



SurTech

DR. SUDHIR CHANDRA SUR INSTITUTE OF TECHNOLOGY AND SPORTS COMPLEX

540, DumDum Road, Surer Math (Near Dum Dum Jn. Station), Kolkata-700074

Website: www.surtech.edu.in, Email: info@dsec.ac.in

Affiliated to Maulana Abul Kalam Azad University of Technology

West Bengal, WBSCTVESD and Approved by AICTE



JIS GROUP

Educational Initiatives



ANNUAL NEWSLETTER

AY (2021-22)

Department of Civil Engineering

SurTech

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From Managing Director's Desk

Dear Team,

I hope this message finds you all in high spirits and good health. As we step into a new season of growth and progress, I am delighted to extend my warmest greetings to each member of our esteemed Civil Department.

I am honored to address you all as the Managing Director of this department, a role that I hold with immense pride and responsibility. It is with great pleasure that I present our very first newsletter, a platform where we will come together to celebrate our achievements, share our knowledge, and foster a strong sense of unity and collaboration within our department.

The Civil Department has been at the forefront of our organization's success, contributing significantly to the development of critical infrastructure projects that shape communities and societies. Through our unwavering commitment to excellence, innovative thinking, and dedication to safety, we have consistently delivered projects that stand as a testament to our capabilities.

This newsletter is more than just a compilation of updates; it is a reflection of our collective efforts and the spirit of teamwork that drives us forward. We will feature articles that highlight our ongoing projects, showcasing the brilliance of our engineers and the ingenuity of our solutions.

In addition to celebrating our successes, this newsletter will be a platform for learning and growth. We will feature technical insights, case studies, and best practices that will enable us to stay at the cutting edge of the industry. I encourage each member of our department to contribute their expertise, share their knowledge, and actively participate in enriching the content of our newsletter.

As we navigate the challenges of our industry, we must also focus on sustainability and environmental responsibility. Let us use this platform to discuss ways we can integrate sustainable practices into our projects, creating a greener and more sustainable future for generations to come.

I also want to express my gratitude to our exceptional team for their dedication and hard work. Your passion for your work and commitment to excellence drive us forward, and I am confident that together, we will continue to achieve new heights of success.

I look forward to seeing this newsletter evolve into a vibrant medium of communication and exchange of ideas. Let us use it to celebrate our achievements, learn from one another, and foster a strong sense of camaraderie within our department.

Once again, thank you all for your unwavering dedication to our department and our organization. Together, let us build a future that is marked by progress, innovation, and positive change.

Best regards,

Sardar Taranjit Singh
Managing Director
JIS Group



Principal's Message

Greetings to all members of our esteemed Civil Department!

As we embark on a new academic year, I am delighted to extend my warmest welcome to each one of you. I hope this message finds you all in good health and high spirits as we come together to celebrate our passion for civil engineering and the collective pursuit of knowledge.

I am honored to address you as the Principal of this esteemed institution, a position that fills me with immense pride and responsibility. Our Civil Department has always been at the forefront of excellence, fostering a culture of innovation, research, and academic rigor.

This newsletter serves as a bridge between our academic community and the outside world, providing a glimpse into the remarkable achievements and progress made by our department. Through this platform, we can share our success stories, academic accomplishments, and research endeavors with the wider community.

Our Civil Department has consistently produced outstanding engineers who go on to shape the world with their expertise and creativity. As we move forward, let us continue to nurture a learning environment that encourages curiosity, critical thinking, and a commitment to excellence.

This newsletter will showcase the dedication of our faculty and staff, whose tireless efforts have contributed to the success of our department. It will also serve as a testament to the hard work and determination of our students, who are the heart and soul of our academic community.

As we navigate the challenges of our field, we must also address the importance of sustainability and social responsibility in civil engineering. Let us use this platform to discuss and promote environmentally friendly practices, community engagement, and ethical decision-making in our projects.

I encourage all members of our department to actively contribute to this newsletter. Your ideas, research, and accomplishments are integral to creating a dynamic and engaging publication. Let us seize this opportunity to collaborate, learn from one another, and inspire the next generation of civil engineers.

I extend my heartfelt gratitude to the entire Civil Department for your unwavering dedication and commitment to academic excellence. Together, let us strive for greatness, embrace innovation, and create a positive impact in the world through our collective efforts.

Thank you all for being a part of this incredible journey. I look forward to witnessing the continued growth and success of our Civil Department.

Wishing you all a fruitful and fulfilling academic year ahead!

Best regards,

Dr. Saradindu Panda

Principal, Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex



HOD's Message

Dear colleagues and students,

I am thrilled to address you as the Head of the Civil Department and share my enthusiasm for the incredible work and progress we have made together. As we embark on this new academic year, I want to extend my warmest greetings and express my deep appreciation for your dedication and commitment to excellence.

Our Civil Department has always been a driving force of innovation and knowledge in our institution, and this newsletter is a testament to the remarkable achievements and contributions of our faculty, staff, and students. Through this platform, we aim to showcase our department's accomplishments, share valuable insights, and foster a sense of community and collaboration.

Our department has a proud history of producing competent and skilled civil engineers who leave a lasting impact on society. As we move forward, let us continue to uphold the values of integrity, professionalism, and ethical responsibility that define our field.

In this newsletter, we will highlight the diverse range of research and academic pursuits undertaken by our faculty and students. From cutting-edge research projects to impactful community initiatives, each endeavor is a reflection of our commitment to making a difference in the world.

As we face global challenges like climate change and urbanization, civil engineering plays a crucial role in building a sustainable and resilient future. Let us take this opportunity to discuss the role of civil engineering in promoting sustainability, environmental conservation, and inclusive development.

In addition to academic achievements, this newsletter will also feature stories that celebrate our department's vibrant culture and camaraderie. From workshops and seminars to extracurricular activities and student achievements, we aim to showcase the holistic growth of our department.

I encourage all of you to actively participate in this newsletter's creation. Your ideas, contributions, and feedback are invaluable in making it a true reflection of our department's spirit. Let us engage in open discussions, share our experiences, and inspire one another to reach new heights of excellence.

