

IPE TAMILNADU STATE CENTRE HAS BEEN REVIVED ENTHUSIASTIC WAY FORWARD



Prof. Dr. D. Thirunakkarasu, Chairman and **Dr. K. V. Krishna Sastry**, Vice Chairman met **Dr. K. Gopalakrishna**, National Secretary, **Dr. Muralikrishna Reddy**, Vice Chairman, both from the National Body and **Mr. Subramanyam**, Manager of NHQ and discussed about the improved activities of state chapter on 27 Feb 2020 at Bangalore. During the meeting, detailed discussions were held on various steps taken by the TN State Centre for its revival after long gap. The current state of activities being carried out is also updated to the NHQ. Both the office bearers of the NHQ appreciated the present Office Bearers of the Tamilnadu State Chapter with new team of enthusiasts and assured all possible helps from NHQ to strengthen the IIPE activities at Tamilnadu.

Mechanical Engineering Student's Association & IIPE Student's Chapter at Erode Sengunthar Engineering College, Erode

Department of Mechanical Engineering inaugurated **Mechanical Engineering Student's Association & IIPE Student's Chapter** on 10.03.2020. **Dr. Srinath M K** has been invited as a Chief Guest to inaugurate the Mechanical Engineering Student's Association & IIPE Student's Chapter and delivered the guest lecture on the topic of Advanced Manufacturing Technology.





Glipmses of Mechanical Engineering Student's Association & IIPE Student's Chapter

Three days' Webinar Series on

Multi-Criteria Decision Making (MCDM) in Manufacturing at

K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra

Three days' webinar series on "Multi-Criteria Decision Making (MCDM) in Manufacturing" was organized by the Department of Production Engineering, K. K. Wagh Institute of Engineering Education and Research, Nashik in association with Indian Institution of Production Engineers during May 26-28, 2020. The main objective of this webinar series was to promote the research culture in the Production Engineering field among the faculty and students of various engineering institutes in Maharashtra. About 350 participants had register for this webinar series on 'Go to Webinar' platform. This series of webinar was inaugurated by Dr. K. N. Nandurkar, (Principal, K. K. Wagh IEER, Nashik), who delivered the welcome address. Total six sessions have been conducted in this webinar series. First session was delivered by Dr. K. N. Nandurkar on topic "Application MCDM techniques in design of Cellular Manufacturing System". Second and Third session was conducted by Dr. P. J. Pawar



(Professor and Head, Department of Production Engineering, K. K. Wagh IEER) on topics Multi-Criteria Decision Making 1: "Analytic Hierarchy process and Data Envelopment Analysis", Multi-Criteria Decision Making 2: "Principal Component Analysis, Multi-objective Artificial bee colony algorithm", etc. Fourth session was delivered by Dr. Ramesh Lekurwale (Professor and Head, Department of Mechanical Engineering, K. J. Somaiya COE, Mumbai) on topic Applications of VIKOR method. Fifth session was delivered by Dr. Kailas Chandratre, Principal, LoGMIEER, Nashik on topic "Application of MODM Method to Plant layout optimization". The last session was conducted by Dr. P. J. Pawar on the topic "Modified TOPSIS method". E-certificates distributed to attendees by mail. Prof. Santosh B. Sangle coordinated this event.

Faculty Development Programme (FDP) On "OUTCOME BASED EDUCATION AND NBA-ACCREDITATION"

VTU TEQIP1.3 Cell in association with Aryabhatta Knowledge University, Patna, Bihar and Biju Patnaik University of Technology has Sponsored a Faculty Development Program (FDP) on "Outcome Based Education and NBA-Accreditation" by the program Coordinator, Dr. M. S. Ganesha Prasad, Dean, Prof and Head of ME dept of New Horizon College of Engineering. It was held from 28th January 2020 to 1stFeb 2020. The FDP brought together participants from different colleges across the state and also included internal participants. The FDP had eminent speakers and resource persons from reputed institutes from across the state of Karnataka. Most of the participants who attended the workshop were faculties and NBA coordinators. The FDP provided an interactive atmosphere between the resource persons and the participants.





Glimpses of FDP



OPPORTUNITIES FOR WOMEN IN 2020

Dr. M S Ganesha Prasad,

Dean, Professor& Head Mechanical Engineering, New Horizon College of Engineering URL:https://www.ceoinsightsindia.com/women-leaders/opportunities-for-women-in-2020-nwid-2086.html



Highly seasoned academician always looks for the growth of organisations. EstablishedUG and PG departments in the Engineering Institutes.Responsible for getting NAAC A grade for Engineering Institute.Presently working for NBA accreditations of UG and PG programmes.

