

3rd DAV NATIONAL CONGRESS



Science, Technology, Engineering, Humanities & Management (STEHEM '16)

Transforming India into a Knowledge Economy

MAY 20-21, 2016

IN ASSOCIATION WITH



IKG Punjab Technical University

TECHNICAL SPONSORS



ORGANISING COMMITTEE

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Dr. Punam Suri
President, DAVCMC New Delhi

CONGRESS CHAIR

Dr. Manoj Kumar
Principal, DAVIET Jalandhar

CONVENER

Dr. Sonia Chawla
Professor

CO-CONVENER

Dr. Kanchan Lata Singh
Dr. Sanjay Goel

TRACK CHAIRS

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Invitation & Call for Papers

Dear Sir/Madam

The Organising Committee of 3rd DAV National Congress on Science, Technology, Engineering, Humanities & Management (STEHEM-2016) feels privileged in announcing and inviting you to attend the National Event at DAV Institute of Engineering and Technology, Jalandhar, Punjab, India, from MAY 20-21, 2016. The theme of the congress is "Transforming India into a Knowledge Economy". STEHEM-2016 will be the most comprehensive Congress focused on providing a multidisciplinary platform where people from varied backgrounds can present and discuss the minute trends in sciences, technology, humanities and management. The congress deliberations are being structured to cover the following tracks:

- Physical Sciences: Advances, Challenges and Sustainable Futuristic Trends
- Modern Trends in Civil Engineering: Smart Cities
- Recent Advances in Computer Engineering and Applications
- Futuristic Computing and Applications
- Advances in Electronics and Communication Engineering
- Innovations in Electric Power and Energy Conversion Systems
- Current Trends in Mechanical Engineering
- Emerging Trends in English Literature of 20th and 21st Century
- Reinventing the Scope of Management

Important Dates

Full length paper submission	:	March 31, 2016
Paper acceptance notification	:	April 20, 2016
Camera-Ready paper submission	:	April 25, 2016
Last date of registration	:	April 30, 2016

The organising committee would like you and faculty of your institute to attend and participate in the congress. The congress brochure is enclosed for your reference. Please ensure wide circulation of the same in your institute/organisation. For more details; please visit www.stehm.davietjal.org.in.

We hope to see your kind presence during STEHEM-2016 and accept our hospitality.

Regards and wishing you and your family a very happy New Year.

(Dr. Sonia Chawla)
CONVENER

(Dr. Manoj Kumar)
CONGRESS CHAIR



DAV INSTITUTE OF ENGG. & TECHNOLOGY

Kabir Nagar, Jalandhar 144008 (Punjab) India

Website : www.davietjal.org

Email : daviet@davietjal.org

Tele : 0181-2207650, 2202343-46 Fax : 0181-2205851-52

CONTACT US: convener_stehm@davietjal.org.in

3rd DAV National Congress

Science, Technology, Engineering, Humanities & Management
May 20-21, 2016

Transforming India into a Knowledge Economy

Thrust Areas of the Congress

- ❖ Digital India
- ❖ Make in India
- ❖ Skill India
- ❖ Smart Cities



Make in India



Digital India



Skill India



Smart Cities

In Association with



PTU

I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY

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Organised by

DAV INSTITUTE OF ENGG. & TECHNOLOGY

Kabir Nagar, Jalandhar 144008 (Punjab)

Tele : 0181-2207650, 2202343-46 Fax : 0181-2205851-52

Website : www.davietjal.org Email : daviet@davietjal.org

DAV Institute of Engineering & Technology Jalandhar got established in 2001 under the aegis of DAV College Managing Committee, New Delhi. The institute is approved by AICTE and affiliated to Punjab Technical University, Jalandhar. This is the first degree level Engineering Institute started by the DAV College Trust and Management Society. It is the largest non-government educational organization in India managing more than 800 institutions in India and abroad. DAVIET is carrying out original research of significance vis-a-vis technology development at the cutting edge. It imparts training to students to make them competent, engineers, managers and scientists. DAVIET is offering courses in the fields of engineering, management and computer applications. The Institute was declared “Best Engineering Institute” by Punjab Technical University, Jalandhar. DAVIET not only celebrates freedom of thought and cultivates vision, but also inculcates human values and concern for the environment and the society.

