



UNIVERSITY OF PERADENIYA

DEPARTMENT OF ENGINEERING MANAGEMENT

**Postgraduate Diploma/Master of the Science of Engineering**  
**in Construction and Project Management – 2016/2017**

Applications are invited for the postgraduate programme in **Construction and Project Management** for the academic year 2016/2017 intake.

**1.0 INTRODUCTION:**

The Department of Engineering Management is catering for the demands of the multidisciplinary roles that an engineer has to perform in current context by grooming the engineering undergraduates in managerial and soft transferable skill development. While contributing to the undergraduate programme, for the utilization of resources in a more effective manner and to contribute to the research and development sector in the field of engineering, the department is proposing a post graduate programme in the field of construction and project management to be commenced in 2016.

The Master of the Science of Engineering (M.Sc.Eng.) in Construction and Project Management is proposed for those already in the profession as project managers to advance in newest technologies of Construction and Project Management while enhancing their managerial skills and for those who start off their career to become Project Managers in various projects. The primary aim of this programme is to contribute to the demands of the society in the areas of construction and project management in both knowledge and skill requirements needed for project developers especially in the central region of Sri Lanka. Secondly, it is expected, by the contribution of a postgraduate programme that the research in the area of construction and project management will develop further to fill gaps in an advancing field of management. Thirdly, it is expected to effectively utilize the available resources, specially the human resources of the University of Peradeniya for conducting the programme. Strengthening the links of the university and industry specialist in the arena of construction and project management will be achieved as an indirect objective of this program.

**2.0 PROGRAMME AIMS AND OBJECTIVES:**

The overall aim of the programme is to provide a platform for the practicing engineers to contribute effectively for the development of research arena in the disciplines of construction and project

management and to allow them to acquire educational and professional qualifications, demanded by the industry, for their career progress.

### **3.0 AIMS OF THE PROGRAM**

#### **Aims of the program are**

- to cater to the needs of local Engineering Establishments and enhance collaboration between the Faculty and industry through an updated programme to meet the current requirements.
- to develop the Faculty of Engineering at Peradeniya as a centre of excellence in engineering projects and construction management related education/research/consultancy.
- to contribute to the research and development in the discipline of construction and project management.
- to cater for the CPD of practicing engineers and to enhance their quality as practicing managers.
- to cater for the demands of upgrading of the graduates of the Faculty of Engineering, University of Peradeniya (especially to enrol while serving as instructors to various departmental requirements).
- to utilize effectively the available resources offered by similar programs in the Faculty of Engineering by pooling and sharing of resources and to utilise fixed assets of the faculty effectively.

### **4.0 SPECIFIC OBJECTIVES**

The specific objectives of the program are to enhance the capabilities of the participants in the areas of:

- project planning, scheduling and monitoring
- contract strategy , legal & administration framework
- in-depth knowledge in management related to managing projects effectively
- human and financial resources management
- cost, time, quality and risk management of projects
- technology related to managing projects

### **5.0 COURSES:**

| No                        | Course Code | Course Title  | Lecture (hrs) | In-class Assignment (hrs) | Credits |
|---------------------------|-------------|---|---------------|---------------------------|---------|
| <b>Compulsory Courses</b> |             |   |               |                           |         |
| 01                        | MA601       | Project Management –Theory & Practice               | 30            | 30                        | 3       |
| 02                        | MA602       | Contract Strategy & Administration                  | 30            | 30                        | 3       |
| 03                        | MA603       | Financial Management &Marketing                     | 30            | 30                        | 3       |
| 04                        | MA 604      | Human Resources Management                          | 30            | 30                        | 3       |
| 05                        | MA 605      | Construction Technology                             | 30            | 30                        | 3       |
| 06                        | MA 606      | Infrastructure Planning, Development and Management | 30            | 30                        | 3       |
|                           |             |   |               |                           |         |

| Optional Courses |        |  |    |    |   |
|------------------|--------|--|----|----|---|
| 07               | PR 607 | Quality Planning and Management <sup>(1)</sup> | 35 | 20 | 3 |
| 08               | MA 632 | Risk & Value Management                        | 24 | 12 | 2 |
| 09               | MA 633 | Dispute Resolution in Construction Contracts   | 24 | 12 | 2 |
| 10               | MA 634 | Advanced Project Planning & scheduling         | 20 | 20 | 2 |
| Dissertation     |        |  |    |    |   |
| 11               | MA 650 | Research Study <sup>(2)</sup>                  |    |    | 6 |
| 12               | MA 651 | Independent Study <sup>(3)</sup>               |    |    | 2 |
| 13               | MA 652 | Research Methods <sup>(4)</sup>                | 25 | 10 | 2 |

