

The aim of the course is to introduce expert education and broad training to the management of construction industry in Sri Lanka. Professionals who have excelled in project management are taking part in this course to cater the industry needs.

Eligibility Requirement

An Honors Bachelor's degree in a relevant field of the University of Moratuwa. / Any other four year degree in a relevant field from a recognized University as recommended by the Faculty and approved by the Senate. / Any other three year degree in a relevant field from a recognized University, and a minimum period of one year appropriate experience after obtaining such degree as recommended by the Faculty and approved by the Senate. / Any recognized category of membership of a recognized professional Institute obtained through an academic route and with minimum of one year of recognized appropriate experience after obtaining such membership as recommended by the Faculty and approved by the Senate.

Course Fees

Tuition fee : Rs. 400,000/=

Registration fee : 2000/=

Library Deposit : 2000/= (non refundable)
2500/= (per item up to 6 items – optional & refundable)

Exam fee : 1000/=

(All fees should be paid in the registration)

Duration of the Course

- MSc in Construction Project Management – 24 months – Part time

All lectures, seminars, assignments and field trips will be conducted on Fridays and Saturdays.

For further details contact :

Course Coordinator : Dr. L.L. Ekanayake
cc-msc-cpm@uom.lk

Course Assistant : Ms. J.P.B.P. Silva
094-11-2650567 (Ext. 2216)
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Resource Personnel

● University of Moratuwa

Prof. K.A.M.K. Ranasinghe
B.Sc. Eng. (Moratuwa), MASC (BrCol), PhD (BrCol), CEng, IntPE, FIE(SL), FNAS(SL)

Prof. A.K.W Jayawardane
B.Sc. Eng. (Moratuwa), MSc (Lough), PhD (Lough), CEng, FIE(SL), IntPE, MSSE(SL), FNAS(SL), FIPM(SL)

Prof. N.D. Gunawardena
B.Sc. Eng. (Moratuwa), MSc (Lough), PhD (Lough), CEng, MIE(SL)

Prof. A.A.D.A.J. Perera
B.Sc. Eng. (Moratuwa), CEng, MSc (Lough), PhD (Lough)

Prof. (Mrs.) C. Jayasinghe
B.Sc. Eng. (Moratuwa), MEng (Moratuwa), PhD (Moratuwa) CEng, MIE(SL), MSSE(SL)

Prof. R.U. Halwatura
B.Sc. Eng. (Moratuwa), PhD (Moratuwa), CEng, MIE(SL)

Dr. L.L. Ekanayake
B.Sc. Eng. (Moratuwa), MSc (NUS), GDBA, PhD (NUS), CEng, MIE(SL)

Dr. C.S.A. Siriwardana
B.Sc. Eng. (Moratuwa), MSc (Tokyo), PhD (Calgary)

Prof. J.M.S.J. Bandara
B.Sc. Eng. (Moratuwa), PhD (Calgary), CEng, MIE(SL), FCILT

Prof. W.K.Mampearachchi
B.Sc. Eng. (Moratuwa), MSCE (South Florida), PhD (Florida)

Dr. S. Fernando
B.Sc. Eng. (Moratuwa), MSc (SL), MPhil (Moratuwa), PhD (Delft)

Dr. V. Adikariwattage
B.Sc. Eng. (Moratuwa), MSc (Moratuwa), PhD (Calgary)

Dr. P.T.R.S. Sugathadasa
B.Sc. Eng. (Hons) (Moratuwa), M.Sc. (Moratuwa), MBA (Colombo), PhD (Moratuwa), C Eng., PMP, CMILT, MIE (SL)

● Visiting Staff

Mr. J. Kumarasinghe
B.Com (Colombo), MSc. (NUS), CMA (Australia)

Eng. R.K.U.I. Ranaweera
B.Sc. Eng. (Moratuwa), MBA (Colombo), CFA Level I

Mr. M.V. Jayasinghe
MBA, B.Sc., ACMA, MCPM

Mr. A.W.I. Mendis
MBA (Moratuwa), B.Sc. Eng. (Moratuwa), MASHRAE, MIET, AMIESL, MSLEMA

Mr. S. Jayakody
MSc. (Saitama), B.Sc. Eng. (Moratuwa), MBA (Colombo)

Eng. N.T.P.K.G.S. Nanayakkara
C Eng., M.Sc. (CS), B.Sc. Eng. (Hons), BIT, MBCS, MIET, MIEEEE, MIsoc, MIE (SLO)

Mr. Prasanna Narangoda
B.Sc. Eng. (Hons) (Moratuwa), M.Sc.(UOM), MIESL, ASHRAE, MLABSE

Mr. Deepal Fernando
M.Sc. (Mech) Eng. (U.S.S.R.), C.Eng., MIE (SL)

Dr. Asanga Gunawansa
PhD (NUS), LL.M (Warwick), Attorney-at-Law (Sri Lanka)

Mr. H.D.J. Ashan Stanislaus
Master of Law (University of Colombo)



M.Sc in CONSTRUCTION PROJECT MANAGEMENT





● Short description of course modules

● CE5251 | Project Management I Credits: 3.0

Project Management Framework, Project Integration Management, Project Scope Management: Scope planning, Scope verification and Scope change control, Project Time Management: Activity sequencing, Activity duration, Scheduling and introduction to computer software. Project Cost Management: Resource planning, Cost estimating, Cost budgeting and Cost Controlling.

