present a workshop on
**'EVOLUTIONARY AI:
Theories & Optimizations'**

Friday, 27th September
10AM onwards
Venue: CSE Computer Lab

Coordinator: Saikat Pahari

+91 81005 00600 | www.omdayal.com | contact@omdayal.com

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

We are thrilled to present a 5 days workshop on
**PYTHON PROJECTS WITH
DATABASE CONNECTIVITY**

Date: 3rd Dec - 7th Dec, 2024
Time: 10:30AM Onwards
Venue: CSE Computer Lab, OGI
Coordinator: Dr. Dhrubajyoti Ghosh

+91 81005 00600 | www.omdayal.com | contact@omdayal.com

Notable Achievements of Faculty Members

- Mr. Dipankar Hazra acted as a paper reviewer for International Conference on Smart Computing, Communication and Automation (ICSCCA), 2K25 held on 2nd and 3rd August, 2025, organized by BBIT.
- Mrs. Indrani Mukherjee acted as paper reviewer for the International Conference on Sustainability, Innovation & Technology (ICSIT 2025) held on August.2025.
- Mrs. Indrani Mukherjee, Assistant Professor, CSE has published a Book, titled "Design and Implementation of a Technique to Test" with Chyren Publication on April.2025.
- Mrs. Indrani Mukherjee got Ph.D. registration in MAKAUT in January.2025.
- Dr. Dhrubajyoti Ghosh has organised a 5-day workshop on: "PYTHON PROJECTS WITH DATABASE CONNECTIVITY" at OmDayal Group of Institution from 03.12.2024-07.12.2024.
- Santosh Das served as a reviewer at the 31st International Conference on Neural Information Processing on December 2-6, 2024, Auckland, New Zealand.
- Dr. Dhrubajyoti Ghosh became a Life Member of Sridharacharya Academy of Mathematical Sciences, w.e.f 30.10.2024, Membership no: LFM-131.
- Dr. Dhrubajyoti Ghosh has played a role as an instructor of guiding and mentoring degree college students from Uluberia of Internship Program on 'HANDS-ON MACHINE LEARNING', a joint initiative by IIC & IQAC, OmDayal Group of Institutions
- Dr. Dhrubajyoti Ghosh acted as paper reviewer for an international journal paper for 3rd International Conference on Data, Electronics and Computing, ICDEC 2024, Organised by Erciyes University, Talas, Kayseri, Turkey collaboration with COMSYS Educational Trust, Kolkata, West Bengal, India from 18.09.2024-20.09.2024.
- Dr. Dhrubajyoti Ghosh acted as paper reviewer for an international journal paper for Asian Research Journal of Mathematics on 19.09.2024.

Notable Achievements of Students

1. Minal Ranjit & Team, Students of CSE 4th Year, won a Hackathon, organized by Seacom College of Engineering & Technology on 29th April.2025. with their project “Aura-Vision” with guidance of Prof. Indrani Mukherjee.
2. Pritam Hazra & Team, Student of CSE 3rd Year, has participated in a Hackathon, organized by Narula Institute ofTechnology on March.2025. with their project “Air- Quality Monitoring System” under the guidance of Prof. Indrani Mukherjee.
3. Ayan Sahu, student of CSE 4th Year got 3rd Rank in coding Completion in tech fest organized by Shyampur Mahavidyalaya in December.2024.



Future Plans of the Department

- Organize seminars and workshops on emerging technologies, conducted by renowned industry professionals and distinguished academic experts, to enhance students' technical knowledge and industry readiness.
- Conduct alumni talk sessions to provide students with insights into real-world career experiences, industry trends, and opportunities for networking and mentorship.
- Encourage students to engage in multi-disciplinary projects and support them in publishing their research work in reputed journals and conferences, fostering a culture of innovation and academic excellence.
- Host coding competitions to develop students' problem-solving skills, foster competitive spirit, and prepare them for industry-level challenges.
- Encourage students to participate in competitions outside college.



Department of Computer Application (BCA)

Participation of faculty members in seminars/ webinars/ workshops/ FDPs

- Mr. Amitava Ghosh has completed a Faculty Development Program on “Advanced EDA of Financial Data with Python & R Programming” organized by IDEAL Institute of Engineering, Kalyani from 18.11.2024 to 19.11.2024.
- Mr. Amitava Ghosh has attended an Advanced Computing Seminar on “EDA on Salary Analysis with Salesforce” organized by Manpower Consultancy, Kolkata on 16.01.2025
- Ms. Ankita Ghosh has completed a one-week Faculty Development Program on “Cyber Security in AI” organized by CMR University under AICTE Training and Learning (ATAL) Academy from 02.12.2024 to 07.12.2024.
- Ms. Ankita Ghosh has completed a one-week Faculty Development Program on “AI in Precision Agriculture and Smart Healthcare for Society 5.0” organized by Maulana Abul Kalam Azad University of Technology, West Bengal under AICTE Training and Learning (ATAL) Academy from 03.02.2025 to 08.02.2025.
- Ms. Ankita Ghosh has participated in a webinar on “Third Party Risk Management” organized by GCA and UPES as part of CyberNext 2025 on 29.07.2025.
- Mr. Suman Modak has successfully completed a one-week Faculty Development Program on “Catalysing Entrepreneurship Culture & Startup Ecosystem in North Bengal” organized by IIAS School of Management, Siliguri under AICTE Training and Learning (ATAL) Academy from 19.08.2024 to 24.08.2024.

Research Work by Faculty Members

Journal publications

- Ankita Ghosh, Sudip Diyasi, & Siddhartha Chatterjee. (2024). Enhancing SQL Injection Prevention: Advanced Machine Learning and LSTM-Based Techniques. International Journal on Computational Modelling Applications, 1(1), 20–31. <https://doi.org/10.63503/j.ijcma.2024.16>.
- Sudip Diyasi, Ankita Ghosh & Dipankar Dey. (2025) Enhancing Blockchain Transaction Security: A Hybrid Machine Learning Approach for Fraud Detection. International Journal on Smart & Sustainable Intelligent Computing, 2(1), 14–30. <https://doi.org/10.63503/j.ijssic.2025.43>.

Participation of students in Industrial Visit

Our Students participated in an industrial visit to ITC Limited – Food Division, Uluberia, gaining valuable insights into modern food processing and industry practices.