Women are the back bone of our society we need their contributions in most of the day to day activities. There are lot of opportunities available for the women in engineering field. Females were awarded 19.9 percent of all Bachelor's degrees by an engineering program in 2015 and made up 21.4 percent of undergraduates enrolled in engineering.

They received 25.2 percent of Master's degrees and 23.1 percent of doctoral degrees in 2015. This percentage of enrolment increased to 24.1 percent by the end of 2018. Off course in most of the software industries every fourth engineer is women. But there is good number of opportunities in branches like Mechanical Engineering, Civil Engineering, Automobile Engineering and in Electrical Engineering disciplines particularly in government sectors.

Women can get wonderful opportunities through core engineering in government sector jobs like Regional Transport Corporation(RTO), State Road Transport Corporations (RTCs), Railways, Public Works Department (PWD), State and Central Electricity Boards, Public Sector Undertakings(PSUs), and defence (Army/Navy/Air force). In recent times defence sector opened the opportunities for the women candidates, Women candidates of age 20-26 years (as per notified in the advertisement from Ministry of Defence) can apply for this entry. There is considerable comfort space available in Indian Administrative Service by getting through any one competitive examination like IAS, IPS, IES and IFS.

In Gujarat, 33 percent of posts are reserved for females in all government departments and services, such as police, health, education and general administration. Also most of the other state government recruitments are happening with almost 30 percent reservations to the female candidates. In the field of developing their own business either through startup or through family business, most of the women entrepreneurs' success rate is better in the core engineering sectors. This is because women are naturally good at multitasking. As this is the essential skill for the entrepreneur with little perseverance definitely they will be achieving their goal very fast.

In the field of developing their own business either through startup or through family business, most of the women entrepreneurs' success rate is better in the core engineering sectors

In some of the state government recruitment the authorities are not receiving the applications from female candidates. The jobs in core engineering branches are innovative, lucrative and can be easily obtained without much competition. Instead of going for mundane coding jobs, present generation women can really aim for core engineering jobs. Core engineering degree with IT (Information Technology) knowledge women can claim the professional ladder very fast. This may be because they are very meticulous and serious in all the activities which they will be doing in their carrier.

Also for women candidates in Indian higher education the fee structure is very much affordable, female candidates can think of acquiring higher degrees (Masters/Doctorates/Post Doctorates)either in India or abroad. If they are going for the higher education abroad the education loan for the women is cheap by one percent. If India has to compete in the international market, then this can be definitely possible if like-minded women can join core engineering branches and pursue their carrier in professional jobs.



27 Feb - 2 March 2020

Bangalore International Exhibition Centre, Tumkur Road, Bangalore, India

INDIAWOOD-2020

INDIAWOOD is one of the world's leading exhibitions for the furniture manufacturing and the woodworking industry. It offers its audience a comprehensive overview of the prevailing technological innovations and the latest manufacturing trends in furniture manufacturing, woodworking technologies, tools, fittings, accessories and raw materials. The **11th edition of INDIAWOOD** took place for the current year from **27th February – 02nd March 2020** at the Bangalore International Exhibition Centre.

In the earlier edition (10th) ie., in the year2018, 867 exhibitors from 35 countries participated; the event welcomed 70,356 visitors from 909 cities and 59 countries. Buyers clocked in for a complete overview of the market and technology in all its dimensions and created millions worth of business possibilities. The **11th edition of INDIAWOOD** is organized by **NuernbergMesse India Pvt Ltd** in cooperation with **PDA Trade Fairs Pvt Ltd** and supported by **Eumabois. Current edition of INDIAWOOD** - **2020**spread over approximately **65,000 sqm** of show floor with more than **875 exhibitors** from **40 countries** showcased their latest machines, technological innovations, equipment, smart manufacturing trends as well as materials, fittings, tools to the attendees from across the globe.

The students (around 50 no's) from VI SEM B Sections of Mechanical Engineering, New Horizon College of Engineering, Bangalore have been taken to visit INDIAWOOD 2020 on 28thFeb 2020. The visit was highlighted for its many live demonstrations and product launches during the show. INDIAWOOD continues to be the largest sourcing platform for furniture manufacturers, wood-based handicraft manufacturers, saw millers, carpenters, craftsmen, architects and interior designers in the region.

During the visit, Students interacted with different exhibitors and discussed about latest technologies in wood Forming. This visit was an **awareness program for imparting knowledge on ever changing technological innovations** for young engineers. Students from mechanical engineering stream understood the importance of machine tool industry growth of country.

