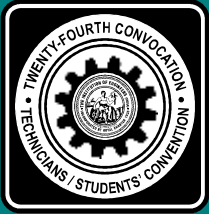


Information & Call for Papers



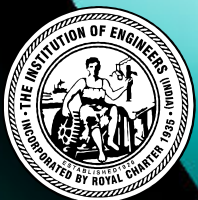
TWENTY-FOURTH

IEI Convocation and Technicians' / Students' Convention

Pune, October 22-23, 2016

All-India Technicians' / Students' Seminar and Technical Session

Appropriate Technology for Socio-economic Development



The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700 020

Hosted by : Pune Local Centre



TWENTY-FOURTH IEI CONVOCATION AND TECHNICIANS'/STUDENTS' CONVENTION

PUNE, OCTOBER 22-23, 2016



PREAMBLE

The Institution of Engineers (India) [IEI] organised its First Convocation and Technicians'/Students' Convention in 1993 to award certificates to those who passed Sections A and B Examinations of the Institution in 1992 and has been continuing to organise the same for the last 23 years. To make this occasion even more purposeful, multiple events are planned, including a seminar on a contemporary topic, multiple technical sessions and awards to students' design competition and a general session. On this momentous occasion, three top ranking chapters will be honoured in both Technicians' and Students' Chapters category (both Engineering College/Polytechnic Students' Chapter), based on their technical activities over the year. Participation in such an event is an honour to participants and would help to build a sense of belongingness and provide a platform for building fellowship and create opportunities for networking and interaction with peers and senior members of the Institution. The ensuing Twenty-fourth IEI Convocation and the Technicians'/Students' Convention will be held at Pune during 22-23 October 2016 under the aegis of the Pune Local Centre of IEI.

ABOUT PUNE CITY

Pune is the seventh largest metropolis in India and the second-largest in the State of Maharashtra. It is also the administrative headquarters of Pune district and was once the centre of power of the Maratha Empire. The modern city of Pune was in fact once a small hamlet situated near the confluence of Mula and Mutha rivers. The patronage of the Peshwas helped the city flourish and there came into being several temples and large residential 'wadras', some of which continue to exist even today and are considered the pride of the city. Pune contributed a lot in the freedom struggle as well as in the social reform movements in the country with numerous freedom fighters, thinkers, social reformers living in the city. Pune has deep spiritual and religious connections, notably because saint-poets like Sant Dnyaneshwar and Sant Tukaram Maharaj were born near Pune. Pune has the honour of being home to some of the premier institutes of the country such as National Defence Academy, which is a centre for excellence and the joint training institution for the armed forces, Film and Television Institute of India, National Film Archives, National Chemical Laboratory, College of Military Engineering. Pune is also known for its expertise in engineering and, in particular, automotive manufacturing as it is the base to some of the biggest OEMs such as Mercedes Benz, TATA Motors, Volkswagen, General Motors, Bajaj Auto, Force Motors. At the same time, this is the city where the reputed IT companies have established their offices while the best of educational institutions under Pune University attract students from across the world.

MAJOR TOURIST ATTRACTION

Mahabaleshwar



Located about 120 km south-west of Pune, Mahabaleshwar is a vast plateau bounded by valleys on all sides. It reaches a height of 1439 m at its highest peak above sea level.

The hill station is the source of the Krishna river that flows across Maharashtra, Karnataka and Andhra Pradesh.

Panchgani

It is one of the most popular hill stations in Maharashtra, located 100 km south-west of Pune. The five hills surrounding Panchgani are topped by a volcanic plateau, known as 'table land', which is the second highest plateau in Asia after the Tibetan Plateau.



Lonavla - Khandala

Twin hill stations of Lonavla and Khandala are known for their salubrious climate and the beautiful green cover they flourish during the monsoon. Lonavla is about 64 km away from Pune.



Bhimashankar

Nestled in dense forests, the Shiva temple of Bhimashankar is the sixth *jiyotirlinga* and one of the most popular places for the worship of Lord Shiva. It is 127 km from Pune.



Saibaba Shirdi Temple

Shirdi is where the holy soul of Shri Satchidanand Sadguru Sainath Maharaj affectionately known as 'Saibaba' rests today. The mysterious 'fakir' (wanderer) lived in Shirdi for more than 60 years. The distance between Pune and Shirdi is 186 km.



Trimbakeshwar

Trimbakeshwar is among the 12 '*jiyotirlingas*' dedicated to Lord Shiva. Located in Nashik district where the river Godavari originates at the adjacent hill of Brahmagiri. The distance between Pune and Trimbakeshwar is 159 km.



