

9<sup>th</sup> INTER UNIVERSITY  
ENGINEERING, SCIENCE & TECHNOLOGY

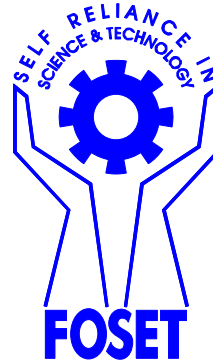
ACADEMIC MEET – 2018

&

INNOVATIVE MODEL COMPETITION  
FOR A SUSTAINABLE SOCIETY

25<sup>th</sup> March, 2018

*Organized by*



**Forum of Scientists, Engineers & Technologists**  
**(FOSET)**

*In Collaboration with*



**INDIAN SOCIETY FOR TECHNICAL EDUCATION,**  
**WEST BENGAL CHAPTER**

*Venue*

**The Government College of Engineering & Textile Technology**

## About the Academic Meet

After an overwhelming response from the students of Engineering Colleges all over the country in the Academic Meets of 2010 to 2017, Forum of Scientists, Engineers & Technologists (FOSET), a national level voluntary organization of professionals feels proud once again to organize the **9<sup>th</sup> INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET - 2018 & Innovative Model Competition for a Sustainable Society on 25<sup>th</sup> March, 2018** in association with **Indian Society for Technical Education (ISTE), West Bengal Chapter**. West Bengal produces some of the finest talents in the field of Engineering, Technology and Science through its systematic and well-organized network of Engineering Colleges and Universities. The Academic Meet is recognized as an effective platform for exploration and brainstorming by UG and PG students in India, who have the positive inclination in translating their scientific knowledge into technology for people. The event includes paper presentations before eminent experts in different fields. UG students & PG students' avenues are also opened up for presenting skill of craftsmanship. There will be a special session featuring innovative technology ideas and products from students sponsored by the Tagore Centre for Green Technology Business Incubation (TCGTBI) of IEST, Shibpur. Also, two best papers of each stream would be awarded as a token of recognition and also would be published in a special issue of the journal **THOUGHT - A Socio Technical Round Up**. The **9<sup>th</sup> INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET - 2018** will therefore look forward for an organizational expansion amongst the budding Scientists and Engineers participating in the meet.

To know more about FOSET, its activities and **9<sup>th</sup> INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET - 2018**, please log on to our website: <http://www.foset.org>

## About The Government College of Engineering & Textile Technology

Govt. College of Engineering and Textile Technology, Serampore, is one of the pioneering institutions in India in the field of Engineering and Technology. The college, established in 1908, was formerly known as College of Textile Technology, Serampore. The Institute started with a certificate course in Weaving. After that in the year 1926, Women's section started in separate premises. Institute started B.Sc. (Tech.) degree course in Textile Technology in the year 1957. At present, college is offering B.Tech. and M.Tech. in Mechanical Processing of Textiles., Information Technology, Computer Science & Engineering, Apparel Production Management and M.Tech. courses in Mechanical Processing of Textiles & Chemical Processing of Textiles.

### Venue

**The Government College of Engineering & Textile Technology,**  
12, William Carey Sarani, Maniktala,  
Serampore - 712201

### Contact Details

Full Paper/s along with the filled-in Registration form to be E-mailed to the following address within due date:

#### **The Convener,**

**9<sup>th</sup> INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET – 2018**  
**Forum of Scientists, Engineers & Technologists (FOSET)**

15N, Nelli Sengupta Sarani (Lindsay Street), New KMC Building (5<sup>th</sup> Floor), Kolkata – 700 087.

