NIE
E-Newsletter
July-August-September 2020

The National Institute of Engineering
(An Autonomous Institute Under Visweswaraya Technological University, Belagavi)
[Approved by AICTE, New Delhi, Accredited by UGC NAAC]

Manandavadi Road, Mysuru-570008, Karnataka, INDIA



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Message



The global COVID-19 pandemic has triggered new ways of conducting the teaching-learning process online. For some, this has been a small move, but for others, this is a completely new way of education. Due to the pandemic, research and academic activities got hindered. I am extremely proud of our faculty and students who handled this situation brilliantly with all kind of support from management. Our faculty have changed their strategy and adopted to innovation and E-learning. E-learning is now applicable not only to learn academics but also to conduct extra-curricular activities for students, informative online sessions, Online Faculty and Student Development Programs and Webinars. The demand for E-learning has risen significantly and will continue doing so as society starts adapting to 'social distancing' post this pandemic. I take this opportunity to congratulate the editorial board for bringing out this E-Newsletter. This Newsletter gives an insight into the range of activities organised and attended by our faculty during the pandemic. I applaud the co-ordinator of the editorial team and its team members for the hard work and dedication they have invested in bringing out this E-Newsletter.

Dr. Rohini Nagapadma, Principal

Engineers' Day Celebration @ NIE

Engineers' Day was celebrated at The National Institute of Engineering by organizing a Power Seminar on "Employability Skills for Engineering Graduates" via online platform. Mr. Mahesh Narayan, Senior Manager, Advanced Analytics and Intelligence Professional, Accenture spoke about "Artificial Intelligence and its future opportunities". Addressing to the students of NIE, he focused on the vast opportunities available in AI in the near future and also threw light on how the students can explore employment opportunities in the emerging field of AI. Dr. Rohini Nagapadma, Principal, NIE delivered the Engineers' Day message to the students and faculty members of NIE. Dr. Mamta, Professor, Dept. of Mathematics and ICT – Coordinator introduced the speaker to the audience. The entire event was co-ordinated by Prof. Madhusudhana R, Assistant Professor, Dept. of Mechanical Engineering, NIE. In addition, Engineers' Day was celebrated by garlanding the bust of Sir. M. Visvesvaraya. The honors were done by Dr. Rohini Nagapadma, Principal and Dr. N V Raghavendra, Vice- Principal, NIE. Dr. N V Raghavendra addressed the gathering by remembering the great contribution made by Sir M. V. to the nation. Dr. Ganesh Prasad, Dean – AA, Dr. Pushpalatha, Dean - R&D, Mr. Sunil M V, Librarian, SDM - IMD, Prof. Malathi Sriram – IMD and Prof. Madhusudhana R. witnessed the event. This event was organized and co-ordinated by Mr. Harish Y.S., Chief Librarian, NIE, Mysuru.



Congratulations



Prajwal, a 28 year old Mechanical Engineering graduate from the National Institute of Engineering (NIE), Mysuru, who recently cleared the UPSC exam with a rank of 636 has some valuable tips for youngsters aspiring to join the Civil services. 'Plan your work & work your plan' is his mantra for success. Ever since graduating in the year 2013, Prajwal has also been employed in the private sector balancing his work & exam preparation with aplomb. He credits this to his experience in the Dept. of Mechanical Engineering, NIE, as a trainer/teaching assistant where he was responsible for training his juniors. He highlights the significance of cutting down on any and all distractions he faced. Devoting time & energy on a consistent basis is key, he says. Teachers at NIE remember him to be an inquisitive, determined and accomplished student.

Panel Discussion on "Career Guidance"

Department of Electronics & Communication of The National Institute of Engineering (NIE), Mysuru, has organized Panel Discussion on "Career Guidance" by distinguished experts of various circuit branch domains through online mode on 5th September 2020.
This panel brought together renowned academician, freelancer, industry experts and director/founder from various industry and academic institutions.
The panel conferred about, how to identify and analyze the areas of potential career opportunities raised in the current scenarios from different perspectives. The panel was also addressed on the soft skills required for industry, project to product cycle, research opportunities, bridging the gap between academia and industry and the recapitulation of placement scenario.
Panelists: Dr. Navakanta Bhat: Professor and Chair, CeNSE IISc, Bengaluru, Dr. Rajendra Kumar V. Joshi: Freelancer, Dr. Sujatha J: Wipro Technologies, Mr. Sumedh Kaulgud: Founder, CTO of Sattva MedTech, Bengaluru & Dr. Dattakumar: Director, NIE, Mysuru.

"Memorandum of Understanding (MoU)" with NHAI



Dr. Rohini Nagapadma, Principal, NIE and Mr. B T Sridhara, Project Director, NHAI (PIU Ramanagar) exchanged the MoU. Dr. K C Manjunath, HOD, Dept. of Civil Engineering and Dr. Punith B Kotagi, Asst. Prof. witnessed the event.

The National Institute of Engineering (NIE), Mysuru and National Highway Authority of India (NHAI) with a desire of working together with mutual cooperation for dissemination of respective expertise in civil/highway engineering field through the road infrastructure development agreed to sign a Memorandum of Understanding (MoU) on 26.08.2020. NHAI shall facilitate the faculty, researchers and students of NIE to familiarize with the latest trends in the highway/transportation sector with a common objective of sharing the knowledge in their respective domain. This will, in one hand, facilitate to bridge the industry-institution gap and familiarize students with the latest trends in industry and on the other hand the research output could be suitably adopted in practice by NHAI. NIE shall adopt nearby stretches such as Kerala Border to Mysuru of NH-212 as a voluntary initiative under ambit of Institutional Social Responsibility (ISR). The adopted stretch may be used as a field of study for faculty, researchers and students. The MoU shall remain valid for a period of 5 years from the date of signing.

FDP on "Sensor Technology"

The Department of Industrial and Production Engineering, The National Institute of Engineering, Mysuru organised a five-day online faculty development programme on "Sensor Technology" from 21st sept 2020 to 25th sept 2020, sponsored by All India Council for Technical Education Under AICTE Training and Learning (ATAL) Academy.

The Co-ordinators for the programme were Dr. Shailesh Rao, Associate Professor, Dr. Y S Varadarajan, Professor and Mohammed Ismail, Associate Professor, Department of I&P Engineering, NIE Mysuru.

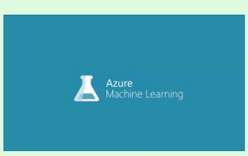


Dr. K M Subbaiah, HOD, Dept. of I&P Engineering, Dr. Shailesh Rao, Asso. Professor, Dr. Y S Varadarajan, Professor and Mohammed Ismail, Associate Professor at inaugural session of online FDP

In the five days Programme, a wide variety of topics on "Sensor Technology " were discussed by eminent Scientists, Academicians, Researchers, Industry Personnel belonging to IITs, IIsc, NITs and from reputed research laboratories and industries. In all, there were 15 expert talks delivered over five days. All the speakers made it a point to explain the latest research work that is carried on in this field. A total of 150 faculty across India took part in the FDP. The programme helped them in consolidating their Knowledge in the subject and also helped them in identifying the research topics in various fields to be pursued.

The Faculty Development Programme on "Sensor Technology" ended on 25th sept 2020 with the concluding remarks on the programme by Dr. Y S Varadarajan.

