



## Shanghai Jiao Tong University

### TR401 Engineering Project Management

<b>Term:</b>	December 16, 2019- January 7, 2020	<b>Credits:</b>	4 units
<b>Classroom:</b>	TBD	<b>Teaching Assistant(s):</b>	TBD
<b>Class Hours:</b>	Monday through Friday, 160 mins per teaching day		
<b>Discussion Sessions:</b>	2 hours each week, conducted by teaching assistant(s)		
<b>Total Contact Hours:</b>	64 contact hours (1 contact hour = 45 mins, 2880 mins in total)		
<b>Suggested Texts (with ISBN):</b>	Meredith, JR & Mantel, S (2014), <i>Project management: A managerial Approach</i> , 9th Edition, Wiley. ISBN : 978-0-470-53302-4		
<b>Prerequisite:</b>			



## Course Overview

The context and learning of the course will prepare participants with competencies to operate in a range of industries and apply the project management skills to projects, including engineering, information technology, consulting, production, procurement, maintenance, logistics and supply chain, defence, construction, and manufacturing. The focus on providing competence in core areas of stakeholder, scope, time, cost and quality management, and facilitating areas of risk, procurement, HR, integration, and communication management is to provide competence in participants to confidentially deal with the ever-growing challenges of modern day project management. The main model followed it is the international Project Management Body of Knowledge (PMBOK). Participants will be expected to relate the application of PMBOK directly to projects from their experience, and as a course assignment will be able to apply what they have learnt to an actual work place project.

## Learning Outcomes

1. Know and understand the basic content and techniques of the discipline of project management such that stakeholder needs, scope, time, cost, quality, risk, procurement, human resources, communications, and the integration of these are appropriately addresses;
2. Choose and use the models for project management and best practice in the choice of an appropriate project delivery system;
3. Competently work in teams and communicating the output to stakeholders and the community and provide leadership in the community and support of community involvement in projects;
4. Demonstrate continued learning and personal development;
5. Recognise ethical, social and cultural issues and their importance for project managers.

## Grading Policy

Individual short report	40%
Group project plan	30%
Project Closure Report	30%

Grading Scale is as follows:

Number grade	Letter grade	GPA
90-100	A	4
85-89	A-	3.7
80-84	B+	3.3



75-79	B	3
70-74	B-	2.7
67-69	C+	2.3
65-66	C	2
62-64	C-	1.7
60-61	D	1
$\leq 59$	F (Failure)	0



## Class Schedule

Date	Lecture
Day 1	Introduction - Project Context and Basics
Day 2	Project Selection and Management Models
Day 3	Project Integration Management
Day 4	Project Scope Management
Day 5	Project Time Management
Day 6	Project Cost Management
Day 7	Project Quality Management
Day 8	Project Delivery Systems
Day 9	Project Risk Management
Day 10	Project Procurement Management
Day 11	Project Organisation
Day 12	Project Human Resources Management
Day 13	Project Stakeholder Management
Day 14	Project Communication Management
Day 15	Course Review and Feedback