

# Diploma in Construction Technology

## Target Group

Advanced Level, physical science students (mathematics stream) who have obtained 3 passes.

## Provide

An excellent opportunity for youth to be qualified in construction field and obtain a higher diploma (NVQ Level 6) in Construction Technology.

## Create

Competency to investigate, plan and develop construction projects. Capacity for handling civil engineering projects related to building construction, road construction, irrigation development, hydro power construction, etc... Create confidence on Project Management and Leadership for managing the resources in construction field.

## Resource Persons

Eng.G.D.F.U.Perera	Head , International Training Institute of Irrigation and Water Management, Kothmale
Eng. S.M.D.L.K.De Alwis	Additional Secretary (Ministry of Mahaweli, Agriculture, Irrigation and Rural Development), Programme Director (PEISEIP)
Eng.W.G.Gnanadasa	Hydrologist, Agriculture Smart Project, Ministry of Agriculture
Mr. G.W. Chandrarathne	Senior Survey Superintendent , Survey Department
Dr.Ganila Paranawithaa	Senior Lecturer - OUSL
Dr.Muditha Pallewatta	Irrigation Engineer, Irrigation Department
Eng. E.M.K.N. Jayaweera	Executive Engineer (Road Development Authority)
Eng. B.M.W. Basnayake	Rtd. Civil Engineer (MASL)
Eng. E.M.R. Ekanayake	Rtd. Civil Engineer (BOC)
Eng.B.A. Sampath	Project Engineer , (Ministry of Mahaweli, Agriculture, Irrigation and Rural Development)
Mrs. B.B. Gamage	Rtd. Director, Technical College, Kandy

## Course Coordinator

Eng.N.W.P.W.Nanayakkara – Academic Coordinator

## Course Outline

### SEMESTER 01

Mathematics for Construction Technology  
Technical Drawing  
Structural Mechanics  
Hydraulics I  
Construction Materials  
Surveying & Leveling

Manage Workplace Information  
Manage Workplace Communication

## **SEMESTER 02**

Soil Mechanics  
Construction Planning  
Building Technology I  
Preparation Bill of Quantities, Budgeting and Estimating  
Highway Technology I  
Water Supply, Drainage & Sewerage  
Technology I  
Irrigation Technology I  
Plan Work to be Performed at Workplace

## **SEMESTER 03**

Structural Analysis & Fundamentals of Structural Design  
Hydraulics II & Hydrology  
Building Technology II  
Construction Plant & Earthwork Operations  
Temporary Structures  
Problem Solving and Decision Making  
Teamwork and Leadership

## **SEMESTER 04**

Advanced Soil Mechanics  
Concrete in Construction  
Construction Management  
Highway Technology II  
Water Supply, Drainage and Sewerage Technology II  
Irrigation Technology II & Land Reclamation.  
Creation & Maintenance of a Learning Culture

## **SEMESTER 05 & 06**

Field Training