VOYAGE 2025

- Students enthusiastically participated in the Tech Fest – Voyage 2025, showcasing their talent and innovation in various technical events.
- Participation of students in seminars/quiz competitions/Coding competitions
- Our students participated in a seminar on “Peace in Entrepreneurship”; organized by the Department of Electrical Engineering in association with the Academic Committee, OmDayal Group of Institutions, on 19.11.2024.
- Our students participated in a coding competition on “Hack the Basic with C”; and a presentation on “Social Media Campaign”; organized by the Innovation Cell along with IIC & IQAC of OmDayal Group of Institutions on 21.11.2024 at the BCA Computer Lab & Ground Floor Seminar Hall.
- Our students participated in the Sit and Draw Competition / E-Quiz as part of the Janjatiya Gaurav Diwas celebration, organized by the OBC Cell and the Department of Science and Humanities, OmDayal Group of Institutions on 22.11.2024.



Future Plans of the Department

The department aims to organize in-house seminars focusing on emerging technologies, alongside workshops and guest lectures by industry experts.

Plans are in place to host interactive events such as quiz competitions and poster presentations to encourage student engagement and creativity.

An industrial visit is being scheduled to provide students with practical exposure to real-world working environments.



Department of Mechanical Engineering (ME)

Participation of faculty members in seminars/ webinars/ workshops/ conferences/ FDPs

- Dr. Ranjit Barua attended the “Indus-Tech Machine Tools & Automation Expo - Kolkata” organized by Bizcartel India and Dronacharya Events on 28th April, 2025.
- Dr. Ranjit Barua, Deepanjan Das and Sumit Bhowmik participated in the “International Conference on Multidisciplinary Research in Mechanical Engineering and Nanotechnology 2025” organized by Government Engineering College, Samastipur, Bihar from 11th April to 12th April, 2025.
- Sumit Bhowmik completed an online course on “Fundamentals of Electric Vehicles” organized by Udemy on 25th December, 2024.
- Deepanjan Das participated in the “11th International and 51st National Conference on Fluid Mechanics & Fluid Power (FMFP 2024)” organized by Aligarh Muslim University from 21st December to 23rd December, 2024.
- Deepanjan Das participated in the FDP on “Emerging Technologies in Power Energy: Shaping the Future of Sustainable Solutions” organized by Dream Institute of Technology, Kolkata from 19th November to 23rd November, 2024.
- Deepanjan Das and Sumit Bhowmik attended the “9th Tech Meet 2024 & Excellence Awards” organized by ASSOCHAM (ER) on 19th November, 2024.
- Dr. Ranjit Barua attended the program “Discover the Future of Product Development with SOLIDWORKS 2025!” organized by Pelf Infotech on 12th November, 2024.
- Dr. Ranjit Barua participated in the “Indian Network for Memory Studies (INMS) International Conference 2024” organized by CMS, IIT Madras from 16th September to 18th September, 2024.
- Sumit Bhowmik participated in the FDP on “Advanced Informative and Emerging Trends in Teaching and Research (Innovative Teaching and Learning Pedagogy)” organized by IMI (Delhi), BPIT (New Delhi) & RFI from 24th August to 30th August, 2024.

Research Works done by Faculty Members

Patent Publications

- Barua, R., Bhowmik, S., Banerjee, D., Das, D., Poddar, A., Dey, A., Das, P., Ray, S., An Artificially Intelligent Therapeutic Shoe with Shape Memory Insole for Adaptive Support and Arthritis Relief. IPR App No. 202531025451. Publication Date: 30/05/2025.
- Barua, Ranjit, et al. A Machine Learning-Driven Process for Automation in Adaptive and Immersive Virtual Reality Environments. IPR App No. 202431091326. Publication Date: 29/11/2024.

Book Publications

- Barua, R., (2024), Hemodynamics Engineering: Blood Flow Measurement, Simulation, and Modelling, Cambridge Scholars Publishing, ISBN: 978-1-0364-4297-2
- Barua, R., (2024), Robotics, Automation and Computer Numerical Control, Cambridge Scholars Publishing, ISBN: 1-0364-1465-5
- Barua, R., (2024), Additive Manufacturing and Design, Cambridge Scholars Publishing, ISBN: 1-0364-0814-0

Paper Publications

- Banerjee, D., Barua, R., Datta, S., & Pathote, D. (2025). The Use of Artificial Neural Networks in Biomedical Engineering. In L. Syam Sundar, D. Balakrishnan, & A. C.M. Sousa (Eds.), Expert Artificial Neural Network Applications for Science and Engineering (pp. 33-50).
- Barua, R., Bhowmik, S., & Datta, S. (2025). Unveiling the Path to Healing: A Comprehensive Examination of Current PTSD Treatment Strategies. In R. Motta (Ed.), Development and Treatment of PTSD (pp. 163-188).
- Das, D., & Biswas, N. (2025). A comprehensive review on electrically modulated transport of soft, multiphase systems in microflow: Perspectives on drops and vesicles. *Biomicrofluidics*, 19(3), 031503.
- Barua, R. (2025). Neuroengineering Horizons: Advancements in Neurological Prostheses and Rehabilitation Innovations. In S. Mathivanan, S. Mallik, S. Sangeetha, B. Soufiene, & S. Srinivasan (Eds.), Advancing Medical Research Through Neuroscience (pp. 347-374).
- Banerjee, A. & Barua, R. (2024). A Comprehensive Overview of Carbon-Based Nano fluids and Related Progress for Heat Transfer Uses. In J. Arun, N. Nirmala, & S. Dawn (Eds.), Environmental Applications of Carbon-Based Materials (pp. 196-217).

Students Activities

Students of our department have participated in:

- Scan & Play Quiz on the occasion of the Earth Day 2025, organized by The Library Committee, OmDayal Group of Institutions, on 22nd April, 2025.
- Poster Presentation on the occasion of the Earth Day 2025, organized by IIC and IQAC, OmDayal Group of Institutions, on 22nd April, 2025.
- Training Program on Safety & Environment for Chemical Industry conducted by Indian Chemical Council and Institute of Chemical Technology (Mumbai) at Haldia on 20th and 21st March, 2025.
- Scan & Play Quiz on the occasion of the International Human Solidarity Day, organized by The Library Committee, OmDayal Group of Institutions, on 20th December, 2024.
- Workshop on Energy Conservation Day organized by Dept. of Mechanical Engineering and Dept. of Electrical Engineering, OmDayal Group of Institutions on 14th December, 2024.
- International Design Competition organized by CADD Centre on 6th November, 2024.
- Anti-Ragging Week Celebration organized by Anti-Ragging Committee and Anti-Ragging Squad 2024, OmDayal Group of Institutions from 24th to 27th September and 4th October, 2024.
- Engineers' Day Celebration organized by IQAC, OmDayal Group of Institutions on 13th September, 2024.
- National Space Day Celebration organized by Dept. of Mechanical Engineering, OmDayal Group of Institutions on 23rd August, 2024.