Workshop on "Microsoft Azure and Machine Learning"



The Department of Information Science & Engineering, NIE, conducted the workshop on "Microsoft Azure and Machine Learning" from 6th to 7th August, 2020 for faculty, staff and students of the host institute, Industry persons and other engineering colleges faculty members. The key resource persons for the Workshop were Ms. Nagshwetha D, Managing Director, Entelika consultancy & IT services, Mysuru and our Alumini Nachiketa Anshu, Service Delivery Manager, Robert Bosch Engineering India from 2017 batch. Speakers shared information about Basic functioning of machine Learning with Azure cloud, implementation using python etc., which certainly influenced our students and other participants. Speakers also gave information about how Azure ML studio can be used to create machine learning models and how to consume them, to identify the challenges in the predictions of data. In the Azure Machine learning platform, how machine learning work flows can be defined in easy scale models in the cloud environment and finally how dataset can be uploaded with hands on session.

This webinar was organized by Dr. P. Devaki, Prof and Head, Department of IS&E, Mr. Rampur Srinath, Associate Professor, Mr. Kiran B N, Ms. Prathibha. B.S, Mrs. Prajakta.M. Asst. Professors, Department of IS&E, NIE, Mysuru.

Fire Rating of Partition Wall at BFRC

Building Fire Research Centre (BFRC), NIE Mysuru tested a 3mX3m partition wall for fire rating. The test was carried out as per IS 3809 for NCL BUILDTEK Ltd. Autoclave Block for four hours. BFRC is headed by Dr. N. Suresh, Professor, Dept. of Civil Engineering. The centre is recognised as NABL Accredited Laboratory for testing fire extinguishers, doors, and so on, it's the South India's only fire testing laboratory.



A 3m X 3m partition wall for fire rating in progress

Webinar on "Number Theory and its Applications to Cryptography"

TEQIP-3 sponsored two days webinar on 'Number Theory and its Applications to Cryptography' was organised by the Department of Mathematics on 10th to 11th July 2020. Dr. Srikanth Cherukapally, Senior Engineer, Vijna Research Labs, Bengaluru and Dr. Shivarajkumar, Associate Professor, Department of Mathematics, NIE, Mysuru delivered lectures on various topis like, distribution of quadratic residues and nonresidues modulo prime p, RSA public key cryptographic method and the basic principles of Block chain technology.

Webinar on "Women Force in Technology"

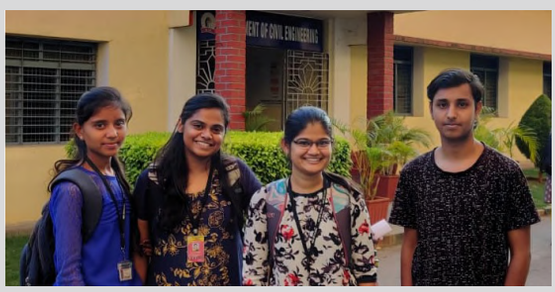
The Information Science & Engineering Department of NIE, conducted the webinar on "Women Force in Technology" on 25th July 2020 exclusively for girl students of the department. The key resource persons for the webinar were our Alumni of 2017 and 2018 batch Ms. Shrineedhi from Microsoft, Ms. Manasa G B from SAP Lab, Ms. Veena from Nokia, and Archana from VMWare. Speakers shared information like how to prepare themselves for interviews, how to respond, what are the topics to be focussed during placement activities, their experience, their failures and success stories which certainly influenced and motivated our student participants. Speakers also gave information about the conference named Grace Hopper Celebration India (GHCI) which is the flagship event organized by AnitaB.org. It is the largest technical conference for women in Asia and the US. GHCI focuses on the career, research and entrepreneur interests of women in technology.
This webinar was organised by Dr. P. Devaki, Prof and Head of the Department, Associate Professor, Mr. Rampur Srinath, Ms. Prathibha B S, Asst. Professor and Mrs. Prajakta M, Asst. Professor of IS&E department.

Webinar on "Characterization Techniques for Nanomaterials"

The online webinar on "Characterization Techniques for Nanomaterials" was organised by Department of Physics, The National Institute of Engineering, Mysuru, on June 26, 2020 under the sponsorship of TEQIP –3. The online webinar was conducted through google meet. Around 560 members were registered for the webinar, out of which more than 300 Faculty, Research Scholars and Students from all over India have participated. The webinar was delivered by Dr. B. Daruka Prasad, Professor, Department of Physics, BMSIT, Bangalore.
He highlighted that characterization is a fundamental process in the field of material science, without which no scientific understanding of engineering materials could be ascertained. He explained in detail about the photon probe characterization techniques such as Photoelectron Spectroscopy, UV-Visible spectroscopy, Ion particle probe - structural characterization such as X-Ray diffraction, Small Angle scattering and Atomic forced microscopy which is an electron probe characterization techniques for Morphological studies. He also emphasized on the material characterization, Nano scale materials, Necessity of characterization, Planning to characterize the materials and Important characterization available for nano scale materials. All participants appreciated the way the speaker delivered the lecture.

Award for Student Project

Department of Civil Engineering, 8th Semester students project titled "Study of Structural Behavior of Floating Column" was awarded best project by Karnataka State Council for Science and Technology (KSCST), Bengaluru in the concluding event of 43rd Series of Student Project Programme on 21st September 2020. Project students Ms. Kanchana B N, Ms. K T Jyothsna, Ms. Kumbla Anupa Nayak, and Mr. Kiran Kumar Patil worked on analytical study to learn the structural performance of a floating column in a building. In addition to the analytical study, a portable setup of electronic sensor and Raspberry Pi microprocessor was developed as a low-cost alternative to the existing sensor in the Structural laboratory. Application of Raspberry pi in the field of Civil Engineering is a crucial step forward in Udyog Bharat 4.0, an Industry 4.0 initiative of Government of India, which aims towards putting to use technology like automation, Internet of Things, and many more in core disciplines of Engineering. The project was guided by Dr. N C Balaji, Associate Professor, Dept. of Civil Engineering.



International Workshop by Dept. of EEE

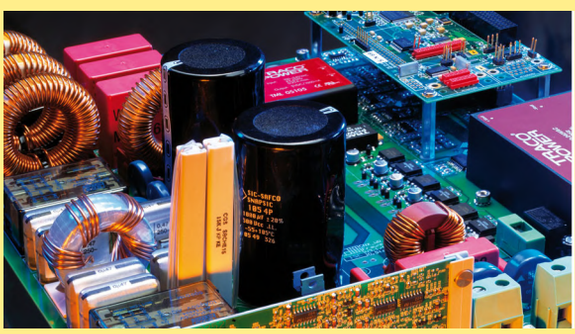


Department of Electrical and Electronics Engineering organized an International Workshop on “Electric Power Grid Modernisation: Trends, Challenges and Opportunities” in association with IEEE PES, Bengaluru Chapter from July 20-24, 2020. This workshop inaugurated by Dr. H Pradeepa, HOD & Associate Professor, coordinated by Dr. Likith Kumar M V, Dr. Shankar N, Dr. Jaysankar V N, and Ms. Sonaxi B Raikar.

Public policies, economics, and technological innovations are driving the rapid rate of change in the electric power system. The power system advances toward the goal of supplying reliable electricity from increasingly clean and inexpensive resources. The main objective of this online workshop was to bring together experts across the globe working in various domains associated with the electric power grid and share their experiences and equip the participants to work towards overcoming the challenges.