RELEVANCE OF THE CONGRESS

With the spread of globalization, humanity has benefitted from the advances in science and technology. The question that remains pertinent is whether science and technology has the potential to uplift the humanity and reduce the social and economic divides or not. If the recent trends are an indication, then the answer is an emphatic yes. Modern day life has become so complex that a monolithic approach towards issues concerning our society won't suffice. We need to have an open mind and realize that a multi disciplinary approach, combining knowledge from diverse fields can provide answers to all our problems. The present congress aims to provide a multidisciplinary platform where people from varied backgrounds can present and discuss the minute trends in science, technology, humanities & management.

OBJECTIVES OF THE CONGRESS

The present congress aims at fulfilling the following objectives:

- ◆ To impart the knowledge, findings and ideas of latest research among academicians, scientists, engineers, researchers and industry experts from all around the nation.
- ◆ To encourage individuals and organizations to take up quality research so that an all exclusive and sustainable growth of communities can take place.
- ◆ To explore various thrust areas in the field of humanities and management & bridge the gap between theory & practice.

CALL FOR PAPERS

Prospective authors are invited to submit papers which are relevant to the themes of the conferences. Authors should submit a draft paper by March 31, 2016, indicating the conference and theme under which the paper is to be considered. On-line submission through congress website is strongly encouraged. The papers are to be submitted in IEEE format. Detailed submission guidelines can be accessed through congress website. The web link of DAV Congress is www.stehm.davietjal.org.in.

Physical Sciences: Advances, Challenges and Sustainable Futuristic Trends

Track Email Id: as@davietjal.org.in

Modern Trends in Civil Engineering: Smart Cities

Track Email Id: ce@davietjal.org.in

Recent Advances in Computer Engineering and Applications

Track Email Id: cse@davietjal.org.in

Futuristic Computing and Applications

Track Email Id: it@davietjal.org.in

Advances in Electronics and Communication Engineering

Track Email Id: ece@davietjal.org.in

Innovations in Electric Power and Energy Conversion Systems

Track Email Id: ee@davietjal.org.in

Current Trends in Mechanical Engineering

Track Email Id: me@davietjal.org.in

Emerging Trends in English Literature of 20th and 21st Century

Track Email Id: eng@davietjal.org.in

Reinventing the Scope of Management

Track Email Id: mba@davietjal.org.in

SUB-THEMES OF THE CONGRESS

PHYSICAL SCIENCES: ADVANCES, CHALLENGES AND SUSTAINABLE FUTURISTIC TRENDS

Heterocyclic Chemistry, Bio-organic/inorganic Chemistry, Medicinal Chemistry, Co-ordination Chemistry, Green Chemistry, Environmental Chemistry, Polymer Chemistry, Supra molecular Chemistry, Computational Chemistry, Synthetic Chemistry, Natural Products, Spectroscopy, Nano-sciences and Technology, Recent advances in Pure & Applied Physics, Environmental Science-Innovate or die, Condensed matter Physics, Quantum Mechanics, High Energy Physics, Nonlinear Dynamics, Advances & Applications of Mathematical Sciences, Modeling, Simulation & Control, Optimization Techniques

MODERN TRENDS IN CIVIL ENGINEERING: SMART CITIES

Building Energy Conservation & Green Architecture, Bridge and Tunnel Engineering, High-rise & Large-span Structure, Municipal Engineering, Water Resource Engineering, Transportation Engineering, Geotechnical Engineering, Sanitation, Solid Waste Management Affordable Housing, Intelligent Traffic management, Earthquake Resistant Designs, Smart Construction Materials