Students have witnessed the participation of **various furniture manufacturing Industries** from **40 countries** including India at **INDIWOOD 2020**. This exhibition really helps the students in building up the self-confidence and to become an entrepreneur.

Machinery & Technology	Materials & Supplies
 Machinery & Technology Solid woodworking Panel Processing Wood based panel production Saw milling / Veneer peeling machine Surface treatment & Finishing lines Tools & accessories for furniture production & woodworking Packaging machines / wrapping machines for furniture manufacturers & woodworking industry 	 Materials & Supplies Adhesives, Chemicals & Wood Coatings Wood, Veneers, parquets flooring, Doors Decorative surfaces, Décor papers, Laminates, Door Skins, Edges, Composite materials etc Wood based panels (Plywood, Particle Board, MDF, Pre-lam Boards) and other versatile interior panels Embossing cylinders, Press plates Packaging materials for furniture manufacturers & woodworking industry
 Machines for upholstery, mattress and sofa manufacturing. 	 Materials & supplies for upholstery, mattress and sofa manufacturing.
 Fittings, Hardware & Components Fittings, Locks, built-in parts, Hardware Systems, Lamps and lighting systems Semi-finished products for Cabinetry, kitchen, office and modular furniture 	Industry Services Software Certifying Agencies Training & Research Institutes Industry Associations Online business portals

Some of the key points of **INDIAWOOD 2020** are listed below:

Major Stalls visited during the show are listed below:

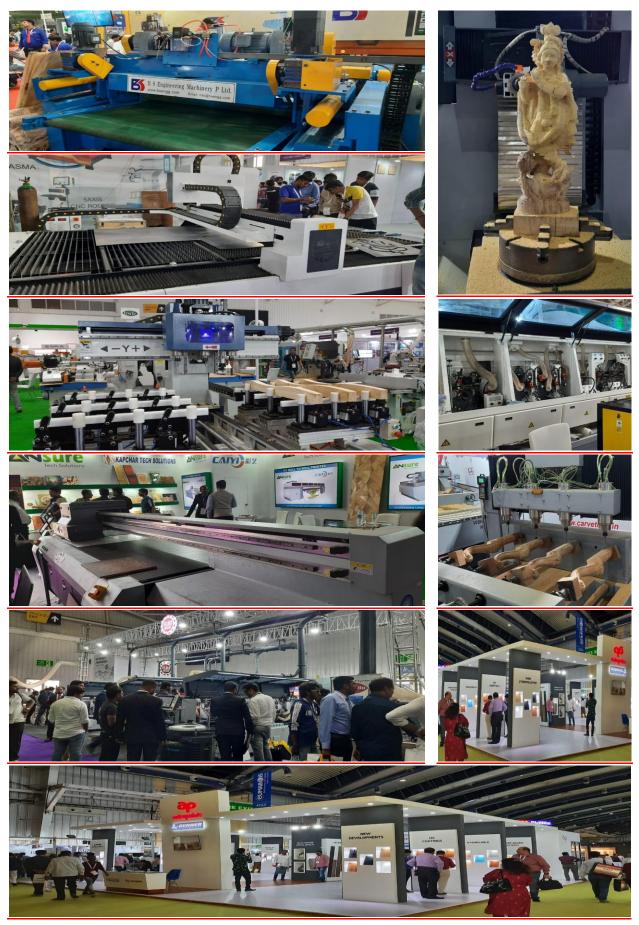
- ✓ **TEKNOVACE wood coatings** featured for manufacturing of custom designed high-end wood coatings.
- ✓ Shakuntalam Timbers featured for premium decorative hardwoods.
- ✓ **HP adhesives Pvt. Ltd.** famous for largest manufacturer of solvent cement in Asia.
- ✓ CARVE TECH from Matha wood carving famous for CNC wood, glass stone, metal cutting & carving machineries
- ✓ Vishwakarma Laminates (P) Ltd. manufacturer of High pressure decorative laminate sheets, electric panel, Bakelite sheet products etc.
- ✓ FixoBoardAtaInatic Polymers manufacturers of PVC.WPC plywood
- ✓ **K S Industries providing** complete solutions for plywood industry
- ✓ B S Engineering Machinery Pvt. Ltd. Largest manufacturer as well as exporter of plywood machineries, Bamboo processing machineries and coir board machineries
- ✓ **N R CNC Manufacturers** produces CNC machines useful for wood working professionals
- ✓ Newton Technologies provides complete solutions for wood working machines

and many more ...