Ajanta and Ellora Caves

Ajanta caves are cluster of 32 Buddhist caves. The site is a protected monument under Archaeological Survey of India and declared as UNESCO World Heritage Site. Ellora caves, 34 in number, are actually Buddhist, Hindu and Jain religious monuments, carved in the rock between the 6th and 10th century. The distance between Pune and Ajanta-Ellora is almost 340 km.



Ashtavinayak Yatra

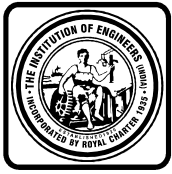
There are eight temples dedicated to Ganesha (Vinayak), related to various episodes from the *puranas* and other legends and these deities are collectively known as Ashtavinayak. These temples are within the range of 20 km to 110 km of each other from Pune.



CONVOCAATION HIGHLIGHTS

The IEI Convocation and Technicians'/Students' Convention comprises a multi-capsule technical activity including the following major events:

- Annual Convocation
- All India Technicians'/Students' Seminar
- Technical Session for Technicians' and Students' Members
- General Session for HQs-Students' Interaction
- Cultural Programme
- Convocation Dinner



The Institution of Engineers (India)

Twenty-fourth IEI Convocation and
Technicians'/Students' Convention
Pune, October 22-23, 2016



Please complete the Registration Form given below in block letters and return the same, along with remittance, to The Organising Secretary (Convocation 2016), Twenty-fourth IEI Convocation, Pune Local Centre, The Institution of Engineers (India), 1332, Shivaji Nagar, J M Road, Pune 411 005 latest by September 26, 2016.

FOR OFFICE USE ONLY

Serial No. :
Registration No. :
Acknowledgement No. :

REGISTRATION FORM

Name..... Membership Grade: No:

Accompanying Person(s): Spouse: Yes/No Number of Guest (s):

Mailing Address:
.....

E-mail id: Mobile No.:

Arrival Details: /10/2016
Date Flight/Train No. Arriving from Time

Departure Details: /10/2016
Date Flight/Train No. Departure to Time

REGISTRATION FEE FOR EACH PARTICIPANT	Up to 30.09.2016	On or after 01.10.2016
Technician /Senior Technician/ Student of Engineering College/Polytechnic	₹ 600/-	₹ 800/-
Candidates passed Sections A & B Examinations	₹ 1000/-	₹ 1200/-
Students' Chapter Member of Engineering College/Polytechnic	₹ 500/-	₹ 700/-
Corporate Member of IEI	₹ 1000/-	₹ 1200/-
Spouse/Guest	₹ 500/-	₹ 700/-
Sponsored (irrespective of all above grades) Delegates	₹ 1500/-	₹ 1700/-

Total Remittance

Note :

All remittances should be made by Bank Draft payable to 'The Institution of Engineers (India), Pune Local Centre' payable at Pune (for registration in advance) or by cash (for spot registration).

Enclo : Bank draft no dated drawn on.....

of ₹

Date :

Signature of Delegate

CONVOCAATION ESSENTIALS

◆ Recipients of the combined certificates of passing Sections A & B Examinations of IEI (Summer 2015 and Winter 2015) should wear the Convocation Robes during the Convocation period.

◆ The Robes will be available at the HQs Registration Counter on payment of maintenance charge of ₹100/-, together with a refundable security deposit of ₹500/- (in cash). The security deposit will be refunded to respective candidates after the culmination of the programme while returning back the Robes.

◆ Names of participants, who will be allotted and issued the Token Serial Numbers by the HQs Registration Counter before 12 noon on 23 October 2016, will only be called at the Dais for receiving their certificates.

◆ Recipients of combined certificates are requested to bring the Identity Card issued by IEI and also the original **Section B Grade Card-cum-Provisional Certificate**. The original combined pass certificate will not be issued without the production/verification of these documents at the counter under any circumstance.

REGISTRATION FEE

	Up to 30.09.16	On or after 01.10.16
Technician/Senior Technician/ Student of Engineering College/Polytechnic	₹600	₹800
Candidates passed Sections A & B Examinations	₹1000	₹1200
Students Chapters' Member of Engineering College/ Polytechnic	₹500	₹700
Corporate Member of IEI	₹1000	₹1200
Spouse/Guest	₹500	₹700
Sponsored (irrespective of all above grades) Delegates	₹1500	₹1700

The amount towards Registration Fee along with other charges, if any, should be sent by demand draft drawn in favour of 'The Institution of Engineers (India), Pune Local Centre, payable at Pune'.