*Notes:*

- (1) Offer under Postgraduate Programme in Engineering Management, Department of Production Engineering, Faculty of Engineering, University of Peradeniya, Peradeniya.
- (2) Applicable for students those who are aiming M.Sc. Eng. Programme.
- (3) Applicable for students those who are aiming PG.Dip. programme.
- (4) Compulsory non GPA course applicable for all students.

## 6.0 ADMISSION REQUIREMENTS:

### Postgraduate Diploma in Construction and Project Management (PG.Dip.)

- (a) Four-year Bachelor's Degree in Engineering or equivalent degree acceptable to the Faculty Higher Degrees Committee
- or
- (b) Such other qualification as may be approved by the Faculty Higher Degrees Committee as suitable for candidature for PG.Dip. in a field related to the programme of study.

### Degree of Master of the Science of Engineering in Construction and Project Management (M.Sc.Eng.)

- (a) Four-year Bachelor's Degree in Engineering with First or Second Class Honours or
- (b) Four-year Bachelor's Degree in Engineering with postgraduate qualifications acceptable to the Faculty Higher Degree Committee, or
- (c) Other qualification equivalent to four-year Bachelor's Degree in Engineering as may be approved by the Faculty Higher Degrees Committee with a minimum of one year's experience in a field related to the programme of study after obtaining the Degree or such qualification

## 7.0 ELIGIBILITY AND DURATION:

### Course Requirements

The requirements for successful completion of respective Diploma/Degree programmes are as follows:

### **Postgraduate Diploma (PG.Dip.):**

In order to be eligible for the award of the PG.Dip. Degree a student shall have a total of 18 credits (minimum) earned from prescribed courses with at least 2.75 GPA and successful completion of an independent study (2 credits).

#### **Minimum and Maximum Duration:**

The minimum period for the completion of PG.Dip. Programme is eight (8) months. To be eligible for the award of the postgraduate Diploma a student shall fulfil all stipulated requirements within two academic years from the date of registration.

### **Degree of Master of the Science of Engineering (M.Sc.Eng.):**

In order to be eligible for the award of the M.Sc.Eng. Degree, a student shall have

- (a) a total of 24 credits earned from prescribed courses with a grade point average of at least 3.0, and
- (b) successfully completed a full-time research study of six (6) months duration or its equivalent on part time-basis (6 credits).

#### **Minimum and Maximum Duration:**

The minimum period for the completion of the M.Sc.Eng. programme is twelve (12) months. In order to be eligible for the award of the Degree of M.Sc.Eng., a student shall fulfil all stipulated requirements within three academic years from the date of registration.

## **8.0 APPLICATION PROCEDURE**

Applications for enrolment must be made on the prescribed forms obtainable from the Assistant Registrar, Faculty of Engineering, University of Peradeniya. The duly completed application should be submitted to the Assistant Registrar, Faculty of Engineering, University of Peradeniya.

The eligibility of an applicant to enrol in the Masters/Diploma programmes will be determined by the University on the basis of the particulars given in the application. The particulars of the relevant academic/professional qualifications claimed by the candidate should be supported by academic transcripts, marks sheets and originals of certificates as appropriate. Transcripts would be required from all higher educational institutions that the applicant has attended.

#### **Notes:**

- The applicant is required to make arrangements with the academic institutions concerned to send official copies of transcripts directly to the Assistant Registrar, Faculty of Engineering.
- Where photocopies of documents have been submitted at the time of application, the original documents should be presented to the Assistant Registrar, Faculty of Engineering before admission to the postgraduate programme.

- The applicant is required to submit the following items along with the duly filled application.  
*Degree/Diploma/Professional membership certificate(s) (photocopies)*  
*Birth certificate (Original and a photocopy)*  
*Four copies of passport-size colour photograph of you*
- The applicant is also required to arrange to send separately and under confidential cover, two letters of recommendation.
- In the event of a discrepancy between the name/s appearing in the applicant's academic/professional/birth certificates and the name given in the application, an affidavit to the effect that the applicant is the one and the same person known by all such names should accompany the application form.
- Applications that are received late, incomplete or carry false information are liable to be rejected.
- All documents submitted in support of an application shall be the property of the University of Peradeniya.
- The applicants will be informed of their acceptance/non-acceptance to the programme for which admission has been sought.
- The University may at its discretion refuse admission to any applicant.

