

Om Craft

2018



OmDayal Group of Institutions
Uluberia Howrah

OmDayal Group of Institutions - Now NAAC Accredited

It was a proud moment for the Institution to be awarded by the NAAC (National Assessment and Accreditation Council) in the First Phase, in 2017. We at OmDayal Group of Institutions intend to keep the good work going in the years to come.



Victorious!

OmDayal Group of Institutions emerged as 2nd rank holder based on the criteria of 'Top emerging private college in West Bengal' by Times Group. It is a landmark achievement and a great boost for our further progress



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From the Desk of the Principal



“A desire can change nothing, a decision can change something but a determination can change everything”.

It is my great pleasure to welcome you to OmDayal Group of Institutions (ODGI), an undergraduate engineering college, under the OmDayal Education and Research Society (ODERS).

The progress of the college over last 8 years has witnessed strong blend of state of the art infrastructure and highly experienced faculty, committed to provide quality education with focus on creativity and innovation.

The academic activities concentrate to help our students to gain strong knowledge base of theory subjects as well as practical application of

the same. We are continuously reviewing our teaching methodology for making sure to improve in thinking skills, analytical skills, communication skills and interpersonal skills of students as a part of our student development program.

There are ample scopes for co-curricular and extracurricular activities at our institute where students are encouraged to practice to enhance and show their talents. Our institute ensures that students prove themselves to be not only qualified engineers but also very responsible and good citizen of our country.

I congratulate our students and faculty members for their tireless efforts that's have come to fruition in the form of news letter.

Thank you

Prof. (Dr.) Arup Sinha

From the Desk of the Vice Principal



Nurturing creativity and inspiring innovation are two of the key elements of successful education, and a college newsletter is the perfect amalgamation of both. It harnesses the creative energies of the academic community, and distils the essence of their inspired imagination in the most brilliant way possible. Hence, I am delighted to know that the newsletter ‘OM CRAFT’ for the academic session 2017-18 is ready for publication.

I take this opportunity to congratulate the editorial board for bringing out this newsletter as per schedule, which in itself is an achievement considering the effort and time required. May all our students soar high in uncharted skies and bring glory to the world and their profession with the wings of education!

Thank You.

Prof. (Dr.) Prosenjit Sen

Accolades...



Paper Publications

Department of Computer Science & Engineering

- Saikat Pahari, Dhrubajyoti Ghosh, A Pal, (2017) An intuitionistic fuzzy multi-criteria decision making model for personal selection problem, Turkish Journal of Fuzzy Systems, Vol.8, No. 1, pp 17-32.
- Saikat Pahari, Dhrubajyoti Ghosh, A Pal., (2017) An online review based hotel selection using intuitionistic fuzzy TOPSIS method, Progresses in Computing Analytics and Networking, In Advances in Intelligent system and computing (710), pp 203-214, Springer.
- Piyali De, S Dey, (2017) ‘Security Risk Assessment in online Social Networking: A Detailed Survey’ in ICRCICN 2017, IEEE Explore (ISBN-9781538619315) 3-5 Nov,2017

Department of Electronics & Communication Engineering

- B Neogi, Sudipta Ghosh, Debasish Kundu ‘High DOF Interpreted EMG Data based Prosthetic’ Journal of Mechanics of Continua And Mathematical Sciences (ISSN 0973-8975), vol.11, no.2, pp23-26, July 2017.
- Z Das, Sudipta Ghosh, Biswarup Neogi, Saswata Das ‘Virtually Essence Effect Creator Prototype Development Effort - A case study Journal of Mechanics of Continua And Mathematical Sciences (ISSN 0973-8975).
- Sudipta Ghosh, ‘Involuntary Drainage Cleaning System’ Indian Patent Journal no. 26/2016. File no. 201731028497 issued April 27, 2018.
- Sudipta Ghosh, ‘Ultra Safety Helmet’ Indian Patent Journal no. 26/2016. File no. 201731028497 issued April 27, 2018.

Department of Civil Engineering

- Pampa Sen , S. N. Roy, Nirjhar Dhang ‘Eco-friendly performance with strength development in fibre reinforced concrete using jute fibre and fly-ash’ proceedings of ‘International Conference on Environment, Health and Public Nexus - 2017(ICEHPN-2017)’ conducted at JSS University, Mysuru, Karnataka

Department of Mathematics

- Prosenjit Sen, A Maiti, and G P Samanta, ‘Dynamics of a Symbiotic Model with herd behaviour and strong Allee effect’, Neural Parallel and Scientific Computations, 25: 149-164, 2017.
- A Maiti, Prosenjit Sen and G P Samanta, ‘A SIQR model with a nonlinear incidence’, Journal of Ultra Scientist of Physics Sciences, 30(2), 143-152, 2018.

