

Technical Activities during the Year 2024 - 2025

SEMINARS

One Day International Conference on Tech-Trends in Science, Engineering and Management

16th April 2024



Suryodaya College of Engineering & Technology in collaboration with the Institution of Engineers (India), Nagpur Centre and Indian Society for Technical Education organized One Day International Conference on Tech-Trends in Science, Engineering and Management on 16th April 2024. The event was inaugurated at the hands of Dr. Pramod M. Padole, Director, VNIT, Nagpur, in the august presence of Er. Satish Raipure, Chairman, IEI, NLC, Kamlesh Paunikar, Director, System Architect, KP Solutions India, Ranjeet Chafle, Secretary, NRDRS, Abhishek Belkhede, Director, SCET, Dr. V.G. Arajpure, Principal, SCET, Dr. V. G. Parhate, CEO and Vice Principal, SCET and Dr. Rasika Chafle, MD, CS&ED. More than 200 delegates participated and presented their innovative ideas through their research papers.

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A National level Conference on 'Emerging Trends in Engineering, Science & Technology' (ETEST -24)

17th May 2024

A National level Conference on 'Emerging Trends in Engineering, Science & Technology' (ETEST -24) was organized on May 17th, 2024 under the Internal Quality Assurance Cell in association with The Institution of Engineers (India) Nagpur Local Centre Organised by Gondia Education Society's Manoharbai Patel Institute of Engineering and Technology Shahapur, Bhandara.



The aims of conference are, to know the emerging trends in engineering, science & Technology, To build interaction between theoretical knowledge with practical, Importance of research and to provide guide line for conducting research, Importance of basic knowledge of each field to conduct research, Techniques of writing manuscript, Importance of registration of Patent, Demerits of plagiarism.

Prof. Yogesh Shende has read the preamble of the conference. Then, Dr. Pralhad Harde, Principal in his opening speech explained about college as well as the intention of conducting Conference. Prof. Ajay Motiwal convener of programme has given introductory remark on the theme of conference.

Dr. J. F. Agrawal, Guest of Honour, delivered his speech on 'Emerging Trends in Engineering, Science & Technology' (ETEST -24).

Er. Satish Raipure, Chairman, IEI, Nagpur, Chief Guest, delivered his speech on importance of basic knowledge of each field to conduct research as well as taking knowledge in entire life time. He also explained regarding design of civil engineering structures and its importance.

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International Conference on Innovation in Engineering, Science, and Management (ICIESM-2K25)

21st & 22nd March 2025



Wainganga College of Engg. & Management, Nagpur proudly hosted the International Conference on Innovation in Engineering, Science, and Management

(ICIESM-2K25) on 21st & 22nd March 2025, in association with The Institution of Engineers (India), Nagpur Centre.

The conference was conceptualized to provide a global platform for academicians, researchers, industry professionals and students to present and exchange innovative ideas, share research insights, and explore advancements in the ever-evolving fields of Engineering, Science, and Management. The event received an overwhelming response from participants across India and abroad, marking a significant milestone in WCEM's journey toward fostering research and academic excellence.

The conference received an exceptional global response, with over 200 research paper submissions. Out of these, more than 100 research papers were selected and presented by academicians, researchers and students covering cutting-edge topics in engineering, science and management.

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National Conference on “Emerging Technology Trends in Engineering and Project Competition SPARK 2025”

22nd March 2025



The Department of Artificial Intelligence and Data Science, K.D.K. College of Engineering, Nagpur, successfully organized the XXI National Conference on “Emerging Trends in Engineering & Technology - SPARK-2025” on 22nd March 2025. The conference aimed to bring together academicians, researchers, industry professionals, and students to discuss the latest innovations, trends, and challenges in various domains of engineering and technology. The event commenced with an inaugural ceremony, graced by the presence of distinguished dignitaries, including the Chief Guest Dr.

Yogita Kasture, Project Coordinator, VEDIC, Nagpur, Guest of Honor Dr. S. N. Nahatkar, Principal, Rajendra Jr. College, Nagpur and the Principal & Past Hon. Secretary, IEI, NLC Dr. Valsson Varghese, Vice Principal Dr. A. M. Badar, Convener Dr. S. M. Malode of K.D.K. College of Engineering. The Chief Guest delivered a thought provoking address highlighting the importance of research in shaping the future of engineering and national development. The Guest of Honor emphasized the need for practical, industry aligned innovation. The inaugural session was marked by enlightening speeches that highlighted the importance of research and development in engineering for national growth and technological advancement. Dr. S. M. Malode was Convener.

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Fourth Regional Conclave of Students' Chapters (Western Zone)

26 March 2025



The Fourth Regional Conclave of Students' Chapters (Western Zone), hosted by the Student Chapter of IEI, Department of Electrical Engineering, Nagpur Institute of Technology, Nagpur, concluded successfully on March 26, 2025. This two-day event, held on March 25-26, 2025, revolved around the timely and impactful theme "Fuelling the Future: Hydrogen & Electric Vehicles for a Sustainable Tomorrow." It served as a vibrant platform for students, academicians, and industry experts to converge, share innovative ideas, and explore cutting-edge solutions in sustainable transportation technologies.

The conclave featured a rich lineup of activities, including keynote addresses by distinguished speakers, technical paper presentations, a project competition, and a poster competition, all designed to inspire and empower the next generation of engineers. With active participation from various institutes across the Western Region, the event not only highlighted advancements in hydrogen and electric vehicle technologies but also celebrated the creativity and technical prowess of young

minds through awards and recognition during the valedictory session.

The formal inauguration ceremony took place from 10:30 AM to 11:30 AM in the Seminar Hall, marking the official commencement of the conclave. The session was attended by a distinguished gathering of dignitaries, faculty members, and enthusiastic participants, creating an atmosphere of anticipation and inspiration. Dr. Jagdish Chaudhari, Professor, Dean Academics, and Head of the Department of Electrical Engineering at NIT, opened the ceremony with a warm welcome address. He emphasized the critical role of sustainable mobility in combating climate change and urged students to leverage such platforms to innovate and contribute to society.

