

Tamkang University Academic Year 102, 2nd Semester Course Syllabus

Course Title	PROJECT PLANNING AND CONTROL	Instructor	FAN, SU-LING
Course Class	TECBB3A DEPARTMENT OF CIVIL ENGINEERING-DIVISION OF BUILDING BUSINESS, 3A	Details	<ul style="list-style-type: none"> ◆ Selective ◆ One Semester ◆ 3 Credits
D e p a r t m e n t a l A i m o f E d u c a t i o n			
<p>I . Develop students' ability and knowledge of civil engineering to meet the requirements of employability and further education.</p> <p>II. Enable students to have management knowledge and literacy to meet challenges of workplace.</p> <p>III. Equip students with the information technology skills to strengthen their competitiveness.</p> <p>IV. Develop students' literacy of Literature, Art, Language, History, Society, Politics, Futurology, International Situation, Religious Law, Nature and such general courses to have the understanding of humanity emotions and to proceed on-going development.</p>			
D e p a r t m e n t a l c o r e c o m p e t e n c e s			
<p>A. Each student should have the professional knowledge of engineering and be able to solve related problems with the logics of mathematics and mechanics.</p> <p>B. Each student should have civil engineering design and analysis capabilities.</p> <p>C. Each student should be able to operate measuring instrument and engineering materials experiments, and be able to analyze the data.</p> <p>D. Each student should be able to solve engineering problems with basic information technology.</p> <p>E. Each student should have practical knowledge of construction, understand the importance of teamwork; and have respect for professional ethics and understand the code and responsibility of morality.</p> <p>F. Each student should understand the interaction of engineering and environment, social interaction, and proceed lifelong learning.</p> <p>G. Each student should have the training and experience of Interdisciplinary knowledge and understand the importance of integration of technology to modernization and future development of engineering.</p> <p>H. Each student should understand the international trends, and be capable to continually improve foreign language skills.</p>			

Course Introduction	An introduction to the knowledge body consists of the basic concept of scheduling models, Bar-charts, CPM and PERT, Work Breakdown Structure, RBS(Resource Breakdown Structure) · CBS(Cost Breakdown Structure) ,Calendars and Resource Calendar, Resource leveling and allocation, Earn Value Management, Format settings , reports and schedule updating.
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The Relevance among Teaching Objectives, Objective Levels and Departmental core competences

I.Objective Levels (select applicable ones) :

- (i) Cognitive Domain : C1-Remembering, C2-Understanding, C3-Applying,
C4-Analyzing, C5-Evaluating, C6-Creating
- (ii) Psychomotor Domain : P1-Imitation, P2-Mechanism, P3-Independent Operation,
P4-Linked Operation, P5-Automation, P6-Origination
- (iii) Affective Domain : A1-Receiving, A2-Responding, A3-Valuing,
A4-Organizing, A5-Charaterizing, A6-Implementing

II.The Relevance among Teaching Objectives, Objective Levels and Departmental core competences :

- (i) Determine the objective level(s) in any one of the three learning domains (cognitive, psychomotor, and affective) corresponding to the teaching objective. Each objective should correspond to the objective level(s) of ONLY ONE of the three domains.
- (ii) If more than one objective levels are applicable for each learning domain, select the highest one only. (For example, if the objective levels for Cognitive Domain include C3,C5,and C6, select C6 only and fill it in the boxes below. The same rule applies to Psychomotor Domain and Affective Domain.)
- (iii) Determine the Departmental core competences that correspond to each teaching objective. Each objective may correspond to one or more Departmental core competences at a time. (For example, if one objective corresponds to three Departmental core competences: A,AD, and BEF, list all of the three in the box.)