TENTATIVE PROGRAMME

October 22, 2016 (Saturday)	IEI, Pune Local Centre, 1332 Shivaji Nagar, J M Road, Pune Pin: 411 005, Maharashtra
1000 h - 1800 h 1000 h - 1300 h	Registration Seminar on Appropriate Technology for Socio-economic Development
1300 h - 1400 h 1400 h - 1630 h 1630 h - 1700 h 1700 h - 1800 h	Lunch Technical Session Tea General Session-Interactive Session with HQ
October 23, 2016 (Sunday)	Main Auditorium, College of Engineering, Pune
0930 h - 1030 h 1000 h - 1200 h 1100 h - 1200 h 1300 h - 1400 h 1400 h - 1630 h 1630 h - 1800 h	Meeting of AITC Registration Meeting of AISC Lunch Convocation Award of Certificates and Distribution of Prizes
1900 h - 2000 h 2000 h	Cultural Programme Convocation Dinner

ACCOMMODATION

Technician/Senior Technician/Student Members of both Engineering Colleges and Polytechnics may stay at any one of the following hotels (around one km from venue) in Pune during the Convocation and Convention period. Please contact directly for the hotel accommodation.

Name of Hotel	Tariff/Day, ₹ (excluding tax)	Contact Details
Raj Lodge J M Road, Shivaji Nagar	500 - 650	020-2553 4848
Dwarka Hotel Shivaji Nagar	700	020-2553 4132
Maurya Residency F C Road	850 - 1350	020-2553 5085/ 5086/5073
Hotel Sanman Opp Sambhaji Park	900 - 1400	020-2553 2115/ 2369
Hotel Ashok Deluxe Opp Sambhaji Park Bus Stop	1050 - 1400	020-2553 1714/ 9029,41302232 hotelashokdeluxepune @yahoo.in
Hotel Nandanvan Annexe Apte Road	1300 - 1850	020-2553 1111/ 1212/1313
Hotel Residence Opp Sambhaji Park Shivaji Nagar	1400 - 2200	020-2553 1693/6673 residencekismet@yahoo.co.in
Regent Hotels Shivaji Nagar	1500 - 1600	020-2551 1149/50 regenthotels@vsnl.net
Hotel Sheetal F C Road	1580 - 2260	020-2553 5165/ 5267/5168
Hotel Royal Palace Near Modern School Shivaji Nagar	1600 - 1900	020-2553 5100/ 152/153
Hotel Sai Palace Shirole Road	1600 - 2100	020-25513477/3677 sai_hotels@hotmail.com
Hotel Chetak Model Colony	1600 - 2000	020-25652681/4078 9822855244 hotelchetak@gmail.com
Hotel Om Sai Palace Off Apte Road	1700 - 2300	9225630888/ 9503030111 omsaipalace@gmail.com
Hotel Bhooshan Revenue Colony Shivaji Nagar	1800 - 2200	09371227788 020-25535298/99
Hotel Shreyas Apte Road, Deccan	2300 - 3100	020-2553 1963 9850903953 info@hotelshreyas.in
Hotel Span Revenue Colony Shivaji Nagar	2500 - 3900	09881761119 020-/2553 5999 93/94/95 hotelspan5@gmail.com
Hotel Lakme Executive Shivaji Nagar	2500 - 3000	020-2551 1863/4/5 lakmeexecutivehotel@ rediffmail.com
Hotel Ambassador Model Colony	2800 - 3400	020-2566 0622/ 23/24/25 sales@hotelambassador.co.in
Hotel Moneta Apte Road	2800 to 3000	020-2553 8351, 9156642652 info@themoneta.com
JM Four Hotel Opp Balgandharve Police Station	2999 to 3999	020-4141 4444/ 2551 1070 reservation@jmfourhotel.com

CONTACT ADDRESS

Intending participants are requested to register themselves latest by 30 Sep 2016 with the remittance of the requisite registration fee to the address given below:

The Organising Secretary (Convocation 2016)
The Institution of Engineers (India)