Dr. Amol Deshmukh, Principal of NIT, followed with an address highlighting the institute's commitment to fostering research and innovation in emerging fields like hydrogen and electric vehicles, underscoring NIT's role as a hub for technical education. The ceremony also featured insights from IEI representatives, with Er. Milind Patil, FIE, Honorary Secretary of IEI, Maharashtra State Centre, reflecting on IEI's century-long legacy of advancing engineering excellence and its efforts to nurture student talent. Mr. Satish Raipure, FIE, Chairman of the Nagpur Local Centre, IEI, spoke about the importance of regional conclaves in bridging the gap between academic learning and industry needs, encouraging participants to seize this opportunity for growth.

Er. Rajesh Patil, Associate Professor from MIT, Chhatrapati Sambhajanagar, added his perspective, highlighting the significance of interdisciplinary approaches in sustainable technology development and motivating students to think beyond conventional boundaries.

The project competition, held from 1:00 PM to 2:30 PM on March 26, 2025, in the Electrical Machine Lab (shifted from in front of the Machine Lab), was a standout event of Day 2, featuring 35 groups showcasing their innovative models and prototypes. Coordinated by Prof. A. M. Dodke and Harshal Ghatole, the session was evaluated by an esteemed panel of experts: Er. Anand Jawanjale, Chairman of IEI Maharashtra, Er. S. F. Lanjewar, Retired Chief Engineer of MSEB, and Dr. Shard Mohod, IEI Divisional Convener from Mumbai, bringing a wealth of industry and academic expertise to the judging process.

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WORKSHOPS

Workshop on “Good Construction Practice and Smart Product Demo”

16th July 2024



The Institution of Engineers India, Nagpur Local Centre & Ultratech Cement Ltd. jointly organised Workshop on “Good Construction Practice and Smart Product demo” on 16th July 2024 at IE (I), Nagpur Centre around 100+ participated from across district. Er. Satish Raipure Sir, Chairman IE (I), Nagpur invited as a Chief Guest he address the program also brief on Good Construction practices. current construction scenario & scope of improvement. Also from Ultratech Er. Avdhesh Updhyay (RTH-Vidarbha) brief about on Ultratech smart products and application. After presentation then we conducted live demo of Waterproofing, & Tile Adhesive products.

Program was well appreciated by participants.

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Workshop on Nagpur's Construction Innovation & Sustainability Summit 2024

24th October 2024

The IEI NLC & DURA Composites Pvt. Ltd. Jointly organized a program on Nagpur's Construction Innovation & Sustainability Summit 2024 on 24th October 2024.

It was an event to discover about GFRP bars, its use and application in construction sector. The summit also delved into Neobar's groundbreaking features and benefits, showcasing live demos, real world applications and dynamic discussions.



The event started with welcoming all the guests following with lightning up the lamp. After the welcome ceremony the event was addressed by Chairman IEI, Er. Satish Raipure to give an idea about the event's focus on use of GFRP bars and the various possibilities it can bring into construction field. Then Vishesh Sanghani founder and director of Dura composites greeted everyone with heartwarming welcome speech.

The event then was followed by presentation on design aspect of GFRP rebar by Er Ketan Mase with a main focus on use of GFRP in various structures, its strength, application and various advantages. Also it showcased about its use in various countries proving to be a leap forward in extending life span of structures as well as making it as the product environment friendly and greener. It unveiled GFRP applications in roads, bridges, industrial warehouses, marine application, pools and septic tanks. It was then followed by technical presentation on GFRP materials by chief guest of event, Dr. R. K. Ingle sir Professor VNIT.

He explained about the strength and durability which it can bring to the structure by graphical representation and practical use of bars in foundation. Its mention in the different codal provisions as well as its economical purpose was put forth. After that Ritik Sanghani sir founder and director Dura composites briefed about global and Indian case studies which made sure about its vast advantages and path towards its revolution in the field. He explained the GFRP use with a live example in the structure making it significantly simpler and easy to contribute in construction materials.

Later Dr. Dilip Mase, Director, P. T. Mase & Associates gave his closing remarks on overall event with encouragement towards more use of GFRP with promising and revolutionary effects. The event concluded with presenting a memento to chief guest. Dr. Mahesh Shukla, Hon. Secretary, IEI, NLC proposed a vote of thanks. About 100 participants attended the program.

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Workshop on Industrial Automation in PLC, SCADA, HMI 11th to 26th December 2024



Electrical Engg. Dept. of Anjuman College of Engg. & Technology organized 15 Days Industrial Automation in PLC, SCADA, HMI Workshop under Student Chapter IEI Institution of Engineers (India) from 11th to 26th December 2024. In this workshop student from second year and third year are participated and learn about the Industrial Automation. In this workshop students learn about PLC Programming, SCADA software and HMI.

In short, PLCs control processes locally while SCADA systems monitor, gather data, and enable remote control for centralized decision-making and efficient operation.

The workshop was organized and inaugurated by Principal (Prof.) Dr. K. S. Zakiuddin, Anjuman College of Engineering & Technology, Nagpur & Dr. Ruhi Uzma Sheikh, Head of the Electrical Department. Prof. Ishraque Ahmad, Mr. Alpesh Motghare, Project Engineer from IPCS Global Technology, Nagpur. Principal Sir motivated and given best wishes to students.

Valedictory program of 15 Days Industrial Automation in PLC, SCADA, HMI Workshop was organized on 26th December 2024, Chief Guest was Er. Satish Raipure, Chairman, The Institution of Engineers (I), Nagpur Local Centre, Nagpur. He was delivered motivational speech. Certificate was distributed to all participants.

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Workshop on Good Construction Practices (Part 1 : RCC) 1st March 2025

The Institution of Engineers (India), NLC, Indian Concrete Institute, Nagpur Centre, Association of Consulting Civil Engineers, Nagpur Centre & Association of Licence Engineers Nagpur jointly organised One-Day Workshop on "Good Construction Practices (Part 1:



RCC)" on 1st March 2025 was successfully conducted, focusing on essential aspects of reinforced concrete construction. The workshop provided an in-depth understanding of key construction practices, ensuring quality, durability, and structural integrity.

The inauguration ceremony was graced by the esteemed presence of Er. Satish Raipure, Er. P. P. Deshpande, Dr. Sarang Paranjape, Er. Vijay Balkote, Dr. Mahesh Shukla, Er. Bhagwat Patil, Er. Prashant Kathale, Er. Ravi Nagpure, and Er. Avdesh Upadhyay.