- A Maiti, Prosenjit Sen and G P Samanta, 'Analysis of an SIQR model', Journal of Ultra Scientist of Physics Sciences, 30(3), 218-226, 2018.

Department of Humanities

- Monita Mitra, 'Motivational Factors Affecting Teachers' 'Journal Kindler' (Journal No. 42831, ISSN: 0973-0486 issued April, 2018).
- Monita Mitra, 'Developing Learner Autonomy & Enriching Teaching Learning Process through ICT in ODL' Book (ISBN No. 97893-82112-59-5) issued Nov 2017.
- Sharanya Ghosh, 'Mind the Gap: Improvising A Neo-narrative and Teaching Medium for The e-Generation Learners' in Beyond The Zoned Space: Teaching and Learning in The Digital Era (ISBN: 978-81-928721-4-8).



Paper Presentations

Department of Computer Science & Engineering

- Prof. Saikat Pahari, presented paper titled 'Online review analysis and decision making' at International Conference on Computing, Analytics and Networking (ICCAN 17) at KIIT University, Bhubaneswar.
- Prof. (Dr.) Dhrubajyoti Ghosh, presented paper titled 'Analysis of faculty teaching using MCDM' at International Conference on Communication, Management and Information Technology (ICCMIT '18), Madrid, Spain.

Department of Mechanical Engineering

- Prof. Ramen Kanti De, presented paper titled 'Conceptual design and performance analysis of a parabolic trough collector supported multi-commodity cold storage' at 2nd International Conference Advances in Mechanical Engineering [ICAME], SRM University, Chennai, India, March 2018.
- Prof. Ranjit Barua, presented paper titled 'Design and development of Alginate: Poly-Llysine Scaffolds by 3D printing and studying their mechanical, structural and cell viability properties' at 2nd International Conference Advances in Mechanical Engineering [ICAME], SRM University, Chennai, India, March 2018.

Department of Civil Engineering

- Prof. Pampa Sen attended 'International Conference on Environment, Health and Public Nexus - 2017' (ICEHPN-2017) at Mysuru, Karnataka and presented a technical paper on 27th and 28th July 2017.

Department of Humanities

- Prof. Monita Mitra presented a paper titled 'Professional Development for Teachers in the 21st century- Strategies of Peer Coaching' at a Two Day International Conference organised by Regional Institute of Education, NCERT, Bhubaneswar, from 14-15 October 2017

- Prof. Monita Mitra presented a paper titled 'Right to Education - The Current Status of Education of Dalits in Kolkata' at a Two Day National Conference organised by Regional Institute of Education, NCERT, Bhubaneswar, from 7-8 Dec 2017
- Prof. Monita Mitra presented a paper titled 'Voices of Dissent by the female protagonists of Anita Desai's Novels' at a one day International Conference organised by English Department, University of Mumbai, on 3 February 2018
- Prof. Monita Mitra presented a paper titled 'Building Perceptions and Developing Ethical Reasoning through the teaching of Ethics to engineering students - An interdisciplinary Approach' at a Two Day International Seminar organised by Department of English, BHU, Banaras, from 30-31 March 2018
- Prof. Monita Mitra presented a paper titled 'Motivational Factors Affecting Teachers' Performances in Private Engineering Colleges - A case study of two Engineering colleges in Howrah' at a one day National Seminar organised by Army Institute of Management, Kolkata, on 21 April 2018
- Prof. Sharanya Ghosh presented a paper titled 'Class Apart: A Writer, Her Protagonist and A Story of Crisis' at a Two Day International Seminar organised by Jhargram Raj College (sponsored by Department of Higher Education, Science and Technology & Biotechnology, Govt. of West Bengal), from March 15 to 16, 2018.

Participation in Seminars and Workshops



Department of Computer Science & Engineering

- Prof. Dipankar Hazra attended a workshop on 27th Feb, 2018 named 'Aiming for excellence; pathways to institutional advancement through research' organized by AICTE and Clariavate Analytics.
- Prof. Piyali Dey attended a workshop 'Smart India Hackathon' on 9th Jan 2018 at Kolkata organized by AICTE.
- Prof. Dhrubajyoti Ghosh attended a workshop on 'NPTEL local chapter for east zone' organized by IIT Khargapur on 6th Jan 2018.
- West Bengal government organized a national level workshop to ensure a Cyber Safe Bengal. It was named 'Knowledge Exchange on Cyber Security'. The workshop was held in the Biswa Bangla Convention Centre in New Town on 16th March 2018. Main objective is to fix a blueprint on cyber security. Students from 3rd year Computer Science attended the workshop. Prof Sandip Dey and Prof Dhrubajyoti Ghosh accompanied them.

