King Saud University
Engineering College
Civil Engineering Department

CE610: Advanced Topics of Value Management
First semester 1433/1434

Instructor
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Aim
The aim of this course is to develop students' understanding of the principles of Value Management including the essential skills, tools and techniques.

Expected learning outcomes

Knowledge & Understanding
On completion of the course students should have:
   a) VM knowledge; and
   b) understanding VM applications.

Intellectual Ability
On completion of the course students should be able to:
   a) be a competent value analysis facilitator;
   b) plan and manage a VM study;
   c) report on the outcome of VM workshops;
   d) understand the nature of client value systems;
   e) use function analysis to identify the objectives of projects;
   f) conduct stakeholder analysis;
   g) work with and manage a VM team to produce multiple innovative alternatives and solutions in response to key stakeholder requirements and expectations;
   h) generate innovative alternatives ideas; and
   i) develop project charter.

Practical Skills
On completion of the course students should be able to:
   a) select and apply evaluation and decision support tools and techniques;
   b) execute function analysis combining with FAST diagrams;
   c) practice the basic value skills and understand their conduction to management subjects;
   d) understand the skills required for facilitation, effective participation in a Value Management study;
   e) enhance students' capability for developing an appropriate VM program for organisation and client; and
General Transferable Skills

On completion of the course students should be able to effectively:

a) communicate orally and in writing;
b) participate as an active team member;
c) manage the determined time within a VM workshop; and
d) identify personal strength and weakness within a team

Content

An introduction to value management; an introduction to value theory; project charter development; stakeholder analysis; definition of the creative and structured phases of value management; the workshop approach to achieving value; function analysis; FAST diagram; brain storming; criteria scoring matrices; cost modeling; and client value systems; soft value management; hard value management; VM and VE applications, facilitation & consensus, team dynamics.

Teaching and Learning

A combination of lectures, case studies, small group-based interactive discussions and student presentations, coursework and background reading

Grading

Final Examination (50%)
Attendance & Participation (10%)
Group course work presentation (20%)
3000 word value management report (20%)

Recommend Reading List

The booklet written by the instructor


Internet sources and peer reviewed journal

Regulations

a. Plagiarism will be heavily punished. Do not use reports from other sources for this course. No internet Cut-and-Paste.
b. Properly edit report English text and review its style and format. Sloppy report will not be marked.
c. Reference all material properly. Use the ASCE reference style.