The workshop has deliberations from Dr. Anurag K Srivastava, Associate Professor, Washington State University, Washington, Dr. Ramakrishna Gokaraju, Professor, University of Saskatchewan, Canada, Dr. P Sanjeevikumar, Professor, Aalborh University, Denmark, Dr. PierluigiSiano, Professor, University of Salerno, Italy, Dr. Ashok Rao, Academic Expert, Mysuru, India. Around 700 participants have registered for the event.

National Workshop on “Power Electronic Applications to Renewable Energy Systems and Energy Storage Systems”



Dept. of Electrical and Electronics Engineering organized National Workshop on “Power Electronic Applications to Renewable energy systems and Energy storage systems” in association with SVNIT, Surat, from 6th July to 10th July 2020. This workshop was inaugurated by Dr. H. Pradeepa, HOD and Associate professor. Coordinators: Dr. Ananthapadmanabha B R and Dr. Likith Kumar M V.

Renewable energy systems and Electric Vehicles are the emerging trends in Electrical Engineering at present conditions. The integration of renewable based charging stations to EV and application of power filters in Renewable energy systems attract attention of people in the area research and technology development. Thus power quality, custom power devices and associated converters with relevant control techniques. The knowledge gained through this FDP will pave the way for future challenges in the implementations of power filters in renewable energy system, electric vehicles charging systems, design of custom power devices and associated advanced control algorithms.

The main objective of this online FDP is to bring together experts working in various domains associated with the above research areas and share their experiences and equip the participants to meet the challenges. The workshop had deliberations from experts from SVNIT, Surat and other reputed institutions. Around 600 Participants across the country have participated in the workshop.



Visit of State Institute of Urban Development (SIUD) Director Smt. Shilpa Nag, IAS, to CREST, NIE, Mysuru on 4th September 2020.



Visit by Karnataka State Biofuel Board officials, along with Chairmen, Mr. Rudrappa, KAS, to CREST, NIE Mysuru on 14th September 2020.

Faculty Accomplishments

- Dr. R Yadupathi Putty and Dr. K C Manjunath, Professors., Dept. of Civil Engineering presented an expert webinar talk on "ನಗರಪ್ರದೇಷದ ಕೆರೆಗಳ ಸಂರಕ್ಷಣೆ- ಕೆಲವು ಆಲೋಚನೆಗಳು" in the webinar "Lakes at Mysuru –Vision on Lakes as Eyes of Earth" conducted by Water Institute, UVCE, Bangalore University during 14th – 16th September 2020.

- Dr. R Yadupathi Putty, Professor., Dept. of Civil Engineering presented an expert webinar talk on "Flood estimation for mountainous areas – Some thoughts" in the online webinar on *Advances in flood estimation* methods conducted by the Department of Civil Engineering, G.M. Institute of Technology, Davanagere (Karnataka) on 14th July 2020.

- Dr. Punith B. Kotangi, Asst. Prof., Dept. of Civil Engineering presented an expert webinar talk on "Modeling and Computing Techniques in Civil Engineering" at Dept. of Civil Engineering, Tontadarya College of Engineering, Gadag, Karnataka. The talk was a part of Five days Faculty Development Program (FDP) held from 17th to 21st August 2020.

- Dr. Punith B. Kotagi, Asst. Prof., Dept. of Civil Engineering, NIE, delivered a talk on "Flexible Pavement Design and Quality Control" in a webinar organized by Dept. of Civil Engineering, Biluru Gurubasava Mahaswamiji Institute of Technology, Mudhol, Karnataka, on 3rd October 2020.

- Dr. Anand M. Hulagabali, Asst. Prof., Dept. of Civil Engineering presented a webinar talk on "Career Opportunities in Civil Engineering: Global and Domestic Scenario" at Biluru Gurubasava Mahaswamiji Institute of Technology, Mudhol, Karnataka. The talk was held on the eve of Engineer's Day, 23rd September 2020.

- Dr. C Vidya Raj, Professor, Dept of CS&E, has completed course on "The BodhiTree and SAFE Tools for Effective Online Teaching: A Hands-On Workshop". This training was organised by the Teaching Learning Centre (ICT) at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India

- Mrs. Anitha R, Associate Professo, Department of CS&E, NIE Mysuru has completed Ph.D Viva-Voce under Visvesvaraya Technological University, Belagavi for her thesis titled "Energy Efficient Load Balancing Algorithm for Cloud VMs using Clustering Technique". Mrs. Anitha R carried out her research work under the guidance of Dr. C Vidya Raj, NIE, Mysuru.

- B R Vatsala, Assistant Professor, Department of CS&E has completed the course titled " Blockchain Basics" by University at Buffalo and The State University of New York and offered through Coursera in August 2020.

- B R Vatsala, Assistant Professor, Department of CS&E has completed the course titled " The Arduino Platform and C Programming" from University of California, Irvine offered through Coursera in September 2020.

- Rashmi M R, Assistant Professor, Department of CS&E has completed the course titled "Programming for everybody (Getting Started with Python)" from University of Michigan offered through Coursera in September 2020.

- Rashmi M R, Assistant Professor, Department of CS&E has completed the course titled " Introduction to Internet of Things and Embedded Systems" from University of California, Irvine offered through Coursera in September 2020.

- Padmini M S, Assistant Professor, Department of CS&E has completed the course titled " Introduction to Internet of Things and Embedded Systems" from University of California, Irvine offered through Coursera in June 2020.

- Mr. Shashank S, Assistant Professor, Dept. of CS&E has been invited as a resource person in Webinar on "GATE Preparation Tips and Tricks" organised by VVCE on 26th September 2020.

- Mr. Shashank S, Assistant Professor, Dept. of CS&E has completed Coursera courses "Programming for Everybody (Getting Started with Python)" offered by University of Michigan and "Python Data Structures" offered by University of Michigan.

- Dr. R Chidanandappa, Associate Professor of Dept. of EEE delivered an invited talk on "Recent Trends in Voltage Control methods of Distribution Network with Distributed Generation" in FDP on Recent Trends and Emerging Technologies in Distributed Generation organised by EEE Dept., JNNCE , Shivamogga 28th August 2020.

- Dr. Shankar Nalinakshan of Dept. of EEE delivered plenary talk on the topic entitled "An Interdisciplinary Approach Against Covid'19" during 2nd International Conference on Technological Convergence in Engineering, Energy, & Sustainability (ICTCEES – 2020) organized by the Department of Mechanical Engineering, Vimal Jyothi Engineering College, Jyothi Nagar, Chemperi, Kannur, Kerala, India.

- Dr. Shankar Nalinakshan of Dept. of EEE delivered plenary talk in the Three days International webinar series on "Interdisciplinary approach in Healthcare applications: Challenges and opportunities" conducted by the Department of Biomedical Engineering, School of Bio and Chemical Engineering, Kalasalingam Academy of Research and Education, Krishnankoil from 10th to 12th July 2020.

- Dr. Likith Kumar M V, Dept. of EEE was invited as session chair for National Conference on Emerging Trends in Engineering Science for Future Technology (NCETESFT-2020) organised by Sri Siddhartha Institute of Technology, Tumkur.

- Dr. Chandra, Assistant Professor, Dept. of Physics has been invited to deliver special lecture on "Condensed matter physics" for M.Sc students at Karnataka State Open University (KSOU), Mysore on 1st October 2020.

- Dr. Suresha B., Professor, Dept. of ME delivered an invited talk on "Research Methodology" to PG/Ph.D Students, in an event organized by NIE CRD on 13th June 2020.

- Ms. Sonaxi Bhagawan Raikar , Assistant professor , Dept. of EEE has been selected for part time Ph.D programme at NITK, Surthkal.