Department of Electronics & Communication Engineering

- Prof. Poulomi Das attended short term training course on 'Research Methodology in Technical Education', organized by National Institute of Technical Teachers' Training and Research from 3rd July to 7th July 2017.

- Prof. Swapan Majumder, attended a one day workshop organized by AICTE & Clarivate Analytics on 'Aiming for Excellence: Pathways to Institutional Advancement through Research' on 27th February 2018 at Aliah University.

Department of Civil Engineering

- Prof. Srijan Mukherjee and Prof. Subrata Halder have attended 'Faculty Development Programme: Surveying by Total station with DGPS' at NITTTR, Kolkata from 18/12/2017 to 22/12/2017.
- Prof. Srijani Sett attended a seminar on 'Awareness Workshop on Smart India Hackathon 2018' on 09/01/18 at Techno India College of Technology, Megacity, Newtown, Kolkata.
- Five students of civil engineering department have attended 4 Work Day Programme from 5th February 2018 to 8th February 2018 at Heritage Institute of Technology, Kolkata on various fields of civil engineering including bridge, road construction techniques etc.
- Prof. Srijan Mukherjee, Faculty of the department, have attended one day Faculty development programme on MXROAD with Open Roads Technology at Bentley Systems India Private Limited office on 03.08.17.
- Subrata Samai (4th year) and Subhajit Basak (3rd year), were deputed for the event "Student Ambassador Meet" at Bentley Systems' Kolkata Office on 6th of November, 2017. They also have attended a seminar on various software of Bentley and their usage on that day.
- Faculty members and students of the department have attended inter-operable sessions on 'BIM Enabling Technology Solution for Road & U/G Utilities Sector: Complete End-to-End Technology Solution for Road Infrastructure' offered by BENTLEY.
- Prof. Pampa Sen participated in a one-day Workshop organized by AICTE & Clarivate Analytics on Aiming for Excellence: Pathways to Institutional Advancement through Research on February 27, 2018 at Aliah University, (Park Circus Campus), Kolkata 700014.

Department of Mechanical Engineering

- Faculty members and students actively participated in two-day National Seminar on 'Recent trends in Mechanical Engineering' organized by Future Institute of Engineering and Management (Sonarpur, WB) on 28th & 29th March 2018.
- Faculty members actively participated in the workshop on 'Aiming for Excellence: Pathways to Institutional Advancement through Research' conducted by AICTE (ER) at Aliah University (Park Circus campus, Kolkata) on 27th February 2018.
- Faculty members actively participated in the five-day workshop on 'Research Methodology in Technical Education' conducted by National Institute of Technical Teachers' Training & Research [NITTTR] at Kolkata from 3rd – 7th July 2017.

Collaborations...

Institution of Engineers (India) IEI: The College established a Student Chapter with the Institution of Engineers (India) for the departments of Civil Engineering, Mechanical Engineering and Computer Science Engineering. The liaison will give the students of these three departments will give them an opportunity to pursue different curricula and activities directed by IEI.



The Confederation of Indian Industry (CII): The Confederation of Indian Industry (CII) collaborated with OGI in an endeavor to build an interface between academia and industry through a one year student engagement programme. The programme highlights are factory visit, industry experts' visit to the institutions, career counseling and similar career related opportunities.

The institution also shares a tie-up with organizations like CoCubes and AMCAT as part of its various student development programmes. The students are assessed thoroughly for enhancement of their future employability and also for placement assistance.

New Horizon...

Electrical Engineering is our new addition in engineering streams from coming academic session i.e. 2018-19.

Electrical Engineering is one of the important core branches of engineering that has strong industrial requirements. Since we are observe fast industrial growth across the developing country like India, the requirement for electrical engineers is also increasing day by day.

There are tremendous opportunities in the domain of electrical engineering in Electricity Generation, Transmission and Distribution sector in India with Central and state governments as well as with private organizations.

Studying of Electrical Engineering also develops problem solving and thinking skill among students as a part of preparation for their aptitude test to qualify for employment in core as well as in Information Technology (IT) industry.



Looking beyond the Classroom...

