

# 5<sup>th</sup> EXECUTIVE DEVELOPMENT PROGRAM ON INDUSTRIAL SAFETY

FOR IGP GROUP OF COMPANY EXECUTIVES

AUGUST 4<sup>th</sup>, 21<sup>st</sup> – 23<sup>rd</sup>, 25<sup>th</sup> 2018

Organized by

School of Mechanical Engineering  
&  
School of Management Studies

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## SATHYABAMA

Institute of Science & Technology  
(Deemed to be University)

Jeppiaar Nagar, Chennai – 600 119, Tamil Nadu.

[www.sathyabama.ac.in](http://www.sathyabama.ac.in)

### **About Sathyabama Institute of Science & Technology (Deemed to be University)**

Sathyabama Institute of Science and Technology (SIST) founded in the year 1987 has successfully completed 30 years in the academic line accredited by NAAC with an A grade. Sathyabama is a pioneer institute imparting knowledge in the areas of Engineering, Technology, Management, Science and Humanities. The Progress and contribution of the SIST in the field of technical education for three decades, made the Ministry of Human Resources Development, Govt. of India, to grant University status Under Section 3 of the UGC Act, 1956. Sathyabama is steered towards success under the leadership of visionary founder Col. Dr. JEPPIAAR, Chancellor Tmt.Dr.Remibai Jeppiaar, and the able support and guidance of the Prochancellor, Dr. Mariazeena Johnson & President, Dr. Marie Johnson. The institution has undertaken various sponsored projects funded by both International & National organizations and also successfully conducted non-formal education Programs through 18 village Resource Centers all over the state.

### **About School of Mechanical Engineering**

Sathyabama Institute of Science and Technology offers Mechanical Engineering Programs at the UG, PG and Doctoral levels. Its strong and interactive curriculum and hands-on learning will make students capable of taking their career to the next level, whether it be in the Professional engineering practice or in advanced study. The department, right from its inception in 1988 has been focusing on high-quality teaching along with integrated laboratory experience. The school has undertaken various funded Projects by — Ministry of Steel, Combat Vehicles Research etc.

### **About School of Management Studies**

The School of Management Studies was established in the year 1993 offers UG and PG programmes, as well as Ph.D in Management. The school of Management Studies works with an undeterred zeal to offer its students the best of the education, experience and thereby conducts several activities related to learning for their overall growth and development.

### **About IGP Group**

From a modest beginning in 1955, the IGP Group today provides over 50 products and services to the core sector. The group's products are well accepted both in the domestic as well as in the international markets. The group's manufacturing facilities are spread over 13 factories. These factories use state of the art manufacturing techniques and are equipped with up to date testing facilities to provide good quality products to the customers.

*With the divine Blessings of*

**Colonel Dr. JEPPIAAR**, M.A., B.L., Ph.D.,  
Founder Chancellor, Sathyabama Institute of S&T

### **CHIEF PATRONS**

**Tmt. Dr. Remibai Jeppiaar**,

Chancellor

**Dr. Marie Johnson**, B.E, M.B.A, M.Phil, Ph.D.,  
President

**Dr. Mariazeena Johnson**, B.E, M.B.A, M.Phil, Ph.D.,  
Pro Chancellor

### **UNDER THE GUIDANCE OF**

Dr. S. Sundar Manoharan, Vice Chancellor

Dr. T. Sasipraba, Pro Vice Chancellor

Dr. S.S. Rau, Registrar

Dr. S. Igni Sabasti Prabu, Controller of Examinations

Dr.B.Sheela Rani, Director – Research

### **Conveners**

Dr.S.Prakash, Dean, School of Mechanical Engineering

Dr.G.Bhuvaneshwari, Dean, School of Management Studies

### **Co-Conveners**

Dr.A.Krishnamoorthy, Professor, School of Mechanical Engineering

Dr.M.Sivasubramanian, Associate Professor, School of Management Studies

Mr.Nivin Joy, Assistant Professor, School of Mechanical Engineering

### **RESOURCE PERSON**

**Mr.S.Manoharan, AEE (Rtd.)**

**TNEB & Ennore Thermal Power Plant**

**Government of India certified Safety Auditor**

## PROGRAM SCHEDULE

Day	Session and Topics	
<b>Day 1</b>	IGP Group of Industries – Industrial visit to study the existing company and safety requirement	
<b>Day 2</b>		
8.00 am to 8.30 am	Registration & Inauguration	
8.30 am to 10.00 am	<b>Session 1</b>	<ol style="list-style-type: none"> <li>1. Need for integration of safety, Health &amp; Environment (SHE)</li> <li>2. Accidents, Principles of accidents, Causes of accidents, classification of accident.</li> <li>3. Prevention including selection of applications and remedies of accidents.</li> <li>4. Role of workmen, Supervisors and Managers in Safety</li> <li>5. Factories Act 1948 and Tamil Nadu Factories 1950</li> </ol>
10.00 am to 10.15 am	Tea Break	
10.30 am to 12.00 am	<b>Session 2</b> Fire Safety:	a) Chemistry of Fire b) Classification of Fires & Extinguishers c) Fire Prevention & Protection system.
12.00 Noon 12.45 pm	Lunch	
12.45 pm to 2.15 pm	<b>Session 3</b> Electrical Safety:	<ol style="list-style-type: none"> <li>a) Hazards in Electricity including shock phenomena and rectification</li> <li>b) Safety in Hand Tools</li> </ol>
2.15 pm to 2.30 pm	Tea Break	
2.30 pm to 3.45 pm	<b>Session 4</b> FIRST-AID:	<ol style="list-style-type: none"> <li>a) Types of burns and First aid for burn Injuries b) Minor &amp; Major cut injuries and First aid for cut injuries</li> <li>c) Heat Stroke and First aid for Heat stroke d) Electrical Shock and First aid for Electric Shock (CPR)</li> </ol>
<b>Day 3</b>		
8.15 am to 9.45 am	<b>Session 1</b>	<ol style="list-style-type: none"> <li>1. Safety in Welding, Cutting, Drilling and Grinding Operations</li> <li>2. Safety in Molding and Forging Operations</li> <li>3. Safety in Electrical Furnaces Operation</li> </ol>
9.45 am to 10.00 am	Tea Break	
10.00 am to 12.00 am	<b>Session 2</b> Material Handling	<ol style="list-style-type: none"> <li>1. Safety in Manual Handling of Materials</li> <li>2. Mechanical Handling Equipment including Safe Operation of cranes and Forklifts.</li> </ol>
12.00 Noon to 12.45 am	Lunch	
12.45 pm to 1.30 pm	<b>Session 3</b> Boilers & Chemical Safety:	<ol style="list-style-type: none"> <li>Safe operation of Horizontal boilers</li> <li>Safety in Handling, Transporting and Stocking of Chemical</li> </ol>
12.45 pm to 2.15 pm	<b>Session 4</b>	<ol style="list-style-type: none"> <li>Personal Protective equipments (PPE)</li> <li>1. Types and uses of Personal Protective Equipments.</li> </ol>
2.15 pm to 2.30 pm	Tea Break	
2.30 pm to 3.30 pm	<b>Session 5</b>	Case Study
<b>Day 4</b>	Industrial Visit – Ashok Leyland, Ennore.	
<b>Day 5</b>	Discussion with the Management of IGP group of companies and draft report submission	