- Dr. Jayasankar V N, Dept. of EEE was a reviewer in the International Conference on Power Electronics and Renewable Energy Applications 2020 (PEREA 2020), Kannur, Kerala.

- Dr. Chidanandappa R, Dept. of EEE was a reviewer in the Internal journal of Electric Power Components & Systems -Taylor and Francis publisher.

- Dr. Shankar Nalinakshan, Dept. of EEE was a reviewer for IEEE Bangalore Humanitarian Technology Conference, 2020, Power Electronics, Drives and Energy Systems Conference - 2020 and for 2nd International Conference on Technological Convergence in Engineering, Energy, & Sustainability (ICTCEES – 2020) organized by the Department of Mechanical Engineering, Vimal Jyothi Engineering College, Jyothi Nagar, Chemperi, Kannur, Kerala, India.

- Mr. Shamsundar, Associate Professor , Dept. of ME and coordinator, NIE, CREST, has been invited to deliver an invited talk on "Waste Management" to PDO's at Zilla Panchayat, Mysuru on 08th August 2020.

- Mr. Shamsundar, Associate Professor , Dept. of ME delivered an invited talk in webinar on "Need to Switch to Greener Alternatives in the Energy domain" organized by Mangalore Institute Of Technology, Moodbidre, Karnataka on 10th September 2020.

IEEE Transactions paper published



Dr. Jayasankar V N, Assistant Professor, Dept. of Electrical and Electronics Engineering has published a paper titled " Backstepping Controller with Dual Self Tuning Filter for Single-phase Shunt Active Power Filters under Distorted Grid Voltage Condition" in **IEEE Transactions on Industry Applications**, page(s): 1-9 Print ISSN: 0093-9994 , Online ISSN: 1939-9367, Digital Object Identifier: 10.1109/TIA.2020.3025520

"Teachers' Day 2020" Celebration



To commemorate the Birth Anniversary of former President of India Dr. Sarvepalli Radhakrishnan, NIE, Mysuru celebrated Teachers' Day on September 5, 2020. The celebration was presided by Dr. Rohini Nagapadma, Principal, NIE, Mysuru. Dr. T. K. Umesh, Former Vice-Chancellor (I/C) and Former Dean of Science and Technology, University of Mysore, Mysuru was invited as chief guest. The Chief guest in his address emphasized the importance of teaching profession and significance of teachers in building the future of the country. Taking recourse of scripture, he explained about teaching as a noble profession. He also mentioned the connection of Dr. Sarvepalli Radhakrishnan to Mysore and the University of Mysore in his talk. The celebration was witnessed by Vice Principal, Deans, HOD's and all teaching faculty of NIE, Mysuru.

e-Yantra Class-B Award for NIE Faculty

Dr. S Parameswara, Associate Professor, Dept. of ECE, **Mr. Vinod Kumar H P**, Assistant Professor, Dept. of Mechanical Engineering, **Dr. Jayasankar V N**, Assistant Professor, Dept. of EEE and **Dr. Abhinandan**, Associate Professor, Dept. of CSE recieved "Class B Awards" after the successful completion of **"e-yantra Task Based Training (TBT)"**. This Task Based Training is related to the hands-on experiments on the Firebird V-robot. e-Yantra is a project sponsored by MHRD through the National Mission on Education through ICT. e-Yantra is managed by IIT Bombay.



Books on "Machine Learning & Python"

Dr. Shrirang Ambaji Kulkarni, Associate Professor, Dept of CS&E has authored the following books

- Dr. Shrirang Ambaji Kulkarni, Dr. Varadraj Gurpur, Dr. Steven L Fernandes, " Introduction to IoT with Machine Learning and Image Processing", Chapman and Hall/ CRC Press, August 16, 2020, ISBN 9781138543522
- Dr. Shrirang Ambaji Kulkarni, "Problem Solving using Python",Yes Dee Publication, September 24, 2020, ISBN 9789388005456



New initiative by NIE CRD

A new prelims front sheet has been introduced to the Center for Research and Development (CRD).

NIE-CRD has initiated a Research Internship (RI) program for the first time from the current academic year (2020-21) to the third semester M.Tech students. Totally 15 students have been selected for this program from all engineering departments.

An Invited talk was arranged on "Research Methodology" by Dr. Suresh Bheemappa, Professor, Dept. of Mechanical Engineering, NIE, Mysore, on 13th June 2020 for PG/Ph.D. students.

- Dean (R&D)

Online Yoga Classes

Department of Physical Education & Sports, NIE has organized online Yoga classes for students from 29th June 2020 to 17th July 2020. Mrs. Suma Bhat, Yoga Instructor, SPYSS, Mysuru presented different Yoga postures for an hour everyday (except Saturday and Sunday). Mrs. Kavya, Physical Education Instructor coordinated all the sessions.



Certificate Course in "Digital Training Techniques"

ICT Academy in association with NIE, Mysuru has conducted a short-term online certificate course in "Digital Teaching Techniques" from June 29, 2020 to July 4, 2020 which enabled the faculty members to integrate the online technologies into teaching and making the challenging activity into something simple by helping choose ethically appropriate digital pedagogy and benefit both students and teachers to achieve excellence in learning. This learning activity upon completion has enabled the learner build a directed digital learning environment at the institution with ease.

The main objectives of the course were:

- Learn with innovative approaches towards digital learning.
- Win the ability to create a positive, supportive and inclusive digital learning environment.
- Gain understanding, knowledge & skills to digitize online Teaching-Learning.
- Building confidence to succeed the role of a teacher at any level of education.

ICTACADEMY

This module on digital teaching also focused on the various applications(Apps) available for teaching like Zoom, Google meet, Cisco WebEx etc. Also insight of the use of various options of particular apps were discusses which could reduce the disturbances and annotations which are possible from the learner end. It pawed way for the various setting available at every app for effective teaching-learning process. A total of 10 faculty members from various departments across the college have benefitted from this online digital teaching technique course. All the faculty members have also been certified to be a digital teacher.

Book Chapters Published



Dr. H S Prasanna, Professor, Dept. of Civil Engineering and his students has published following book chapters

- **Prasanna H S**, Basavaraju, Chaitra A R, (2020) Characterization of Compacted Fine-Grained Soils. In: Latha Gali M., P. R.R. (eds) Geotechnical Characterization and Modelling. Lecture Notes in Civil Engineering, vol 85. Springer, Singapore. https://doi.org/10.1007/978-981-15-6086-6_1
- **Prasanna H S**, Harshavardhan S C, Chaitra A R, Pooja P K, Beeresha P, (2020) Increasing the Yield of Ring Wells by User Friendly Method. In: Latha Gali M., Raghuveer Rao P. (eds) Construction in Geotechnical Engineering. Lecture Notes in Civil Engineering, vol 84. Springer, Singapore. https://doi.org/10.1007/978-981-15-6090-3_1

FDP on "Research Opportunities in Civil Engineering"

One-week online Faculty Development Programme (FDP) on "Research Opportunities in Civil Engineering" was held from 7th to 11th September 2020. The FDP was organized by Department of Civil Engineering and was sponsored by Technical Education Quality Improvement Programme (TEQIP 3). The workshop covered the topics related to various research opportunities in Civil engineering for faculties, research scholars and PG students. Eminent researchers from IISc, IIT's, NIT's and other institution were part of the FDP. Prof. T V Ramachandra, Dr. K S Nanjunda Rao & Dr. Vishwesha Guttal from Indian Institute of Science, Bengaluru; Dr. G R Doddagoudar from IIT Madras; Dr. Dwarakish G. S., Dr. Lakshman Nandagiri & G R Reddy from NITK Surathkal; Dr. N Suresh, from NIE, Mysuru; Dr. P Nanjundaswamy from SJCE, Mysuru; and Dr. H N Ramesh, from UVCE, Bengaluru, delivered talks on research opportunities in Civil Engineering.