INSPIRE Science Camp (Vigyan Manas-5)

An 'INSPIRE Science Camp' (VIGYAN MANAS 5) sponsored by DST, Govt. of India was organized by college at college campus from 25th to 29th July 2017. In this camp students who secured 90% and above marks in Madhyamik and are pursuing science participated. The selected schools were first informed about the camp and the eligible participants enrolled themselves by filling up registration forms.

Every day two or three sessions were conducted by eminent speakers of various fields of science. Quiz competition, presentation on a specific science topic and some hands on experiment sessions were also there. Dr. Debi Prasad Duari from Birla Planetarium, Dr. Paromita Roy from JBNSTS, Dr. Sukhen Das from of Jadavpur University, Dr. Alokesh Maiti from Vidyasagar College mesmerized the audience. Dr. Arindam Rana from City College demonstrated various kinds of experiments. Prof. Krishnendu Chakroborty showed many experiments with unused household materials. School wise participants delivered power point presentation on specific science topics. Beside that the convenor, Prof. Pranab Biswas, organized a great and exciting quiz competition. Every day the participants were given gifts such as school bags, books, calculator etc.

On the final day, participants gave their feedback about this camp. Our efforts received high appreciation from both, the participants and the guests/ mentors. Prize for various competition were given and certificates were distributed by Principal. The VIGYAN MANAS 5 concluded with convener, Prof. Pranab Biswas's speech with vote of thanks for co-operation from DST, college administration, committee members, students and all who are directly and in-directly related to this inspire science camp.



A journey of a thousand miles continues – Voyage 2017 (Technical Festival)

Voyage, annual science and technology festival is very popular amongst the masses. This year was no different as large number of students participated with their projects reflecting some innovative application. Since the morning of August 7, 2017, the event witnessed a good number of tech enthusiasts throughout the day. Students displayed projects on a varied range of technology, prepared under constant supervision of their departmental mentors. Eminent persons from the industries came to cheer the young guns and motivate them for more such future endeavours. The viewers graced the event by sharing their views with the students. The event proved to live up to the expectations of many who were dearly waiting for this day.



Parichay 2017(Freshers Welcome Programme)

Generations come and generations go, but the earth remains forever.

That is the law of life, that is the law of nature. The life force of an educational institution is its students. It is their journey into and out of the institution that marks its fate. OGI's yearly freshers welcome programme captures this very essence of education within an institution. On November 3, 2017 senior students ushered in their fresh juniors with greetings, warmth, gifts, songs, dance, recitation, music, competition and love. Organized in the cozy auditorium of Rabindrabhavan, Uluberia, Parichay captured the moments of initiation- a rite of passage- experienced by the Young ones, presided over by the Older ones. Fun and frolic, pranks and laughter, entertainment and excitement, food and chats- all made up for the day of Parichay.

Annual Sports 2018

Sports do not build character. They reveal it

Organizing a sports event in the college is one of the important activities to maintain academic environment in college. The Annual Sports of OmDayal Group of Institutions was held on 19-02-2018 & 20-02-2018. The outdoor games i.e. Cricket & Football were held Nabasan Ground, very near from the college. The indoor games i.e. Chess, Carrom, Table Tennis and Badminton were held.

The playground was full of zeal and excitement. Indoor events were conducted for both boys & girls. The participants mesmerized the audience with their energetic performances. The teaching and non-teaching staffs of the college extended their full support for the smooth conduct of all the events on time. The college principal applauded the efforts of the students & the teachers for making the event a huge success.



Table Tennis
Champion (Men): Sk Abul Qasim Azad
Runner up (Men): Akash Nayak
Champion (Women): Sahini Kar
Runner up (Women): Tasneem Ali

Football
Champion: ME
Runner up: CE

Cricket
Champion: ME
Runner up: B.Arch

Chess
Champion: Pankaj Kumar Jha
Runner up : Tanay Samanta

Badminton
Champion (Men): Nawal Kumar Singh & Manirujjaman
Runner up (Men): Sarajit Bhowmik & Debashis Sarkar
Champion (Women): Sahini Kar & Shital Shaw
Runner up (Women): Sanjukta Koley & Sagupta Parveen

Carrom
Champion (Men): Kaashif Zaman & Aman Ghous
Runner up (Men): Suman Chatterjee & Chiranjib Show
Champion (Women): Sumana Banerjee & Anandmayee Maity
Runner up (Women): Farahat Banu & Monalisa Manna



Annual Fest (Ullash 2K18)

As the mercury began to soar late in March the college geared up for the third edition of Ullash, the OGI annual fest. The college witnessed this grand gala event on March 22 and 23, as the students and teachers celebrated Youth with games, fashion show, talent hunt, dance competition, war of bands. TRAP's groovy and soulful music resonated through the college premises, while Underground Authority shook the stage as well as the ground with its powerful rock music. An event of myriad shades and moods, Ullash 2K18 marks OGI's steady journey into future- young at Heart and determined in Spirit.