I extend my gratitude to our exceptional faculty and staff for their tireless efforts and dedication to nurturing the next generation of civil engineers. I am also immensely proud of our students, whose enthusiasm and passion continue to drive us forward.

Thank you all for your unwavering support and commitment to the Civil Department. Together, let us seize the opportunities that lie ahead, overcome challenges, and leave a lasting legacy that shapes the future of civil engineering.

Wishing you all a successful and rewarding academic year!

Best regards,

Dr. Sushovan Sarkar

HOD, Department of Civil Engineering

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex



Message from Faculty Editor

Dear colleagues and students,

It gives me great pleasure to welcome you to the latest edition of our Civil Department's newsletter. As the Faculty Editor, I am delighted to present a collection of insightful articles, updates, and accomplishments that reflect the dedication and expertise of our esteemed faculty and the incredible talent of our students.

Civil engineering is a field that constantly evolves, and this newsletter serves as a platform to showcase the cutting-edge research, academic endeavors, and community engagement that define our department. As faculty members, we are committed to fostering a culture of excellence, innovation, and responsible engineering practices.

In this newsletter, you will find articles that delve into various aspects of civil engineering, ranging from structural analysis and geotechnical engineering to sustainable design and urban planning. Our faculty's diverse expertise and passion for their respective fields shine through in their contributions, enriching our academic community with invaluable knowledge.

I want to extend my heartfelt appreciation to the entire editorial team for their hard work in bringing this newsletter to fruition. Your dedication to presenting our department's achievements with precision and flair is truly commendable.

As faculty members, we take great pride in nurturing the next generation of civil engineers. Our students' accomplishments are a testament to their hard work, determination, and the mentorship they receive from our faculty. This newsletter is a celebration of their successes, and I encourage them to continue exploring new horizons and pushing the boundaries of what civil engineering can achieve.

I want to express my gratitude to our dedicated faculty and staff for their unwavering commitment to the growth and success of our Civil Department. Your expertise, mentorship, and support are instrumental in shaping the next generation of civil engineers.

Finally, I urge all members of our department to actively engage with this newsletter and contribute their ideas, research, and experiences. Let us use this platform to foster a culture of collaboration and knowledge-sharing, where we learn from one another and collectively strive for excellence.

I hope you find this newsletter informative and inspiring. Together, let us continue to uphold the values of our department and make a positive impact on the world through our passion for civil engineering.

Thank you for your continued support, and I look forward to witnessing the ongoing achievements of our Civil Department

Best regards,

Mr. Baibaswata Das

Editor, Departmental News Letter

Department of Civil Engineering

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex



Message from Student Editor

Dear fellow students and esteemed faculty,

I am thrilled to welcome you all to the latest edition of our Civil Department's newsletter. As the Student Editor, it is an absolute honor to be part of this dynamic and passionate community that is dedicated to shaping the future of civil engineering.

In this newsletter, we have curated an exciting collection of articles, features, and updates that highlight the diverse talents and achievements within our department. From academic accomplishments to extracurricular activities, this newsletter is a reflection of the vibrancy and camaraderie that defines our civil engineering family.

As students, we are the driving force behind the innovation and progress within our department. This newsletter provides us with a platform to share our projects, research, and experiences, showcasing the boundless creativity and passion that we bring to our studies.

From the first-year students embarking on this exciting journey to the graduating seniors preparing to step into the professional world, each one of us plays a pivotal role in creating a supportive and collaborative environment. Let us use this newsletter to celebrate our successes, learn from our challenges, and inspire one another to push the boundaries of what civil engineering can achieve.

One of the cornerstones of our department is sustainability, and this newsletter aims to emphasize its significance. Through various articles and discussions, we will explore the role of civil engineering in building a greener and more sustainable future, where innovation and environmental consciousness go hand in hand.

I want to extend my heartfelt appreciation to the entire editorial team for their dedication and hard work in bringing this newsletter to life. Your commitment to capturing the essence of our department and presenting it with creativity and flair is commendable.

I would also like to express my gratitude to our faculty and staff for their unwavering support and guidance. Your mentorship and encouragement are invaluable as we navigate the challenges and opportunities that come our way.

Lastly, I want to encourage all students to actively participate in the newsletter's future editions. Your contributions, ideas, and feedback are essential in shaping a publication that truly represents the spirit of our civil engineering community.

I hope you find this newsletter engaging and inspiring. May it serve as a source of pride for all of us, reflecting our collective passion for civil engineering and our commitment to making a positive impact on society.

Thank you for being part of this journey, and I look forward to witnessing the continued growth and success of our Civil Department.

With warm regards,

Diptyendu Chatterjee,

B.Tech (CE 2020-2024)

Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex



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- About Us -

The Department of Civil Engineering of **DR. SUDHIR CHANDRA SUR INSTITUTE OF TECHNOLOGY AND SPOTS COMPLEX** was commenced in the year of 2012. It offers both B.Tech and Diploma Engineering course. The department have sound infrastructure supported by stateof art laboratories. The department is also enriched with good academicians from IIT, NIT, IEST, JUand other reputed Institutions. The department is frequently conducting industrial visit, seminar, workshops, debate, quiz and other social activities.

Soft skill programs are embedded as regular part of academics for better placements. Department is conducting parent's teachers meeting time to time for constant monitoring of academics and attendanceof the students. For maintaining better feedback, mentor mentee meeting is held in the department periodically.

Some laboratory experiments are conducted beyond syllabus by bringing experts/scientists from reputed houses. Initiation is being taken by each mentor of the department for completion of NPTEL online courses by the students. Annual sports and college tournaments both outdoor and indoor games are conducted supported by fantastic indoor stadium at our campus. Active participation of students is held in academic, cultural and sports competition. The department is taking care for placing the students in industry for their summer and winter internship training as per need.

Vision of the Department

To be recognized as an internationally acclaimed technical department by achieving excellent standards of quality technical education, keeping pace with the rapidly changing technologies, research and innovations and to produce Civil Engineers of global standards with the capability of accepting new challenges

Mission of the Department

M1: To impart fundamental knowledge of engineering and its practical application by developingstate-of-the-art facilities for the department of Civil Engineering.