VOYAGE 2025:

- Annual Technical Exhibition, VOYAGE 2025 was organized by OmDayal Group of Institutions on 11th & 12th April, 2025. Students from the Department of Mechanical Engineering showcased three working models or prototypes, designed and constructed by them, which received high praise from visiting guests, academicians, and industry professionals.



The Modular Miniature Lathe



Compact Wind Power Generator



Instant Cooling Sipper

Academic Programmes organized by the department

The Department of Mechanical Engineering and The Department of Electrical Engineering in association with the IIC and IQAC, had organized a workshop on “Energy Conservation Day” on 14th December, 2024. The program aimed at educating students on the importance of energy conservation and its applications in modern technology. Students attended lecture sessions on energy conservation, followed by hands-on experiments in the Electrical Machines and Heat Transfer Labs. They explored energy conversion in motors and generators, and heat transfer processes, gaining practical insights into sustainable energy practices.

- An Alumni Lecture Session on “Fabrication Process of Polygonal Power Transmission Tower” under Alumni Lecture Series was organized by the Department of Mechanical Engineering on 7th December, 2024. Mr. Sayantan Ghosh, Deputy Manager, Pole-Production, SKIPPER Limited, Uluberia (West Bengal), was the Guest Speaker of the event. He discussed the production, installation, and comparative analysis of polygonal power transmission tower designs, highlighting their advantages and disadvantages, and detailed his roles in their manufacturing, erection, and maintenance.

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE
An IQAC Initiative

Presenting the Alumni Lecture on
**'FABRICATION PROCESS OF
POLYGONAL POWER
TRANSMISSION TOWER'**

Organised by the Dept. of ME

7th DECEMBER, 2024
12:00 PM - 01:00 PM
GOOGLE MEET

Speaker:
SAYANTAN GHOSH
Deputy Manager, Pole-Production,
SKIPPER Limited, Uluberia (WB)
(Alumni Batch 2022)

Event Coordinator: Bikash Kumar Mondal, Asst. Prof. (ME)

+91 81005 00600 | www.omdayal.com | contact@omdayal.com

- A “Student Interaction Program” between OmDayal Group of Institutions and Uluberia Government Polytechnic was organized by the Department of Mechanical Engineering on 4th October, 2024. A delegation from the visiting Institution, including representatives and students, was introduced to our Institution’s academic, training, placement, and entrepreneurship approaches. They received a brief overview of the Dept. of Mechanical Engineering’s assets and achievements, followed by a tour of its various laboratories.



- A program on India’s maiden “National Space Day” was organized by the Department of Mechanical Engineering on 23rd August, 2024. The event was organized to honour the accomplishment of ISRO’s successful mission ‘Chandrayaan 3’, marking the first anniversary of the historic day. The program included a seminar, an online quiz and a model exhibition of Chandrayaan 3 crafted by the teaching fraternity of the department.



Industrial Visits organized by the department

- The Department of Mechanical Engineering in association with the Industry Institute Interaction Cell, ODGI, organized several Industrial Visits for the students of Engineering and Management Departments at the Industry premises in Uluberia Industrial Growth Centre and Dhulagarh Industrial Park.



Industrial Visit at ITC Limited – Food Division, Uluberia, Howrah (West Bengal) on 12.03.2025



Industrial Visit at Bhagwati Foods Pvt. Ltd., Dhulagarh, Howrah (West Bengal) on 13.11.2024

Notable achievements of faculty members

- Dr. Ranjit Barua has been honoured with the role of Associate Editor for The International Journal of Healthcare Information Systems and Informatics (IJHISI).
- Dr. Ranjit Barua has been entrusted with the position of Editorial Review Board Member for International Journal of Public and Private Perspectives on Healthcare, Culture and the Environment (IJPPHCE).
- Dr. Ranjit Barua has been appointed to the role of Reviewer for Scientific Reports, Nature Publications.
- Mr. Debasish Banerjee has successfully completed Master of Business Administration in Production and Operation Management from Suresh Gyan Vihar University, Jaipur (Rajasthan).

Notable Alumni



Amitabha Mondal
Batch: 2024
Quality Assurance Engineer at
Jyoti CNC Automation Ltd.



Akash Kumar
Batch: 2023
Site & Production Supervisor at
Unistar Metals Private Ltd.



Puspita Shee
Batch: 2023
Design Engineer at
Conceptia Software Technologies Pvt. Ltd.



Sayantan Ghosh
Batch: 2022
Deputy Manager, Pole-Production at
SKIPPER Ltd.



Iman Chatterjee
Batch: 2022
Assistant Engineer at
Rashmi Metaliks,
Orissa Steel & Power Private Limited



Saura Shuvra Kumar
Batch: 2021
Senior Engineer at BVG India Ltd.



Prabuddha Sinha
Batch: 2021
Junior Engineer – C at Tata Steel, HMC
Div



Arindam Maity
Batch: 2020
Pursuing Master's Degree in Mechanical
and Design Engineering at Universiti Tun
Hussein Onn, Malaysia

Plans for next academic session

- Organize a National Seminar on Mechanical Engineering.
- Renew the Students' Chapter of The Institution of Engineers (India).
- Conduct Industry Visits for the students.
- Organize co-curricular activities like webinars and online quiz competitions, in addition to in-house seminars, workshops, etc.
- Arrange / organize online and in-house mock interviews and job-oriented skill training for the students.



