

ACMT - Syllabus Polytechnic

Examination: Associate Membership Examination in Civil Engineering

SECTION-A

Subject	Subject Code
Advanced Engineering Mathematics	AC 1.1
Advanced Strength of Materials	AC 1.2
Computer Programming and Numerical Methods	AC 1.3
Foundation Engineering	AC 1.4
Reinforced Concrete Structures & Advanced Concrete Technology	AC 1.5
Design of Steel Structures	AC 1.6

SECTION-B

Subject	Subject Code
Applied Hydraulics & Fluid Machines	BC 2.1
Machine Foundations	BC 2.2
Advanced Reinforced Concrete Design	BC 2.3
Optimization in Structural Design	BC 2.4
Environmental Engineering	BC 2.5

Elective Subjects – Any Five Subjects from the Following Groups

Group I –Building Construction

Advanced Design of Reinforced Concrete Structures	BCO 3.1
Advanced Design of Steel Structures	BCO 3.2
Prestressed Concrete Structures	BCO 3.3
Analysis and Design of Plate and Shell Structures	BCO 3.4
Design of Tall Buildings	BCO 3.5
Prefabricated Concrete Structures	BCO 3.6
Building Science	BCO 3.7

Group II – Highway Engineering

Road Transport Management	BCO 3.8
Traffic Engineering	BCO 3.9
Highways and Railways Engineering	BCO 3.10

Airports, Docks & Harbours	BCO 3.11
Bridge Engineering	BCO 3.12
Design of Foundation Structures	BCO 3.13
Group III – Environmental Engineering	
Pollution & Control Engineering	BCO 3.14
Unit Processes in Environmental Engineering	BCO 3.15
Industrial Waste Treatment & Disposal	BCO 3.16
Environmental Engineering Structures	BCO 3.17
Sanitary Engineering	BCO 3.18
Environmental Assessment Methodologies	BCO 3.19
Group IV – Irrigation & Drainage Engineering	
Irrigation Engineering	BCO 3.20
Ground Water Hydrology	BCO 3.21
Operation & Maintenance of Irrigation Structures (Hydraulic Structures)	BCO 3.22
Design & Drawing (Irrigation & Environmental Engineering)	BCO 3.23
Water Resource Management	BCO 3.24
Water Power Engineering	BCO 3.25

Examination: Associate Membership Examination in Architectural Engineering

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SECTION-B

Subject	Subject Code
Professional Practice & Architectural Engineering	BA 2.1

Finishes, Materials & Specifications	BA 2.2
Building Services	BA 2.3
Advanced Structural Design	BA 2.4
Environmental Engineering	BA 2.5
Elective Subjects – Any Five Subjects	
Elements of Town Planning & Architecture	BAO 3.1
Rehabilitation of Structures	BAO 3.2
Advanced Architectural Design	BAO 3.3
Interior Design	BAO 3.4
Landscape Architecture	BAO 3.5
Disaster Management for Buildings	BAO 3.6
Advanced Computer Application for Architecture	BAO 3.7
Climatology & Architecture	BAO 3.8

Examination: Technician Membership Examination in Civil Engineering

PART I

Subject	Subject Code
Basic Civil Engineering	TC 1.1
Technical Writing	TC 1.2
Engineering Physics & Applied Mechanics	TC 1.3
Engineering Mathematics	TC 1.4
Engineering Drawing	TC 1.5
Engineering Chemistry	TC 1.6

PART II

Subject	Subject Code
Surveying	TC 2.1
Fluid Mechanics & Machinery	TC 2.2
Soil Mechanics	TC 2.3
Mechanics of Solids	TC 2.4
Basic Structural Design	TC 2.5
Environmental Engineering	TC 2.6

Construction Technology	TC 2.7
Estimation, Costing & Specifications	TC 2.8
Civil Engineering Designs	TC 2.9

Examination: Technician Membership Examination in Architectural Engineering

PART I

Subject	Subject Code
Basic Architectural Engineering	TA 1.1
Technical Writing	TA 1.2
Engineering Physics & Applied Mechanics	TA 1.3
Engineering Mathematics	TA 1.4
Engineering Drawing	TA 1.5
Engineering Chemistry	TA 1.6

PART II

Subject	Subject Code
History of Architecture	TA 2.1
Free Hand Drawing & Painting	TA 2.2
Building Construction	TA 2.3
Structural Mechanics	TA 2.4
Theory of Structures	TA 2.5
Estimation and Costing	TA 2.6
Surveying & Levelling	TA 2.7
Architectural Design & Graphics	TA 2.8
Building Material & Science	TA 2.9
Environmental Engineering	TA 2.10