RECENT ADVANCES IN COMPUTER ENGINEERING AND APPLICATIONS

Wireless Communication Systems and Networks, Expert System and Artificial Intelligence, Mobile Adhoc Networks, Wireless Sensor Networks, Concurrent, Distributed and Parallel Computing, System Modeling & Simulation, Data Mining and Database System, Image Processing & Pattern Recognition, Cloud Computing, Network Security and Cryptography, Bioinformatics, Grid, Cluster and Internet Computing, Software Reusability and Architecture, Distributed Applications

FUTURISTIC COMPUTING AND APPLICATIONS

Swarm Intelligence, Optimization Techniques, Artificial Neural Networks, Hybrid Intelligent Systems, Nature Inspired Computing Techniques, Genetic Algorithms, Hybrid and Distributed Algorithms, Fuzzy Logic, Fuzzy Sets, Rough Sets, Multi-Agent Systems, Natural Language Processing, Multi-linguality in the Semantic Web, Cyber-Physical Social Systems, Data Streams and the Internet of Things, Big Data Visualization, Modeling & Analytics, Multimedia/Stream/Text/visual Analytics, Cloud Computing and Service Data Analysis, Mobile Computing

ADVANCES IN ELECTRONICS AND COMMUNICATION ENGINEERING

Wireless and Mobile Communication, Optical Communication Systems and Networks, Antenna and Electromagnetic, VLSI Design, Signal/ Image/Video-Processing, Robotics and Embedded Systems, Nano Devices and Materials, E-Waste Management, Mechatronics, Bioinformatics, Control Systems.

INNOVATIONS IN ELECTRIC POWER AND ENERGY CONVERSION SYSTEMS

Green Energy for Sustainable Development, Energy Audit and Management, Soft-Computing Applications in Power System, Smart Grids Micro Grids Technologies, Power Quality Problems and Related Issues, Power Electronics, Drives and Traction System, Transmission & Distribution Systems, HVDC and FACTS Devices, Power System Planning, Scheduling and Reliability, Intelligent Controllers, Power System Protection, Operation and Control, Nuclear Energy Science and Power Generation Technologies, Electric Vehicles

CURRENT TRENDS IN MECHANICAL ENGINEERING

Advanced Materials, Automation, Mechatronics and Robotics, Automotive Engineering, Computer-based Manufacturing Technologies, Cryogenics and Thermal Control Technologies, Internal Combustion Engines, Lean Manufacturing, Manufacturing Processes, Metallurgy and Heat Treatment, Micro Machining, Non Conventional Manufacturing Processes, Optimization Techniques, Rapid Prototyping, Refrigeration and Air-conditioning, Reliability and Maintenance Engineering, Surface Engineering, System Dynamics and Control, Systems Modeling and Simulation, Thermal Spray Coatings

EMERGING TRENDS IN ENGLISH LITERATURE OF 20TH AND 21ST CENTURY

Post Modern Literature, Autobiographical Literature, Subaltern and Postcolonial Trends in Literature, South Asian Fiction: Representation and Reflections, Dalit Writings, Discourse Analysis, Philosophy and Literature.

REINVENTING THE SCOPE OF MANAGEMENT

Governance and Corporate Performance, Guerrilla/Buzz/Experiential Marketing, Marketing in the Digital Age, Indian Capital Market Reforms, Product Innovation in Banking, Volatility in Indian Stock Market, Societal Entrepreneurship, Green Marketing, Service and Relationship Marketing, Tourism Marketing, Lean Management, Foreign Direct Investment, Mergers and Acquisition, Corporate Social Responsibility, Total Quality Management

Travel, boarding and lodging expenses will have to be borne by the delegates or their sponsoring organizations. Please note that the accommodation is not included in the Congress fee and the delegates are responsible for their own accommodation. However, limited accommodation for congress duration could be arranged in the institute hostels on payment of Rs. 500/- through demand draft. For accommodation please contact: **Mr. Satish Bhanot (Mobile : 8699148176)**

WHO SHOULD PARTICIPATE

- » Academicians
- » Researchers, Scientists and Students
- » Research Funding and Professional Bodies
- » Local and Regional Authorities
- » Trade and Manufacturing Associations
- » Consultants, Design Engineers and Architects
- » Entrepreneurs and Contracting Engineers

HOW TO REACH US?