Pune Local Centre
1332, Shivaji Nagar, J M Road
Pune 411 005, Maharashtra

Phone: (020) 2553 3376; Tele-fax: (020) 2553 0150

For registration & any other information

E-mail: ieiconvocationpune@gmail.com

Website: www.ieipune.org

ALL INDIA TECHNICIANS'/STUDENTS' SEMINAR

Besides Convocation, the multi-capsule technical programme includes All India Technicians'/Students' Seminar where Technicians/Senior Technicians and Student Members of the Institution representing Engineering Colleges and Polytechnics will get the opportunity to present the technical papers. This feature of presentation of papers has become a tradition since long which provides a platform for budding engineers to discuss around a central theme. The central theme for the Seminar is as follows :

APPROPRIATE TECHNOLOGY FOR SOCIO-ECONOMIC DEVELOPMENT

Persistent socio-economic problems in Third World countries, despite decades of massive infusion of advanced technology from the industrial world, continue to elicit questions regarding the appropriateness of this technology in the Third World. The concentration of wealth in the hands of ruling class, bureaucrats, and the elite - the hallmark of a growth-based development strategy - makes life a continuous struggle for common people. Problems of poverty, unemployment, inequality, and fulfilment of basic needs are common facts of life today in many Third World countries. Worsening socio-economic conditions in the Third World have underscored the urgency of implementing a development path that de-emphasizes growth and technological monoculture. Appropriate technology, as a development approach, is intended to address such socio-economic problems, especially in rural and informal sectors.

Appropriate technology is an approach to development that not only emphasizes job creation and optimum use of existing skills and resources, it also builds on the skills and resources to raise the productive capacity of a community. In terms of available resources, appropriate technologies are intensive in the use of abundant factors like labour and domestically produced units, economical in the use of scarce factors like capital and highly skilled manpower. These technologies are small-scaled but efficient, replicable in numerous units, readily operated, maintained and repaired, cost-effective and accessible to low income group persons. It seeks to be compatible with local, cultural and social environments.

Housing is one of the prime necessities of human life along with food and clothing. The provision of suitable and adequate shelter to live under is of vital importance to one's life. With the growth of population and urbanization, the problem of providing shelter to the poor is bound to aggravate further in future. Therefore, there is a need to find and adopt appropriate technologies to reduce the construction cost.

Food is another important requirement of human life. Food security which essentially means food production, its affordability, accessibility and nutrition, is a critical concern worldwide especially against a backdrop of rapid population growth. This cannot be achieved without improving agricultural productivity and sustainability in the small scale sector. To achieve this, farmers need to be empowered with appropriate technology like developing suitable water conservation techniques and planting methods for farming in drought-prone areas, developing cereals varieties genetically modified to survive and prosper in drought conditions and devising suitable irrigation technologies to be adopted in such situations.

Modern energy services are crucial to human well being and to a country's socio-economic development. The lack of access to energy services in rural communities in developing countries restricts educational opportunities, leads to negative public health and environmental impacts and inhibits growth. In order to provide energy security at national, regional and global levels, there is a need for energy services in off grid villages and rural communities in developing countries by finding and adopting appropriate energy technologies like distributed energy production using renewable energy sources, etc.

Water supply and sanitation are the key infrastructure issues having a marked effect on the quality of life. The supply of safe water to all is a basic need to improve health, quality of life and development of peoples in a region. Development of reliable, cost effective appropriate fresh water supply system is a need of hour. Similarly, to improve the quality of sanitation services of billions of people, an affordable, effective, hygienic sanitation technology is also needed.

With this in focus, papers are invited from Technician/ Senior Technician members, students of polytechnics and engineering colleges for presentation in the All India Technicians'/Students' Convention to be held on 22 Oct 2016 at Pune. The papers shall be on innovative ideas, design, prototype and technology development, case studies, survey details augmenting innovations, etc. pertaining to the theme.

Sub-themes

Technical papers are invited on following sub-themes based on applications of Appropriate Technology in various aspects of human life :

- ® Building and Construction – Low Cost Housing, Construction Material, Techniques, etc.
- ® Energy Services – Distributed Generation using renewable sources like Solar, Wind, Biomass, Mini Hydel-based Energy Sources etc
- ® Water Supply – Low Cost Water Treatment Techniques
- ® Sanitation Services
- ® Irrigation
- ® Food Production, Preparation and Preservation
- ® Transportation – Zero Emission Vehicles
- ® Information and Communication
- ® Environmental Conservation and Protection
- ® Human Comfort

ALL INDIA TECHNICIANS'/STUDENTS' TECHNICAL SESSION

In addition to the All India Technicians'/Students' Seminar, there will be another session for Technicians/Senior Technicians/Student members (both engineering college and polytechnic categories), where technical papers on topics of choice of members will be presented and discussed. As in case of the All India Technicians'/Students' Seminar, the papers submitted for the Technical Session shall also be vetted and authors of selected papers will be asked for presentation of their papers for consideration of prize. There are nine prizes in three categories, namely, First Prize (three of ₹2000/- each); Second Prize (three of ₹1500/- each) and Third Prize (three of ₹1000/- each). For both the Seminar and the Technical Session, the papers shall be adjudged for award of prizes in three groups, namely (i) Technician/ Senior Technician members of IEI; (ii) Members of Engineering College Students' Chapters of IEI, and (iii) Members of Polytechnic Students' Chapters of IEI.

