

Programme Brochure

Distance Education Programmes *for Practising Engineers*

Conducted Jointly by



A not-for-profit knowledge center

&

NICMAR

Six Months Graduate Certificate Programmes

- Waterproofing and Maintenance of Concrete Structures
- Advanced Technology for Concrete Repair
- Application of Polymeric Materials in Construction

PROFILE

Dr. Fixit Institute of Structural Protection and Rehabilitation (DFI-SPR)

Looking at the expanse and challenges of the construction industry, in particular, the need for a rapid rehabilitation of obsolete and decaying infrastructure, Dr. Fixit Institute of Structural Protection and Rehabilitation (DFI - SPR), a not-for-profit knowledge center, was conceived in 2001 under the promotional umbrella of Pidilite Industries Limited and thereafter registered in June 2006 as a stand-alone company under Section 25 of the Indian Companies Act, 1956.

The primary mission of DFI-SPR is to act as a platform for “enhancing the service life of built environment through global sharing of knowledge and practices in the fields of Waterproofing, Structural Protection, Repair & Rehabilitation”. The institute's activities are overseen by a Governing Council comprising eminent individuals from the fields of Construction Engineering, Research and Management.

DFI-SPR started offering courses from 2002, and has, over the last 5 years, conducted more than 90 training programmes at various centers, for over 2,300 participants.

Vision

To become a premier national knowledge and skill development centre in waterproofing and other areas of renewal engineering.

Mission

To act as a platform for enhancing the service life of built environment through global sharing of knowledge and practices in the field of Waterproofing, Structural protection, Repair and Rehabilitation.

For further details, please visit at <http://www.drfixitinstitute.com>

National Institute of Construction Management and Research (NICMAR)

NICMAR, established over two decades ago by the Indian construction industry, is India's premier Post Graduate Institute in Construction Management, Project Management and related fields. With strong support from industry, NICMAR has come to be recognized as a prestigious Centre of Excellence in Management education.

NICMAR School of Distance Education (SODE)

The School of Distance Education offers a wide choice of qualification programmes of education by correspondence in most functional areas of construction management to serve the needs of professionals by taking quality education right to their doorsteps.

For further details, please visit at <http://www.nicmar.ac.in>

Based on the above background, DFI-SPR and NICMAR-SODE have decided to jointly conduct Graduate Certificate Programmes in the field of Structural Protection and Rehabilitation through distance education.

OBJECTIVE

The construction industry is India's lifeline. With the vast increase in the housing & infrastructure projects, there is a huge demand for skilled construction personnel. Simultaneously, to ensure the reliable and long service life of these structures, repairs & rehabilitation of concrete has become the fastest growing segment of concrete construction. Therefore there is a need for the performers to continuously improve their knowledge & skills. The Graduate Certificate Courses are designed to meet the following objectives:

- i. To help construction & maintenance professional to keep their knowledge & skills updated.
- ii. To gain proficiency in the performance as maintenance personnel.
- iii. To acquire a qualification granted by Asia's leading construction management & structural protection institutes.

PROGRAMMES

The following three Graduate Certificate Programmes are offered:

1. **Waterproofing and Maintenance of Concrete Structures**
2. **Advanced Technology for Concrete Repair**
3. **Application of Polymeric Materials in Construction**

CURRICULA

Module 1: Waterproofing and Maintenance of Concrete Structures

Block A : Fundamentals of Waterproofing

Unit A-1: Water and its Modes of Infiltration in Building

Unit A-2: Designing to Prevent Leakage and Ingress of Water

Block B : Waterproofing principles, Practices and Materials

Unit B-1: Principles and Practices

Unit B-2: Materials and Standards

Block C : Maintenance of Concrete Buildings and Structures

Unit C-1: Conceptual Aspects

Unit C-2: Maintenance Schedules (Based on CPWD Practices)