M2: To nurture and build people in a rewarding and inspiring environment by fostering creativity, empowerment, innovation and entrepreneurship.

M3: To build Industry – Institute linkage for quality improvement by promoting participation of industries in the area of consultancy

M4: To encourage the students towards higher education through research and developmentactivities.

CIVIL DEPARTMENTAL NEWS AT A GLANCE

- Department of Civil Engineering received JIS SAMMAN 2022 at Institute Level for their outstanding contribution towards education, research and administration.
- Mr. Baibaswata Das Received JIS Samman 2022 for Highest Number of Publication in Departmental Level
- Mr. Baibaswata Das Received JIS Samman 2022 for Highest Number of Student Publication in Departmental Level
- Mr. Sourav Kumar Singha Received JIS Samman 2022 best Lecture Video Demonstration in Institutional Level
- Ms. Papiya Nayek received JIS Samman 2022 best Practical Video Demonstration in Institutional Level
- Mr. Baibaswata Das Received JIS Innovation Award 2021 for Faculty Publication
- Mr. Baibaswata Das Received JIS Innovation Award 2021 for Student Publication
- Mr. Souvik Chakraborty Received JIS Innovation Award 2021 for Faculty Publication
- Mr. Souvik Chakraborty Received JIS Innovation Award 2021 for Student Publication
- Souvik Chakraborty Received JIS Innovation Award 2021 for Student Publication
- Mr. Baibaswata Das Attended in 5 Days Faculty Development Program on Application of Different Computational Techniques in The Field of Engineering organized by GMIT
- Mr. Baibaswata Das Attended in 5 Days Faculty Development Program on Digital Pedagogy-Exploring New Frontiers of Digital Transformations for Teaching-Learning Process organized by JIS University
- Mr. Abhijit Kundu Attended in 5 Days Faculty Development Program on Digital Pedagogy-Exploring New Frontiers of Digital Transformations for Teaching-Learning Process organized by JIS University
- Mr. Abhijit Kundu Attended in 5 Days Faculty Development Program on Python Programming organized by JIS University
- Mr. Baibaswata Das Completed Coursera Course Title Introduction to Programming with MATLAB with 87.32% Marks
- Mr. Baibaswata Das Completed Coursera Course Title Renewable Energy and Green Building Entrepreneurship with 88.56% Marks
- Mr. Souvik Chakraborty Attended 5 Day's FDP on " Digital Pedagogy-Exploring New Frontiers of Digital Transformations for Teaching-Learning Process organized by JIS University
- Mr. Souvik Chakraborty Attended 5 Days Faculty Development Program on Python Programming organized by JIS University
- Mr. Sourav Kumar Singha Participated & completed successfully 5 days' FDP on Application of Different Computational Techniques in The Field of Engineering organized by GMIT
- Mr. Sourav Kumar Singha Attended in 5 Days Faculty Development Program on Python Programming organized by JIS University
- Mr. Sourav Kumar Singha Completed course offered through Coursera on "Introduction to GIS Mapping" with 88.21% marks

CIVIL DEPARTMENTAL NEWS AT A GLANCE

- Mr. Sourav Kumar Singha Completed course offered through Coursera on "Remote Sensing Image Acquisition, Analysis and Applications" with 84.20% marks.
- Mr. Debasish Roy Attended in 5 Days Faculty Development Program on Python Programming organized by JIS University
- Mr. Debasish Roy Attended in 5 Days Faculty Development Program on Application of Different Computational Techniques in The Field of Engineering organized by GMIT
- Mr. Souvik Chakraborty Completed course offered through Coursera on "Fundamentals of Fluid-Solid Interactions "with 80.25% marks
- Mr. Souvik Chakraborty Completed course offered through Moocs by Skill-up by Simplilearn on "Python for Beginners "with 82.00% marks
- Mr. Souvik Chakraborty, Assistant Professor of Department of Civil Engineering, Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex delivered a guest lecture at "A One Day Seminar on Recent Advancement in Civil Engineering" organized by the Department of Civil Engineering, School of Engineering, Swami Vivekananda University, Barasat, on 01.09.2022
- Mr. Krishnendu Kundu Attended in 5 Days Faculty Development Program on Digital Pedagogy- Exploring New Frontiers of Digital Transformations for Teaching-Learning Process organized by JIS University
- Mr. Krishnendu Kundu Attended in 5 Days Faculty Development Program on Python Programming organized by JIS University
- Mr. Krishnendu Kundu Completed course offered through Coursera on "Construction Project Management "with 95% marks
- Mr. Krishnendu Kundu Completed course offered through Coursera on "Renewable Energy and Green Building Entrepreneurship "with 82.00% marks
- Mr. Prasun Seal Attended in 5 Days Faculty Development Program on Application of Different Computational Techniques in The Field of Engineering organized by Gargi Memorial Institute of Technology
- Mr. Prasun Seal Attended in 5 Days Faculty Development Program on Python Programming organized by JIS University
- Mr. Souradeep Roy Completed course offered through Coursera on "Renewable Energy Technology Fundamentals" with 87.08% marks
- Mr. Souradeep Roy Completed course offered through Coursera on "Renewable Energy and Green Building Entrepreneurship "with 83.5% marks
- Mr. Baibaswata Das published 3 papers titled in conference proceedings of International Conference on Computational Intelligence & Sustainable Technologies (ICoCIST 2021)



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CIVIL DEPARTMENTAL NEWS AT A GLANCE

