

**J.J. COLLEGE OF ENGINEERING AND TECHNOLOGY, TIRUCHIRAPPALLI**  
**(Now Under the Management of Sowdambikaa Group of institutions)**

J.J. Educational, Health & Charitable Trust has been established in the year 1994 with a vision to create, educational facilities in general and technical institutions in particular, to the socially educationally and economically under privileged youth from rural areas in and around Tiruchirappalli. A new chapter has been added to the history of Tiruchirappalli with the establishment of J.J. College of Engineering and Technology (JJCET) in the academic year 1994-95. The college is situated in Ammapettai village, 18 km from Tiruchirappalli abutting the National Highway (NH45) leading to Dindigul, in a sprawling area of more than 100 acres, approved by the All India Council for Technical Education (AICTE) and affiliated to Anna University, Chennai. Over the years, the college has grown by leaps and bounds in every aspect. This college has become one of the pioneering technical institutions in this part of the country in a very short span offering 8 (Eight) Under- Graduate courses and 6 (Six) Post-Graduate courses in Engineering and Technology and MBA. **Now Sowdambikaa Group of Institutions has been administered from the academic year 2019-2020.**

**OBJECTIVE OF THE WORKSHOP**

The objective of the Workshop is to equip the participants with a technical know-how on the scientific and research-oriented knowledge on aerospace Technology and its applications. This program will help the participants to gain knowledge on the field of Aerospace, Space programs, space missions by India and Spacecrafts' Aerodynamics, Propulsion and Airframeconstruction Techniques. This program will also provide the participants with recent Space technology being developed in India.

**Theme: "Emerging Technologies in Aerospace Engineering"**

The Aerospace Technology deals with the designing and building of vehicles that could fly in both inner and outer atmosphere. To perform such flights, the vehicle must be satisfies the sciences of flight on both conditions. The other side of aerospace engineering is rocketry and spacecraft. Aerospace engineers design aircraft, spacecraft, satellites and missiles. Aerospace activity is very diverse, with a multitude of commercial, industrial and military applications. Aerospace engineering requires in-depth skills and understanding in physics, mathematics, aerodynamics and materials science. These professionals must be familiar with advanced materials such as metal alloys, ceramics, polymers and composites.

India ranks 4th among all the nations in the space programme missions. ISRO has done 101 Spacecraft missions including 72 launch missions, 9 student satellites, 2 re-entry missions and 269 satellites from 32 countries. It is also one among very few space agencies to complete the Lunar (Chandrayan) and Mars (Mangalyan) missions.

**ABOUT THE INSTITUTION OF ENGINEERS (INDIA)**

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform from which to share professional interest. IEI has membership strength of over 0.8 million. Established in 1920, with its headquarters at 8 Gokhale Road, Kolkata - 700020, IEI has served the engineering fraternity for over nine decades. In this period of time it has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from 124 Centres located across the country. IEI provides grant-in-aid to its members to conduct research and development on engineering subjects.

IEI conducts Section A & B Examinations in different Engineering disciplines, the successful completion of which is recognized as equivalent to Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Govt. of India. Every year as many as 80000 candidates appear for these exams. For details, please see: [www.ieindia.org](http://www.ieindia.org)

**ABOUT TIRUCHIRAPPALLI LOCAL CENTRE**

Tiruchirappalli Sub-Centre of IE (I) was formed in 1973 and was elevated as Local Centre in 1987 after the membership crossed the 500th mark. Presently, the membership is more than 2000. Our Local Center is functioning in its own premises located in BHEL campus on the land leased by BHEL, Tiruchirappalli. The building was declared open by Shri P.S Gupta, CMD, and BHEL in August 1990. The institution houses a library having more than 5000 books from various divisions for the benefit of students and members. Our Centre celebrated its Silver Jubilee during the year 1998 to mark the completion of 25 years of its formation and its meritorious service to the Engineering community. The Local Centre has a very close liaison with leading engineering organizations, professional Institutions and sister professional bodies in the conduct of Technical activities. Tiruchirappalli Local Centre stands Second in our country, among all Local Centers based on the level of activities. We have been regularly receiving additional incentives and appreciation letters of the President and other top people of our institution, for the same .For details, please see: <http://ieitiruchi.org/>

**The Institution of Engineers (India)**

**"99 years of relentless journey towards Engineering Advancement for Nation Building"**

**One Day Workshop**

on

**"Emerging Technologies in Aerospace Engineering"**

**27<sup>th</sup> September 2019, Tiruchirappalli**

**Organized by**



The Institution of Engineers (India)

**Tiruchirappalli Local Centre**

**Under the aegis of**

**Aerospace Engineering Division, IEI  
in association / collaboration with**

**J.J.College of Engineering and Technology,  
Tiruchirappalli.**

**(Now Under the Management of  
Sowdambikaa Group of institutions)**



**VENUE**

**J.J. College of Engineering and Technology  
Ammapettai, Poolangulathupatti (Post)  
Tiruchirappalli – 620 009,  
Tamil Nadu**

Topics proposed to be covered in this workshop:

- i) Fundamentals of Aerospace
- ii) Launch vehicle dynamics
- iii) Advanced propulsion systems
- iv) Orbiting of satellites
- v) Reusable launch vehicle
- vi) India's position in global Aerospace race
- vii) Indian space missions
- viii) Recent trends in Aerospace Technology.