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CELEBRATION OF SPECIFIC DAYS

National Maritime Day

13 April 2024

National Maritime Day 2024 was celebrated at The Institution of Engineers (I) Nagpur Local Centre on 13th April 2024. The theme for this celebration was IOT usage in Shipping Industry.

Chief Guest and Key Note speaker for the evening was Vice Admiral Kishor Thakare, AVSM, NM (Retd). Dr Syam Kiran, Director Naval operations, Naval HIQ, New Delhi was Guest of Honour on this occasion.

In his welcome address, Hon Chairman Satish Raipure welcomed all guests and delegates for the evening and extended compliments on the occasion of National Maritime day.

In his address as Chief Guest and key note speaker Vice Admiral Kishor Thakare also past president of IEI explained that, IoT in the trade industry has gained pace as it lends a helping hand in boosting profitability and the global economy. Real-time data is the real deal in the technological era. Using IoT devices, shippers can get real-time data about the whereabouts and health of the



shipping containers and cargo. The importance of IoT is realized by shipping companies in tracking, regulating and managing the containers' internal environment and is most suited for shippers transporting perishables through reefer containers. Dr. Thakare spoke very authoritatively on the theme of the event.

This informative program was well attended by Marine enthusiasts and members of IEI. In the end Dr. Mahesh Shukla, Hon Secretary, Nagpur local Centre thanked Dr. Thakare for his presence and proposed vote of thanks.

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World Telecommunication & Information Society Day

3 June 2024



The Institution of Engineers (IEI), Nagpur Local Centre, in collaboration with the Institution of Electronics and Telecommunication Engineers (IETE), Nagpur Local Centre, organized a program to celebrate World Telecommunication and Information Society Day (WTISD) 2024. The event was held at the IEI Nagpur Local Centre (NLC).

The dignitaries on the dais included Dr. Salim Chavan, Chairman of IETE NLC, Nagpur, Dr. Jitendra Tembhurne, the Chief Guest and Theme Speaker, Engineer Satish Raipure, Chairman of IEI NLC, Dr. Mahesh Shukla, Honorary Secretary of IEI NLC, Dr. Prabhakar D. Khandait, Convener of the program, and

Dr. Sanjay Malode, who served as the Master of Ceremony.

The program commenced with a welcome address by Engineer Satish Raipure, Chairman of IEI NLC, followed by a floral welcome of the Chief Guest by Engineer Satish Raipure. Dr. Salim Chavan then provided an overview of IETE and the significance of World Telecommunication and Information Society Day. Video Message from the President of IEI Kolkata was shown and the message of President, IETE, New Delhi were read aloud to the attendees.

Dr. P. D. Khandait, Convener of the ET Division at IEI NLC, elaborated on the theme of the program, "Digital Innovation for Sustainable Development." Dr. Harshvardhan Kharpate, Treasurer of IETE NLC, introduced the Chief Guest, Dr. Jitendra Tembhurne, from the Department of Computer Science and Engineering at IIIT Nagpur. Dr. Tembhurne delivered an insightful speech and presentation on the theme, emphasizing the importance of digital innovation in achieving sustainable development goals.

The event was well-attended by corporate members of IEI and IETE, principals of various colleges, students, and other dignitaries. Dr. Mahesh Shukla, Honorary Secretary of IEI NLC, proposed the vote of thanks, and the program concluded with the national anthem

World Environment Day

8 June 2024



The institution of Engineers, Nagpur Local Centre (IEI) celebrated World Environmental Day and IEI Paryavaran Sathi 2024 Award Ceremony 3rd edition on Saturday, 8th June 2024. NTPC, Mauda unit was adjudged as Winner whereas Western Coalfields Ltd. and Nagpur Municipal Corporation were declared as

'Runner UP-1' and 'Runner UP-2' for the award respectively.

At the start of Programme, Er. Milind Pathak, Immediate Past Chairman of IEI NLC welcomes the guests and audience and stressed the importance of Environment Protection. Dr. Ramesh Daryapurkar, Convener highlighted this year's theme of Land Restoration, Desertification and Draught Resilience & elaborated significance of World Environmental Day through his Presentation. He also briefed about the award and the objectives behind this initiative.

Dr. Milind Chittawar, MD & CEO of Seetech Solutions explained importance of energy efficiency in sustainability with case studies. He emphasized that sustainability and Energy Efficiency were analogues to Each Other.

Dr. Atul Vaidya, Director, CSIR – NEERI, Chief Guest in his key-note address, elaborated land degradation and approaches towards land restoration. He also explained with case studies the role of hazardous waste in land degradation which most of the times would be irreversible. Dr. Vaidya further explained the work and contribution NEERI has been doing to restore the contaminated lands through different case studies in India. He also conferred upon the awards to the winners.

In the 3rd edition of awards, the nominations were open only for Govt or semi-govt / PSUs/ local bodies in Vidharbha only. All the nominations received were evaluated by a Jury panel of eminent environmentalist namely, Dr. Pawan Labhasetwar and Dr. Shashikant Hastak.

Dr. Mahesh Shukla proposed the vote of thanks and the programme was well conducted by Dr. Sanjay Malode. The programme was attended by large number of engineers, professionals and environmentalist.

Royal Charter Day &

Er. R. B. Khanzode Memorial Oration

9 September 2024



The Institution of Engineers (India) Nagpur Local Centre celebrated Royal Chartered Day & 3rd Er. R.B. Khanzode Memorial Oration on 9th sept 2024.

The day was celebrated with great energy and enthusiasm and energy.

Dr Sandeep Shirkhedkar, Director, ImaGIS Engineering Solutions Pvt. Ltd., Nagpur was Chief Guest and Key note speaker for the evening. His topic of presentation was "Managing Flood and Water Crisis of Nagpur"

Program was commenced with paid tribute to Er. R. B. Khanzode and felicitation of Khanzone family.

Chairman, Er. Satish Raipure in his welcome address explained purpose of celebration of Royal Charter Day and shared various initiatives of IEI Nagpur Local Centre.