- Mr. Souvik Chakraborty published a papers in book chapter of Advances in Green Electronics Technologies.
- Mr. Souvik Chakraborty published a paper in book chapter of Emerging Technologies and Management Trends in Environment and Sustainability (EMTES – 2022)
- Mr. Swarnajyoti Paul, undergraduate student of B.Tech in CE presented a paper in International Conference on Information, Innovation & Intelligence Systems for Emerging Technologies (I3SET2022) under the guidance of Mr. Baibaswata Das, Mr. Souvik Chakraborty, Mr. Krishnendu Kundu, Mr. Souradeep Roy and Mr. Sourav Kumar Singha
- Department of Civil Engineering has organized a Digital Parent Teacher Meet on 14.06.2022 from 3.00 pm onwards for the Students of Diploma CE 2nd Year, 3rd Year & 1st-year Students in the Google meet platform
- Department of Civil Engineering has organized a Digital Parent Teacher Meet on 14.06.2022 from 7 pm onwards for the Students of B.Tech CE 2nd Year, 3rd Year & 4th-year Students in the Google meet platform
- Department of Civil Engineering, SurTech has organized a physical Industry Visit for the B.Tech CE 2nd Year Students & B.Tech CE 3rd Year Students on 07.04.2022 and 08.04.2022. The construction site visited by our Students was Multistorey Residential Building "Magnolia Fantasia".
- Department of Civil Engineering, SurTech has organized a physical Industry Visit for the Diploma CE 2nd Year & 3rd Year Students on 10.06.2022. The industrial site visited by our Students was Dhapa Water Treatment Plant "Jai Hind", a Water Treatment Project by Kolkata Municipal Corporation.
- Department of Civil Engineering has conducted a Physical Industry Visit for the Students of B.Tech CE 3rd year Students on 31.10.2022. The industry visited was Jai Hind Jal Prakalpa, Dhapa Water Treatment Plant, a project of Kolkata Municipal Corporation
- Department of Civil Engineering and Department of Mechanical Engineering has signed a Memorandum of Understanding (M.O.U) with CADD Centre, Ultadanga on 30th March, 2022
- All the B.Tech 3rd Year (2023 batch passout) student got placed in Industrial Summer Internship program in various Govt. and reputed private industries such as PWD, PHE, etc.
- Department of Civil Engineering published the wall magazine titled 'GEO-CLIMATE' on 09.06.2022
- The Department of Civil Engineering of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex has organized an Innovative Idea Competition on the topic "Conservation and Smart Engineering" on 7th March 2022 from 11.30 AM, an activity under Institute's Innovation Council (IIC)
- Department of Civil Engineering has organized an Inter-Departmental Quiz Competition on 21.04.2022 with the students from all the departments
- The Department of Civil Engineering organized an Intra-Departmental Quiz Competition "MINDKRAFT" on 20.09.2022



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STUDENT'S ACHIEVEMENTS

- Soumita Boral, 2021 passout Batch Student of Department of CE received the JIS SAMMAN 2022 Award for best Student in Departmental Level.
- Debadri Saha, Student of B.Tech CE 4th year became winner of Innovative idea Competition organized by Department of Civil Engineering.
- Soham Chatterjee, Student of B.Tech CE 3rd year became 1st runner-up of Innovative idea Competition organized by Department of Civil Engineering
- Sahana Roy, Student of B.Tech CE 4th year became 2nd runner-up of Innovative idea Competition organized by Department of Civil Engineering
- Kohelika Debbarma, Pritha Das students of B.Tech CE 2nd Year became winner of Inter Departmental Quiz Competition organized by Department of Civil Engineering
- Pushpendu Pandit, Dicky Sherpa, Arpita Sinha, Dibendu Ghosh students of B.Tech CE 3rd year became winner of Inter Departmental Quiz Competition organized by Department of Civil Engineering
- Suvrajit Banerjee, student of Civil Engineering 2022 Batch got opportunity to study M.Tech in Department of Geo-Informatics in Maulana Abul Kalam Azad University of Technology.
- Arunugshu Pradhan student of Civil Engineering 2022 Batch got opportunity to study M.Tech in Department of Renewable Energy in Maulana Abul Kalam Azad University of Technology.
- Yeshpal Thakur, student of Civil Engineering 2022 Batch got opportunity to study M.Tech in Department of Transportation Engineering in Central University of Jharkhand, Ranchi
- Suvrajit Banerjee, student of Civil Engineering 2022 Batch published 3 Nos. of Book Chapters in Proceedings of International Conférence on Computational Intelligence & Sustainable Technologies (ICoCIST 2021) under the guidance of Mr. Baibaswata Das, Assistant Professor of Department of Civil Engineering.
- Saumyadip Kar, Sudipta Bhowmik, students of B.Tech CE 4th year presented a paper in Emerging Technologies and Management Trends in Environment and Sustainability (EMTES – 2022) under the guidance of Mr. Souvik Chakraborty, Assistant Professor of Department of Civil Engineering.
- Swarnajyoti Paul, student of B.Tech CE 4th year presented a paper in International Conference on Information, Innovation & Intelligence Systems for Emerging Technologies (I3SET2022) under the guidance of Mr. Baibaswata Das, Mr. Souvik Chakraborty, Mr. Krishnendu Kundu, Mr. Souradeep Roy and Mr. Sourav Kumar Singha, Assistant Professors of Department of Civil Engineering
- Kashmita Nath Sarkar student of B.Tech CE 4th year published Patent titled 'Body Shell Reshaping Device'.
- Raunak Bhattacharya student of B.Tech CE 4th year published Patent titled 'MUSCLE STRENGTHENING EXERCISE DEVICE'.
- Swarnajyoti Paul student of B.Tech CE 4th year published Patent titled 'HAND EXERCISE DEVICE'.
- Suparna Polley student of B.Tech CE 3rd year published Patent titled 'Sheet Manufacturing Device'.

