



**BANGALORE INSTITUTE OF WATERPROOFING  
AND BUILDING MATERIALS**  
(Skill Development- Training Center)

**SYLLABUS COPY**

**DIFFERENT COURSES TO BE OFFERED:**

1. Basics of waterproofing
2. Advanced waterproofing
3. Repairs, Rehabilitation
4. Building Materials
5. Practical applications

**COURSE STRUCTURE/OUTLINE FOR THE OFFERED COURSES**

**1) BASICS OF CIVIL ENGINEERING**

1. Measurements
2. Basics of concrete technology
3. Building Materials
4. Structural integrity and water pressure
5. Hydraulics and drainage
6. Construction practices
7. Testing and quality control

**1) BASICS OF WATERPROOFING**

1. What is waterproofing?
2. Steps in waterproofing



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3. Materials used in waterproofing
4. Waterproofing of various structures
5. System selection
6. Factors involved
7. Safety and precaution

### **2)ADVANCED WATERPROOFING TECHNIQUES**

1. Waterproofing of various structures
2. Cementitious waterproofing
3. Liquid waterproofing membranes
4. Bituminous waterproofing
5. Polyurethane waterproofing
6. Injection waterproofing
7. Sprayed waterproofing

*(Each technique to include Training on system selection, Process of application, Do's and don'ts during application, safety, value engineering and remedial measures)*

### **WATERPROOFING OF VARIOUS STRUCTURES**

1. Substructure waterproofing(basements and retaining walls)
2. Podium waterproofing
3. Wet area waterproofing
4. Swimming pool
5. Waterproofing in tanks
6. Terrace/roof waterproofing
7. Waterproofing and thermal insulation
8. External wall insulation
9. Repair and rehabilitation



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**3) REPAIRS AND REHABILITATION**

1. Causes of deterioration
2. Damage assessment
3. Investigation of damage
4. Evaluation of cracks
5. Types of testing (destructive /non-destructive)
6. Materials for repair
7. Techniques and maintenance of repair and retrofitting

**4) BUILDING MATERIALS/CONSTRUCTION CHEMICALS**

1. Introduction to construction chemicals
2. Categories of construction chemicals
  - Concrete Admixtures
  - Anticorrosive coatings
  - Sealants
  - Membranes
  - Tiling Solutions
  - Grouts
  - Geo fabrics
3. Special products