Striving ahead...

Department of Computer Science & Engineering



Job while studying at final year (Earn while you learn):

University is giving an opportunity to the students who have started working in last semester to give their examination online through NPTEL which is very helpful to our students like **Arka Bhowmick**, **Rohit Dhara**, **Tania Roy** of 4th year who have already started working with reputed companies.

Coding Competition ('C_ODERS_18')

A great way to improve your skills when learning to code is by solving coding challenges. Solving different types of challenges and puzzles can help you become a better problem solver, learn the intricacies of a programming language, prepare for job interviews, learn new algorithms, and more. An intra college coding competition named 'C_ODERS_18' was held on March, 2018. Students solve interesting problems with C and Java language. Shreyans Mishra, Sourav Patra and Kautav Hazra respectively held 1st, 2nd and 3rd positions.



Voyage 2017

Technical exhibition 2017 held on August, 2017 on college premises. Students of B.Tech Computer Science & Engineering implemented projects like Quad Copter, Line Follower Robot, Mini CNC Plotter, All Terrain Vehicle etc. MiniCNC Plotter by Arka Bhoumik bagged 1st prize.



Outstanding Reviewer certificate from 'Elsevier', Netherland

Faculty members of CSE department are engaged with journal publication and reviewing process in regular basis. Prof Saikat Pahari achieved Outstanding Reviewer from Elsevier publisher, Netherland in 2017.



Future Plans

To organize a conference Data Analytics and Cloud Computing.

To organize a 5-day workshop on the latest technologies like Big Data, Machine Learning, AI etc,

To improve the analytical skill of students through their engagement in complex software development projects.

Department of Electronics and Communication Engineering



Industrial Visit

Department of Electronics & Communication Engineering organized one day Industrial visit on 'Solar Thermal System' at Geetanjali Solar Enterprise, Kasba Industrial Estate, Kolkata on 28th February, 2018.

The main objective was to educate the students both in theory as well as in practical for on Installation, Testing, Operation and Maintenance, Marketing and Commercialization of solar energy devices in the field of solar thermal and photovoltaic.

In this industrial visit students were familiarized with:

- Solar Photovoltaic Design, Technology and Application.
- Solar Thermal Design, Technology and Application.
- Wind-Solar Design, Technology and Application.
- Opportunities, Challenges for implementation of SPV Power Plant.



Webinar

A one day webinar was organized by department of Electronics and Communication Engineering in collaboration with Maven Silicon Softech Pvt Ltd on "RTL DESIGN & FUNCTIONAL VERIFICATION". This was arranged for 4th year students on 6th April, 2018. The main objective was to incline students towards VLSI designing, testing and brief discussion on the scope and challenges of VLSI design engineers



Students' Achievements

Anveshan

Students of 3rd and 4th year of our department made our college proud by presenting their research project in ANVESHAN: STUDENT RESEARCH CONVENTION held on 6th and 7th February, 2018 at Maulana Abul Kalam Azad University of Technology, West Bengal, under TEQIP-III. This session was chaired by Prof. Ajoy Kumar Ray, Director, IEST, Shibpur

- Sayanita Biswas, Sourav Das, Sujit Jana, students of 4th year ECE presented their research project on 'SECURITY SYSTEM USING RFID CARD AND READER' in ANVESHAN.
- Soumyajoti Mukherjee, Sounak Mondal, Avik Sarkar students of 3rd year ECE presented their research project on 'BLUETOOTH CONTROL HOME AUTOMATION' in ANVESHAN.



The young spark of our department has proved their true mettle in various fields:

- Sukrita Srivastava has qualified in GRE.
- Anupama Gupta and Sabina Yasmin have qualified in GATE.



Tech Fest- Voyage - 2017

Apart from course curriculum, students had participated in Tech Fest Voyage-2017 with their research project models.

- Sujit Jana, Aranya Sundar Bera, student of 4th year designed 'SECURITY ACCESS USING RFID READER & CARD'. This model was selected as best model from ECE department.