FACULTY PUBLICATIONS

1. Chowdhury, S., Lodh, R., **Chakraborty, S.** (2022). A Comprehensive Study on the Arsenic Contamination in the Groundwater of Assam and West Bengal with a Focus on Normalization of Arsenic-Filled Sludge from Arsenic Filters. In: Agarwal, P., Mittal, M., Ahmed, J., Idrees, S.M. (eds) Smart Technologies for Energy and Environmental Sustainability. Green Energy and Technology. Springer, Cham. https://doi.org/10.1007/978-3-030-80702-3_13
2. Debyasnita Sarkar, **Sushovan Sarkar**, and Debabrata Mazumder (2021). Scope of Recycling of Municipal Wastewater. *Indian Journal of Environmental Protection*, 41(7), pp. 810-815. <https://www.e-ijep.co.in/41-7-810-815/>
3. Indranil Ghosh, Debyasnita Sarkar, Ankita Adhikary, Preeti Prasad and **Souvik Chakraborty** (2021). Migration of Seawater Intrusion in Fresh Aquifer of South 24 Parganas, West Bengal. *Indian Journal of Environmental Protection*, 41(11), pp. 1290-1298. <https://www.e-ijep.co.in/41-11-1290-1298/>
4. **Chakraborty, S.**, Das, P., Payne, R., Jha, N. and Sarkar, K.N., (2021). Water Shortage Analysis based on Reservoir Surfaces with varying Population and Rainfall for 2011-20 at Egra in Purba Medinipur. *International Journal for Research in Applied Science & Engineering Technology*, 9(9), pp. 1630-1637.
5. Ghosh, U., Biswas, R.K., Das, D., Banerjee, D., **Das, B.** (2022). Design and Operation of Drip Irrigation System to Orchard by Using Stored Rain Water Through Solar Photovoltaic Water Pump. In: Das, K.N., Das, D., Ray, A.K., Suganthan, P.N. (eds) Proceedings of the International Conference on Computational Intelligence and Sustainable Technologies. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-16-6893-7_19
6. Banerjee, S., **Das, B.**, Banerjee, D., Das, D., Ghosh, U. (2022). Review on High-Performance Concrete by Replacing Conventional Cement with Fly Ash and Silica Fume. In: Das, K.N., Das, D., Ray, A.K., Suganthan, P.N. (eds) Proceedings of the International Conference on Computational Intelligence and Sustainable Technologies. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-16-6893-7_23
7. Banerjee, D., Das, D., Ghosh, U., Banerjee, S., **Das, B.** (2022). Study of Various Methods and Technologies Used in Wastewater Treatment to Control Water Pollution. In: Das, K.N., Das, D., Ray, A.K., Suganthan, P.N. (eds) Proceedings of the International Conference on Computational Intelligence and Sustainable Technologies. Algorithms for Intelligent Systems. Springer, Singapore. https://doi.org/10.1007/978-981-16-6893-7_24

STUDENT PUBLICATIONS

1. Debyasmita Sarkar (CE 2017-21) authored article **“Scope of Recycling of Municipal Wastewater”**, published in **Indian Journal of Environmental Protection, Vol 41, No.7, pp 810-815 (Scopus Indexed)**
2. Indranil Ghosh (CE 2017-21), Debyasmita Sarkar (CE 2017-21), Ankita Adhikary, Preeti Prasad (CE 2017-21) authored article **“Migration of Seawater Intrusion in Fresh Aquifer of South 24 Parganas, West Bengal”** published in **Indian Journal of Environmental Protection, Vol 41, No.11, pp1290-1291(Scopus Indexed)**
3. Prasmeet Das (CE 2018-22), Ritobrata Payne (CE 2018-22), Nidhi Jha (CE 2018-22), Kashmita Nath Sarkar (CE 2019-23) authored article **“Water Shortage Analysis based on Reservoir Surfaces with Varying Population and Rainfall for 2011-2020 at Egra in Purba Medinipur”**, published in **International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol 9, Issue-IX**
4. Ms. Pantui Debbarma (CE 2018-22) presented article **“High Strength Concrete by Replacing Silica Fume with Metakaolin and Fly Ash”** in **International Conference in Sustainable Environmental Engineering and Science (SEES 2021)**
5. Mr. Suvrajit Banerjee (CE 2018-22) authored article **“Review on High-Performance Concrete by Replacing Conventional Cement with Fly-Ash and Silica Fume”** published in **Proceeding of the International Conference on Computational Intelligence and Sustainable Technology (ICoCIST2021) (Springer Nature)**
6. Mr. Suvrajit Banerjee (CE 2018-22) authored article **“Review on High-Performance Concrete by Replacing Conventional Cement with Fly-Ash and Silica Fume”** published in **Proceeding of the International Conference on Computational Intelligence and Sustainable Technology (ICoCIST2021) (Springer Nature)**



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FACULTIES COMPLETING MOOCS

SL NO.	Name of Faculty	Department	Course Name	Percentage	Remarks
1	Souvik Chakraborty	CE	Fundamentals of Fluid-Solid Interactions	80.25	Moocs by Coursera
2	Souvik Chakraborty	CE	Python for Beginners	82	Moocs by Skill-up by Simplilearn
3	Sourav Kumar Singha	CE	Introduction to GIS Mapping	88.21	Moocs by Coursera
4	Sourav Kumar Singha	CE	Remote Sensing Image Acquisition, Analysis and Applications	84.2	Moocs by Coursera
5	Souradeep Roy	CE	Renewable Energy Technology Fundamentals	87.08	Moocs by Coursera
6	Souradeep Roy	CE	Renewable Energy and Green Building Entrepreneurship	83.5	Moocs by Coursera
7	Krishendu Kundu	CE	Construction Project Management	95	Moocs by Coursera
8	Krishnendu Kundu	CE	Renewable Energy and Green Building Entrepreneurship	82	Moocs by Coursera
9	Baibaswata Das	CE	Introduction to Programming with MATLAB	87.32	Moocs by Coursera
10	Baibaswata Das	CE	Renewable Energy and Green Building Entrepreneurship	88.56	Moocs by Coursera