Phone: 033 2252 9675 & 2252 0521, Email: [foset@foset.in](mailto:foset@foset.in), Web: <http://www.foset.org>

## Advisors

**Prof. Subimal Sen**, Former Chairman, WB Higher Education Council & President FOSET  
**Prof. Sparsamani Chatterjee**, Chairman, BOG, Government College of Engineering & Textile Technology  
**Dr. Krishna Kishore Satpathy**, Former Director, NIRJAFT and Working President, FOSET  
**Dr. N. R. Banerjea**, Former V.C., BESU, Sibpur and Former President, FOSET  
**Dr. Sudipta Sekhar Mahish**, Professor & OIC, Government College of Engineering & Textile Technology  
**Dr. Kaushik Roy**, Registrar, Government College of Engineering & Textile Technology  
**Prof. N. R. Bandopadhyay**, School of Material Science, IEST, Shibpur  
**Sri Anadi Sankar Basu**, Former DG, CMDA  
**Sri Goutam Roy**, Executive Director, CESC Ltd. & Vice President, FOSET  
**Sri Santanu Sengupta**, Former MD, Westinghouse Saxby Farmers Ltd. & Vice President, FOSET  
**Dr. Arunava Majumder**, Emeritus Professor, Jadavpur University  
**Prof. T. K. Basu**, Professor Department of Electrical Engineering, AOT

## Organising Committee

**Chairman** **Prof. Jaya Sil**, Dept. of Computer Science & Technology, IEST, Shibpur  
**Vice Chairman** **Prof. Ashik Paul**, Institute of Radio Physics and Electronics, Calcutta University  
**Prof. Swapan Kumar Ghosh**, Dept. of Jute & Fiber Technology, Inst. of Jute Technology, Calcutta University.  
**Joint Convener** **Dr. Aishwarya Mukherjee**, Dept of Chemistry, HECT, Hooghly.  
**Sri Gautam Das**, Dept. of Electronics, Techno India University  
**Treasurer** **Sri Prabhat Bera**, Treasurer, FOSET

## Technical Committee

**Chairman** **Sri Saibal Sengupta**, Dy. Director, Industrial Training Institute, Tollygunge.  
**Co-chairman** **Dr. Nachiketa Das**, Office Secretary, FOSET  
**Joint Convener** **Sri Sourav Ghosh**, Dept. of Electrical Engineering, CIEM, Tollygunge.  
**Sri Sumanta Bhattacharya**, Dept. Management Studies, iLEAD, Kolkata.  
**Members** **Dr. Subrata Pal**, IEST, Sibpur  
**Dr. Amitabha Sil**, AOT, Hooghly  
**Sri Indrajit Pandey**, Techno India Group  
**Dr. Subhabrata Datta**, SRM University, Tamilnadu  
**Ms. Urmimala Dey**, NIMAS, Barasat  
**Mr. Shyam Kumar Mondal**, FOSET Member  
**Dr. Asim Bikas Das**, NIT Warangal, Telangana  
**Sri Suvobroto Banerjee**, Techno India Group  
**Sri Ujjal Sengupta**, NSEC, Kolkata

## Important Dates

➤ Last date of submission of Full Text of Paper / Model Proposal:	<b>10.02.2018</b>
➤ Date of Notification of Acceptance :	<b>09.03.2018</b>
➤ Last Date Submission of Registration :	<b>16.03.2018</b>
➤ Last date for Submission of Camera Ready Paper :	<b>16.03.2018</b>
➤ ACADEMIC MEET Paper Presentation :	<b>25.03.2018</b>

## Programme Details

<u>DATE</u>	<u>SESSION</u>	<u>TIME</u>
<b>25th March, 2018</b>	Registration	10.00 AM to 11.00 AM
	Technical Session - I	11.00 AM to 01.30 PM
	Technical Session II	02.30 PM to 05.00 PM
	Valedictory Session	05.30 PM to 06.30 PM
	Exhibition of Models	11.00 AM to 03.00 PM

## Call For Papers

Papers are invited from Under Graduate & Post Graduate students of Universities & Engineering Colleges on **Ready-to-Transfer Technologies and Field-level and Cost-effective Applications of Science and Technology. Engineering Students of Bachelor and Masters Levels, Science Students of Masters Level and students of Master of Computer Applications can participate in the programme.**

## Call For Models

Models are invited of different institutes on **Ready-to-Transfer Technology and Field-level and Cost-effective Applications of Skills in various department of Craftsmanship.**

## Awards

- Certificates will be awarded to all selected papers presenters and model makers.
- Cash Prizes of **Rs.2,000/-** and **Rs.1,000/-** will be awarded to the First & Second Prize winning papers respectively.
- Cash Prizes of **Rs.2,000/-** will be awarded to the First Prize winning among the model makers.