No.	Teaching Objectives	Relevance	
		Objective Levels	Departmental core competences
1	Students will be able to summarize concepts covered in the following topics: the basic concept of scheduling models, Bar-charts, CPM and PERT, Work Breakdown Structure, RBS(Resource Breakdown Structure) · CBS(Cost Breakdown Structure) ,Calendars and Resource Calendar, Resource leveling and allocation, Earn Value Management, Format settings , reports and schedule updating.	C3	ABCDEFGH
2	Students will be able to interpret in-depth issues such as: Lean Construction, Smart Building and Building Information Modeling.	C1	ABCDEFGH

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
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1	Students will be able to summarize concepts covered in the following topics: the basic concept of scheduling models, Bar-charts, CPM and PERT, Work Breakdown Structure, RBS(Resource Breakdown Structure) · CBS(Cost Breakdown Structure) ,Calendars and Resource Calendar, Resource leveling and allocation, Earn Value Management, Format settings , reports and schedule updating.	Lecture, Discussion, Simulation, Practicum, Problem solving	Written test, Practicum, Report, Participation
2	Students will be able to interpret in-depth issues such as: Lean Construction, Smart Building and Building Information Modeling.	Lecture, Discussion, Appreciation, Simulation, Practicum, Visit, Problem solving	Written test, Practicum, Participation

This course has been designed to cultivate the following essential qualities in TKU students

Essential Qualities of TKU Students	Description
◆ A global perspective	Helping students develop a broader perspective from which to understand international affairs and global development.
◆ Information literacy	Becoming adept at using information technology and learning the proper way to process information.
◆ A vision for the future	Understanding self-growth, social change, and technological development so as to gain the skills necessary to bring about one's future vision.
◇ Moral integrity	Learning how to interact with others, practicing empathy and caring for others, and constructing moral principles with which to solve ethical problems.
◆ Independent thinking	Encouraging students to keenly observe and seek out the source of their problems, and to think logically and critically.
◆ A cheerful attitude and healthy lifestyle	Raising an awareness of the fine balance between one's body and soul and the environment; helping students live a meaningful life.
◆ A spirit of teamwork and dedication	Improving one's ability to communicate and cooperate so as to integrate resources, collaborate with others, and solve problems.
◆ A sense of aesthetic appreciation	Equipping students with the ability to sense and appreciate aesthetic beauty, to express themselves clearly, and to enjoy the creative process.

Course Schedule

Week	Date	Subject/Topics	Note
1	103/02/17 ~ 103/02/23	Scheduling Models and Network Techniques	
2	103/02/24 ~ 103/03/02	Duration Estimation	
3	103/03/03 ~ 103/03/09	Logics	

4	103/03/10 ~ 103/03/16	Bar –Chart and Network(Formatting)	
5	103/03/17 ~ 103/03/23	Calendars	
6	103/03/24 ~ 103/03/30	Constrains	
7	103/03/31 ~ 103/04/06	Work Breakdown Structure	
8	103/04/07 ~ 103/04/13	Resource Allocation and Leveling	
9	103/04/14 ~ 103/04/20	Resource Calendars	
10	103/04/21 ~ 103/04/27	Midterm Exam Week	
11	103/04/28 ~ 103/05/04	Earned Value Management	
12	103/05/05 ~ 103/05/11	RBS(Resource Breakdown Structure)	
13	103/05/12 ~ 103/05/18	CBS(Cost Breakdown Structure)	
14	103/05/19 ~ 103/05/25	Filtering	
15	103/05/26 ~ 103/06/01	Print Setting and Reports	
16	103/06/02 ~ 103/06/08	Scheduling Updating	
17	103/06/09 ~ 103/06/15	Scheduling Control	
18	103/06/16 ~ 103/06/22	Final Exam Week	
Requirement			
Teaching Facility		Computer	
Textbook(s)			
Reference(s)			
Number of Assignment(s)		(Filled in by assignment instructor only)	
Grading Policy		◆ Attendance : 20.0 % ◆ Mark of Usual : 40.0 % ◆ Midterm Exam : 20.0 % ◆ Final Exam : 20.0 % ◆ Other 〈 〉 : %	

Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at http://info.ais.tku.edu.tw/csp or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at http://www.acad.tku.edu.tw/CS/main.php.</p> <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>
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