Block D : Safety, Health and Environmental Issues

Module 2: Advanced Technology for Concrete Repair

Block A: Concrete as a Building Material

Unit A-1: Basics Aspects of Making Concrete Durable

Unit A-2: Causes and Factors for Concrete Deterioration

Block B : Appraisal of Concrete Buildings and Structures

Unit B-1: Condition Survey and Diagnosis

Unit B-2: Methods and Approaches for In-situ and Off-site Testing of Concrete Structures

Block C : Manifestations of Concrete Distresses and their Repair Practices

Unit C-1: Concrete Distresses Manifested in Cracking and Void Formation

Unit C-2: Concrete Restoration Systems

Module 3: Application of Polymeric Materials in Construction

Block A : Understanding Polymers and their Evolution

Block B : Engineering Plastics

Block C : Adhesives in Engineering Applications

Block D : Coating Materials and Applications

Block E : Water Reducing and Rheology Modifying Chemicals in Cement and Concrete

Block F : Grouting and Repairing Chemicals

Block G : Safety, Health and Environment Issues.

COURSE MATERIAL

The course materials comprise of:

Study Material

The printed material (written in self-instructional style, easy to understand) for both theory and practical components of the programme shall be supplied to the students comprising the basic theory, examples etc.

Contact Programmes

There will be total 2 contact programmes to enable the students understand the methods of repairs and application by practical demonstration to clear their doubts.

FLOW of ACADEMICS

The academic flow of the graduate certificate courses is as follows:

Study Materials

1. Studying the lesson books sent by DFI-SPR.
2. Studying the books from the list of Readings sent by DFI-SPR.

Assignment

There will be four assignments for each module, to be submitted compulsorily before examination.

Examination

Final examination shall be conducted either at NICMAR, Pune Campus or at DFI-SPR, Andheri, Mumbai.

Certification

All the successful students will be awarded a certificate jointly by DFI-SPR & NICMAR.

DURATION

Each Certificate Programme is of Six (6) months duration from the date of enrolment. Extension of the duration for completion of studies is not allowed.

ELIGIBILITY (Academic and Experience)

- Diploma in any branch of engineering

OR

- Graduation in any non-engineering field having 2-3 years experience in relevant fields.

HOW TO APPLY

Prospectus and Application Form can be obtained from NICMAR on payment of Rs. 1000/- by Demand Draft or downloaded from websites: www.nicmar.ac.in or www.drfixitinstitute.com. The application form duly completed can be sent to NICMAR along with photocopy of required documents and an application fee of Rs.1000 by Demand Draft in favour of "NICMAR-SODE" payable at Pune.

The correspondences should be made with

The Dean – SODE

NICMAR, 25/1, Balewadi,
N. I. A. Post Office, Pune – 411045.
Tel : (020) 27292671 / 27292512 (Extn. 202)
Fax : (020) 27291057
Email : code@nicmar.ac.in

And

Head – Training / Section Head - Training

Dr. Fixit Institute of Structural Protection & Rehabilitation
C/o Pidilite Industries Ltd ,
Ramkrishna Mandir Road, Andheri (E),
P.O. Box – 17411, Mumbai – 400059
Tel : (022) 28357683 / 7979
Fax : (022) 2835 7149
Email: tirtha.banerjee@pidilite.com
neelima.Sali@pidilite.co.in

Start date of Issue of Applications : May 11, 2009

Last date of Submission of Applications : July 20, 2009

COURSE FEES AND SCHEDULES OF PAYMENT

Course Fee per Module: **Rs. 15000**

The Schedule of fees and other charges for various programmes are as follows:

- Fees are payable by Demand Draft drawn in favour of NICMAR-SODE, payable at Pune. Personal cheque and cash are not accepted.
- Fees once paid are non-refundable.
- The fees will be forfeited if a student, after having been enrolled, leaves studies in between or fails to complete them successfully.
- The fees and other dues payable at the time of admission are mentioned in the admission letter itself and should be paid within 15 days of the issue of the admission letter.
- Late fee @ Rs.50 for every day of delay from the stipulated date will be levied upto 10 days and thereafter the studentship may be cancelled.