



## **SREEPATHY ADVANCED CAREER EDUCATION CENTRE**

### **SREACE- ‘yet another noble venture from SIMAT’-An overview**

#### **INTRODUCTION**

As we all know that the pace of advancement in technologies used, in the industry has become tremendous these days. New technologies are being introduced into, and are getting outdated, within short spans of time. The present employment scenario has switched over in such a way that it has space for fresher graduates, only if they are carrying some add-on qualifications/skills/experiences that are of current industrial relevance, in their quiver, along with their degrees. The industry needs young talents who are plug N play i.e, who are experienced and are ready to take up responsibilities straight away with no or very minimal training.

It is practically impossible to impart the above mentioned experience, knowledge , skills etc. to the students in the syllabus (seldom updated & time constrained) based professional education system. As a result the fresh graduates who are passing out of professional colleges are facing a real tough time in finding , even an entry level employment, even in tier 2 or 3 organisations. This spoils the very purpose of professional education itself, and the situation is going to be the worst in the years to come.

In this context, Sreepathy Institute of Management and Technology ,absolutely proactive as always, has come up with innovative mitigation measures which can effectively counter those crisis, and that lead to the formation of ‘**SREEPATHY ADVANCED CAREER Education CENTRE (SREACE)**’.

## **ABOUT SREACE**

**SREACE** is the result of a combined and extreme hard work by a dedicated team of SIMATIans. The team, including the Principal ,HODs and faculties from various departments, after conducting thorough evaluations and surveys ,have identified various Add-On courses that are best suited, and are of latest industrial relevance, for all the five B.Tech branches(CE,ME,EEE,ECE & CSE) at SREEPATHY. The team has also found out the best institutions (external) providing those courses and have invited proposals from those institutions to Sign MoU with SREEPATHY and conduct those course here ,for our students, using our infrastructure and facilities ,so that the students will be assured of maximum quality with least possible fees.

The entire program will be coordinated and controlled by SREACE. The students will register for the course, pay the fees etc. through SREACE and will get the certificate jointly issued by the Institute concerned and SREACE ,at the time of their successful completion of the program. In short every single activity regarding the add on courses, right from the planning, till issuing the certificates, will be exclusively handled by SREACE .

**THE DETAILS OF COURSES OFFERED UNDER SREACE FOR VARIOUS DEPARTMENTS ARE GIVEN BELOW**

## I) MECHANICAL ENGINEERING

### Course-1

**COURSE TITLE: 'PIPING DESIGN ENGINEERING'**

Course Duration: 30 Days, 150 hrs.

Institute: **Paramount Institute of Piping Engineering**

Udayanagar , Thrissur Dt. Pin 680003

### CORE AREAS COVERED

SL.NO	TOPIC
1	Preparation of Piping Isometrics Drawings
2	Equipment and Piping modelling in PDMS
3	Stress Analysis using Caesar II
4	Piping Bill of Material preparation
5	Piping layout preparation
6	Piping Thickness calculation using ASME codes
7	Piping reinforcement calculation / Mitre bend calculations
8	International standards and codes
9	Commonly used material used in the industry
10	Different type of supports used in oil and gas industry
11	Basic process of Oil and Gas production
12	Different piping components and their standards

### Course-2

**COURSE TITLE: CERTIFIED QUALITY CONTROLLER(CQC)**

Course Duration: 70 Working Days,

Institute : **Decibel NDE Inspections and Training Institute**  
**1F Plainfield,Near Civil Court,Pattambi,Plakkad (Dt)**  
**Kerala679303**

## CORE AREAS COVERED

<b>SL .NO</b>	<b>TOPIC</b>
1	Introduction to Certified Quality Controller & Related Field
2	Codes , Standards, Procedure, Specification Familiarization
3	Oil Field & Natural Gas QMS Auditing
4	Basic of Steel Storage Tanks
5	Basics of Heat Exchanger for GRS
6	API –, 570, 1104, 572, 577 etc.
7	ASME Sec- V, II, VIII, IX, B 31.1, B 31.3
8	Welding Engineering
9	Material Engineering
10	Destructive Engineering
11	Blasting & Coating Engineering
12	Quality Management Engineering
13	Damage Mechanism
14	Industrial Engineering Drawings (GAD, P&ID, ISO)
15	General Industrial Health & Safety
16	Maintenance Inspections
17	Corrosion & Deterioration
18	Quality System Documentation & Reporting
19	Radiography Testing,
20	Ultrasonic Testing,
21	Magnetic Particle Testing,
22	Liquid Penetrant Testing,
23	Visual Testing
24	Radiography Film Interpretation,
25	Ultrasonic Testing Plate Butt Weld Scanning,
26	Ultrasonic Testing Pipe Butt Weld Scanning,
27	Ultrasonic Testing Critical Defect Sizing.
28	Basic of Advanced NDE Techniques

## **II) ELECTRICAL & ELECTRONICS ENGINEERING**

### **Course-1**

#### **COURSE TITLE : POST GRADUATE DIPLOMA IN INDUSTRIAL AUTOMATION (PGDIA)**

Course Duration : 30 Days, 150 hrs.