Glimpses of INDIAWOOD-2020 Visit

IIPE Students' Chapters Visited INDIA WOOD 2020 at Bangalore



IIPE Students' Chapters Visited INDIA WOOD 2020 at Bangalore

IIPE Students Chapters have Participated in Activities: WEBINARS



Phase 2: Continental Competitions Phase 3: Global Competition @ SERBIA

International Conference on Engineering Trends and Challenges in Applied Science, Engineering and Technology ICECAET-2020

International Conference on Engineering Trends and Challenges in Applied Science, Engineering and Technology ICECAET-2020, conducted by Department of Mechanical Engineering, Gopalan College of Engineering, Bengaluru on 10th and 11th March 2020. Dr. Nagendra J, Senior Assistant Professor, Department of Mechanical Engineering, NHCE was invited as Keynote Speaker and Session Chair. Dr. Nagendra has delivered his keynote address on Additive Manufacturing Technology and its latest developments in the meadows of mechanical engineering during the International conference. The keynote session was followed by Paper Presentations and was chaired by him, where in the selected papers were assessed based on the technical presentations.





Glimpses of ICECAET-2020

IIT DELHI OFFERS RESEARCH FELLOWSHIP AWARD

TO FACULTY MEMBERS OF ENGINEERING INSTITUTIONS

Dr. Srinath M K, IIPE Life Fellow Member and Associate Professor, Department of Mechanical Engineering, New Horizon College of Engineering, Bangalore has been selected under the **Summer Faculty Research Fellow Programme–2020**, Department of Mechanical Engineering **IIT Delhi**. The program is for a period of 2 months starting from June to July 2020. Dr. Srinath M K will be working under the Mentorship of **Dr. P**



IIPE Chapters interested in Launching Their Own Satellites or to establish the UNISEC India Chapter at Their Institutions can contact: Dr. K. Gopalakrishnan, National Secretary, IIPE at <u>profgoki@yahoo.com</u> or M: 98451 73730

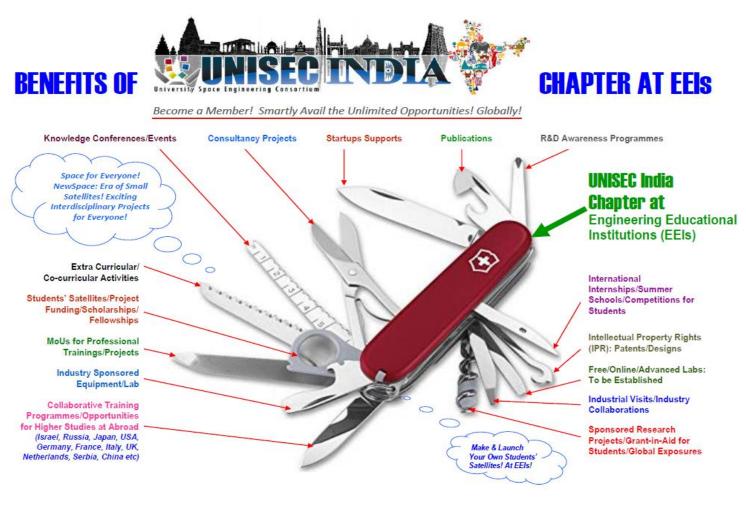
India- Israel Partnership

- Innovation, Robust Technology Base, Disruptive Technologies
- Academic Research to Products and Solutions
- Approach to Outreach Educational Programmes Industry & Institute
- Mastered in Space Technology
- Strong in Communication, Observation Science and EducationInternational Co-operation, Bilateral Agreements with India including Student
- Exchange Programmes and Joint Projects
- Funds Grants, Soft Loans etc

How Institutions Can Engage

- Build Strong "Space Technology" Competencies
- Hands on Development Experience- Students and Faculty Members
- More Industry Interaction (Real Time)
- State-of-the-art Technology Interventions
- Create New Job, Start-ups and Incubation facilities
- Nurture Future Space Engineers/Scientists
- Technology Demonstration S&T Research
- Support Education Outreach
- Make Students Future Career Ready

UNISEC India: Secretariat @4th Floor,#3, First Main, BDA Layout, Kodihalli, HAL 2nd Stage, Bengaluru – 560008, Karnataka, India; Contact Info: +91 80 6559 2501, +91 80 4850 8380; Website: <u>www.unisec-india.in</u>



IIPE Members in News...