In his key note address, Dr. Sandeep Shirkhedkar explained about reasons of flooding in Nagpur, he gave specific reference to flood happened on 23rd Sept 2023. He explained scientific solution for flooding challenges which are being faced by Nagpur city.

As per Dr Sandeep, Nagpur is facing flood crisis during monsoon and water crisis during summer. With the help of systematic examples he presented his studies, giving solution for water crisis in the city.

Contribution of Late Shri R. B. Khanzode for the society and for IEI was shared with audience. Dr. Mahesh Shukla, Hon Secretary IEI NLC thanked Khanzode family, speaker and audience. The program was well attended by more than 80 engineers.

57th Engineers Day

18 September 2024

The Institution of Engineers, Nagpur Local Centre Celebrated 57th Engineers Day on Wednesday 18th September 2024. Theme for this year was "Driving Sustainability with engineering Solutions Embracing the Latest AI Driven Technologies"

Maj Gen S. K. Vidyarthi, AVSM, SM, General Officer Commanding, Uttar Maharashtra & Gujarat Sub Area was Chief Guest & Keynote Speaker.

Vice Admiral Kishore O. Thakare, AVSM, NM (Retd), Past President, IEI was President of the function.

The Program commenced with the garlanding of Bust of Bharatratna Sir M. Visvesvaraya at the hands of dignitaries.

Er. Satish Raipure, Chairman, IEI, NLC welcomed & felicitated the Guests & Keynote speaker, Maj Gen S. K. Vidyarthi, AVSM, SM by offering Bouquet, Memento, Shwal & Shrifal.



Dr. Mahesh Shukla, Hon. Secretary, IEI, NLC welcomed Vice Admiral Kishore O. Thakare, AVSM, NM (Retd.) President of the function by offering Bouquet, Memento, Shwal & Shrifal

Welcome address delivered by Er. Satish Raipure, Chairman, IEI, NLC.

The presentation began with a video of Dr. G. Ranganath, President of the IEI in Kolkata.

Life sketch of Bharat Ratna Sir M. Visvesvaraya readout by Er. Pravin Deshpande, Chairman, ICI, Nagpur Centre.

Er. Milind Pathak, IP Chairman, IEI, NLC introduced the Chief Guest & Keynote speaker of the function, Maj Gen S.K. Vidyarthi.

In his keynote speech, Maj. General S. K. Vidyarthi discussed his experiences, as well as the obstacles and problems that the intelligence and Indian army faced during the many missions carried out under his supervision and leadership. He discussed the difficulties and engineering solutions that the defence forces faced when AI was not widely used, as well as how AI would have assisted in certain situations. He went on to emphasize the benefits of artificial intelligence for civilians.

Er. Ramesh Akulwar, Convenor of the Electrical Engineering Division, introduced Vice Admiral Kishor O. Thakre, AVSM, NM (Retd) to the audience.

Vice Admiral Kishor O. Thakre, AVSM, NM (Retd) generalized the topic in his Presidential speech, explaining how Artificial Intelligence has the ability to disrupt different sectors and revolutionize businesses such as healthcare, transportation, finance, education, marketing, and entertainment.

The event concluded with Vote of Thanks by Dr. Mahesh Shukla, Hon. Secretary, IEI, NLC.

Dr. S. M. Malode, Convener, Computer Eng. Dn., IEI, NLC conducted the proceeding of the function. About 125 members attended the program. The program concluded with the National Anthem.

Annual Function and 27th Dr. V. M. Dokras Memorial Oration 26 October 2024



Annual function and 27th Dr. V. M. Dokras Memorial Oration was celebrated at The Institution of Engineers (I) Nagpur Local Centre on 26th October 2024.

Chief Guest and Key Note speaker for the evening was Dr. Indu Maheshwari, Principal Director, National Power training Institute, Nagpur.

In his welcome address, Hon Chairman Er. Satish Raipure welcomed all guests and delegates for the evening and extended compliments on the occasion of Annual Function. Hon Chairman highlighted various functions and events organized during last year and appreciated contribution of esteemed members of IEI during the year. On this occasion, he remembered contribution of Dr. V. M. Dokras for the society in general and to IEI Nagpur centre in particular. He thanked Dr. Indu Maheshwari for her presence during this event and appraised the contribution of NPTI for the development of nation.

Dr. Sandeep Shirkhedkar informed audience about contribution of Late Dr. V. M. Dokras to the engineering fraternity and specifically highlighted his role in the development of IEI Nagpur Local Centre.

Dr. Mahesh Shukla, Hon. Secretary, IEI, NLC presented the Annual Report of the activities carried out during the year.

As a part of annual function celebrations, a token of love and gratitude was presented to all conveners for various events during the year. The contribution for supporters, office bearers, service providers were also appreciated on this occasion.

In her address as Chief Guest and key note speaker Dr. Indu Maheshwari highlighted various initiatives taken by National power training Institute for the

protection of environment. She explained the environmental impact of thermal power plants across India and narrated the initiatives being taken by various agencies (including NPTI) to curb pollution. She expressed gratitude over legacy of The Institution of Engineers, Nagpur Local Centre and extended her wishes on the occasion of Annual day. She has also appreciated increased footfall in IEI and quality of events being conducted.

This informative program and annual function was well attended by members of IEI with their family.

In the end Dr. Mahesh Shukla, Hon Secretary, Nagpur Local Centre thanked Dr. Maheshwari for her presence and proposed vote of thanks.

The program was attended by more than 100 members and proceedings were well conducted by Dr Chetan Deshpande.

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Energy Conservation Day (Workshop on Energy Conservation, Project & Poster Competition)

14 December 2024



In spite of massive addition in generation capacity, the power sector is still unable to bridge the gap between the demand and supply. Similarly the cost of setting of additional energy capacity to meet the increasing energy demands is very high.

The Indian Power Scenario, the growth in the power sector, the electricity saving potential available in the country. Now the initiative has taken by the Govt. of India for energy conservation.

Er. Shankar F. Lanjewar has taken initiative as a Convener to conduct the one day Workshop on Energy Conservation and it is his 26th years' workshop in continuation on energy conservation on the occasion of Energy Conservation Day.