STUDENTS COMPLETING MOOCS

Sl. No	Full Name	Department	Current Year of Study	Enrollments	Status
1	Akash raj	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
2	Amit kumar	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
3	Anamika rani	CE	B.Tech CE(2019-23)	Natural Attenuation of Groundwater Contaminants: New Paradigms, Technologies, and Applications	Completed
4	Apu sarkar	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
5	Asha jana	CE	B.Tech CE(2019-23)	Sustainability of Social-Ecological Systems: the Nexus between Water, Energy and Food	Completed
6	Soumi ghosh	CE	B.Tech CE(2019-23)	Exploring Renewable Energy Schemes	Completed
7	Raunak bhattacharya	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
8	Tanusree chakraborty	CE	B.Tech CE(2019-23)	Mastering bitumen for better roads and innovative applications	Completed
9	Priyanka oraon	CE	B.Tech CE(2019-23)	Mastering bitumen for better roads and innovative applications	Completed
10	Debadri saha	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
11	Kashmita nath sarkar	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
12	Saheli kundu	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
13	Marian jamatia	CE	B.Tech CE(2019-23)	Exploring Renewable Energy Schemes	Completed
14	Mohar das	CE	B.Tech CE(2019-23)	Exploring Renewable Energy Schemes	Completed
15	Mrinmoy chowdhury	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
16	Nidhi jha	CE	B.Tech CE(2019-23)	Mastering bitumen for better roads and innovative applications	Completed
17	Chandan roy	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
18	Sahana ray	CE	B.Tech CE(2019-23)	Natural Attenuation of Groundwater Contaminants: New Paradigms, Technologies, and Applications	Completed
19	Saumyadip kar	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
20	Sidharth kumar	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
21	Sudipta bhowmick	CE	B.Tech CE(2019-23)	Smart Cities - Management of Smart Urban Infrastructures	Completed
22	Sohan chakraborty	CE	B.Tech CE(2020-24)	Construction Cost Estimating and Cost Control	Completed
23	Diptyendu chatterjee	CE	B.Tech CE(2020-24)	Construction Cost Estimating and Cost Control	Completed
24	Gourab dey	CE	B.Tech CE(2020-24)	Water Resources Management and Policy	Completed

STUDENTS COMPLETING MOOCS

Sl. No	Full Name	Department	Current Year of Study	Enrollments	Status
1	Akash Raj	CE	B.Tech CE (2019-2023)	Water Resources Management and Policy, Construction Project Management	Completed
2	Amit Kumar	CE	B.Tech CE (2019-2023)	Engineering Project Management: Risk, Quality, Teams, and Procurement, Water Resources Management and Policy	Completed
3	Apu Sarkar	CE	B.Tech CE (2019-2023)	Managing Project Risks and Changes, Water Supply and Sanitation Policy in Developing Countries Part 1: Understanding Complex Problems	Completed
4	Apurba Debnath	CE	B.Tech CE (2019-2023)	Water Resources Management and Policy, Construction Project Management	Completed
5	Asha Jana	CE	B.Tech CE (2019-2023)	Construction Cost Estimating and Cost Control, Water Resources Management and Policy	Completed
6	Debadri Saha	CE	B.Tech CE (2019-2023)	Water Resources Management and Policy, Construction Project Management	Completed
7	Indrani Dutta	CE	B.Tech CE (2019-2023)	Construction Scheduling, Water Supply and Sanitation Policy in Developing Countries Part 1: Understanding Complex Problems	Completed
8	Marian Jamatia	CE	B.Tech CE (2019-2023)	Construction Cost Estimating and Cost Control, Water Resources Management and Policy	Completed
9	Mohar Das	CE	B.Tech CE (2019-2023)	Construction Cost Estimating and Cost Control, Water Resources Management and Policy	Completed
10	Nabajit Ghosh	CE	B.Tech CE (2019-2023)	Construction Project Management	Completed
11	Raunak Bhattacharya	CE	B.Tech CE (2019-2023)	Water Resources Management and Policy, Construction Project Management	Completed
12	Sahana Ray	CE	B.Tech CE (2019-2023)	Water Resources Management and Policy, Initiating and Planning Projects	Completed
13	Saumyadip Kar	CE	B.Tech CE (2019-2023)	Water Resources Management and Policy, Construction Project Management	Completed
14	Soumi Ghosh	CE	B.Tech CE (2019-2023)	Construction Cost Estimating and Cost Control, Water Resources Management and Policy	Completed
15	Sudipta Bhowmick	CE	B.Tech CE (2019-2023)	Water Resources Management and Policy, Construction Project Management	Completed
16	Tanusree Chakraborty	CE	B.Tech CE (2019-2023)	Engineering Project Management: Risk, Quality, Teams, and Procurement, Construction Project Management	Completed
17	Aftab Uddin Ahmed	CE	B.Tech CE (2020-2024)	GIS Data Acquisition and Map Design, Introduction to Engineering Mechanics	Completed
18	Dibendu Ghosh	CE	B.Tech CE (2020-2024)	Disaster Preparedness, Fundamentals of GIS	Completed
19	Diptyendu Chatterjee	CE	B.Tech CE (2020-2024)	Fundamentals of GIS	Completed
20	Nabanita Dhar	CE	B.Tech CE (2020-2024)	Disaster Preparedness, Fundamentals of GIS	Completed

**JIS SAMMAN 2022 ACHIEVED BY FACULTY AND STUDENTS OF CIVIL
DEPARTMENT**



**DEPARTMENT OF CIVIL ENGINEERING RECEIVED THE BEST DEPARTMENT AWARD IN
INSTITUTIONAL LEVEL IN JIS SAMMAN 2022**

Sl. No	Name	Designation	Type of Award
1	Baibaswata Das	Assistant Professor	Highest number of Publication – Departmental Level
2	Baibaswata Das	Assistant Professor	Highest number of Student Publication – Departmental Level
3	Sourav Kumar Singha	Assistant Professor	Best Video Lecture – Institutional Level
4	Papiya Nayek	Technical Assistant	Best Practical Demonstration – Departmental Level
5	Soumita Boral	UG Student	Best Student – Departmental Level