BOSE SCIENCE SOCIETY

Established under the Charter of TNSRO, Affiliated with VIPNET, Vigyan Prasar DST, Govt.of India, NewDelhi. Vide unique authorization no:VP. TN0090/2017 39, Mura Bhavan, Koodal Nagar, Rajagopalapuram Post Pudukkottai-622003. Tamil Nadu. E.Mail:bsstnsro@gmail.com, 9952886637,04322-261088



10.07.2019

Ref No:TNSRO/BSS/150/GENL(A)/2019 Membership Number:M524/BSS/2018

To CH.V.SATYANARAYANARAJU Scientist D Research Centre Imarat, DRDO Hyderabad, Telangana, India.

Dear Sir/Madam Sub: BSS Annual Awards 2018-2019- Confirmation –Reg. Ref : Resolution No:BSS/023/11/2011 Dated 05.10.2011 Congratulations!

It is our extreme pleasure to inform you that your name is selected by the member and elected to the fellow of our society. Careful screening of your application, the selection committee has unanimously decided on awarding you as the winner of "Dr APJ ABDUL KALAM BEST SCIENTIST AWARD" for Metallurgy and Materials Engineering. This award acknowledges your invaluable service and research contribution in Metallurgy and Materials Engineering. On behalf of the organizers/committee; we cordially invite you to attend the award presentation ceremony on 24 August 2019 at Pudukkottai, Tamil Nadu, India. The ceremony will be graced by reputed scientists and most respective personalities. We congratulate you for selecting on this most prestigious award in 2018 - 19 with our fullest respect and sincerest best wishes.

Note : The above said named is hereby authorized to use suffix FBSS(Fellow of Bose Science Society) after candidate's name.

*This award confirmation letter is eligible for all academic purposes. Naturally yours

Vijikumar.S (Hon'ble President



Benefits of Professional Bodies Chapter at EEIs: Including IIPE Chapters at EEIs Which Provide Network to Achieve the Following:

Publications

- Research Papers: Published in Journals (With ISSN/Impact Factors etc)
- Research Papers: Published in Conference (Proceedings with ISBN)
- Books
- Monographs/White Papers
- "h" Index of Each Faculty
- "I 10" Index

Intellectual Property Rights (IPR)

- Patents
- Trade Marks
- Geographical Indications
- Layout-Designs of Integrated Circuits
- Industrial Designs
- Trade Secrets

Heat

Hydrogen in

Copy Rights (rights of authors of literary and artistic works including Computer Programmes)

Sponsored Research Projects/Grant-in-Aid Consultancy Projects Industry Sponsored Equipment/Lab

Free/Online/Advanced Labs: Established

- Students/Faculty Activities
 R&D Awareness Programmes Extra Curricular/Co-curricular Activities
- Establishing Chapters of Professional Societies/Trade Bodies
- Enhancing Team Activities/Interpersonal Skills etc
 Emerging Trends Watch: Alternative Teaching & Learning
- Innovations/Patents/Video Watch etc

Industrial Visits/Industry Collaborations

- Arranging Industrial Visits/Field Training of Faculty/Students at Industries
- ^h B.Tech and M.Tech Mini-Major Project/Dissertation Work at Industries
- Collaborative Training Programmes/Credit Courses
- Companies to Take Students for Learn & Earn Programs
- Practical Training/Pre Internship of students in Industries (Unpaid/Paid)
- Professional Chairs Sponsored by Industries at EEI
- R&D Laboratories sponsored by industries at EEI
- MoU between Industries/R&D Labs/Professional/Trade Bodies
- Scholarships/Fellowships Instituted by Industries for Students of EEI
- Short-Term Assignment/Exchange of Faculty Members in Industries
- Expert/Professionals from Industry as Visiting Professors or Guest Lectures and Delivering Lectures on Industrial Best Practices & Trends

Knowledge Conferences/Events: Organized/Attended

- Workshops, Conferences and Symposia *In House Events:* Faculty Participation in External Events:
- Having Tie-ups with Foreign Universities
- Promote International Internship /Summer Schools Startups: Established
- Startups by Students/Faculty Members

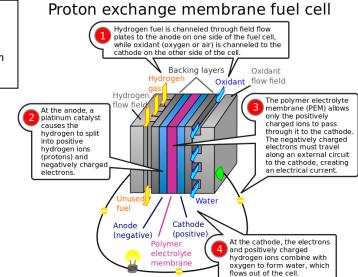
FUEL CELL TECHNOLOGY

A fuel cell is a device that converts chemical potential energy (energy stored in molecular bonds) into electrical energy. A PEM (Proton Exchange Membrane) cell uses hydrogen gas (H2) and oxygen gas (O2) as fuel. The products of the reaction in the cell are water, electricity, and heat.

Heat

Oxygen in

Water out



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FUEL CELL