- Sorav Das & Sayanita Biswas, student of 4th year designed 'ARDUINO BASED SOLAR TRACKER'. In this project solar panel will always face towards the sun to get maximum energy. They also designed 'BLUETOOTH CONTROLLER ROBOT'.
- Soumyajoti Mukherjee, Avik Sarkar, Shilpa Adak, Debjit Karar, Sounak Mondal, student of 3rd year designed 'VOICE CONTROLLED HOME AUTOMATION USING ARDUINO'.
- Subham Nanda, student of 2nd year had presented two project models 'LASER SECURITY SYSTEM' and 'HOME AUTOMATION USING WIFI'.
- Sayan Sau and Farhat Banu, student of 2nd year had designed 'AUTOMATIC STREET LIGHT'.
- Anubhab Mondal and Sourav Dutta, student of 2nd year had designed 'GROUP MOBILE CHARGER'.

Industrial Training

Industrial training helps the students to build their practical knowledge about the vast field of Electronics. Students of ECE department are given in-plant training from recognized organizations like-

- Defence Research and Development Organization (DRDO)
- Prasar Bharati
- BSNL
- Jadavpur University
- Indian Railway
- National Small Industries Limited
- Hindustan Copper Limited



Future Plans

Students of 3rd year ECE have taken an initiative to conduct a technical workshop by applying their knowledge, on 'ROBOTICS' for 1st and 2nd year students in July 2018 in our college. We will expect that this workshop will be immensely innovative and vibrant for all students.

To bring quality adjunct faculty to extend diversified knowledge to our students.

To organize a Seminar on Recent Trends of Electronics and Communication Engineering in next academic year.



Department of Civil Engineering

Seminar on "CONSTRUCTION METHODOLOGY & MANAGEMENT"

Modern construction techniques, importance of concrete technology, sustainable urbanization and wise use of natural resources, importance of bar bending schedule in construction was organized in our college by Civil Engineering department on 12th August, 2017. Prof. Pulak Chattopadhyay (Project Manager, L&T – Kolkata Metro) and Prof. Arun Chatterjee (Dy. Project Manager, L&T – Kolkata Metro) delivered their joint lecture on 'The Modern MRTS-Elevated Metro'. A lecture on 'Concrete Technology and its uses' was delivered by Prof. K.K. Ganguly (Executive Director, M/s Development Consultants Limited). Prof. Tapas Ghatak (Former Head of Department-Environment Cell, Urban Development Department, Government of West Bengal, Urban Planning Advisor, GOI, GIS Expert) has delivered his lecture on 'Sustainable Urbanization and wise use of Natural Resource.' Finally, Prof. Kunal Biswas & Prof. Arun Chatterjee described the last various application of 'Bar Bending Schedule'. research project on 'BLUETOOTH CONTROL HOME AUTOMATION' in ANVESHAN.



Departmental involvement in Voyage 2017

Worth mentioning projects of Voyage 2017 from CE Dept:

- A Diverging Diamond Interchange Highway
- Gravity Dam with Automatic Lock Gate
- Various Types of Foundation
- Sky Bus Metro (with Advanced Technology)



Anveshan

Three students of our department, Subrata Samai, Nawal Singh and Saswati Dey, successfully participated and presented their research project on 'Diverging Diamond Interchange' in "Anveshan: Student Research Convention" on 6th and 7th February, 2018 at MAKAUT, West Bengal under TEQIP-III. It was highly appreciated by Prof. Ajoy Ray (former Director, IIST) and other visitors.



Industrial Visit

One day Industrial visit to Sewage Treatment Plant & Sewage Lifting station at Newtown, Action area IIB & IIC

A one day educational tour was organized at 'Sewage Treatment Plant' at Newtown to understand the practical knowledge of the Sewage management and treatment process, Construction methodology, Operation of the Plant and Concept of Plant Layout. This educational visit was conducted for the 6th and 8th semester students of Civil Engineering Department on 26/02/18 (Monday). The visit was performed by 40 students and 6 faculty members.



Consultancy Services

Consultancy Service provided at Sintex Factory: OPERATIONAL PROBLEM OF 12 TON HEATING CHAMBER ON RAIL AT M/S SINTEX FACTORY ULUBERIA: Three members of Consultancy team (Prof. Srijan Mukherjee, Mr. Pritam Roy & Mr. Palash Das) of Civil Engineering department visited on 18th of December, 2017 to study and analyse the problem and the level difference of rail at various locations to understand the cause of the ruptured axle. Detailed report with Remedial Solution was submitted to M/S SINTEX after reviewing by Prof. Goutam Bandhopadhyay and Prof. Supravat Chattopadhyay.