The event was inaugurated by Dr. G Ravi, Professor, NIE Mysuru and was presided by Dr. Rohini Nagapadma, Principal, NIE Mysuru. Dr. K. C. Manjunath, Professor & Head, Department of Civil Engineering and Dr. M. S. Ganesh Prasad, Dean (AA) were the chief guests. The online FDP was attended by more than 250 participants throughout the country from industry and academia. The valedictory function was held on 11th September 2020, Dr. M. S. Ganesh Prasad – Dean (AA) was the chief guest and distributed the certificates to the participates. The Co-ordinators of the FDP were Dr. H S Prasanna, Mrs. Vedaprada R, Dr. Punith B Kotagi, and Dr. K Gourav, faculties from the Department of Civil Engineering, NIE Mysuru.

National Level Quiz

National level quizzes in two-levels were organized by Department of Civil Engineering, The National Institute of Engineering, Mysuru. Level 1 quiz was held from 20th to 22nd July 2020 and Level 2 quiz was held from 23rd to 25th July 2020. In level 1, 1885 students attempted the quiz and 918 students qualified. Similarly, in level 2, 1653 students participated and 750 students qualified. The coordinators of the quiz were Dr. N C Balaji, Dr. Naveen B O, Dr. Punith B. Kotagi & Mrs. Nikitha Anand V.

Celebration of Gandhi Jayanthi and Launching of "DhwaNIE" - An IP Radio Channel



On October 2nd 2020, NIE celebrated Gandhi Jayanthi to salute the father of the Nation and paid rich tribute for the supreme sacrifice he made to our mother land. We were honored and proud to launch **'DhwaNIE'**, Voice of NIE, the IP Radio station platform of NIE. Shankar Prasad, who is an alumnus of NIE graced the occasion as the Chief Guest and virtually inaugurated the NIE radio.

Gandhi Jayanthi was celebrated with an ode to the Father of Nation on 2nd Oct 2020 at NIE through Google meet.

Ms. Dharithri M, the cultural secretary of Kalasamhitha hosted the event. It was kick started by paying rich tributes to Bapuji along with Sri Lalbahadhur Shastriji who shares his birthday. The musical note Raghupati Raghava Rajaram was sung by the Kalasamhitha members. Rohini Nagapadma ma'am welcomed the gathering. Our beloved principal Dr.Rohini Nagapadma welcomed the gathering. The chief guest was introduced by Ms. Arya. This was followed by the virtual launch of **DhwaNIE** by declaring it open by the chief guest. The different clubs of NIE were introduced by Balachandra and the overview of these clubs were made aware to the guests by Dr. Likith Kumar. The chief guest addressed the gathering and appreciated NIE for taking such a good step to ensure that they provided a single platform for students to showcase their talents. The event was a grand success where many students, faculties and alumnus were present. Many alumni shared their thoughts with us and appreciated this initiative. The function was concluded by paying rich tribute to our motherland sung by Mr.Samvatsara and was followed by vote of thanks by Smt. Vanamala, Cultural Coordinator of NIE and President of **Kala Samhitha** cultural club.

The event was a grand success and well appreciated by one and all.

"DhwaNIE" *Voice of NIE*

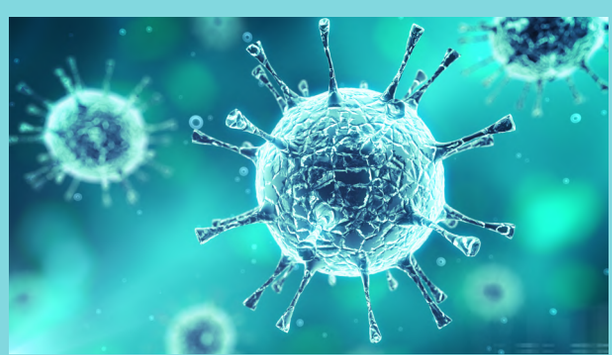
NIE has a very vibrant campus culture, rich with opportunities to complement your academics, NIE is a hotspot of excitement that helps you develop the best version of yourself by choosing from and making the most of a delectable spread of extracurricular activities ranging from sports and culture, to hobby groups and more.

To create a single platform of all hobby clubs, "DhwaNIE" – a single platform was created to showcase the talents of NIE and activities of various clubs on IP Radio.

Objective

- Common online Platform for all club activities at NIE
- Interactions with various clubs to come together and celebrate the vibrant culture and talents of students of NIE
- Global Visibility of activities at NIE.

Online Workshop on "Career Opportunities and Guidance Post COVID-19"



A three-day online Workshop on 'Career Opportunities and Guidance' Post COVID-19 was organised from 13th July to 15th July, 2020 by Department of Civil Engineering. The workshop was funded by Technical Education Quality Improvement Programme (TEQIP-3). The workshop aimed at providing insight about career opportunities in Civil Engineering field for final year and pre-final year students. The workshop was inaugurated by Dr. M S Ganesh Prasad, Dean Academics and Dr. K C Manjunath, HoD Civil Engineering addressed the highlights of the workshop during pandemic. The speakers were Mr. Nagesh; Mr. Anand. M. Hulagabali; Mr. Aswath Bhargava, Saadhana Engineering & Business Consulting Services, Bengaluru; Dr. C H Solanki, Professor, NIT Surat and Mr. Harish Machia, Principal, Associate-Idental Management Consultancy, Mysuru. About 130 students attended the online workshop. The co-ordinators of the workshop were Dr. H S Prasanna, Mr. Anand. M. Hulagabali & Mrs. Vedapradha R and Mrs. Roopa N was the organizing Secretary.

Seminar on "Gender Equality and Woman Empowerment"



NIE in association with ICT Academy hosted a webinar through google meet on Gender Equality and Women Empowerment on 4th July 2020. The resource person Ms. P S Archana, Founder, Skill Exploria delivered the talk. She spoke extensively on various women related issues. Gender equality is, first and foremost, a human right she said. A woman is entitled to live in dignity and in freedom from want and from fear. Empowering women is also an indispensable tool for advancing development and reducing poverty. Empowered women contribute to the health and productivity of whole families and communities and to improved prospects for the next generation. The importance of gender equality is underscored by its inclusion as one of the eight Millennium Development Goals. Gender equality is acknowledged as being a key to achieving the other seven goals. Yet discrimination against women and girls - including gender-based violence, economic discrimination, reproductive health inequities, and harmful traditional practices - remains the most pervasive and persistent form of inequality. The program had about a 100 participants and was well received by all.
It was coordinated by: Dr. Rohini Nagapadma, Principal, NIE, Dr. D Mamta, Professor, Smt.C K Vanamala, Associate Professor and Convenor, and D. VishnuPrasad, State Head, Karnataka ICT Academy.

Effective Teacher's Toolkit Post-COVID

The Department of Computer Science and Engineering organized a webinar titled "Effective Teacher's Toolkit – Post COVID" on 6th July 2020. The broad area of training was teaching learning process. The objective of the event was to explore the tools and techniques for effective teaching process post COVID-19. The sessions were engaged by Dr. Sudarshan Iyengar, Associate Professor, IIT, Ropar and Dr. Sujit Kumar Chakrabarti, Assistant Professor, IIIT Bengaluru. The experts have contributed and developed several NPTEL courses successfully, shared their experiences with the participants. They encouraged active participation of participants via polls, questions and activities. They also demonstrated how freely available tools can be used effectively in online teaching environment.