Department of Electrical Engineering (EE)

Participation of faculty members in seminars/ webinars/ workshops/ conferences/ FDPs

- Mr. Abhisek Manna participated in a 5-day FDP on “Electric Vehicle and Its Application” from 21st July – 25th July, 2025 organized by Haldia Institute of Technology.
- Mr. Mainak Mukherjee participated in a 5-day FDP on “Electric Vehicle and Its Application” from 21st July – 25th July, 2025 organized by Haldia Institute of Technology.
- Mr. Sidhartha Roy participated in a 5-day FDP on “Electric Vehicle and Its Application” from 21st July – 25th July, 2025 organized by Haldia Institute of Technology.
- Mrs. Poulomi Das participated in a 4-week FDP on “Quantum Technologies and Applications” from 28th Feb – 22nd March, 2025 organized by MNIT Jaipur, NIT Patna, IIT Roorkee, IIT Guwahati, IIITDM Jabalpur, NIT Warangal.
- Mrs. Poulomi Das participated in a 3-week FDPu on “AI Mastery for Educators” from 15th May – 7th June, 2025 organized by Indian Institute of Technology (IIT) Patna
- Mr. Sidhartha Roy participated in a 1-week workshop on Matlab on ramp from 7th February, 2025 to 14th February, 2025.
- Mr. Sidhartha Roy participated in a 5-day workshop on Simulink Fundamentals from 12th February, 2025 to 19th February, 2025.
- Mr. Mainak Mukherjee participated in a 6- day FDP on “ Smart Grid Technologies & renewable Energy Integration” from 21st April – 26th April, 2025 organized by department of Electrical & Electronics Engineering, CVR college of engineering, Hyderabad
- Mr. Mainak Mukharjee participated in a 6 day FDP on “ Future of Grid operation: Real Time Insight through Smart meter and WAMS” from 1st April – 5th April, 2025 organized by department of Electrical & Electronics Engineering, IEM, Saltlake

Participation of students in industrial trainings/ internships

Sajan Kumar Yadav, student of 3rd year completed industrial training at Skipper Limited from 01.03.2025 to 31.03.2025.

Seminars/ Workshops organised by the department

Details of the Event

Sl. No	Title of the Program	Date	Speaker Name	Name of the Convenor
1	Webinar on "Real-Time PWM Signal Generation for Power Electronics: A Python-Based Approach"	31 st July, 2025	Dr. Isac Daimary, Guest Faculty, NIT, Arunachal Pradesh	Mr. Mainak Mukherjee
2	Techfest-2025	11 th & 12 th April, 2025	-	Mr. Siddhartha Roy
3	Webinar on "Wired for the Future: AI & IoT Powered Smart Cities"	22 nd March, 2025	Ms. Ankita Sen Assistant Professor Institute of Engineering and Management, Kolkata	Mr. Swapan Kumar Majumder
4	Tobacco Free Youth Campaign 2.0	12 th December, 2024	Mr. Swapan Kumar Majumder, Assistant Professor, Department of Electrical Engineering	Mr. Swapan Kumar Majumder
5	A seminar titled "Peace in Entrepreneurship"	19 th November, 2024.	Ms. Bhagyasree Roy Psychologist, and Counselor.	Mrs. Poulomi Das
6	Webinar on "Allied Career Opportunities for Electrical Engineers"	9 th November, 2024.	Mr. Arnab Ghosh, IT Analyst in Tata Consultancy Services.	Mrs. Poulomi Das
7	Webinar titled "Robotics and Machine Vision"	20 th July, 2024	Dr. Sahadeb Shit, Assistant Professor of Computer Science Department, Kazi Nazrul University, Asansol, WB	Mr. Swapan Kumar Majumder



OmDayal Group of Institutions
ENGINEERING | ARCHITECTURE | MANAGEMENT
AICTE & UGC Approved | INAC Accredited | INARAUT (WUVT) Affiliated

INSTITUTION'S INNOVATION COUNCIL

Dept. of Electrical Engineering in association with IIC & IQAC of OGI is organising a webinar titled

'REAL-TIME PWM SIGNAL GENERATION FOR POWER ELECTRONICS: A PYTHON-BASED APPROACH'



31ST JULY, 2025
11:00AM ONWARDS
GOOGLE MEET

Speaker:
DR. ISAC DAIMARY,
Guest Faculty, NIT, Arunachal Pradesh

Coordinator: Mr. Mainak Mukherjee, Asst. Prof., Dept. of Electrical Engineering

+91 9073307300 | +91 8100500600 | www.omdayal.com | contact@omdayal.com

OmDayal Group of Institutions
ENGINEERING | ARCHITECTURE | MANAGEMENT
AICTE & UGC Approved | INAC Accredited | INARAUT (WUVT) Affiliated

INSTITUTION'S INNOVATION COUNCIL

Dept. of Electrical Engineering, in association with IIC & IQAC of OGI is going to organise a webinar titled

"Wired for the Future: AI & IoT Powered Smart Cities!"

Speaker:



- Ms. Ankita Sen (Alumni, 2014)
- Asst. Prof., IEM, Kolkata.

22ND March **2:00PM onwards**

Google Meet

Coordinator: Mr. Swapan Kumar Majumder
Asst. Prof., Dept. of EE (+91 79804 95516).



+91 8100500600 | 9073307300 | www.omdayal.com | contact@omdayal.com

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

INSTITUTION'S INNOVATION COUNCIL

'TOBACCO FREE YOUTH CAMPAIGN 2.0'

A seminar organised by Extra-Curricular Cell in association with the Department of Electrical Engineering & IQAC

Speaker:



12TH DECEMBER
2PM ONWARDS
2ND FLOOR SEMINAR HALL



MR. SWAPAN KR MAJUMDER,
Asst. Prof., EE Department

+91 81005 00600 | www.omdayal.com | contact@omdayal.com


OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE
IQAC - An OmDayal Group of Institutions Initiative

INSTITUTION'S INNOVATION COUNCIL

We proudly present

PEACE IN ENTREPRENEURSHIP

Seminar organised by the Academic Committee in association with the Dept. of Electrical Engineering, IIC and IQAC of ODGI



19th Nov '24 | 2 PM onwards
Ground Floor, Seminar Hall

Coordinator: Poulomi Das,
Assistant Professor,
Dept. of Electrical Engg.,
(poulomidass.odgi@gmail.com)

SPEAKER:
Bhagyasree Roy
Psychologist,
Counsellor,
ODGI

+91 81005 00600 | www.omdayal.com | contact@omdayal.com

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

INSTITUTION'S INNOVATION COUNCIL

We proudly present

'Allied Career Opportunities for Electrical Engineers'

A webinar organised by the Dept. of Electrical Engineering in association with the Institution's Innovation Council (IIC)

9th Nov, 2024
2pm onwards
Google Meet

Coordinator:
Mrs. Poulomi Das,
Asst. Professor, Dept. of EE
9432157007

SPEAKER



Arnab Ghosh
(Alumni: 2023, EE Dept),
IT Analyst in TCS

+91 81005 00600 | www.omdayal.com | contact@omdayal.com

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

INSTITUTION'S INNOVATION COUNCIL

We proudly present

ROBOTICS & MACHINE VISION

A webinar organised by the Department of Electrical Engineering
An IQAC initiative




DR. SAHADEB SHIT
Asst. Prof, Dept of Computer Science,
School of Mines & Metallurgy, Kazi Nazrul University

20th July, 2024 | 2:30PM
Google Meet

Coordinator:
Mr. Swapan Kr Majumder, Asst Prof

+91 81005 00600 | www.omdayal.com | contact@omdayal.com



GPS Map Camera

NOTABLE ALUMNI

Tanmoy Chakraborty, Alumni: 2024

Course: B.Tech in EE

Working as Asst. Manager Project & Maintenance in West Bengal Chemical Industries Ltd.



