Tamkang University Academic Year 108, 2nd Semester Course Syllabus

Course Title	INFORMETRICS	Instructor	LIN, WEN-YAU
Course Class	TABXM2A MASTER'S PROGRAM, DEPARTMENT OF INFORMATION AND LIBRARY SCIENCE, 2A	Details	◆ General Course ◆ Selective ◆ One Semester

Departmental Aim of Education

Our mission is to prepare and educate future professionals in the areas of management and research for library and information service industries.

Subject Departmental core competences

A. To grasp concepts relating to library and information science and relevant trends, and to acquire research and leading abilities.(ratio:25.00)

B. To acquire professional abilities to develop, organize, preserve and integrate all sorts of information resources, and management and leadership skills required by all sorts of libraries and information organizations.(ratio:25.00)

C. To understand concepts relating to information technology and be able to put them in use. (ratio:40.00)

E. To acquire integration and R&D abilities of library services, publishing and digital content. (ratio:10.00)

Subject Schoolwide essential virtues

1. A global perspective. (ratio:30.00)

2. Information literacy. (ratio:50.00)

5. Independent thinking. (ratio:20.00)

Course Introduction	This class introduces various perspectives on informetrics. The primary focus is to explore its theoretical aspects, as well as the applications of scholarly communication, patent analysis, Web usage, and library management.

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II.Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	1. understand informetrics in theoretical and practical aspects	Cognitive
2	2. gain knowledge of current issues, debates, and trends in informetrics	Cognitive
3	3. become familiar with the processes to conduct a informetrics research	Cognitive

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCE	125	Lecture, Discussion	Discussion(including classroom and online)
2	ABCE	125	Lecture, Discussion	Discussion(including classroom and online)
3	ABCE	125	Lecture, Discussion	Discussion(including classroom and online)

Course Schedule

Week	Date	Course Contents	Note
1	109/03/02 ~ 109/03/08	Introduction of the course	
2	109/03/09 ~ 109/03/15	Informetrics in general	
3	109/03/16 ~ 109/03/22	Scholarly communication and informetrics	
4	109/03/23 ~ 109/03/29	Laws in informetrics	
5	109/03/30 ~ 109/04/05	Citation analysis: general, data and tools	
6	109/04/06 ~ 109/04/12	Citation analysis: science indicators	
7	109/04/13 ~ 109/04/19	Citation analysis: empirical studies	
8	109/04/20 ~ 109/04/26	Altmetrics	

9	109/04/27 ~ 109/05/03	Midterm	
10	109/05/04 ~ 109/05/10	Patentometrics: general	
11	109/05/11 ~ 109/05/17	Patentometrics: empirical studies and the trends	
12	109/05/18 ~ 109/05/24	Webometrics: general, empirical studies and the trends	
13	109/05/25 ~ 109/05/31	Webometrics: empirical studies and the trends	
14	109/06/01 ~ 109/06/07	Applications in library management	
15	109/06/08 ~ 109/06/14	Applications in S&T policy and research evaluation	
16	109/06/15 ~ 109/06/21	Term paper presentation	
17	109/06/22 ~ 109/06/28	Term paper presentation	期末考試週
18	109/06/29 ~ 109/07/05	Supplementary teaching (Asynchronous E-learning: Wrap up)	

Requirement	
Teaching Facility	Computer, Projector
Textbooks and Teaching Materials	課堂講義、期刊文獻、報告、書籍等之指定閱讀教材
References	Bellis, N. D. (2009). Bibliometrics and citation analysis : from the Science citation index to cybermetrics. Lanham, Md.: Scarecrow Press. Borgman, C. L. (Ed.). (1990). Scholarly communication and bibliometrics. Newbury Park: Sage Publications. Cronin, B., & Atkins, H. B. (Eds.). (2000). The web of knowledge: A Festschrift in honor of Eugene Garfield. Medford, NJ.: Information Today. Eom, S. B. (Ed.). (2009). Author cocitation analysis: Quantitative methods for mapping the intellectual structure of an academic discipline. Hershey, PA: Information Science Reference. Leydesdorff, L. (2001). The challenge of scientometrics: The development, measurement, and self-organization of scientific communications (2nd ed.). Parkland, Fla.: Universal Publishers. 陳光華（2006）。引文索引之建置與應用。台北市：文華。 蔡明月（2003）。資訊計量學與文獻特性。台北市：國立編譯館。 Turabian, K. L. (2015)。Chicago 論文寫作格式：Turabian手冊（邱炯友、林雯瑤等譯）。台北市：書林。（原作2013年出版）

Number of Assignment(s)	(Filled in by assignment instructor only)
Grading Policy	◆ Attendance： 10.0 % ◆ Mark of Usual： % ◆ Midterm Exam： % ◆ Final Exam： 45.0 % ◆ Other〈Literature review〉：45.0 %
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.**