In this workshop MSEDCL, MSETCL, MAHAGENCO,

MOIL, NEERI, POWERGRID, INDORAMA, WCL and Solar manufacturing Industries have taken active part. In addition to this professors and students of about 20 Engineering colleges have participated. Various poster and project computation are also arranged on energy conservation. Total participants were about 375 where well eminent and well personality also were involved.

In the Inauguration Function Hon'ble Er. S. Subramanian, Executive Director, Power Grid, Western Region-I, Nagpur was the Chief Guest and Key Note Speaker also. He has highlighted energy conservation how it is important in day to day life. Before this Convener Er. Shankar Lanjewar has highlighted importance of energy conservation and how it is possible in day to life quoting various examples.

Hon'ble Dr. Kartikey, Senior Scientist & Head of Climate Change & Green Material Division, NEERI, Nagpur was Guest of Honour. He has given various example of energy conservation like use of solar power, wind power etc. Programme presided by Hon'ble Dr. Somadatta Karnjekar, Chairman of Wainganga Engineering College, Nagpur (Dongargao) and shared his experience how energy conservation is applying in his college and bring awareness in the students so that they can apply energy conservation in their social life.

In the second session (Afternoon session) concluding programme was conducted where Poster and Project competition and prize distribution were arranged. Convener Er. Shankar Lanjewar has narrated success story of full day programme of energy conservation and how the participants has enjoyed the programme with full strength.

The Chief Guest for the concluding programme was Hon'ble Dr. Atul N. Vaidya, Director NEERI, Nagpur and Key Note Speaker also. Now He is elevated as Vice Chancellor of Laxmi Narayan Institute, Nagpur. The Guest of Honour for this programme was Hon'ble N. D. Korape; Prof. P. K. V. Akola and key Note Speaker also. Hon'ble Er. P. K. Kulkarni, Ex. E. D., MSEDCL, Mumbai and Past Chairman, IEI, Nagpur has presided the function.

Dr. Mahesh Shukla, Hon. Secretary, IEI, Nagpur has given vote of thanks in both sessions. Er. M. P. Hedao, Ex. CGM, MSEB, Er. Pradeep Matey, Ex.C.E. MSDCEL, Er. Arun Ghushie, Dy. C. E. MAHAGENCO, Er. A. K. Zade, Executive Engineer, MSDCEL; Prof. Sandeep Kale, HoD, Jhulelal Engg. College; Dr. Ruhi Uzma, HoD, Anjuman Engg. College and Dr. Radharaman Shah, Prof. T.G.P.C. had work hard for the success of workshop on Energy Conservation. Dr. Ruhi Uzma and Dr. Smt. Kale have conducted the proceedings in both the sessions.

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Er. A. B. Kottewar Memorial Oration

8 February 2025



Er. A. B. Kottewar Memorial Lecture 2024 was organized at Nagpur Centre on 8th February 2025, in the august presence of Er. V. B. Singh, FIE, President, IE(I), Kolkata and Er. A. W. Jawanjal, FIE, Chairman, IE(I) Maharashtra State Centre, Mumbai. Keynote Speaker was Er. Shailesh Awale, AVP, HCL Tech, Nagpur. This year's theme was "Engineering and Future of Work in AI Ambience".

The keynote was delivered by Er. Shailesh Awale, Associate Vice President, M/s HCL Tech, Nagpur. He has about 28 years' experience in the field of Information Technology and has served at multiple locations across India and abroad. In his presentation, Er. Shailesh Awale talked on various aspects of Information Technology and Artificial Intelligence. He stated that the importance of IT in today's work environment, be it in the Manufacturing Industry, Service sector or even in a common man's life was, held a very important position which was irreplaceable. He also highlighted advantages and threats of IT and AI in day to day working and likely to affect our future activities.

Guest of Honour, Engr. A. W. Jawanjal, FIE, Chairman, IE(I) Maharashtra State Centre, Mumbai in his speech talked about importance of Artificial Intelligence.

In his Presidential Address, Er. V. B. Singh, FIE pointed at the unique role played by IT and AI in today's challenging work environment. He also highlighted the Profile and Activities of The Institution of Engineers (India) for the benefit of audience drawn from various sections.

At the outset, tributes were paid to Er. A. B. Kottewar by garlanding and showering flowers to the Photo frame of Er. A. B. Kottewar, by the dignitaries and family members of Er. AB Kottewar.

President of Function Er. VB Singh, President IE(I), Guest of Honour Er. A. W. Jawanjal, Keynote speaker Er. Shailesh Awale, Er. Ganesh Barbade, IP Chairman, Amravati centre and family members of Er. A. B. Kottewar were welcomed by offering flower bouquets by Er. Satish Raipure, Chairman, IE(I) Nagpur and Dr. Mahesh Shukla, Hon. Secretary. Er. Satish Raipure also delivered his customary Welcome Address. Life sketch of Er. A. B. Kottewar was painted by Er. Ramesh Akulwar, convener of the event. Dr. Mahesh Shukla, Hon. Secretary of IE(I) Nagpur introduced the Keynote speaker to the audience. Dr. Swapnil Satone, LCM, IE(I) Nagpur introduced the GOH Er. A. W. Jawanjal, while Dr. Rakesh Shrivastava, past Chairman, IE(I) Nagpur introduced Er. V. B. Singh, President IE(I).

The dignitaries - Chief Guest and Keynote Speaker, Guest of Honour and The President of the function Er. V. B. Singh were felicitated by offering Shawl, Shreefal and Memento by The hands of The Chairman and Hon. Secretary of IE(I) Nagpur. Vote of Thanks was proposed by Dr. Mahesh Shukla, Hon. Secretary of IE(I) Nagpur. Er. Ramesh Akulwar, Convener, conducted the proceedings of the event. Program was attended by more than 100 members & family members of Er. A. B. Kottewar.

The program ended with recital of The National Anthem.

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Irrigation Day 25th February 2025



The Institution of Engineers (India), Nagpur Local Centre and Sinchan Sahayog, Nagpur jointly organized "Irrigation Day" on 25th February 2025.

Irrigation Day is celebrated in memory of Late Shri Shankarrao Chavan, Former Chief Minister of Maharashtra.

Shri Rajesh Sonone, Superintending Engineer, Vigilance Unit, Water Resources Deptt., Nagpur was Chief Guest.