Debnath Koley, Alumni: 2024

Course: B.Tech in EE

Working as Site Engineer in L&T Construction



Subhadip Paul, Alumni: 2024

Course: B.Tech in EE

Working as Project Engineer in Acoem Ecotech Industries Pvt. Ltd.



Rajrajeswari Bag, Alumni: 2023

Course: B.Tech in EE

Working as Assistant System Engineer - Tata Consultancy Services



Susmita Pramanik, Alumni: 2023

Course: B.Tech in EE

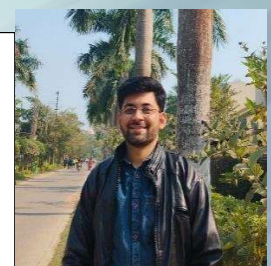
Working as Field Support Engineer, Indus Towers Limited



Arnab Ghosh, Alumni: 2023

Course: B.Tech in EE

Working as IT Analyst, Tata Consultancy Services



Pradip Samanta, Alumni: 2022

Course: B.Tech in EE

Tech Mahindra



Aniruddha Dutta, Alumni: 2022

Course: B.Tech in EE

Harman Kardon



Future plans of the department

- The department is looking forward to conduct in house seminars on modern technologies, workshops, guest lectures.
- To conduct quiz competition, poster presentation
- To conduct industrial visit for the students
- To arrange alumni lectures to make proactive to face the current challenges of competitive professional world.



Department of Civil Engineering (CE)

Participation of faculty members in seminars/ webinars/ workshops/ conferences/ FDPs

- Shanku Mandal participated in an FDP, titled 'Field Oriented Challenges in Civil Engineering (FOCCE-2024)', organised by NIT-Jamshedpur from 05-08-2024 to 09-08-2024.
- Shanku Mandal participated in an FDP, titled 'Research Trends and Future Scope in Civil Engineering (RTFSCE-2024)' organised by NIT-Jamshedpur, from 09.09.2024 to 13.09.2024.
- Shanku Mandal participated in an FDP, titled 'International Webinar on Precast Construction', organised by Indian Concrete Institute, Tamilnadu, from 20.09.2024 to 20.09.2024.
- Shanku Mandal participated in an FDP, titled 'Sustainable and Resilient Infrastructure Development Using Advanced Materials and Technology', organised by Sanaka Educational Trust's Group of Institutions, from 16.12.2024 to 20.12.2024.
- Shanku Mandal participated in a webinar series titled 'Recent Developments in Structural Engineering & Skill Upliftment', organised by Haldia Institute of Technology, from 26.03.2025 to 28.03.2025
- Shanku Mandal participated in a webinar series titled 'From Waste to Wonder: Transforming Industrial Byproducts into Next-Gen Construction Materials', organised by RTC Institute of Technology, from 02.06.2025 to 06.06.2025.
- Mrs. Dipti Ghatak, Assistant Professor of OmDayal Group of Institutions has successfully participated & completed AICTE Training and Learning (ATAL) Academy Faculty Development Program on Advances in Materials Science for Sustainable Development and Industrial Applications at DR. SUDHIR CHANDRA SUR INSTITUTE OF TECHNOLOGY AND SPORTS COMPLEX from 10/02/2025 to 15/02/2025.
- Mr. Sk Kamrul Alam, Asst. Prof. of Civil Engineering Dept., ODGI- participated in a webinar entitled "Slope Stability Analysis using midas GTS NX" - hosted by Midas India and IGS Kolkata on 14th Sept.'24.
- Mr. Sk Kamrul Alam, Asst. Prof. of Civil Engineering Dept., ODGI- participated in a webinar series entitled "Expert Webinar Series on the Finite Element Modelling of Hydropower Structures" - hosted by Midas R&D Centre India from 04/11/24 to 13/11/24.
- Mr. Sk Kamrul Alam, Asst. Prof. of Civil Engineering Dept., ODGI -participated in a webinar entitled "The Role of Fully Coupled 3D SSI in Underpinning & Strengthening Projects. Real Failures. Raw Modelling. InSAR Monitoring. Rescued Structures' - hosted by Bentley Systems on 23rd April.'25.
- Mr. Sk Kamrul Alam, Asst. Prof. of Civil Engineering Dept., ODGI- participated in a webinar entitled "Numerical Modelling of Rock Mass Behaviours -Tackling Complex Rock Engineering Problems" -Bentley System on 22nd May '25.

Research Publications

Journal Publication

- Shanku Mandal published an article to the “The Structural Design of Tall and Special Buildings, SCI Indexed, Q1 Journal”, Wiley entitled “A New Set of Wind Response Modification Factors for U Plan–Shaped Building Under Nonstationary Stochastic Wind”. <https://doi.org/10.1002/tall.70052>. (Will be available Online Soon)

Conference Paper

Book Chapters

1. Mandal, S., Das, A., Bhattacharya, S., Dalui, S. K. and Bhattacharjya, S. (2025). Effect of Wind Interference on U Shaped Tall Building Surrounded by Square Buildings in T Shaped Pattern. In: Kashyap, A., Goyal, R., Li, R.Y.M., Mahesh. G., Deepak, M.D. (eds). Advances in Construction Management. ICCRIP 2023, Lecture Notes in Civil Engineering, Vol 601, pp. 109-119, Springer, Singapore. https://doi.org/10.1007/978-981-96-4902-0_10. (Book Chapter).
2. Akram, F., Mandal, S., Dalui, S.K. (2025). Wind Interference Effect on Y-Plan Shaped Tall Buildings. In: Kashyap, A., Goyal, R., Li, R.Y.M., Mahesh, G., Deepak, M.D. (eds) Advances in Construction Management. ICCRIP 2023. Lecture Notes in Civil Engineering, vol 618. pp. 309-320, Springer, Singapore. https://doi.org/10.1007/978-981-96-4898-6_26. (Book Chapter).
3. Bhattacharya, S., Das, A., Mandal, S., Dalui, S.K. (2025). Aerodynamic Influence of Openings on Tall V-Shaped Building Under Extreme Wind Environment. In: Kashyap, A., Goyal, R., Li, R.Y.M., Mahesh, G., Deepak, M.D. (eds) Advances in Construction Management. ICCRIP 2023. Lecture Notes in Civil Engineering, vol 238. pp. 130-142, Springer, Singapore. https://doi.org/10.1007/978-981-97-7206-3_11. (Book Chapter).