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Educational Initiatives

JIS INNOVATION AWARD 2022 ACHIEVED BY FACULTY AND STUDENTS OF CIVIL DEPARTMENT

Sl. No	Name	Designation	Type of Award
1	Baibaswata Das	Assistant Professor	JIS Innovation Award For Faculty Publication
2	Baibaswata Das	Assistant Professor	JIS Innovation Award For Student Publication
3	Sourav Kumar Singha	Assistant Professor	JIS Innovation Award For Student Publication
4	Souvik Chakraborty	Assistant Professor	JIS Innovation Award For Faculty Publication
5	Souvik Chakraborty	Assistant Professor	JIS Innovation Award For Student Publication
6	Saikat Chowdhury	2020 B.Tech Passout	JIS Innovation Award For Publication
7	Nabanita Biswas	2020 B.Tech Passout	JIS Innovation Award For Publication
8	Suvrajt Banerjee	2022 B.Tech Passout	JIS Innovation Award For Publication
9	Pliza Lalab	2022 B.Tech Passout	JIS Innovation Award For Publication
10	Suchhanda Mondala	2021 B.Tech Passout	JIS Innovation Award For Publication
11	Soumita Boral	2021 B.Tech Passout	JIS Innovation Award For Publication
12	Arindam Bhattacharyya	2021 B.Tech Passout	JIS Innovation Award For Publication
13	Gaurav Mishra	2021 B.Tech Passout	JIS Innovation Award For Publication
14	Souvik Ghosh Dastidare	2021 B.Tech Passout	JIS Innovation Award For Publication
15	Subhojit Ghosh	2021 B.Tech Passout	JIS Innovation Award For Publication
16	Appayan Acharjee	2021 B.Tech Passout	JIS Innovation Award For Publication
17	Uddipta Banerjee	2021 B.Tech Passout	JIS Innovation Award For Publication
18	Shubha Saha	2022 B.Tech Passout	JIS Innovation Award For Publication
19	Debarshi Halder	2020 B.Tech Passout	JIS Innovation Award For Publication
20	Debyasmita Sarkar	2021 B.Tech Passout	JIS Innovation Award For Publication
21	Diptarka Mukherjee	2019 B.Tech Passout	JIS Innovation Award For Publication
22	Anindya Mukherjee	2022 B.Tech Passout	JIS Innovation Award For Publication
23	Baishakhi Saha	2020 B.Tech Passout	JIS Innovation Award For Publication
24	Debojyoti Chanda	2020 B.Tech Passout	JIS Innovation Award For Publication



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Educational Initiatives

MEMORUNDUM OF UNDERSTANDING (M.O.U)

Department of Civil Engineering and Department of Mechanical Engineering has signed a Memorandum of Understanding (M.O.U) with CADD Centre, Ultadanga on 30th March, 2022. Under this M.O.U. CADD Centre, Ultadanga will provide industry ready workshops, internship and Placement to our Students.

Under this Memorandum of understanding CADD Centre, Ultadanga will provide our students with internship opportunities and placement related trainings. Also they will provide placement assistance to the students



WEBINAR/SEMINAR SESSION ORGANIZED BY DEPARTMENT OF
CIVIL ENGINEERING



JIS | **SurTech** | **INSTITUTION'S INNOVATION COUNCIL**

Presents
My Story: Motivational Session of a Successful Start-Up founder
(An activity under The Institution's Innovation Council)

Under Guidance of Mr. Souvik Kumar Bhaola, Assistant Professor
& Innovation Ambassador (IC Cell)

Organised by
Department of Civil Engineering

Mr. Anindya Chowdhury
Founder and Director
Prep Junction

To Join Scan QR Code

29th January, 2022 | 6:00 P.M. Onwards

www.surtech.edu.in | www.jisgroup.org

**My Story: Motivational session of a
Successful Start-Up founder**

Speaker

Mr. Anindya Chowdhury, Founder & Director,
Prep Junction, Alumni IIM Rohtak, and
Narula Institute of Technology

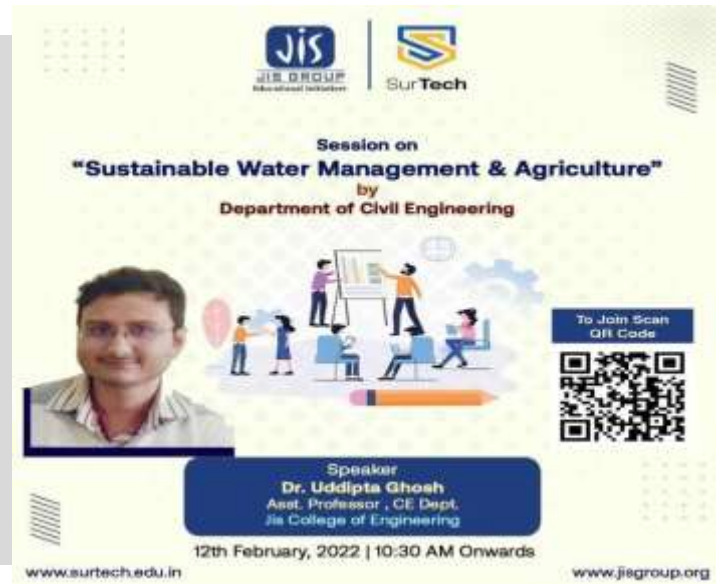
Dt.29.01.2022

**Sustainable Water Management in
Agriculture**

Speaker

Dr. Uddipta Ghosh, Assistant Professor,
Department of CE, JIS College of Engineering

Dt. 12.02.2022



JIS | **SurTech**

Session on
"Sustainable Water Management & Agriculture"
by
Department of Civil Engineering

Dr. Uddipta Ghosh
Asst. Professor, CE Dept.
Jis College of Engineering

To Join Scan QR Code

12th February, 2022 | 10:30 AM Onwards

www.surtech.edu.in | www.jisgroup.org

**Evolution of Engineering & Technology
and Focus on Unwritten Practices**

Speaker

Dr. Abhijit Dasgupta, Former Joint Managing
Director, M. N. Dastur & Company (P) Ltd

Dt. 04.03.2022



JIS | **SurTech**

Session on
**"Evolution of Engineering & Technology and Focus on
Unwritten Practices"**
by
Department of Civil Engineering
Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex

Mode : Offline | Venue : Room No 518

Dr. Abhijit Dasgupta
Former Joint Managing Director
M. N. Dastur & Company (P) Ltd

4th March, 2022 | 11:30 AM Onwards

www.surtech.edu.in | www.jisgroup.org

**WEBINAR/SEMINAR SESSION ORGANIZED BY DEPARTMENT OF
CIVIL ENGINEERING**



**Seminar session on the occasion of World
Water Day**
Speaker

Dr. Anshuman Pal, Capacity Building Manager
(Engineering), Panchayat & Rural Development
Department, Government of West Bengal

Dt. 22.03.2022

**Environment Sustainability in the Light
of Curbing Ganga Pollution**

Speaker

Dr. Rajashree Lodh, Assistant Professor,
Heritage Institute of Technology

Dt. 03.06.2022



**How to Plan a Start-up - Legal and Ethical
Steps**

Speaker

Dr. Sayantan Chakraborty, Director Nikhil
Bharat Shiksha Parisad

Dt. 19.07.2022



**WEBINAR/SEMINAR SESSION ORGANIZED BY DEPARTMENT OF
CIVIL ENGINEERING**



SurTech | INSTITUTION'S INNOVATION COUNCIL

Presents
Seminar on
"Lean Start-up & Minimum Viable Product / Business"- Boot Camp (or) Mentoring Session"

Organised by
IIC Cell

In Collaboration with
Department of Civil Engineering

Venue : SurTech Campus

Speaker : **Mr. Joy Deep Ghosh**
Director
NEO Construction
NEO ZEN REAL STATE PVT. LTD.