GUIDELINES FOR SUBMISSION OF TECHNICAL PAPERS

Please send your paper to : ieiconvocationpune@gmail.com

The Organising Committee invites technical papers from the Technician/Senior Technician/Student Members of IEI for consideration of presentation of those short-listed papers duly vetted through a committee of experts and thereafter adjudge these papers for merit of award. The technical paper should be written in accordance with a set of guidelines. Salient points of the guidelines are given below:

- Last date for receiving papers at Pune Local Centre of IEI is 25 Sep 2016. Technical papers received after this date will not be considered for possible presentation.
- Three (3) copies of neatly typed manuscripts should be submitted.
- Text should be typed in double space on one side in A-4 size sheets and the contents should not exceed 1500 words including tables. The text must be in MS word and copied in a new CD to be sent along with three copies of the paper (please use 10 point Verdana typeface with both side justified format with 2.54 cm margin on all sides (A4 size), avoiding bold letters throughout the text.
- Figure(s), if any, should be featured at the appropriate place(s) in the text. In case of photographs, two (02) copies of only glossy black and white photographs for each depiction should be submitted. Colour photographs/diagrams are neither acceptable nor printed in the text.
- An abstract (within 100 words) of the paper and selected references, including name (s) of the author (s), title of the paper, name of the journal, volume no., and year of publication should be given at the end of the paper.
- Figures should be drawn neatly for better reproduction.
- Mathematical expressions should be typed/handwritten carefully indicating subscripts and superscripts, if any.
- Metric system of units (SI units) should only be used in the text and figures.
- **Technical papers should not be copied from any sources/downloaded from Internet. Prospective contributors are required to prepare papers on innovative ideas in any field of engineering.**
- Authors of selected papers will get the opportunity to present the paper with the help of power point presentation. Therefore selected authors are expected to bring pendrive with them. In case of joint authors, only one author will be permitted to present the paper.
- More weightage will be given on the material content of the technical paper. Due weightage will also be given on (i) delivery (mode of presentation); (ii) logical sequence leading to objective, and (iii) originality of idea or critical thinking.
- Generally 10 min will be given to an author for presentation of his/her technical paper.
- The prize winning papers at the Seminar/Technical Session may subsequently be edited and published in one of the forthcoming issues of Technicians' Journal and Students' Newsletter.
- Any query related to the technical paper submitted for presentation will not be entertained. The authors of selected technical papers will only be informed directly by the Pune Local Centre of IEI, inviting them to present their papers in Seminar/ Technical Session. The authors, whose papers will not be selected, will also be informed accordingly. Complete mailing address mentioning grade/membership number (ST/T/SE/SP) of the author(s) with e-mail id and mobile number will help to communicate faster.
- **Authors, attending the Seminar /Technical Session, have to make their own arrangement for accommodation.**
- Second class to and fro rail fare between the recorded address and Pune will be reimbursed (via the shortest route) to authors of selected papers by HQs of the Institution on submission of original copy of the railway tickets (both ways) (only one author per paper).

GENERAL INFORMATION

- ◆ On arrival at Pune, you are requested to report at the HQs Registration Counter at Pune Local Centre on 22 Oct 2016 (from 1000 h to 1800 h) or latest by 1200 h on 23 Oct 2016 at the same venue for issuance of Token Slip and the Convocation Robe.
- ◆ Original certificates of passing Sections A&B Examinations shall be sent by registered post/speed post to those candidates, who will not be able to attend the Convocation.

For further information, please contact

The Director (EEA)
The Institution of Engineers (India)
8 Gokhale Road, Kolkata 700 020
Phone : (033) 2223 9240/4010 6228
4010 6273; Fax: (033) 2223 8345
E-mail: chapters@ieindia.org

The Organising Secretary (Convocation 2016)
The Institution of Engineers (India)
Pune Local Centre, 1332, Shivaji Nagar
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