Seminars/ Workshops organised by the department

FDP Details				
Sl. No	Name of the convener	Title of the Program	Date	Speaker Name
1	Dipti Ghatak	Climate Change and the Water-Energy Nexus	16/08/2024	Prof. (Dr.) Pankaj Kumar Roy (FIE) Professor & Former Director School of Water Resources Engineering Jadavpur University Former DEAN, Faculty of Interdisciplinary Studies, Law & Management Jadavpur University
2	Srijan Mukherjee	Basics of Design Principles Adopted in Underground Metro Stations and Associated Tunnels Across Various Disciplines	12/11/2024	Mr. Anandharaj Natarajan Engineering Manager & Technical Support Services Chennai Metro Rail Project Phase II ITD Cementation India Limited Chennai.
3	Shanku Mandal	Workshop on BIM with Naviswork	07/08/2024	Sanniv Sanyal, Shahnwaj Alam Trainers, CADD Centre
4	Dipti Ghatak	Summer Internship Festival 2024: Embracing IoT and AI in Civil Engineering Solutions	19/04/2024	Mr. Amitava Halder, Business Head - Revenue Growth & Operations Mr. Dhiman Acharyya, Centre Manager of CADD Centre New Alipore
5	Palash Das	Alumni Talk on "Pioneers in Progress: Guiding the Next Generation of Civil Engineering Entrepreneurs"	09/11/2024	1. Risa Manna – 2018 Batch – Asst. Manager at Athaang Infrastructure Pvt. Ltd. 2. Himanshu Pandey – 2019 Batch – Quality Civil Lead at Sembcorp Green Infra Ltd. 3. Supravat Patra – 2020 Batch – Asst. Manager at SRMB Steel

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

'CLIMATE CHANGE AND THE WATER-ENERGY NEXUS'

A webinar proudly presented by Dept of Civil Engineering
An initiative by IQAC & IIC

PROF. PANKAJ KUMAR ROY
Prof., School of Water Resources Engineering, Former DEAN (Academic), Faculty of Interdisciplinary Studies, Law & Management, Jadavpur University

16th Aug, 2024
12:00PM – 1:30PM
Google Meet

Coordinator:
MS. DIPTI GHATAK
Asst. Prof., Dept. of Civil Engg
+91 82506 86660
dipti.ghatak@gmail.com

+91 81005 00600 | www.omdayal.com | contact@omdayal.com

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

An IQAC Initiative

Join us for a webinar on
'BASICS OF DESIGN PRINCIPLES ADOPTED IN UNDERGROUND METRO STATIONS AND ASSOCIATED TUNNELS ACROSS VARIOUS DISCIPLINES'

Organised by Dept. of Civil Engineering in association with IIC

Speaker:
MR. ANANDHARAJ NATARAJAN
Engineering Manager & Technical Support Services, Chennai Metro Rail Project Phase II, ITD Cementation India Limited, Chennai

12th NOV 2024 | 2:30PM - 4:00PM | GOOGLE MEET

Coordinator: Mr. Srijan Mukherjee
Asst. Prof. & TIC, Dept. of Civil Engineering (srijan.civil2024@gmail.com)

+91 81005 00600 | www.omdayal.com | contact@omdayal.com

OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

An IQAC Initiative

We present a 30-hour Workshop (Hybrid mode) on
'BIM with Navisworks'
organised by the Department of Civil Engineering in association with **CADD CENTRE**, New Alipore.
7th August 2024 onwards

Trainers, CADD Centre

Shahnawaz Alam **Sanniv Sanyal**

Coordinator: **Prof. Shanku Mandal**
Asst. Prof., Dept. of Civil Engineering (shankumandalce@gmail.com)

Technical Support: **Mr. Pritam Roy**

+91 81005 00600 | www.omdayal.com | contact@omdayal.com

Student Activities

Internships Undertaken by students:

Final Year Students of the Civil Engineering Department have undergone industrial internship in Urvisa the Condoville project at Urvisa Site Office in (Action Area – I, Plot AF – II PremisesNo – 04 – 0030 New Town, Kolkata 700156), a project by Ambuja Neotia, Newtown, Kolkata.

List of students who participated in this Internship:

1. Amit Mondal
2. Anurag Das
3. Sourav Pahan



Voyage, 2024

Students of the Civil Engineering Department actively participated in Voyage, 2023, the annual college tech-fest. Working through a myriad of inter-disciplinary aspects, such as embedded systems and controlled automation systems, students displayed their prototypes, offering solutions against an array of problems.

Models:

- Robotic Solutions for Underwater Construction



- Sustainable Conch Shaped Dynamic Building



Notable Achievements of Faculty Members

- Shanku Mandal published an article to the “The Structural Design of Tall and Special Buildings, SCI Indexed, Q1 Journal”, Wiley entitled “A New Set of Wind Response Modification Factors for U Plan–Shaped Building Under Nonstationary Stochastic Wind”. <https://doi.org/10.1002/tall.70052>.

Notable Achievements of Students

- Rajib Mallick has successfully cracked WBPS '2022, and got posted in PWD as Junior Engineer (2025).
- Amit Mondal has joined Trans Concrete Pvt Ltd in 2025.