Resource persons from academic institutions and industries will be invited.

**Registration Fees (Inclusive of GST as applicable):**

All delegates attending the workshop must register by filling the registration form and by paying registration fees as follows:

Category	IEI members – in Rs.	Non IEI members – in Rs.
Industries & Govt. organizations	500	600
Academic Institutes – faculties	400	500
Students and Research Scholars	300	300

- Registration fee includes workshop kit, Tea & working lunch during sessions. Presentation material will be shared through G drive for limited period for downloading by participants.
- The Registration form in the prescribed format to reach us on or before 01 09 2019.
- The number of participants will be limited to 75. Hence participants are advised to register early.
- The registration form along with documents of payment should be submitted to the Hon. Secretary personally or by post / courier on the following address:  
Hon. Secretary,  
The Institution of Engineers (India)  
Tiruchirappalli Local Centre,  
BHEL Main Office Road, BHEL,  
Tiruchirappalli 620014

**Payment :**

The payments can be made by

- A crossed Demand Draft / MICR Cheque, drawn in favour of "The Institution of Engineers (India), Tiruchirappalli Local Centre", payable at Tiruchirappalli.
- Depositing the amount in our SB A/c No.10891417887 of The Institution of Engineers (India), Tiruchirappalli. The deposit slip will form the document for payment and will be exchanged with the receipt at the registration counter.

**Our Bankers:** State Bank of India, Heavy Electricals, Kailasapuram, Tiruchirappalli – 620014, IFS Code : SBIN001363, Branch code : Last six characters of IFS code represent branch code, MICR code : 620002004

**Travel & Accommodation:**

- The delegates will have to make their own arrangements for travel, boarding & lodging.

**ORGANISING COMMITTEE**

- Chief Patron** Dr.S. Ramamoorthy, Chairman,  
J.J. Group of Institutions
- Chairman** **Dr. N Kumarasan, Chairman, Tiruchirappalli Local Centre, IEI**
- Co-Chairman** **Dr. S. Sathiyamoorthy, Principal, JJCET, Tiruchirappalli**
- Convener** **Mr.T. Subash, Assistant Professor, Aeronautical Department, JJCET, Tiruchirappalli**
- Organizing Secretary** **Mr. A. Anand, MIE, Honorary Secretary, IEI, Tiruchirappalli Local Chapter**
- Members** **Mr. N. Prathap, HoD, Aeronautical Department, JJCET, Tiruchirappalli**
- Dr. S. Nadaraja Pillai, MIE, Associate Professor, Aerospace Engineering, Sastra University, Thanjavur**
- Dr.T. Anbarasan, Assistant Professor & Head, Department of Aeronautical Engineering, Parisutham Institute of Technology and Science (PITS), Thanjavur**
- Er. S. Arunvinthan, AMIE, Research Scholar, Aerospace Engineering, Sastra University, Thanjavur**
- Dr. S. Dharmalingam, Former General Manager, BHEL, Tiruchirappalli**
- All the faculty members from Aeronautical Department, JJCET, Tiruchirappalli**

**CONTACTS**

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|----------------|--|---|
| <b>Name</b>    | <b>Mr. A Anand (IEI)</b>   | <b>Mr. T. Subash, Asst.Prof.</b>  |
|                |  | <b>Mr. R. Rajesh, Asst.Prof.</b>  |
| <b>Phone</b>   | <b>9442236476</b>  | <b>9791528637, 7558175818</b>   |
| <b>Email</b>   | <b>&lt;a.anand@bhel.in&gt;</b>   | <b>&lt;subashnangur@gmail.com&gt;</b>   |
| <b>Address</b> | <b>Hon. Secretary,<br/>Tiruchirappalli Local<br/>Centre- IEI, BHEL,<br/>Main Office Road,<br/>BHEL,<br/>Tiruchirappalli<br/>620014</b> | <b>J.J. College of Engineering<br/>Technology, Ammapettai,<br/>Tiruchirappalli-620 009.</b> |

**ONE DAY WORKSHOP**

on

**“Emerging Technologies in Aerospace Engineering”**

**27<sup>th</sup> September 2019, Tiruchirappalli**

**REGISTRATION FORM**

1. Name (In block letters) :  
.....
2. Designation:.....
3. Organization:.....
4. Address for Communication:  
.....  
.....
5. Mobile:.....Land Line:.....
6. E-mail id :.....

Registration category (Tick the boxes as per your category). Delegate from

- IEI members**                       **Non IEI members**
- Academic institutes – faculties**
- Industries & Govt. organizations**
- Students and Research Scholars**

**Payment Details:**

- DD/Cheque No** .....
- Dt**..... **for Rs**.....
- Deposit slip for online payment Dt**.....  
**for Rs**.....

Beneficiary name: The Institution of Engineers (I), Tiruchirappalli Local Centre.  
Bank Account no.: 10891417887, IFSC NO: SBIN 0001363, State Bank of India, Heavy Electricals, Kailasapuram, Tiruchirappalli 620014.

Signature of the Applicant

**Note:** Please send this form along with DD/Cheque to “The Honorary Secretary, The Institution of Engineers (India), Tiruchirappalli Local Centre, BHEL Main Office Road, Tiruchirappalli – 620014” by post. In case of online payment, please send the scanned copy of this form along with deposit slip for online payment by email to **ieitlc1973@gmail.com** with a copy to **subashnangur@gmail.com**