Industrial Training

Students of Civil Engineering department (mainly 6th Semester) have undertaken industrial training every year during semester break in the various govt. and non govt. organizations as indicated below:

- Larsen & Toubro Limited,
- Simplex Infrastructure Ltd,
- M/S K.N. Dadina Engineering And Technology Ltd
- Bridge & Roof Co. (India) Ltd
- F.N.C. Construction & Co
- Ashoka Buildcon Ltd
- Mackintosh Burn Ltd.
- Public Works Dept, Nabanna, Howrah
- Central Public Works Department, Kolkata
- Westing House Saxby Farmer Ltd
- Kolkata Port Trust
- STUP Consultants Private Limited
- Indian Oil Corporation



Achievement by Students

Students from the department made all proud by securing seat for higher education at some prestigious institutes in India.

- National Institute of Construction Management and Research (NICMAR): Subhasis Manna, Saurabh Bera, Pratik Dutta, Supriyo Dutta, Mrinal Dipak Shah, Bhen Prakash Roy, Saddam Hossain, Shouvic Dhara are among the students who got their degree from NICMAR.
- National Institute of Technology (NIT): The prolific knowledge of Anibrata Chatterjee, Britika Mazumdar and Tanmoy Maity made them competent for NIT s.
- Students got placed at some very reputed companies such as M/S Al Turki Enterprise, M/S B.Kumar, M/S Punj Lloyd, M/S Larsen & Toubro, M/S Al Tasnim, Desbuild Kriss Cooper, Hitachi Ltd, M/S Benjamin West, Skipper, Bridge & Roof, STUP Consultants Pvt Ltd.

Future plans

A 36-hr software training programme on ETABS software will be introduced in training for the students of Civil Engineering Department for career advancements. It is the ultimate integrated software package for the structural analysis and design of buildings. From the start of design conception through the production of schematic drawings, ETABS integrates every aspect of the engineering design process. An introductory seminar on 'ETABS Software Training' has been already arranged by Civil Engineering Dept. with the help of Shaurya Innovation (OPC) Pvt. Ltd. on 26th April 2018 for the interested students.



Another workshop on 'Microsoft Project Management' or 'Primavera' software is being planned in next academic session. The software are required to assist a project manager in developing a plan, assigning resources to tasks, tracking progress, managing the budget, and analyzing workloads.

Department of Mechanical Engineering

Seminars and workshops

- A workshop on '**Recent Advances in Non-Conventional Machining**' was organised by the Department of Mechanical Engineering, OGI on 30th August 2017. The aim of the workshop was to make the students aware of the non-conventional/traditional machining processes in modern industrial approach. Respected Speaker, Prof. Sibabrata Mondal [Scientist – C, Society for Applied Microwave Electronics Engineering & Research (Govt. of India) - Kolkata Centre], discussed the principle, application and procedure of different types of non-conventional machining processes, as well as their advantages and disadvantages.



A seminar on "Applications of Solar Energy for Controlled Environment Cultivation and Food Preservation" was organised by the Department of Mechanical Engineering, OGI on 27th February 2018. The aim of the seminar was to make the students aware of the utilization of solar energy in greenhouse technology and food preservation (cold storage). Respected Speaker, Dr. Aritra Ganguly



[Assistant Professor, ME Department, IEST (Shibpur)], discussed the principle and application of solar greenhouse technology in protected cultivation of rose flowers round the year in the climatic condition of Bagnan, Howrah. The need and viability of solar supported cold storage facilities for short and long term food preservation were also discussed.

Voyage 2017

The Annual Tech Exhibition 'VOYAGE' was organized by OmDayal Group of Institutions in August 2017. The students from Department of M.E. exhibited several technical models viz. EOT Crane, Obstacles Avoiding Robot, Portable Air Cooler, etc. The operating EOT Crane model designed by a group of 3rd Year students secured the 1st position in the Department.



Industrial visit

- The Department of M.E. organized an Industrial Visit at 'Manis Baking Solutions Pvt Ltd' food park, Dhulagarh (WB), for the first year students (Engineering & Architecture) on 7th September 2017.
- An Industrial Visit was organised for the students of Department of Mechanical Engineering at 'Betterman Engineers Pvt Ltd', Uluberia Growth Centre, Birshibpur (WB), on 13th February 2018.