Future Plans of the Department

- To Monitor and Implement the Outcome Based Education Effectively.
- Attract and support innovative, inspiring and diverse faculty and staff to enhance research and teaching impacts, reputation and ranking.
- 3 Webinars, 2 Industrial Visit, 1 Workshop, 1 Alumni Talk & 1 Special Training Session/Workshop are planned to be organized during the upcoming semester session.
- Various Research oriented and Industry relevant topics are being decided as 4th Year Projects, as well as Innovative Projects for all the students.
- A significant number of students are involved to pursue NPTEL Online Courses and all Faculties are also offering these NOCs as Mentors, Special Classes are introduced to groom students appearing in GATE and other Competitive Examination.
- Faculties are also motivated for Publication in Journals / Conferences /Book Chapters



Department of Science & Humanities

Notable Achievements of Faculty Members

- Dr. Prosenjit Sen is guiding four research scholars under MAKAUT.
- Dr. Prosenjit Sen is the Convener of Research Advisory Committee of four Ph.D scholars of MAKAUT, WB
- Dr. Sukanya Das Chandra is the member of Research Advisory Committee of four Ph.D scholars of MAKAUT, WB
- Dr. Sukanya Das Chandra has been awarded the Active SPOC Certificate for July- Dec 2024 and Jan-April 2025 session by NPTEL, IIT, Madras.
- Poulomi Das received her doctoral degree from Seacom Skills University

Participation of faculty members in seminars/webinars/workshops/conferences/FDPs

- Dr. Prosenjit Sen attended the UGC sponsored FDP on "Recent advancements in Research Methodology & IPR" conducted by JIS University from 23.09.2024 to 27.09.2024
- Dr. Prosenjit Sen attended the AICTE-Sponsored 6-day Online ATAL FDP on "Advances in Materials Science for Sustainable Development and Industrial Applications" conducted by Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex from 10.02.2025 to 15.02.2025
- Dr. Prosenjit Sen attended the NPTEL Awareness Workshop conducted on July 09, 2025 by NPTEL, IIT Madras in association with Heritage Institute of Technology, Kolkata, West Bengal
- Dr. Sukanya Das Chandra attended the Swayam NPTEL SPOC Workshop East Zone 2024, organized by IIT, Kharagpur on 24.08.2024
- Dr. Sukanya Das Chandra attended the UGC sponsored FDP on "Recent advancements in Research Methodology & IPR" conducted by JIS University from 23.09.2024 to 27.09.2024
- Dr. Sukanya Das Chandra attended the AICTE-Sponsored 6-day Online ATAL FDP on "Advances in Materials Science for Sustainable Development and Industrial Applications" conducted by Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex from 10.02.2025 to 15.02.2025
- Dr. Sukanya Das Chandra attended the Swayam NPTEL SPOC Workshop East Zone 2025, organized by IIT, Kharagpur on 02.03.2025
- Dr. Sukanya Das Chandra attended the Webinar on launch of Online ATAL FDPs on 06.05.2025
- Dr. Sukanya Das Chandra attended the NPTEL Awareness Workshop conducted on July 09, 2025 by NPTEL, IIT Madras in association with Heritage Institute of Technology, Kolkata, West Bengal
- Anoar Ali Mollah attended an FDP on 'Recent Advancements in Research Methodology and IPR', 23-27 Sept, 2024 from JIS University
- Anoar Ali Mollah attended an FDP on 'Advances in Materials Science for sustainable Development and Industrial Applications', 10-15 th February, 2025, from Dr. Sudhir Chandra Institute of Technology and Sports Complex (SurTech), Kolkata

- Recent Advancements in Research Methodology and IPR, 23-27 Sept, 2024 from JIS University
- Advances in Materials Science for sustainable Development and Industrial Applications, 10-15 th February, 2025, from Dr. Sudhir Chandra Institute of Technology and Sports Complex(SurTech), Kolkata
- Mr. Arghya Dey participated and successfully completed a 5days FDP on the “Recent Advancements in Research Methodology & IPR, organized by jointly JIS University and UGC, from 23.09.2024 to 27.09.2024.
- Mr. Arghya Dey participated and successfully completed the AICTE-Sponsored 6-day Online ATAL FDP on "Advances in Materials Science for Sustainable Development and Industrial Applications" organized by Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex from 10.02.2025 to 15.02.2025.
- Mr. Arghya Dey participated in Webinar on ‘Building YUKTI Innovation Repositories in IIC institutions : Productizing Campus Ideas & Boosting Innovation Funding” organized by MIC, MoE, Govt. of India on 20.05.2025
- Dr. Poulomi Das participated and successfully completed a 5days FDP on the “Recent Advancements in Research Methodology & IPR, organized by jointly JIS University and UGC, from 23.09.2024 to 27.09.2024.
- Dr. Poulomi Das participated and successfully completed the AICTE-Sponsored 6-day Online ATAL FDP on "Advances in Materials Science for Sustainable Development and Industrial Applications" organized by Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex from 10.02.2025 to 15.02.2025.
- Rajlekha Sil attended The Educators’ Meet, organised by the Auckland University
- of Technology, in collaboration with Global Reach, held at The Park, Kolkata, on 01.12.2024
- Rajlekha Sil participated and successfully completed the AICTE-Sponsored 6-day Online ATAL FDP on "Advances in Materials Science for Sustainable Development and Industrial Applications" organized by Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex from 10.02.2025 to 15.02.2025.
- Rajlekha Sil has successfully conducted several career counselling sessions for classes 7-12 at Delhi Public School, Ruby Park

Research Work done by faculty members

- Sayan Jana, Prosenjit Sen, Sanjib Kumar Datta and Arghyatanu Manna, Fixed Point Theorem for Fuzzy Mappings in Banach Spaces, Bull. Cal. Math. Soc. 115(3) (2024), 261-266
- Sayan Jana, Prosenjit Sen, Sanjib Kumar Datta and Arghyatanu Manna, Theorem for Fixed-Point of Fuzzy mapping in Norm Spaces, Bull. Cal. Math. Soc. Accepted
- Debasmita Datta, Sayan Jana, Sanjib Kumar Datta and Prosenjit Sen, Theorem for Fixed-Point of Fuzzy mapping in Norm Spaces, Journal of the Indian Academy of Mathematics, Accepted
- P.Das, R.Barua, A.Dey, “Integrating Soil Moisture and Temperature Data using GIS Technology for Precision Farming” 7th Regional Science & Technology Congress, 2024-25.

Events, Seminars and Workshops organised by the department

- Pradipta Biswas arranged and attended 35 seminars in different Higher Secondary Schools around Shibpur, Uluberia, Bagnan, Chengail and Amta Area. Shibpur B E College Model School, Bagnan High School, Mugkalyan High School, Amta Pitambar High School, Amta Girl's High School were among them. OmDayal Group initiated to build up consciousness among the school students regarding the different professional courses that they can pursue after class 12 and their future possibilities.

- Pradipta Biswas arranged a one day AI Training program (Edu-AI) for the class XI and XII students of B E College Model School, Swami Vivekananda Institution, and Shibpur Bhabani Balika Vidyalaya.