#### **9.0 REGISTRATION AND EVALUATION**

- Registration and evaluation of the students will be in accordance with the “ General regulation for the Postgraduate Programmes in the Faculty of Engineering, University of Peradeniya, Peradeniya, Sri Lanka” or its revised version.

**10.0 TEACHING PANEL:**

| <u>Name</u>                 | <u>Qualifications</u>   |
|-----------------------------|---|
| Dr. A. L. M. Mauroof        | B.Sc.Eng., M.Eng., D.Eng., C.Eng., MIE (SL), MISE (SL)  |
| Dr. I.M.S. Sathyaprasad     | B.Sc.Eng., M.Eng., D.Eng.   |
| Dr. N.K.B.M.P. Nanayakkara  | B.Sc. Eng., Ph.D.   |
| Dr. (Mrs.) R. A. Ekanayake  | B.Sc.Eng., Ph.D.  |
| Dr. N. Jayamaha             | B.Sc.Eng., MBA, M.Eng., Ph.D.   |
| Dr. (Mrs.) K. Perera        | B.Sc., M.Sc., Ph.D.   |
| Eng. M.D.S. Wijayabandara   | B.Sc. Eng., C.Eng., MIP (German), MIE (SL), MICE (UK),  |
| Dr. P.B.G. Dissanayake      | B.Sc. Eng., Ph.D., MIE Aust, AMIE (SL)  |
| Eng. S.D. Tennakoon         | B.Sc.Eng., M.Eng. (Const. Mgt), C.Eng., MIE (SL)  |
| Eng. (Dr.) S.B. Wijekoon    | B.Sc.Eng., M.Eng., MBA, D.Tech., C.Eng., FIE(SL), MICE (Lond), Int.PE(SL), FIPM(SL), Dip in Com.Arbitration |
| Eng. (Ms.) K. K. K. Sylva   | B.Sc.Eng., M.Eng., MBA, AMIE (SL)   |
| Eng. S. M. Dissanayaka      | B.Sc.Eng., M.Phil ( Const. Mgt), AMIE (SL)  |
| Eng. K. M. U. B. Kulasekara | B.Sc.Eng., PG.Dip. (Industrial Safety), PG.Dip. (OSH Management), MIE (SL)                                  |
| Ms. S.Kodithuwakku          | B.Com. (Kel), M.Com.(Kel)   |
| Ms. Anoma Kolongahapitiya   | B.Com. (Pdn), MA (Pdn)  |

**11.0 SCHEDULE**

Postgraduate programme will be conducted on part-time basis during the weekend (Saturdays and Sundays) from 8.30am to 6.30pm commencing from May 2016.

## 12.0 COURSE FEES

- (a) **Postgraduate Diploma (PG.Dip.)** = Rs.200,000/=
- (b) **Degree of Master of the Science of Engineering (M.Sc. Eng.)** = Rs. 250,000/=

In addition to above fee a refundable library deposit of Rs. 10,000/= should be paid at the time of the registration for the postgraduate programme.

## 13.0 APPLICATION

Applications can be obtained from the Senior Assistant Registrar, Faculty of Engineering, University of Peradeniya or download from the Department web site (<http://eng.pdn.ac.lk/management/>). Dully completed application should be sent to **Senior Assistant Registrar, Faculty of Engineering, University of Peradeniya, Peardeniya** on or before **24-02-2016** by registered post. Please indicate “**PG Programme in Engineering Management**” on the top left hand corner of the envelop.

## 14.0 PROGRAMME COORDINATION

Please contact Eng. (Ms.) K. K. K. Sylva, Senior Lecturer/ Programme Coordinator, Department of Engineering Management (Tel: 0777 – 905850, or Email: [kamanisylva@pdn.ac.lk](mailto:kamanisylva@pdn.ac.lk)) for further details.

## 15.0 GENERAL INFORMATION

Please refer the web site of Centre for Engineering Research and Postgraduate Studies:  
<http://eng.pdn.ac.lk/cerps/>

**Senior Assistant Registrar/ Faculty of Engineering**