SUBJECT DESCRIPTION FORM

Subject title: Principles of Project Management

Subject code: BRE506

Credit value: 3

Responsible staff and department:
Prof. Albert Chan, Dr. Linda Fan and Dr. Daniel Chan (BRE)

Pre-requisite (Subject title and code no, if any): Nil

Recommended background knowledge:
Students are expected to possess knowledge of the construction and real estate industries, for example, completion of a degree in a built-environment discipline.

Mutual exclusions Project Management (BRE503)

Learning approach:
The course will consist of a series of lectures and tutorials for the introduction of concepts and theory of project management. In addition, case studies will be introduced to reflect the real life examples of project management and techniques.

- Lectures/seminars
- Tutorials/on-line tutorials
- Workshops
- Independent study
  - Assignments
  - Self-study

Assessment:
Continuous assessment 60%
  Discussion and presentation
  Group report and reflective journal
Examination 40%

Objectives:
On completion of this subject the student should be able to:
- understand principles of Project Management Body of Knowledge (PMBOK);
- learn the skills in managing projects with cross-functional teams and external parties;
- apply the project management techniques at work places aiming at shorter lead time, reduced costs, improved quality and enhanced relationship with the concerned parties.
Keyword syllabus:

Overview of project management: characteristics of project; characteristics of project management; defining project management; responsibilities of project managers; meaning of PMBOK.

Project integration management: definition of integration management; project stakeholders; project objectives and trade-offs; project life cycles; project plan; project execution; overall project change.

Project scope management: meaning of scope; development of a project charter; scope statement; work breakdown structure (WBS).

Project time management: project master schedules; logic networks; methodology for network analysis; identifying the critical path; schedule control.

Project cost management: meaning of cost management; process of cost management; resource planning; cost estimating; cost budgeting; cost control; value management.

Project quality management: source of failure; possible causes for cost related errors; overview of quality management; quality planning; quality assurance; quality control.

Project human resource management: overview of project human resource management; organizational planning; staff acquisition; team development.

Project communications management: general communication concept; process of project communication; best practice for project communication.

Project risk management: process of project risk management; risk identification; risk quantification; risk response development; risk response control.

Project procurement management: process of procurement management; procurement planning; solicitation planning; solicitation; source selection; contract administration; contract close-out.

Indicative reading list and references:


Frederick Harrison and Dennis Lock 2004. Advanced project management: a structured approach.


Scott Berkun 2005. The art of project management.

Gary Heerkens 2006. The business-savvy project manager: indispensable knowledge and skills for success.

Paul A. Tedesco 2006. Common sense in project management.

Thomas E. Uher and Martin Loosemore 2004. Essentials of construction project management.


A guide to the project management body of knowledge (PMBOK guide) 2002.

Erling S. Andersen, Kristoffer V. Grude, Tor Haug 2004. [electronic resource]. Goal directed project management effective techniques and strategies