- Rajlekha Sil organised a webinar titled 'Navigating Through Networks', on 9.08.2024. Dr. Dripto Bakshi, Assistant Professor, Dept. of Humanities and Social Sciences, IIT, KGP, was the esteemed speaker.

- Rajlekha Sil organised "Intersections between Society and Technology", a student presentation competition on 4.10.2024

- A Quiz Competition was organised by the Department of Science & Humanities in association with IQAC and IIC of OmDayal group of Institutions, to celebrate Constitutions Day. The event was arranged by Dr. Poulomi Das.

- A Poster Presentation Competition was organized by the Department of Science & Humanities in association with IQAC and IIC of OmDayal group of Institutions on the occasion of National Science Day 2025. The main theme was "Empowering Indian Youth for Global Leadership in Science & Innovation for VIKSIT BHARAT". Nearly 50 students participated from various departments by making posters. Mr.Arghya Dey along with Dr.Poulomi Das, assistant professor, Sc & Hu, arranged the programme.

- OmDayal Group of Institutions organized a special event, Jan Jatiya Gaurav Diwas 2024, under the OBC Cell and the Department of Science & Humanities. This initiative, aligned with the IQAC and IIC, sought to commemorate tribal pride and culture through interactive activities and competitions. Anoar Ali Mollah was the organiser for the event.

- The Internal Complaints Committee, in association with the IQAC and IIC of ODGI organised a webinar titled "Awareness on Women and Child Safety Services in Higher Education Institutions

- Dr. Prosenjit Sen organized Hands on Internship Program on Machine learning for Uluberia College students from 17.05.25 to 20.06.25

- Rajlekha Sil has successfully conducted several career counselling sessions for classes 7-12 at Delhi Public School, Ruby Park



OmDayal Group of Institutions
ENGINEERING | ARCHITECTURE | MANAGEMENT
AICTE & OAI Approved | NAAC Accredited | MARA/UTU (WBUT) Affiliated

In association with
INSTITUTIONS INNOVATION COUNCIL
Member of OGI

The Internal Complaints Committee
In association with IQAC & IIC of OGI Presents:
**AWARENESS ON WOMEN & CHILD SAFETY SERVICES
IN HIGHER EDUCATION INSTITUTIONS**



Debarati Choudhury
(Project Coordinator,
Sanjog)



Riddhi Bhattacharya
(Researcher Consultant,
Sanjog)

22.08.2025 **11:00 AM** **Google Meet**

Open to all Students &
Faculty members of OGI

Coordinator: Rajlekha Sil
Call: +91 86979 77954

[+91 8100500600](tel:+918100500600) | [9073307300](tel:+919073307300) | www.omdayal.com | contact@omdayal.com



Voyage 2025

Faculty members from the Department of Science and Humanities actively participated in Voyage, 2025 by guiding students in building projects, experiment set-ups and poster presentations.



Future Plans of the Department

- Organising various events, including seminars, webinars and workshops to enhance holistic skills in students.
- Contribute towards research endeavours, both inside and outside the college.
- Create sustainable pedagogical models for students.



Department of Business Administration (BBA)

Participation of students in seminars/quiz competitions/Coding competitions

1. On 19th November 2024, our students actively participated in a seminar titled “Peace in Entrepreneurship,” organized by the Department of Electrical Engineering in collaboration with the Academic Committee of OmDayal Group of Institutions.
2. On 21st November 2024, our students took part in a presentation session on “Social Media Campaign,” jointly organized by the Innovation Cell, IIC, and IQAC of OmDayal Group of Institutions. The events were held at the BBA Computer Lab and the Ground Floor Seminar Hall.
3. As part of the Janjatiya Gaurav Diwas celebration on 22nd November 2024, our students enthusiastically participated in the Sit and Draw Competition and the E-Quiz, organized by the OBC Cell in association with the Department of Science and Humanities, OmDayal Group of Institutions.

Research Work by Faculty Members

- Banerjee, D., Barua, R., Datta, S., & Pathote, D. (2025). The Use of Artificial Neural Networks in Biomedical Engineering. In Expert Artificial Neural Network Applications for Science and Engineering (pp. 33-50). IGI Global Scientific Publishing.
- Barua, R., Bhowmik, S., Banerjee, A., & Banerjee, D. (2024). The emerging advancement of robotics in the modern agriculture field. In Agriculture and Aquaculture Applications of Biosensors and Bioelectronics (pp. 256-268). IGI Global Scientific Publishing.

Journal publications/ Book publications

- Barua, R., Banerjee, D., (2025). Production Management and Automation, LAP Lambert Academic Publishing, ISBN-10 : 6206181618; ISBN-13 : 978-6206181613

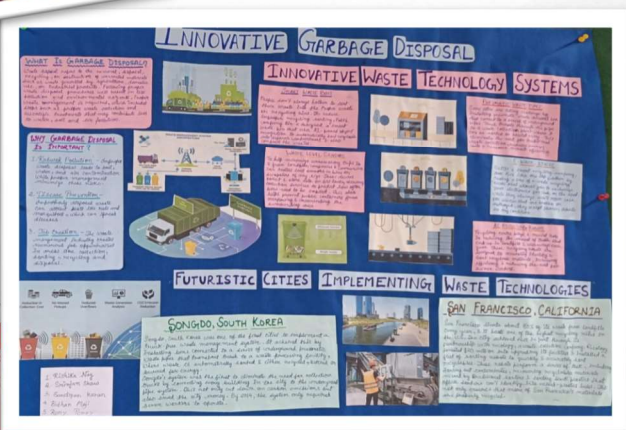
Participation of students in Industrial Training

The Department of Bachelor of Business Administration at OmDayal Group of Institutions organized an industrial visit to ITC Limited – Food Division in Uluberia. During the visit, students gained valuable insights into contemporary food processing techniques and industry best practices.



VOYAGE 2025

Our students actively participated with great zeal in the Tech Fest – Voyage 2025, demonstrating their creativity and technical skills across a range of events.



Future Plans of the Department

The Department is committed to continuous growth and academic excellence. Looking ahead, we aim to:

- Strengthen Industry-Academia Linkages through expert lectures, industrial visits, and internship opportunities.
- Encourage Research and Publication by students through workshops on research methodology, journal writing, and participation in academic forums.
- Enhance Community Engagement through outreach programs, awareness drives, and socially relevant projects, presentations and posters led by students.