Er. Satish Raipure, Chairman, IEI welcome the guest. Er. Shrikant Doifode, President, Sinchan Sahayog gave introductory remarks and told about the efforts done by Late Shankarrao Chavan for the development of Irrigation works in Maharashtra.

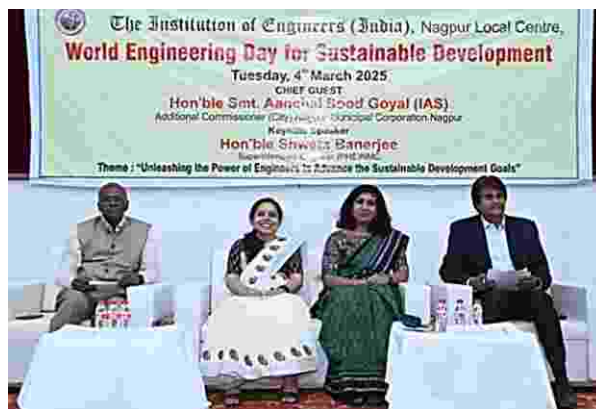
Chief Guest Shri Rajesh Sonone took review of Irrigation works from ancient time till British regime. He told about the development of irrigation works in independent year, but he told that there is no proper coordination between Irrigation Dept. and Agriculture Dept. And other Govt. Agencies. Farmers do not feel their ownership in irrigation works which is hindrance in maintaining irrigation systems. He suggested that farmers should come forward with Water Users Associations.

Er. Shrikant Doifode conducted the program. Er. Prakash Kawale, Secretary, Sinchan Sahayog introduced the Guest and Dr. Mahesh Shukla, Hon. Secretary, IEI proposed vote of thanks.

Program was attended by 30 members.

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World Engineering Day for Sustainable Development 4th March 2025



The Institution of Engineers (India), Nagpur Local Centre, celebrated 'World Engineering Day' for Sustainable Development on Tuesday, 4th March 2025. The theme for this year's celebration was "Unleashing the Power of Engineers to Advance the Sustainable Development Goals."

The program began with a welcome address and floral welcome of dignitaries by Er. Satish Raipure, Chairman, IEI NLC. Dr. Mahesh Shukla, Hon. Secretary, presented the significance of World Engineering Day and highlighted the role of engineers in sustainable progress.

Dr. Sanjay Malode, who served as the Master of Ceremony, introduced the keynote speaker, *Hon'ble Smt. Shweta Banerjee, S.E. (PHE), NMC, Nagpur*. She delivered an insightful keynote address focusing on the need for innovation, environmental responsibility, and the contribution of engineers toward the Sustainable Development Goals.

Er. Ashish Dwivedia then introduced the *Chief Guest, Hon'ble Smt. Aanchal Sood Goyal (IAS), Addl. Commissioner (City), NMC*. In her address, she spoke about the importance of sustainable urban governance and invited professional bodies like the Institution of Engineers to play an advisory role in the formulation of city development policies, a move that was highly appreciated by the gathering.

Mementos were presented to the dignitaries, followed by a formal vote of thanks by Dr. Mahesh Shukla. The program concluded with the National Anthem.

The event was a great success, fostering a strong connection between engineering professionals and civic policy planning, paving the way for collaborative development.

About 100 members attended the program.

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World Water Day 2025 and Dr A G Bhole Memorial Lecture 29th March 2025

World water Day was celebrated at The Institution of Engineers Nagpur Centre on 29th March 2025. On this occasion, 5th Dr. A. G. Bhole Memorial Lecture was delivered by Dr. Valsson Varghese, FIE, Principal, K.D.K. College of Engg., Nagpur & Past Hon. Secretary, IEI, NLC on the topic "Glacier preservation: Securing India's Water Future".

In his welcome address Er. Satish Raipure, Chairman IEI welcomed Guests, dignitaries, invitees and senior members. In his address he praised the contribution of Dr. A. G. Bhole for the development of IEI Nagpur. He gave compliments to all on the occasion of World Water Day and explained the importance of



theme of celebrations "Glacier preservation: Securing India's Water Future".

Dr. Swapnil Satone introduced Late Dr. A. G. Bhole and shared the profile of this eminent engineer. It was understood that, contribution of Dr. A. G. Bhole was extraordinary for civil Engineering fraternity. His Education, Patents, research papers, his involvement in academics was very well highlighted by Dr. Swapnil.

Dr. Sandeep Shirkhedkar, convener of the program explained the importance of celebration of world water day and highlighted the Glacier melting and its impact.

Er. Prashant Upasani, aptly introduced Chief Guest and Key note speaker Dr. Valsson Varghese to gathering, Dr. Valsson is past Secretary IEI and currently, he is Principal, K.D.K. College of Engineering, Nagpur. His contribution in the field of engineering made him one of the leading personalities of current era.

In his address, he explained status of water availability and water crisis across the world. With Audio Visual presentation, he explained the rate of melting of Glaciers and its impact on mankind. He explained the importance of Himalayan glaciers and its impact on Indian population. In his talk, he gave emphasis on various parameters responsible for Glacier melting. It was well understood that, population from Peninsular India is also being affected by the impact of Glacier melting. As per his data, many glaciers are termed as Dead and many are on the verge of death.

More than 70% of fresh water is in form of glaciers, and its melting shall impact River Basin hydrology's, especially for the rivers, which are originating from glaciers. Emission of greenhouse gases, water pollution, air pollution, carbon footprints etc are responsible for melting of glaciers.

A strong message was given by Key note speaker about preservation of Glaciers, he also explained the ways to achieve it.

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OTHER ACTIVITIES

- **FDP on “Recent Trends in Engineering Materials, Mathematical Modelling and it's Applications in Technology**

Online One Week National Level Faculty Development Program on “Recent Trends in Engineering Materials, Mathematical Modeling and it's Applications in Technology” organized by Tulsiramji Gaikwad Patil College of Engg. & Tech., Nagpur in association with The Institution of Engineers (India), Nagpur Local Centre from 6-10 August 2024.