Institute : **Prolific Systems & Technologies Pvt. Ltd**

5<sup>th</sup> Floor, Rasheed Towers, Karimpatta Cross Road

Pallimukku, Kochi , Pin – 682 016

### **CORE AREAS COVERED**

<b>SL .NO</b>	<b>TOPIC</b>
1	<b>Programmable Logic Controllers (PLC)</b>
2	Allen Bradley- Micrologix 1200, SLC 5/03,
3	Siemens - S7-300,
4	Siemens - S7-200
5	Omron
6	Mitsubishi
7	Ge- Fanuc
8	Versamax
	<b>Supervisory Control &amp; Data Acquisition Software (SCADA )</b>
1	Wonder ware InTouch 9.5)
2	Variable Frequency Drives(VFD)- Siemens MM
3	Distributed Control System(DCS)
4	Industrial Process Management

### III) ELECTRONICS & COMMUNICATION ENGINEERING

#### Course-1

**COURSE TITLE : 'EMBEDDED SYSTEMS DESIGN AND DEVELOPMENT'**

Course Duration : 320 Hrs;

Institute : **EMBICS Technologies Pvt. Ltd**

Royal Commercial Complex

Jubilee Junction

Calicut Road, Perinthalmanna,

Malappuram, Kerala-679322

#### CORE AREAS COVERED

SL.NO	TOPIC
1	Embedded C and 8 bit Micro Controller
2	Hardware Design, PIC
3	Interfacing (Keyboard, LCD,LED,RTC,RS232 etc.)
4	Wireless Communication (RFID GSM,GPS, ZigBee, RF etc.)
5	Embedded Linux, Embedded RTOS(Theoretical Concept)
6	EMI,EMC compliance and testing cocepts
7	Embedded Product Design
8	Project Works and Simulation(LabView)

## **IV) CIVIL ENGINEERING**

### **Course-1**

**COURSE TITLE : DESIGN OF STRUCTURAL ELEMENTS**

Course Duration : 40 Hrs;

Instructor : Sri. T.N.R BHATTATHIRIPPAD BE (Hons.)FIE  
CIVIL & STRUCTURAL CONSULTANT  
(Formerly Superintending Engineer ,Kerala Govt. Service  
&  
General Manager, Kerala State Construction Corporation Ltd.)

### **CORE AREAS COVERED**

<b>SL .NO</b>	<b>TOPIC</b>
1	<b>Introduction to structural engineering</b>
2	<b>Structural elements subjected to horizontal and vertical loads</b>
3	<b>Concrete design</b>
	Beam design-Design and detailing of simply supported, cantilever and continuous RC beams
	Slab design- Design and detailing of one way and two way slabs
	Column design- Design and detailing of short and long column
	Foundation design- Isolate, Combined, Strip, Mat, Pile and Pile cap
	Design of stair
4	<b>Design of framed structures using software</b>

## Course-2

**COURSE TITLE : ‘ADVANCED BUILDING INFORMATION MODELING’(BIM)**

Course Duration : 135 Hrs

Institute : **InterCAD Systems Pvt. Lt.d**

2nd Floor, Balakrishna Pillai Building

Opp. St. Ignatious Knanaya Church

Trivandrum-695 035

### CORE AREAS (softwares) COVERED

SL.NO	SOFTWARE
1	AutoCAD
2	Revit Architecture
3	Revit MEP
4	Primavera
5	STAAD. Pro

### **INTERCAD OFFERS**

- Authorized Reseller of Engineering Softwares.
- Authorized Training Center of **Autodesk, Bentley Staad.Pro& PTC.**
- Authorized Certification Center of **Autodesk.**
- Latest version software training Facility.
- Courses Handled by Certified Professionals form Parent Companies.
- Updated & highly Specialized Courseware.
- Direct certification from **Autodesk /BENTLEY/ PTC.**

**Apart from the courses listed above ,few other courses also are under the final stages of discussion .SREACE will keep on introducing new courses based on the current trends, demand and job opportunities**



## ADVANTAGES TO STUDENTS

- All the courses under SREACE comes with hands on practical sessions in the industry .Hence , the degree, plus an add on course, will make a student equivalent to a 1-2 year experienced professional .Hence he/she will never be considered as a fresher in the industry
- All the courses under SREACE are handpicked ones that have a great demand and scope for employment even abroad.
- Since the external institutes are getting fair number of students, without any promotional expense, and the entire infrastructure is provided by SIMAT, the students will get the maximum benefit of the least possible course fees. All the courses under SREACE comes with a fess structure which is around 50% lesser tan the normal outside rates.
- Since the institutes will be signing MoU with SIMAT,SREACE will be having complete control over the course delivery. There will be a transparent and strict feedback system. This will assure the students, a course with maximum quality.
- Combined efforts to find placements for the students by SIMAT team and the respective external institutes will enable the students to find employments quickly and effectively.

**For Dept. of Training & Placements**

**Bibin Joy**  
**(Training & Placement Officer)**