The city of Jalandhar is situated on National Highway No 1. It is 380 km away from New Delhi and is easily accessible by train. The Shatabdi Express trains plying between New Delhi and Amritsar (via Jalandhar City) are the best mode of travel to and from Jalandhar. The nearest international airport is at Amritsar about 80 km from Jalandhar.

REGISTRATION FEE DETAILS

Author(s)/Delegate(s) : Rs.1500
Research Scholar(s) : Rs.1000

An individual can author/co-author up to two research papers. The fee can be paid by the way of Bank Draft payable at Jalandhar, in favour of Principal, DAVIET, Jalandhar. Fees can also be transferred online in favour of DAV Institute of Engineering and Technology vide Account number 4699000100007826 and IFSC code PUNB0469900.

The congress proceeding will be published with a valid ISBN number. The research papers will not be considered for publication in the proceedings without depositing the registration fee. Late registration will be considered for poster submission with an enhanced fee of Rs. 500/.

IMPORTANT DATES

Full length paper submission: **March 31, 2016**
Paper acceptance notification along with reviewer's comments: **April 20, 2016**
Camera-Ready paper submission: **April 25, 2016**
Last date of registration is April 30, 2016
Note: Please submit the papers at the respective track email IDs

PATRON

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CO-CONVENERS

Dr. Kanchan. L. Singh
Associate Professor, Applied Sciences
Dr. Sanjay Goel
Assistant Professor, Civil Engineering

TRACK CHAIRS

Dr. Sonia Chawla, Professor, Business Management
Reinventing the Scope of Management

Dr. Sudhir Sharma, Associate Professor, Electrical Engineering
Innovations in Electric Power and Energy Conversion Systems

Dr. Neeru Malhotra, Associate Professor, Electronic Engineering
Advances in Electronics and Communication Engineering

Dr. Sanjeev Naval, Associate Professor, Civil Engineering
Modern Trends in Civil Engineering: Smart Cities

Dr. Dinesh Kumar, Associate Professor, Information Technology
Futuristic Computing and Applications

Mr. Gaurav Dhuria, Associate Professor, Mechanical Engineering
Current Trends in Mechanical Engineering

Dr. Kanchan Lata Singh, Associate Professor, Applied Sciences
Physical Sciences: Advances, Challenges and Sustainable Futuristic Trends

Ms. Harpeet Kaur Bajaj, Assistant Professor, Computer Science & Engineering
Recent Advances in Computer Engineering and Applications

Mr. Narinder Sharma, Assistant Professor, Applied Sciences
Emerging Trends in English Literature of 20th and 21st Century

CONTACT US

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Email : convener_stehm@davietjal.org.in