- **Installation of IEI Student Chapter of Civil Engg. at Govt. Engg. College, Nagpur**

Government College of Engineering, Nagpur has Installed The Institution of Engineers (India) Student Chapter of Civil Engineering since 2023-24 in association with IEI, NLC. With start of new academic session the installation ceremony has been organized by Institution of Engineers (India) Student Chapter of Civil Engineering with great enthusiasm on 26 August 2024. The ceremony has been graced by Res Er. Satish Raipure, Chairman of IEI Nagpur Local Center and an eminent structural consultant as Chief Guest. Along with him the dias was graced by Dr. N. D. Ghawghawe (Principal), Dr. S. N. Khante (Head of Civil Department), Dr. K. N. Kadam (Faculty Coordinator), Aman Yadav (President IE(I) Student Chapter of Civil Engineering).



- **Installation Program of IEI Students Chapter of Electrical Eng., at Jhulelal Institute of Technology, Nagpur**

The Chief Guest of the Program was Er. S. S. Raipure, Chairman, IEI Nagpur Local Center and Guest Er. S. F. Lanjewar, Member, IEI Nagpur Local center. Prof. Yuvraj Chavhan Faculty Coordinator concluded the program with vote of thanks, All ELECRA and the IEI Student Chapter members worked hard for the installation program.



- **Installation Program of IEI Students Chapter of Electrical Engg. at Anjuman College of Engg. & Technology Nagpur.**

An Inaugural ceremony of ACET- IEI-Student Chapter under the banner of The Institution of Engineers (India) has been organized by Department of Electrical Engg. at Anjuman College of Engg. & Tech, Sadar, Nagpur by the representatives of IEI as, Chief Guest Dr. V. K. Khare Sir Executive Member, The Institution of Engineers (India) Nagpur Local Centre, Guest of Honour, Er. S. F. Lanjewar, Retd E. E. MSDEL and Dr. Mahesh Shukla Sir Hon. Secretary, The Institution of Engineers (India) Nagpur Local Centre, encouraged and motivated the students by their inspirational key note speech.

Dr. Ruhi Uzma Sheikh Faculty Advisor of IEI student's chapter of ACET given brief insights about The Institution of Engineers (India). In addition to 52 students of previous year this year 50 new students are enrolled; various events are planned in the activity calendar for the year. Principal ACET Prof (Dr.) K. S. Zakiuddin congratulates the IEI Students core committee members and encourage students to take participate in technical events.



- **Installation Ceremony of Students Chapter of IEI & Engineers Day at Govt. Polytechnic, Nagpur**

Government Polytechnic Nagpur has celebrated Engineers day and Installation of students chapter IEI (2024-25) was held on 25 Sept 2024 in Vishvesaraya Hall. GP Nagpur. Inauguration, lightning of lamp and Maa Swarswati Puja was done by Chief guest Er. Satish Raipure. Chairman of IEI, Nagpur Local Center. Dr. Manoj Daigavane, Principal, was president of this function who is putting his whole efforts to for student development.

Dr. Narendra Pawar Advisor, Student Chapter has given the preamble of the IE student chapter and activities carried out for student development under IE I.

Dr. Satish Raipure focus on student motivational activities and strongly suggest to follow the ethics of engineer. All the Heads of Dept, Professor and Student were present for this function.

Vote of thanks given by Er. Lokesh Mankar President of IE student chapter



- **Discussion on The Science of Sustainable Agriculture in the face of Climate Change**

Discussion on the subject of the science of sustainable agriculture in the context of climate change was organized at the Institute of Engineers, Nagpur on 19 November 2024. This was organized in collaboration with The Institution of Engineers (India), Nagpur Local Centre and Beejotsav.

The program was attended by the Chairman of The Institution of Engineers (I), Er. Satish Raipure and Dr. J. F. Agarwal, IP Hon. Secretary, IEI as well as Shri Vasantbhau Futane, Shri Rohan Raut, Mrs. Prachi Mahurkar and many members of Beejotsav.

The program began with the inaugural speech of Er. Satish Raipure. In his speech, he said that The Institution of Engineers (I) is the oldest organization of this subject and there are 100 chapters of it all over India today. Today, environmental engineering is an important

subject and environmental engineering is working to improve the quality of human life. Apart from this, the word sustainable development is a catchword that refers to all branches of knowledge. All branches like building, roads, dam construction, water management, telecommunication, computer science etc. are working to improve the quality of human life and achieve sustainable development. That is why we will always support and cooperate with today's topic and the work being done by Beejotsav.



- **Faculty Development Programme on "Emerging Trends in Machine Learning and Deep Learning using Computer Vision"**

The Department of Computer Science & Engg. And Department of Artificial Intelligence & Data Science, K.D.K. College of Engineering, Nagpur, in association with IE(I), NLC and ISTE successfully hosted a one-week Faculty Development Programme (FDP) on "Emerging Trends in Machine Learning and Deep Learning using Computer Vision" from December 9th to 14th, 2024. The Faculty Development Program (FDP) with a focus on computer vision aims to empower participants with cutting-edge knowledge and practical skills.

The FDP was inaugurated by esteemed dignitaries, including the Chief Guest and Expert Speaker Dr. M. M. Raghuwanshi, Dean Engineering, SBJITMR Nagpur, Dr. V. P. Varghese, Principal, KDKCE & Past Hon. Secretary, IEI, NLC, Dr. A. M. Badar, Vice Principal, KDKCE, Nagpur.



- Faculty Development Program on “Research in Mechanical System Design”**

Dept. of Mech. Engg. K.D.K. College of Engg., Nagpur organized Faculty Development Program on “Research in Mechanical System Design” from 16/12/2024 to 21/12/2024 in association with The Institution of Engineers (India), Nagpur Local Centre, Indian Society for Technical Education, and Institutions Innovation Council.

Total 68 faculties and research scholars participated in this FDP. Resource persons from IIT, VNIT and Government College shared their knowledge to the participants about various topics.

On day 1 Dr. Parag Tandaiya (alumnus), Associate Professor, IIT, Bombay shared his view on “Analysis and Design of Spacecraft Protection Systems”.