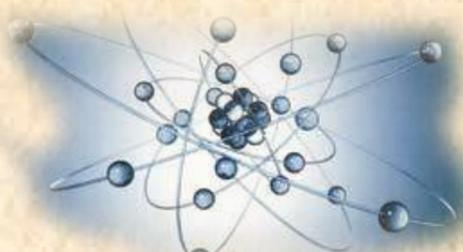
Industrial training

- The students of Department of Mechanical Engineering underwent Industrial Training programs in reputed organizations like
- BURN STANDARD Co. LIMITED
- BETTERMAN ENGINEERS PVT LTD
- SINTEX
- KOLKATA METROPOLITAN DEVELOPMENT AUTHORITY
- KOLKATA PORT TRUST



Future plans

- The Department of M.E. is going to induct ROBOTICS in Advanced Manufacturing in the upcoming academic semester.
- As OmDayal Group of Institutions is going to introduce D.Voc as per AICTE norms, the Department of M.E. is offering the following four courses:
- Refrigeration & Air Conditioning
- Production Technology
- Industrial Tool Manufacturing (ITM)
- Automotive Manufacturing Technology



Department of Physics

The subject lays the essential foundation for all branches of engineering and the faculty members do share their knowledge to meet the needs of the students. The faculty members are actively engaged in small projects along with teaching activity. As a mark of their activity they published various posters related to Physics designed by students of various department of first and second year. Especially the students from 1st year ECE designed a simple door alarm by using hanger clip, batteries and buzzer. They designed the circuit and prepared it successfully. The faculty members guided them. Student also prepared different crystal structures. In near future the department has a plan to use its laboratory facilities to develop more useful projects.

Apart from this, the Physics Department of OmDayal Group of Institutions organized a seminar on “Nanomaterial and its application” on 26.07.17. Prof. Sukhen Das, Dept. of Physics, Jadavpur University was the speaker. The objective of the seminar was to motivate our students about the recent trends in nanomaterial research.

Future plans

In near future the department has a plan to work on interdisciplinary project work.



Department of Mathematics

The Department of Mathematics provides a strong foundation of Mathematical basics which are building blocks of all subjects of Engineering and Architecture fields. The objective of the department is to impart quality education to the engineering students in mathematics so that they can apply the mathematical knowledge to the problems arising in various disciplines of engineering, Science and technology.

Recently on 27.07.2017 Department of Mathematics organized a Special Lecture on ‘An Introduction to the Qualitative Theory of Differential Equations’ by Dr. Alakes Maiti of Vidyasagar Evening College.

Future plans

Department is try to organize a national level seminar with computer Science & Engineering Department.



Department of Humanities

The Humanities Department at OGI offers an interdisciplinary approach to the study of the Humanities subjects like Ethics, Economics and Management studies, intellectual and cultural practices and traditions in world civilizations. The department aims at creating a knowledge community with strong human values, discerning social awareness and excellent communicative skills.

An interactive relationship is maintained between the students and faculty members who enable the students to develop a sound foundation in their subjects in a conducive environment. The Department continuously strives to bring out the positive traits and the talent of the students.

Future plans

Planning a multi disciplinary workshop or seminar integrating management and language learning.

Upgrading the language lab



Department of Chemistry

A workshop named 'Witty Chemistry and its Challenges' was organized by the Department on 28.07.2017 in which Dr. Arindam Rana, Associate Professor, Department of Chemistry, City College, Kolkata performed experiments and presented through teaching and learning styles to attract students attention and interest and to improve their problem understanding skills.

Future plans

To promote departmental research in Inorganic field.

To organize conferences, seminars and workshops to disseminate in the field of emerging trends in Chemistry.

To conduct more number of syllabus oriented seminar from students.



Editorial Board

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Reflections by the Editor

When an enduring thought becomes real, it's exciting experience. OmCraft is one such thought that has stepped into its 3rd volume. This edition is a snapshot of the various activities and advancements associated with OmDayal Group of Institutions from June 2017 to April 2018. Here we chose to present articles based on our target audience. This newsletter will serve to reinforce and allow increased awareness, improved interaction and integration among all of us. The progress of any academic institution mainly depends on people who work behind the scenes, round the clock, planning things to the smallest. This newsletter will be a medium to provide acknowledgement to these efforts and its results. It is expected that wide support for this mission will be provided through the reader's valuable suggestions and comments..... Happy Reading!

Prof. Pranab Biswas

Editor
OmCraft



Upcoming Campus Events

- EAC (Entrepreneur Awareness Camp) : 25th to 27th July 2018 (Subject to approval by DST, Govt. of West Bengal)
- Tech Fest: 17th to 18th August 2018
- Conference on 'computing, communication & system' from 1st to 2nd February 2019.



OmDayal Group of Institutions

Engineering College

AICTE approved NAAC accredited and
MAKAUT (formerly WBUT) affiliated Institution

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