- ▶ Prof. Dharma P. Agarwal, University of Cincinnati, USA
- ▶ Dr. Bharat Bhargava, Professor, Purdue University, USA
- ▶ Dr. M. Yasin Akhtar Raja, Professor, University of North Carolina, Charlotte, USA
- ▶ Mr. Vinamra Goyal, Engg Mgr, Intel Corporation, USA
- ▶ Dr. Chander Shekher, Professor, IIT, New Delhi
- ▶ Dr. Jayanta Mukhopadhyay, Professor Department of CSE, IIT Kharagpur
- ▶ Dr. K.K. Raina, Vice Chancellor, DIT University, Dehradun
- ▶ Prof (Dr.) Shakti Kumar, Vice Chancellor, Baddi University of Emerging Sci. & Technology, HP
- ▶ Dr. S.K. Dass, Director, IIT Ropar
- ▶ Dr. I.K. Bhatt, Director, MNIT, Jaipur
- ▶ Dr. R.K. Sinha, Director CSIO
- ▶ Dr. A.K. Paul, Vice-Chancellor, DAV University, Jalandhar
- ▶ Dr. R.S. Kaler, Deputy Director, Thapar University, Patiala
- ▶ Mr. H.R. Gandhar, Advisor to President, DAVCMC, New Delhi
- ▶ Dr. D.P. Goel, Professor, MDI, Gurgaon
- ▶ Dr. Harpreet Singh, Associate Dean, IIT, Ropar
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- ▶ Dr. Sunita Ghakhar, Professor, Deptt. of Mathematics, Indian Institute of Technology, Roorkee
- ▶ Dr. R.C. Mittal, Professor, Department of Mathematics, Indian Institute of Technology, Roorkee
- ▶ Dr. Gurupadesh Singh, Formerly Professor & Head, Department of English, GNDU, Amritsar
- ▶ Dr. Binod Mishra, Indian Institute of Technology, Roorkee
- ▶ Dr. B.R. Mehta, Professor, Department of Physics, Indian Institute of Technology, Delhi
- ▶ Dr. S.S. Sekhon, Professor, The University of the West Indies, St Augustine, Trinidad and Tobago
- ▶ Mr. Lokesh Mehra, Director Education Advocacy, Microsoft Corporation (I) Pvt. Ltd., New Delhi
- ▶ Dr. Bhupinder Singh, Principal Software Engineer, Progress Software Corporation, Hyderabad
- ▶ Dr. Shankar Sriram V. S., SAP, Sastra University, Tamilnadu
- ▶ Mr. Amandeep Singh Bhachoo, Director - DW/BI, Big Data Analytics, Amdocs India
- ▶ Dr. B.B. Sharma, Principal, DAV College, Jalandhar
- ▶ Dr. Rekha Kalita Bharadwaj, Principal, HMV, Jalandhar
- ▶ Dr. Rajesh Kumar, DAV College, Amritsar
- ▶ Dr. Nisha Bhargava, Principal, MCM-DAV College, Chandigarh
- ▶ Dr. B.C. Josan, Principal, DAV College, Chandigarh

3rd DAV National Congress

SCIENCE, TECHNOLOGY, ENGINEERING, HUMANITIES & MANAGEMENT (STEHM'16)

MAY 20-21, 2016

REGISTRATION FORM

[Download from www.stehm.davietjal.org.in]

Name: _____

Designation: _____

Organisation: _____

Address: _____

Ph No.: _____ Fax No.: _____ E-mail: _____

Accommodation Required: Yes No

I would like to participate in the Congress as Author/Delegate/Sponsor/Co-sponsor (Please tick the concerned conference)

- Physical Sciences: Advances, Challenges and Sustainable Futuristic Trends
- Modern Trends in Civil Engineering: Smart Cities
- Recent Advances in Computer Engineering and Applications
- Futuristic Computing and Applications
- Advances in Electronics and Communication Engineering
- Innovations in Electric Power and Energy Conversion Systems
- Current Trends in Mechanical Engineering
- Emerging Trends in English Literature of 20th and 21st Century
- Reinventing the Scope of Management

Applicable registration Fees of Rs. is submitted through DD/UTR No. dated

Date: _____ Signature _____

RECOMMENDATION OF THE SPONSORING AUTHORITY

The application of Dr./Mr./Mrs./Ms working as is sponsored to attend STEHM'16.

Date: _____ Signature of the Head of the
Place: _____ Institute/Organisation with seal

[Please send the registration form at the respective track email IDs]

Congress Chair:

Dr. Manoj Kumar, Principal
Email: principal@davietjal.org

Convener:

Dr. Sonia Chawla
Email: convener_stehm@davietjal.org.in

Co-conveners:

Dr. Kanchan Lata Singh
Dr. Sanjay Goel