- Faculty Development Program on Generative AI and Deep Learning: Research Insights for Professionals**

Department of Information Technology at K.D.K. College Engineering organized Faculty Development Program in association with IE(I), IETE & SSIT Pvt. Ltd. on “Generative AI and Deep Learning: Research Insights for Professionals” from 23/12/2024 to 28/12/2024. The event was graced by: Guest: Dr. V. P. Varghese, Principal,



K.D.K. College of Engineering, Nagpur & Past Hon. Secretary, IEI, NLC, FDP Co-ordinator: Dr. S. P. Khandait, Head of the Deptt., Info. Technology, KDKCE, Chief Guest and Keynote Speaker of Day: Dr. Tausif Diwan, IIIT Nagpur. The event commenced with the formal inauguration ceremony. The principal of K.D.K. College of Engineering, Dr. Valsson Varghese, graced the event with his presence. He emphasized the significance of emerging technologies like Generative AI and Deep Learning in shaping the future of technology and research.

- Faculty Development Program on “IoT Enabled Sensor Technology for Research and Industry 5.0”**

Deptt. of E & T Engg K.D.K. College of Engg., Nagpur in association with The Institution of Engineers (I), Nagpur Centre, IETE and SSIT Pvt. Ltd. successfully conducted Faculty Development Program on “IoT Enabled Sensor Technology for Research and Industry 5.0” from 30th Dec.2024 to 4th Jan.2025 at K.D..K College of Engg., Nagpur.

The program aimed to provide participants with a deep understanding of sensor technologies and their applications in IoT, aligning with the concepts of Industry 5.0.

The program commenced with a formal inauguration ceremony, setting the stage for an insightful week of knowledge-sharing and learning. Dr. Rajeshree Raut, Associate Professor, GCOE, Nagpur was a Chief Guest and Keynote Speaker. Other dignitaries on the dais were Dr. A. M. Badar, Vice Principal, K.D.K. College of Engineering, Dr. V. P. Varghese, Principal, K.D.K. College of Engg. & Past Hon. Secretary, IEI, NLC, Dr. P. D. Khandait, Convener & Head E & T Engg., & Convener ET Engg. Divn, IEI, NLC and Dr. Mrs. J. S. Gawai, Co-Coordinator of the FDP. Dr. P. D. Khandait delivered the welcome address & Dr. J. S. Gawai proposed vote of Thanks.



• **Innovolt-2025-An Intercollegiate Innovative Project Competition**

The Electrical Engg. Deptt., SB Jain Institute of Technology, Management & Research, Nagpur organized Innovolt - 2025. An intercollegiate innovative project Competition in collaboration with The Institution of Engineers (I), Nagpur Local Centre, IEEE PES chapter, Institution Innovation Council(IIC), ELAN, successfully as part of the TECHNOTSAV celebrations on 23rd Feb. 2025.



The event featured to foster innovation, creativity and technical expertise among students.

The competition witnessed enthusiastic participation from students, with many displaying their own problem statements with projects, models. The event was inaugurated and subsequently judged by Er. S. F. Lanjewar, Past Hon. Secretary, IEI, NLC, Er. Manohar Hedoo, Retd Chief Engineer, Mahagenco and Er. Pradeep Mate, Retd, Chief Engineer, Mahadiscom who provided valuable insights into projects and models. Their expertise and guidance motivated the participants, emphasizing the importance of discipline and proper technique in impressive innovative abilities and determination.

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• **Hackthonix Hackathon (Project & Competition)**

The K.D.K. College of Engineering's Coding Club in association with The Institution of Engineers (I), Nagpur Centre proudly announces the resounding success of its annual Hackthonix Hackathon (Project & Competition) held on February 28, 2025. The event witnessed an overwhelming participation of over 350 students forming 90+ teams from various colleges, making it a grand celebration of innovation, collaboration, and technical prowess.

Participants showcased their exceptional talent by developing unique and impactful projects, tackling real-world challenges with creative solutions. The hackathon served as a platform for students to transform their ideas into tangible prototypes, demonstrating their problem-solving skills and technical expertise.



Dr. V. P. Varghese, Principal & Past Hon. Secretary, IEI, NLC, Dr. A. M. Badar, Vice-Principal, Dr. A. A. Jaiswal HOD CSE, Prof. A. M. Kuthe Incharge Coding Club Motivated and Guided the students for smooth conduction of activity.

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LECTURE / GROUP DISCUSSION PROGRAMMES

SN	Date	Topics of Lectures/Group Discussion	Speaker(s)	Convener(s)
1.	17 th May 2024	Lecture on Applications of Grouting in Civil Engineering	Er Prashnat N. Kathale Waterproofing & Grouting Expert, Nagpur	Er. Satish Raipure
2.	6 th July 2024	Lecture & Panel Discussion on Recent Failures in Deep Excavations and Precautionary Measures	Er. Amol Shingarey, M.D., M/s. Geotech Services Pvt. Ltd., Nagpur	Er. Satish Raipure
3.	21 st August 2024	Lecture on Designing Bridges... Connecting Nation	Er Pravin P. Deshpande MD, SPD Infra Consultants Pvt. Ltd., & Chairman (Elect) ICI, Nagpur Centre	Er. Satish Raipure
4.	4 th Sept. 2024	Lecture on Permanent Magnet Servomotors	Er. Shankar Sathawane, Ex-GM, Bharat Bijlee, Navi Mumbai.	Er. Ramesh Akulwar
5.	16 th Nov. 2024	Lecture on Cosmology: Science & Beliefs	Dr. Surhud More, Astronomy Professor at IUCAA Pune and Dr. Anupreeta More of IUCAA Pune	Dr. Mahesh Shukla
6.	19 th Nov. 2024	Lecture on Atmanirbhar Bharat & Defence Industry	Hon Gurudutta Ray, CDM, Yantra India Limited	Dr. Sandeep Shirkhedkar
7.	21 st Nov. 2024	Lecture on Transformer Protection Excluding Differential Protection	Er. Sunil V Sardey, Ex-MSEB Testing Division	Er. Ramesh Akulwar
8.	3 rd Dec. 2024	Technical Talk on "Innovative Strategies for Differential Protection Complex Structural Problems – Case Studies"	Er. Suneel Voditel, Director, Tecture Structures Pvt. Ltd., Nagpur	Dr. Sandeep Shirkhedkar
9.		Expert Talk: "Blast and Ballistic Loading on	Dr. Manmohan Dass Goel Associate Professor VNIT, Nagpur	Dr. Swapneel Satone