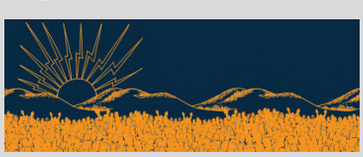
The outcomes of the program were:

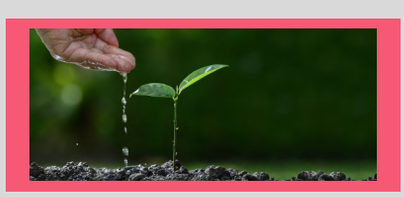
- Faculty members were enlightened with the usage of different tools that can be used for effective course delivery via online platform.
- Faculty members were demonstrated active learning techniques for student engagement.

The event was organized by Dr. Jayasri B S, Associate Professor (Convener), Dept. of CS&E, Mr. Ramesh G (Coordinator), Dept. of CS&E, Mr. Ananth G S (Coordinator), Dept. of MCA and Mr. Narender M (Coordinator), Dept. of CS&E.



New Initiative at NIE by "Energy Swaraj Foundation"





The Energy Swaraj Foundation (ESF) is a not-for-profit organization, formed to establish Energy Swaraj across the world. The motto of the ESF is **"Energy by Locals for Locals"**. The Foundation believes that not through the governments around the world or its policies, but the involvement of the public, a major transformation in energy generation and consumption towards renewable energy can be achieved. The Foundation in its 'public movement' mode of operations, works with the people to provide them affordable, reliable, and complete energy solutions.
ESF has started a great initiative called ENERGY LITERACY DRIVE across the country to adopt a solar solution for domestic power needs by organizing an online course "Learn to Design Your Own Solar Home System".The National Institute of Engineering has appreciated the initiative by ESF and has partnered in the course by promoting students to actively participate in the ENERGY LITERACY DRIVE. Over 480 students have registered for the course and 180 of them have been awarded the e-certificate.
Further, The National Institute of Engineering has expressed its interest to collaborate with ESF for the long term by planning to develop a SOLAR INCUBATION CENTRE within the campus. The incubation centre aims to provides support to local people who desire to develop and market products based on solar energy.

Webinar on "Global Construction Opportunities & Challenges"

Department of Civil Engineering organised a webinar: "Global Construction Opportunities & Challenges" on 24th August 2020 as a part of Student Development Program. The speakers of the webinar were Dr. H S Prasanna, Chairman- TPAC, NIE Mysuru; Mr. Raj Naidu, Director, SkyTech Group, Dubai; Mrs. Sapna Shetty, Director, Habitus Design, Dubai and Mrs. Sujatha Naren, Director-Learning, ATI, Bengaluru. The co-ordinators of the webinar were Mr. Anand. M. Hulagabali & Mrs. Vedapradha R, faculties from Dept. of Civil Engineering.

TEQIP-3 Sponsored Training for non-teaching staff

Spoken tutorial, IIT Bombay is conducting a training programme on 'Office Productivity Software Libre Office' for non-teaching staff members of NIE. The training started online from 23rd September 2020.

About 25 non-teaching staff are participating in the training. They are undergoing training on Libre Office Suite Calc 6.3, Writer 6.3 and Impress 6.3. The objective of the training is to enhance the soft skills of non-teaching staff. Dr. P M Ramdas Bhandarkar, Professor, Dept of Chemistry is coordinating the programme.

Virtual power seminar on 'Universal Values & Ethics"

A webinar on "Universal values & Ethics" was organized by NIE in association with ICT Academy on 11th July 2020. Resource person Mr. Imran Ahmed, Director at Infinite Edge Training and HR Solutions spoke very relevantly on Universal values and Ethics which is very much needed to guide youth in ethical manner. He also said that there are universal life truths that apply to all of us. In many ways, we are all in this together and we have many similarities, or common life truths, that affect everyone in some form or the another. Despite religious, cultural and geographical differences, there are many commonalities that we can all embrace. We often feel we are the only ones going through struggles and tough times. Shared experiences allow us to feel more connected, less alone and isolated in what we are going through, even if we aren't physically sharing them together. Hopefully this list of universal life truths he put across will helps one to realize that no one is alone.

They are:

- Parents and upbringing
- Stress
- Born equal, leave equal
- We all want love and acceptance
- Happiness is a fleeting feeling
- We all experience intrusive thoughts

ICTACADEMY

The event organizers of the program were, Dr. Rohini Nagapadma, Principal, NIE, Dr. D Mamta (Convener), Smt. C K Vanamala, Associate Professor (Coordinator) and D Vishnu Prasad, State Head, Karnataka, ICT Academy.

NIE IEEE Student Branch (NISB) Activities

NISB

NIE IEEE Student Branch (NISB), plan to focus on **Profile Building and Networking** in this year and to facilitate the same, conducting a plethora of events in fields such as technical, non-technical, techno-fun, administrative, ice-breakers etc. The new core team started the tenure with **The Riddler**, a coding event filled with puzzles and riddles. This was followed by **NISBXtreme**, a mock event for participants to get the feel of **IEEEXtreme**. **The Road Ahead**, which was a mixture of an administrative event with a few ice-breakers, was conducted to let both the IEEE and non-IEEE members know more about the benefits of IEEE. NISB also conducted a few **WiEWeekly Meetups on AVR Programming** and various workshops on topics such as **Scilab**, **GoLang**, **Linux Essentials** and **Git and Open Source** to name a few. Some non-technical events such as **Quarantine2.0** and a panel discussion on **Engineer's Covid Paradigm** also been conducted. Branch had its annual week-long IEEE Day celebrations with various events such as **discord bot-making workshop**, **Who killed blaze**, group discussion etc. NISB aim to give its members a platform to express themselves and have come up with various new initiatives such as the **Mentorship Program**, our own Podcast called **Tech N' Tales**, a **CommuNIEty discord server** and a whole new dimension of **social media outreach**. NISB plans its events keeping the members feedback and requests as well as new and cutting-edge technologies in mind.

FDP on "Basics of Computational Fluid Dynamics"

The Department of Mechanical Engineering, National Institute of Engineering Mysore, organised one week online Faculty Development Programme (FDP) on "Basics of Computational Fluid Dynamics: Applications and Analysis" for students, research scholar and faculties from August 31st to 4th September, 2020. The FDP was conducted with an objective to provide an overview in the basics, application and research advances in the area of Computational Fluid Dynamics. The major area of FDP focussed on the basics of CFD including Finite difference method, Finite Element method and Finite volume method and applications in the area of multi phase flow, Battery, weather prediction modelling, Heat treatment process simulation.

The FDP started at with the welcome speech by Prof. T N Shridhar and followed by the formal inauguration of the FDP by Dr. N.V Raghavendra, Vice-Principal, NIE, Mysuru. The vote of thanks was delivered by Dr. L Krishnamurthy, Head of the Department, Mechanical Engineering and master of ceremony by Dr. Sathisha H M. The course content was delivered from a pool of resource persons on the subject from prestigious academic institutions and leading industries. There were a total of 78 internal and external participants from different engineering colleges across the country. The FDP provided an opportunity to discuss and exchange ideas in the recent research developments in the field of Computational Fluid Dynamics.