## Tariff For Sponsorship / Advertisement

Collaborator	<b>Rs.</b>	<b>50,000.00</b>
Sponsorship	<b>Rs.</b>	<b>25,000.00</b>
Sponsorship of Stream	<b>Rs.</b>	<b>15,000.00</b>
Advertisement (Full Page)	<b>Rs.</b>	<b>10,000.00</b>
Sponsorship of prize	<b>Rs.</b>	<b>5,000.00</b>

## Registration

All the participant per Paper and per Model have to submit individually the attached Registration Form duly filled-in and signed and should be authorized by Head of the Department / Institute. Registration Fee is **Rs. 200.00 per head**. No Spot Registration will be entertained. All have to get themselves registered 15 days prior to the day of the Academic Meet.

## Guidelines for Paper Submission

- Abstract in ms-word in two columns not exceeding **300 words** with maximum **5 key words** has to be submitted within due date and after acceptance of the Abstract, Full Paper has to be submitted within due date
- The **Paper** in ms-word should be within 3000 words and contain maximum 5 figures and 5 tables. Please include black & white photographs only.
- Only soft copy of the print-ready version of the Paper (through e-mail) has to be submitted.
- The paper should follow the following template:
  - Paper must use a page size corresponding to A4 which is 210mm wide and 297mm long. The margins must be set as follows: Top = 25mm, Bottom = 30mm, Left & Right = 25mm.
  - Title and author details must be in single-column format and must be centered. Email address is compulsory for the corresponding author.
  - Text must be in two column format with a space of 4mm between columns. All paragraphs must be justified.
  - Font Sizes:
    - ✓ Title of paper = 20 points bold;
    - ✓ Author(s) Name = 11 points (corresponding author has to be marked with \*),
    - ✓ Author affiliation and email address = 9 points;
    - ✓ Level-1 heading = 10 point bold in caps;
    - ✓ Level-2, Level-3 headings = 10 point in italic;
    - ✓ Text = 10 point;

- ✓ Table caption (in caps), Figure caption (in caps), References = 8 points;
  - ✓ Keywords (maximum 5) = 10 points in italic separated by semicolon.
  - ✓ Figures and tables must be centered in the column. Large figures and tables may span across both columns. Any table or figure that takes up more than 1 column width must be positioned either at the top or at the bottom of the page.
- Reference style:
- ✓ T. Ramesh, R. Prakash, K.K. Shukla, Life Cycle Energy Analysis of Buildings: An Overview, Energy and Buildings, vol 42, issue 10, October 2010, pp 1592–1600.
  - ✓ Statistical Year Book India 2016, Ministry of Statistics and Programme Implementation, Government of India, <http://mospi.nic.in/statistical-year-book-india/2016>, viewed on February 28, 2017
  - ✓ SP25, Handbook on Causes and Prevention of Cracks in Buildings (Preview), Bureau of Indian Standards, Section-2, 1984

Abstract and Full Papers must be sent by e-mail to: [foset@foset.in](mailto:foset@foset.in)

Registration Form has to be sent by post/courier to FOSET office or e-mail the scanned copy of filled Registration.

### **Theme & Scope for M. Sc. Students**

<b>A. AGRICULTURAL CHEMISTRY &amp; SOIL SCIENCE, BIOCHEMISTRY,</b>
<b>B. ENVIRONMENTAL SCIENCE</b>
<b>C. GENETICS &amp; PLANT BREEDING, SEED SCIENCE</b>
<b>D. GEOLOGY / APPLIED GEOLOGY</b>
<b>E. JOURNALISM, MASS COMMUNICATION AND MEDIA SCIENCE</b>
<b>F. MICROBIOLOGY, FOOD &amp; NUTRITION</b>
<b>G. SPECIAL SESSION INNOVATIVE TECHNOLOGIES WITH COMMERCIALISATION POTENTIAL</b>
A session to encourage the Entrepreneurship potential of the budding engineers organized by Tagore Centre for Green Technology Business Incubation (TCGTBI) - IEST, Shibpur for finding out the potential for further study and have true commercialization potential.