● CE5252 | Project Management II Credits: 3.0

Project Quality Management: Quality planning, Quality assurance and Quality control. Project Communication Management. Project Risk Management: Risk identification, Risk quantification, Risk response development and Risk response control. Project Human Resource Management. Project Procurement Management. Project Management Information Systems

● CE5253 | Management Information Systems Credits: 3.0

Organizations, management, and the networked enterprise, Digital firms, Information Technology Infrastructure, Building Information Systems, Managing and organizational support systems for the digital firm, Managing Information Systems in digital firm: Systems security, Ethical and social impact of information systems, International information systems.

● CE5254 | Procurement Management and Law Credits: 3.0

General Principles of Law, Law of Contract, Industrial law and law related to safety, Form of contracts (ICTAD), types of contracts and procurement methods, Conditions of contract: materials and workmanship, commencement time and delays, sub-contracts, Construction claims, remedies, Alterations, omissions and additions, Settlement of disputes and Arbitration procedure.

● CE5255 | Human Resource Management Credits: 3.0

Organization Structure, Individual in Organization, Communication and Problem Solving in Organizations, Groups in Organizations, Performance and change in Organizations, Leadership and Delegation in Organizations, Personnel and Conflict Management in Organizations, Building the Team.

● CE5256 | Project Management Applications Credits: 3.0

New methods of Project management: Agile project management, Prince 2 and other methods. Project Management Institution Guide. Project Management Systems such as Primavera, MS Project Server and Enterprise Resource Planning Systems (ERP).

● CE5257 | Construction Management Credits: 3.0

Work study: Activity sampling, method study and work measurement. Incentives, Equipment Management, ICTAD specifications and construction methods, Organization of the construction company and site management, Estimating and Tendering.

● CE5258 | Financial Management Credits: 3.0

Work study: Activity sampling, method study and work measurement. Incentives, Equipment Management, ICTAD specifications and construction methods, Organization of the construction company and site management, Estimating and Tendering.

● CE5259 | Economics and Development Finance Credits: 2.0

Theory of development finance in the context of real estate development and the financial market. Financial players in the market and their financial management strategies and risk management techniques. Capital for developer thorough private debt, public debt, private equity and public equity and their finance. Economic Appraisal and Economic Analysis.

● CE5260 | Communications Skill Development Credits: 2.0

Effective Writing, Effective Presentation, ICTAD Construction Management Communication formats for a construction project. IT related communication methods and in depth training on MS PowerPoint.

● CE5261 | Quantitative Techniques & Research Methodology Credits: 3.0

Statistics, Risk and Decision making, Sampling, Types and Hypothesis Testing, Simulating the F Distribution, Regression Analysis and Research methodologies.

● CE5271 | Advanced Methods in Building Construction Credits: 3.0

Tall building construction: Formwork methods, material storage and transportation. Design aspects of tall buildings. Facilities construction of tall buildings, lifts, central air-conditioning. Use of new materials in buildings, Health and safety related to tall building construction, Green buildings design and construction.

● CE5272 | Road and Bridge Engineering Credits: 3.0

Different construction materials used in roads and bridge construction. Different pavement types and pavement mix design. Alternative road construction, Gravel and earth Roads, concrete roads, Design and construction techniques, Pavement maintenance and management.

● CE5273 | Building Services and Asset Management Credits: 3.0

Design and construction of appropriate services, Technological fundamentals, Energy auditing and value management, Integration of services, Building management systems.

● CE5274 | Sustainable Design and Construction Credits: 3.0

Sustainability aspects, Renewable energy, Energy efficiency and resource optimization in built environment, Green building research and applications, Standards and certification protocols.

● CE5275 | Climate Change and Disaster Management Credits: 3.0

Climate change: research, trends and relevance to construction. Disaster situations, emergency projects, medium term disaster recovery projects and post disaster projects. Risk assessment, resource assessment, cost management in disaster recovery projects.

● CE5276 | Industrial and Commercial Law Credits: 3.0

General Principles of Law, Legal system in Sri Lanka, Law of Contract, Company Law and Commercial Law, Structure and Procedure, Administrative Tribunals and their scope, Law of Tort, Nature of Delictual Liability, Occupier's Liability.