

Tamkang University Academic Year 106, 2nd Semester Course Syllabus

Course Title	LITERATURE OF SCIENCES AND TECHNOLOGIES	Instructor	LING-LING LAI
Course Class	TABXB3B DEPARTMENT OF INFORMATION AND LIBRARY SCIENCE, 3B	Details	◆ Required ◆ 2nd Semester ◆ 2 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			
Our mission is to educate and train library and information professionals.			
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			
A. To understand concepts relating to library and information science and to grasp the relevant trends. B. To acquire professional abilities to develop, organize, preserve and integrate all sorts of information resources. C. To understand concepts relating to information technology and systems, and be able to put them in use. D. To acquire communication and coordination skills required for the information services. E. To acquire management skills required by different types of libraries and information organizations. F. To acquire professional skills to manage electronic documents and archives. G. To acquire integration ability of library services and traditional publishing. H. To acquire integration ability of library services and digital publishing.			
Course Introduction	This course is a continual study of resources for the science and technology. With the understanding of various types of literature (such as technical reports, patents, conference proceedings, dissertations, etc.) in science and technology from the previous semester, we will now focus on selected subjects in science and technology and their reference tools in this semester.		

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-Characterizing, 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	This course is a continual study of resources for the science and technology. With the understanding of various types of literature in science and technology from the previous semester, we will now focus on selected subjects in science and technology and the use of information in various disciplines.	C4	BD

Teaching Objectives, Teaching Methods and Assessment

No.	Teaching Objectives	Teaching Methods	Assessment
1	This course is a continual study of resources for the science and technology. With the understanding of various types of literature in science and technology from the previous semester, we will now focus on selected subjects in science and technology and the use of information in various disciplines.	Lecture, Discussion, Problem solving	Report, 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	107/02/26 ~ 107/03/04	Introduction to the course	
2	107/03/05 ~ 107/03/11	Scientific Communication	
3	107/03/12 ~ 107/03/18	Information Needs of University Students Studying Science and Technology	
4	107/03/19 ~ 107/03/25	Providing Information Literacy Instruction to Graduate Students	
5	107/03/26 ~ 107/04/01	Information use in mathematics	
6	107/04/02 ~ 107/04/08	Issues in Science and Technology Librarianship (1)	
7	107/04/09 ~ 107/04/15	Issues in Science and Technology Librarianship (2)	
8	107/04/16 ~ 107/04/22	Campus Closed	
9	107/04/23 ~ 107/04/29	Issues in Science and Technology Librarianship (3)	
10	107/04/30 ~ 107/05/06	Midterm Exam Week	
11	107/05/07 ~ 107/05/13	Information use in computer science and engineering	
12	107/05/14 ~ 107/05/20	Information use in food science	

13	107/05/21 ~ 107/05/27	Invited Talk	
14	107/05/28 ~ 107/06/03	Presentation: Interview a Scientist (1)	
15	107/06/04 ~ 107/06/10	Presentation: Interview a Scientist (2)	
16	107/06/11 ~ 107/06/17	Presentation: Interview a Scientist (3)	
17	107/06/18 ~ 107/06/24	Wrap up	
18	107/06/25 ~ 107/07/01	Final Exam Week	
Requirement			
Teaching Facility		Computer	
Textbook(s)		To be distributed in class.	
Reference(s)		To be distributed in class.	
Number of Assignment(s)		(Filled in by assignment instructor only)	
Grading Policy		◆ Attendance : 20.0 % ◆ Mark of Usual : 15.0 % ◆ Midterm Exam : 30.0 % ◆ Final Exam : 35.0 % ◆ Other < > : %	
Note		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 . ※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.	