"Campus to Corporate" - Career Preparatory Course

NIE in association with ICT Academy conducted a 6-day campus to corporate program.

The students of UG and PG were informed well in advance to attend the Virtual Career Preparatory Course which would help the students in adapting to the modern corporate world. ICT Academy is an initiative of the Government of India in collaboration with the State Governments and Industries.

ICT Academy is a not-for-profit society, the first of its kind and a pioneer venture under the Public-Private-Partnership (PPP) model that endeavours to train the higher education teachers and students thereby exercising on developing the next generation teachers and industry-ready students.

The training objective was to prepare students for virtual interviews, identify their strengths, corporate ethics, and etiquette, building their self-confidence, self-esteem, setting the right goals, and help them to succeed in life.

Objectives of the Program

- Enabling you to discover and enhance your strengths.
- Kick start strategies for you to set goals to succeed in life
- Ignite your confidence, improve self-esteem, and build positivity in attitude.
- Nurture your understanding of the nuances of corporate ethics and etiquette.
- Tour you through the world of business communication.
- Decipher the thrilling new virtual placement process.

The Campus-to-corporate program involved a lot of new techniques for assessing oneself. Information to the students was conveyed effectively. An online chat was enabled where interaction was made each day and every session for better understanding. This made the students to actively participate.

- Key experiences and stories were told which surely did help students to learn a lot from key mistakes.
- Students learned a lot of tools that help to shape their career in the best company which shall suit them.

Seminar on "How to prepare for GATE exam without Coaching"

The Dept. of ME, NIE Mysore, organised one day online seminar on "How to prepare for GATE Exam without Coaching" for final year students on 26th September, 2020. The seminar was conducted with an objective to provide an overview to motivate students to improve technical knowledge which leads to increase in placement percentage and admission for PG at IITs and NITs. In this seminar Dr. Sathish H M, Assistant Professor, Dept. of Mechanical Engg and Coordinator Career Guidance Cell has explained the way how to prepare for GATE exam without coaching. In the seminar he has divided the subjects into four categories The seminar also provided an opportunity to discuss and exchange experience ideas about GATE exam. There was a formal motivational talk by Mr. Srikanth N S, Assistant Professor Dept. of Mechanical Engg. and Coordinator Career Guidance Cell. There were total 116 participants (final year students) from dept. of ME, NIE Mysore.

"International Biofuel Day" by CREST



International Biofuel day was celebrated by Centre for Renewable Energy & Sustainable Technologies (CREST), NIE on 10th August 2020. Dr. Rohini Nagapadma, Principal NIE, Mysuru & Prof. Seshprakash were the guests. Prof. Sheshprakash spoke about the importance of Biofuel in reducing pollution and reducing import of fuel to India. Dr. Rohini Nagapadma assured full support from NIE to promote Biofuel through CREST, NIE. Prof. Shamsundar, Coordinator BIRDC, NIE-CREST , Mysuru highlighted the Biofuel activities of the Centre.

Webinar on "Introduction to Artificial Intelligence (AI) with MATLAB"

The Department of Mechanical Engineering, NIE Mysore, organized a one day webinar on "Introduction to AI with MATLAB" on August 11, 2020. Totally 107 registered for the webinar out of which 50 internal and 57 external participants attended the webinar. The webinar was focused on exploring MATLAB towards understanding and different AI techniques. The speaker Mr. Akhil Gopinath, Education Technical Evangelist, Math works, India started with the introduction to AI and its application areas in various fields of engineering. He also showcased on the various packages available in MATLAB which are very advanced in learning and working with AI. Also highlighted about various projects that are been completed in different industries using MATLAB software. Finally speaker concluded the webinar by presenting the various challenges that will arise in the teaching learning process of AI and how MATLAB will be useful in addressing those nuances.

FDP on "Basic Concepts in Turbo-Machinery and its Applications"

The Department of Mechanical Engineering, NIE Mysore, organised one week Faculty Development Programme (FDP) on "Basic Concepts in Turbo-machinery and its Applications" for students, research scholars and faculties from August 24 to 28, 2020. The FDP was conducted with an objective to provide an overview in the basics, application and research advances in the area of Turbo-machinery. The major area of FDP focused on the basics of pumps, compressors and turbine, experimental, numerical modelling, surrogate model, and research advances in hydro, wind and wave energy. The co-ordinators of the programme were Dr. Mrinal K R, Dr. Sathisha H M and Mr. Anand A.

The FDP was inaugurated by Dr. N V Raghavendra, Vice Principal, NIE, Mysuru. The course content was delivered from a pool of resource persons on the subject from prestigious academic institutions such as IITs, NITs and IIPE and leading industry (Softinway Turbomachinery solutions pvt. Ltd). Prof. L Krishnamurthy, HOD, Dept. of ME and Prof T N Shridhar were present in the inaugural session. There were total 114 participants (faculties, research scholars and students) attended from various engineering colleges all over India.

Congratulations







Dr. Asha N, Associate Professor and HOD, Dept. of MCA, has completed her Ph.D. from Visveswaraya Technological University, Belagavi, in the area of cloud computing with the title "Energy Efficient Resource Allocation Scheme in Cloud Computing Environment" under the able guidance of Dr. G. Raghavendra Rao, Former Principal, NIE, Mysuru.

Dr. Sharath Chandra N, Assistant Professor Dept. of Mechanical Engineering, has completed his Ph.D. from Visveswaraya Technological University, Belagavi, with the title "An Empirical Study to Assess the Technological Capability of Aerospace Industry Cluster of Bangalore" under the able guidance of Dr. G. L. Shekar, Former Principal, NIE and Dr. N. V. Raghavendra, Vice Principal, NIE, Mysuru.

TEQIP-3 Sponsored Training Programme on "MOODLE"

A training programme on Moodle LMS was conducted for all the faculty members of National Institute of Engineering for 3 days, from 24-08-2020 to 26-08-2020. It had become imperative for a prestigious institute like National Institute of Engineering to equip their faculty members with skills to use a learning management system (LMS) efficiently. Moodle was the first choice as it was open source in nature and also one the most popular LMS in the world and PAN India.

Objectives of the training :

- § Familiarization of an online LMS based environment for teaching and assessment.
- § To encourage the use of open source software.

The training program from eAbhyas Pvt Ltd was conducted for 200+ faculty members including super administrators and Moodle managers.

The training programme was coordinated by Dr.ShrirangAmbaji. Kulkarni, Associate Professor, Department Computer Science and Engineering and Mr. Narender, Assistant Professor, Department of Computer Science and Engineering under the guidance of Dr. C Vidya Raj , Professor and Chairman, ICT Committee.

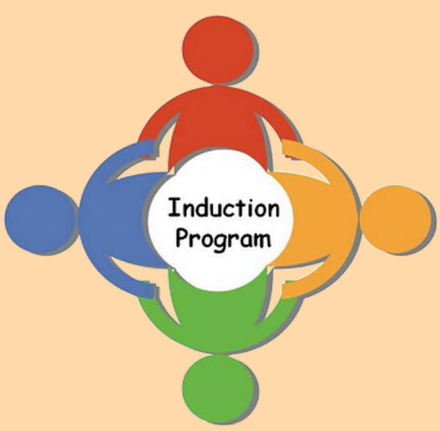
Moodle is the most popular Learning Management System (LMS) worldwide under open source category. NIE under the visionary leadership of our Principal Dr.Rohini Nagapadma and with the active support from Management helped in making Moodle a reality. Thus Moodle is now providing a platform for collaborative teaching and learning beyond classroom and helping the student community, own their learning initiatives.

eabhyas Info Solutions, a Moodle recognized partner is collaborating with NIE to make various Moodle capabilities available to the students and other stake holders, to make online learning an effective exercise. They provided training on Moodle to Super-Administrator, Department Managers and 200 plus faculty members. The faculty members have their own and exclusive Moodle credentials and have started using Moodle to deploy learning contents.