### **Theme & Scope for B.E./B. Tech./MCA Students**

<b>A. AGRICULTURAL ENGINEERING; BIO-TECHNOLOGY; FOOD TECHNOLOGY</b>
<b>B. ARCHITECTURE, CIVIL ENGINEERING, ENVIRONMENTAL ENGINEERING</b>
<b>C. CHEMICAL ENGINEERING; PHARMACEUTICAL ENGINEERING</b>
<b>D. COMPUTER SCIENCE &amp; ENGINEERING; INFORMATION TECHNOLOGY</b>
<b>E. ELECTRICAL ENGINEERING; INSTRUMENTATION ENGINEERING</b>

## F. ELECTRONICS & COMMUNICATION ENGINEERING

## G. INDUSTRIAL ENGINEERING/MANAGEMENT; MECHANICAL ENGINEERING; METALLURGY & MATERIAL SCIENCE/ENGINEERING; PRODUCTION ENGINEERING

## H. JUTE, TEXTILE & FIBRE TECHNOLOGY

## I. SPECIAL SESSION INNOVATIVE TECHNOLOGIES WITH COMMERCIALISATION POTENTIAL

A session to encourage the Entrepreneurship potential of the budding engineers organized by Tagore Centre for Green Technology Business Incubation (TCGTBI) - IEST, Shibpur for finding out the potential for further study and have true commercialization potential.

### Guidelines for Model Exhibition

#### SCIENCE & TECHNOLOGY EXHIBITION FOR A SUSTAINABLE SOCIETY

##### Introduction

"FOSET" is organizing a science & technological exhibition through models and exhibits as made by the skilled artisans to develop an understanding about the role of science & technology to meet the demand of the future towards sustainable development of the society.

The main objective to organize such exhibition first time in the arena of "Academic Meet", to envisage the engineers & technicians of the future, would try to analyze all aspects of the role of science & technology for a sustainable world. This will enable the Target group to generate scientific and technological ideas for addressing various problems of the society. Scientific and technological ideas in this context may be referred to as innovative ways of doing things or development of new values through solutions that meet new requirement leading to sustainable production and uses.

The youth must be aware about how human society's unsustainable use of natural resources affects the quality of life and environment. The young engineers and technicians should identify where and how new researches and development in science & technology can bring sustainable development of the society.

##### This exhibition aims to cover areas

- 1) Mechanical & Production Engineering
- 2) Civil and Architecture Engineering
- 3) Electrical Engineering
- 4) Computer Science and Information Technology
- 5) Electronics

*(Areas listed above are suggestive. The young engineers and technicians are free to choose any other area and develop exhibits involving technology for sustainable development of the society)*

##### Objectives

- To provide a forum to nurture science & technology
- To explore and encourage scientific and technological talent and creative thinking among youth.
- To develop an understanding about the role of science and technology towards sustainable development of the society.
- To analyze how science and technology have affected individuals, culture and society.
- To motivate the youth that science and technology are instrument for achieving self-reliance in socio economic development.

## Criteria for selection of the participants of Model Exhibition

Sl	Description of criteria for selection of student	Weightage in %
1	Creative imagination	15
2	Scientific thought and approach	15
3	Originality & innovations in the model	15
4	Technical Skill	15
5	Economic ( low cost / portability / durability)	15
6	Presentation(demonstration & explanation)	15
7	Educational Value	10

### Registration

Two participants per Model have to submit individually the attached Registration Form duly filled-in and signed and should be authorized by Head of the Department / Institute. The Registration Fee is @ **Rs. 200 per head.**