

REGISTRATION FORM

(Separate form should be filled for each delegate (40 seats- first come first serve basis).)

COURSE FEES : Rs. 1500 plus service tax of Rs185 (12.36%) Total **Rs. 1685/-** per delegate. Course fee includes, Course notes, Tea & Lunch.

Name : _____

Designation : _____

Organisation : _____

Address : _____

Tel. No. _____

Fax : _____

E-mail : _____

Payment Detail : Local or at par Cheque / DD No. _____

Date : _____

Amount Rs. _____

Name of Bank : _____

Signature _____

Please Forward the Completed form together with DD drawn in favour of "FRP Institute"- to

Dr. A. Selvam
Executive Secretary

FRP INSTITUTE
N.P. 23/24, Developed Plot,
Ekkattuthangal, Chennai-600 097. INDIA.
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PATTERN SURFACING



COMPOSITES WITH HIGH SURFACE QUALITY



Light RTM Process



RELEASE SYSTEMS



MOULD CONSTRUCTION



**ONE DAY
TRAINING PROGRAMME
ON
MANUFACTURING OF
WORLD-CLASS COMPOSITES**

On
30th August 2008 (Saturday)

Venue
Hotel Sakithyan
#42, Thanickachalam Road
(Near Hindi Prachar Sabha)
T.Nagar, Chennai 600 017.

Organized by
FRP INSTITUTE
NP 23 & 24 Developed Plot
Ekkattuthangal, Chennai - 600 097.

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Mobile : +91-98414 26644

In association with
EPSILON COMPOSITE SOLUTIONS.
Apartment # 2, 'Pooja Enclave,
Karvenagar, Pune – 411 052.
TEL : +91-20-2547 0263
FAX : +91-20-2547 1170
Email : vijay@cdtecs.com
pereira@cdtecs.com

FRP INSTITUTE, CHENNAI.

FRP Institute is a professional society registered under Govt. of Tamil Nadu Societies Act-1975. It has an all India membership consisting of scientists, composite specialists, fabricators, raw material suppliers, consultants, designers, defence laboratories, educational institutions etc. The Institute works in close collaboration with the industries and institutions for upgrading the *Composites Technology* and to promote the growth of the Indian composites industry.

FRP Institute has the following main objectives in-order to promote growth of industry:

- i). Education & Training**
- ii). Upgradation of Technology & Quality**
- iii). Growth & Exports**

This one day programme is being organized in association with Epsilon composite solution with a view to promote product quality with improved raw materials and processes.

About ECS, Pune

ECS is a team of professionals backed with decades of International experience in Composite Design, Engineering & Process development.

Epsilon Composite Solutions offers Specialty products & complete process engineering support.

Epsilon Closed-Mould Solutions is the technology partner of Magnum Venus Plastech for RTM & LRTM process engineering, equipments & accessories.

ECS conducts professional tool training schools to create proficiency on use of Closed-Mould processes.

COURSE PROGRAMME

DATE : SATURDAY, 30th, August, 2008

AGENDA:

- 09.30 - 10.00 Registration.
- 10.00 - 13.00 Introduction,
 - Pattern Preparation & Surfacing with Hawkeye products.
 - Resurfacing of Moulds, In-Mold Priming.
- 13.00 - 14.00 Lunch Break
- 14.00 - 15.00 Light RTM Technology
- 15.00 - 15.45 Rapid mould making with Nord Zero shrink tooling system.
- 15.45 - 16.00 Tea Break
- 16.00 - 17.00 Lamination techniques, Process control,
 - Semi-Permanent Release systems.
- 17.00 - 17.30 Open session.

FACULTY :

Mr. AGNEL PEREIRA
Mr. MUKUND ZANPURE

VENUE :

Hotel Sakithyan,
No. 42, Thanikachalam Road,
(Near Hindi Prachar Sabha)
T.Nagar, Chennai - 600 017.

“MANUFACTURING OF WORLD-CLASS COMPOSITES”

Course intends to provide a step-by-step study of the new generation systems to produce World-Class Composites of international standards with superior surface finish & excellent structural properties. This programme covers introduction & application methods for various specialty materials.

- 1. Pattern making :** Guidelines on different Materials for patterns, Surfacing system for hi-gloss, undulation-free pattern surface.
- 2. Mould construction :** Zero shrink tooling system with tooling gelcoat & skincoat , lay-up sequence, mould stiffening. Resurfacing of old or damaged moulds.
- 3. Release systems :** Use of Wax release for tooling & advantages of Semi-permanent release system for production.
- 4. Lamination Techniques :** Gelcoating, troubleshooting with gelcoats, Cure system, Hand Lay-up process - use of rollers in simple laminates and use of core materials for sandwiched construction
- 5. Process Control & documentation :** Shop-floor management of materials, equipments & Manpower for consistent quality production.
- 6. Light RTM process :** Introduction & Areas of Applications. To produce fully engineered composite parts.