NIE is privileged to house the learning content on its own server, DELL Power edge R440 with 32GB RAM and Intel® Xeon® Scalable processors, with a vision to cater to 4500 students.

Moodle platform is actively accessible on internet as https://moodlegurukul.nie.ac.in/ and is coordinated by Dr. Shrirang Ambaji. Kulkarni, Associate Professor, Computer Science & Engineering Department with active support from Mr. Narender, Assistant Professor, Computer Science & Engineering Department under the guidance of ICT Committee Chairman Dr. C Vidya Raj, Professor, Computer Science & Engineering Department. Moodle platform management at NIE works in a distributed manner with Department Moodle Managers actively working at department level.

FDP on Universal Human Values for "Deeksharambh"



Dr. R. Chidanandappa, Associate Professor, Department of Electrical and Electronics Engineering coordinated the "Five-day online FDP on Universal Human Values for DEEKSHARAMBH (Student Induction Program)" organized by NIT Patna during 21 - 25 September 2020. The objective of this Programme was prepared to provide/enhance the mentoring capabilities of the faculty member of universities and institutions so that they are able to conduct Student Induction Program. The universal human value (UHV) is the core components of the student induction program and the objectives of the program cannot be achieved without the deliverance of UHV. More than 25 faculty from various departments participated in this programme.

Centre for Workplace Safety and Health (CWSH) @ NIE

The Centre for Workplace Safety and Health (CWSH), funded and founded by NIE alumnus Dr. N. Krishnamurthy (1955 Batch), was inaugurated as autonomous unit of NIE by Padma Vibushan N. R. Narayana Murthy on December 6, 2019.

During 2019, the centre ran three in-person courses by Founder-Director Dr. N. Krishnamurthy, on **Construction Safety and Office Ergonomics**, two in Mysuru and one at Bengaluru.
This year, due to COVID-19 pandemic, the centre conducts on-line webinars. Already five webinars have been presented, first two on how to adjust work to COVID, and the next three on safety in various engineering industries, each with one or two expert speakers.

In April 2020, Prof Krishnamurthy presented four webinar lectures on workplace safety to L&T, on a consultancy arrangement. Prof. Yusuf Javeed, Dept. of Civil Engineering is nominated as Campus Safety Coordinator, who serves to link CWSH with NIE faculty and students. The Centre invites NIE faculty as guests for our webinars, and some alumni are also sponsoring NIE students to attend.

"We hope faculty and students patronise our webinars. We have been invited to develop campus safety procedures for NIE, and have constituted a committee involving our teem with campus and departmental safety coordinators".

Dr. N Krishnamurthy, Founder-Director

Research Publications by Faculty

- Venkatesh A, **Dr. Shankar Nalinakshan** , S. Kiran , **Dr. H Pradeepa**, published paper titled " Energy transmission control for a Grid-connected modern power system Non-Linear loads with a Series Multi-Stage Transformer Voltage Reinjection with controlled converters" in International Journal of Engineering Trends and Technology, Volume 68 Issue 8- Aug 2020, ISSN: 2231-5381.

- **Dr. Shankar Nalinakshan**, Presented paper titled "Optimization of Crude Oil Distillation Process Using Intelligent System Approach" in ICGEES 2020 on August 5 & 6 2020 organised by the Department of Chemical Engineering, NIT Calicut.

- Appalabathula Venkatesh, **Dr. Pradeepa H**, **Dr. Chidanandappa R**, **Dr. Shankar Nalinakshan**, **Dr. Jayasankar V N**, Published paper titled "Brushless Motor Performance Optimization by Eagle Strategy with Firefly and PSO " in International Journal of Engineering Trends and Technology (IJETT) – Volume 68, Issue 9, Sep 2020.

- **Sneha G N**, **K R Sumana**, **Dr. H D Phaneendra** published the technical paper Correlating ECG to Rate Quality of Fatigueness in Drowsy Driving in International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 06.

- Keerthivasan K and **K R Sumana** published the technical paper IoT Based Security System for Supporting Parentalship in International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 06

- **Chethan K G** and **K R Sumana** published the technical paper FICO Authentication Suite and FICO Identity Proofing in International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 06

- Sangeetha S M, **K R Sumana** and **Dr. H D Phaneendra** published the technical paper Predicting HRV Accuracy to Measure Drowsy Status for Smart Traffic in International Research Journal of Engineering and Technology (IRJET), Volume: 07 Issue: 06

Active Student Clubs @ NIE

NIE IEEE Student Branch (NISB)

Year Started: 1998
Office Bearers: Tejasvi Kashyap, C Ramprakash, and others
Staff Advisor: Dr. Rohini Nagapadma
Vision & Mission: To foster technological innovation and excellence for benefit of humanity

Team SAENIEKS

Year Started: 2015
Office Bearers: Santhosh R Haliyur - Captain, Sandesh Prasanna Kamat - Manager, Anudeep Sampath Rao- Vice-Captain
Staff Advisor: Mr. Vikram Athreya V
Vission & Mission: VISION- To be one of the best student Baja team and get International recognition to NIE in Racing and Automotive sector across the globe. MISSION - To provide a platform for students to apply the theoretical knowledge into practical applications. To develop the technical knowledge of the team members and encourage to think out of the box. To improve skills such as Leadership, problem solving, decision making and practical skills like Welding, Machining, Designing and Fabrication. To build a world class student team in the automotive sector.

Ubiquitous Computing and Signal Processing Research Group

Year Started: 2017
Office Bearers: Sawan Somaiah B K, Raksha S
Staff Advisor: Dr. Vijay B T
Vission & Mission: To build a research environment for inspiring minds and to embark intellectual circuit in the years to come.

Onyx

Year Started: 2009
Office Bearers: Shashank S, Arya A I, Venu D
Staff Advisors: M J Yogesh, Prof. Rajaram
Vision & Mission: Visionn is to inculcate, motivate and develop the entrepreneurial ethos among students in their pursuit of quenching their urge for success in establishing their self sufficient and fecund ventures. Mission is to foster entrepreneurial thinking, promote business knowledge and inculcate confidence in every student. To help the aspiring entrepreneurs start and grow their businesses by creating a pathway of various opportunities.

Aerotantrix

Year Started: 2009
Office Bearers: Captain-Vamsi Krishna, Vice Captain-Sohan Purushan, Team Manager-Maithly Puranik, Fabrication Head- Laxminarayan Shenoy
Staff Advisor: Mr. Srinag P
Vission & Mission: To provide strong conceptual and practical platform for aeromodelling ventures among multiple engineering disciplines.

Force Ikshvaku Racing

Year Started: 2014
Office Bearers: Chetan L Minachi, H Rajesh, Kartik Rashinkar
Staff Advisor: Mr. Sunil Gaikwad
Vission & Mission: We aim at designing and manufacturing a light weight, faster & a reliable Formula Student car every season and participate at Formula Student events across India.

(.... to be continued)

The National Institute of Engineering
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Design By: Dr. P. Parameswara, Assistant Professor, Dept. of Physics, NIE, Mysuru