17th August, 2022 | 12:00 P.M. Onwards

www.surtech.edu.in

Lean Start-up & Minimum Viable Product/Business

Speaker

Mr. Joy Deep Ghosh, Director, Neo Construction (NEO IMPERIAL, 146, Bansdroni Park, Jayasree Dutta Villa, Kolkata)

Dt. 17.08.2022

Scope of Jobs & Masters Abroad in Solar, EV & Data Science

Speaker

Muhammad Sharif, BD manager, HTC Oman, Solar PV Expert

Amit Mandal, Engineering Manager, HTC Oman, Alumni of IIM Bangalore.

Avik Mitra, Accounts Manager, Solargis

Dt. – 20.08.2022



tecble + Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex JIS GROUP

Learn from the Successful International Mentors

WEBINAR ON SCOPE OF JOBS & MASTERS ABROAD IN SOLAR, EV & DATA SCIENCE

20 August @ 1:00 PM to 02:30 PM
2nd, 3rd & 4th Year - EE, ME, EIE, CIVIL, ECE & CSE

Avik Mitra
Accounts Manager - Solargis
Former Entrepreneur & Investor

Muhammad Sharif
BD Manager - HTC Oman
Former Entrepreneur & Investor

Amit Mandal
Engineering Manager - HTC Oman
IIM Bangalore Alumni

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Treatment of Domestic Wastewater for Sustainable Development

Speaker

Mr. Anjishnu Biswas, Research Scholar (Environmental Engineering), Department of Civil Engineering, IIT Guwahati

Dt. 23.09.2022



SurTech | JIS GROUP Educational Initiatives

Webinar on
"Treatment of Domestic Wastewater for Sustainable Development"

SPEAKER
Mr. Anjishnu Biswas
Research Scholar
(Environmental Engineering)
Department of Civil Engineering
IIT Guwahati

Organised by
Department of Civil Engineering
Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

MODE : ONLINE

23rd September, 2022 | 11:00 A.M. Onwards

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JIS GROUP

Educational Initiatives

WORKSHOP SESSION ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING

Session on
"Introduction to MX ROAD"
by
Department of Civil Engineering
Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex

Speaker
Mr. Abhijit Chakrobarty
Sikharthy InfoTech Private Limited

26th February, 2022 | 01:00 PM Onwards

www.surtech.edu.in www.jisgroup.org

One Day Workshop on "MX Road" software

Speaker

Mr. Abhijit Chakrobarty, Industry person, Sikharthy InfoTech Pvt. Ltd.

Dt. 26.02.2022

Trends & Practices on Computer-Aided Design & Analysis in Civil Engineering

Speaker

Mr. Sandip Banerjee and Mr. Sanjib Saha, experts from the CADD Centre

Dt. 29.04.2022

Workshop on
"Trends & Practices on Computer Aided Design & Analysis in Civil Engineering"
organized by
Department of Civil Engineering
Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex

Mode : Offline | Venue : Auditorium

Sandip Banerjee
Entrepreneur, Independent Consultant
Business Coach & Mentor

Sanjib Saha
Head Faculty, Civil & Architectural CAD/CAM, Project Management Expert

29th April, 2022 | 02:00 PM Onwards

www.surtech.edu.in www.jisgroup.org

Presents
Workshop on
"Trends & Practices on Building India Towards Automation Introduction to MS PROJECT"
Jointly organised by
Nirman Club & Department of Civil Engineering

Software in demand for Design, Architecture, Analysis, Estimation & Project Management.

Special hands on session on BIM with Revit

New trends - 'Tekla' for Structure & Detailing

Sandip Banerjee
Entrepreneur, Independent Consultant,
Business Coach & Mentor

Sanjib Saha
Head Faculty, Civil & Architectural CAD/CAM,
Project Management Expert, having 18 years of experience in Training & Coaching.

28th July, 2022 | 02:30 P.M. Onwards

www.surtech.edu.in www.jisgroup.org

Building India towards Automation - Introduction to MS Project Software

Speaker

Mr. Sandip Banerjee and Mr. Sanjib Saha, experts from the CADD Centre

Dt. 28.07.2022



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JIS GROUP

Educational Initiatives

INDUSTRY VISIT/TOUR ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING

The department of civil engineering of Dr. Sudhir Chandra Institute of Technology and Sports Complex organized an enlightening industrial tool to the residential complex on European architecture, Magnolia infrastructure development limited on 10th and 11th March 2022. The two aimed to provide our second year and 3rd year civil engineering students with the firsthand experience of a unique residential project inspired by European architecture.

The industrial tool to the residential complex on European architecture, Magnolia infrastructure development limited was an enriching experience for our second and third year civil engineering students. The exposure to European architectural elements and design principles broadened their perspective on innovative construction style.





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JIS GROUP
Educational Initiatives

INDUSTRY VISIT/TOUR ORGANIZED BY DEPARTMENT OF CIVIL ENGINEERING

Department of civil engineering of Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex organized an enlightening industrial tool to the construction of GIS Medical College Santragachi on 22nd and 23rd December 2021. The purpose of the tool was to provide our second and third year civil engineering student with practical exposure to real world construction practices and enhance their understanding of civil engineering. The industrial tool to the construction of GIS Medical College Santragachi group in valuable educational experience for our second and third year civil engineering students. Exposure to real life construction scenarios help them connect theoretical knowledge with practical applications.

