

Tamkang University Academic Year 110, 1st Semester Course Syllabus

Course Title	ARTIFICIAL INTELLIGENCE FOR TEXT ANALYTICS	Instructor	
Course Class	TLMXM1A MASTER'S PROGRAM, DEPARTMENT OF INFORMATION MANAGEMENT, 1A	Details	<ul style="list-style-type: none"> ◆ General Course ◆ Selective ◆ One Semester
Relevance to SDGs	SDG3 Good health and well-being for people SDG4 Quality education		
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			
Devoting to the integration and research of information technology and business management knowledge, and cultivating, for the society, middle and higher level managers with both information capabilities and modern management skills.			
Subject Departmental core competences			
<ul style="list-style-type: none"> A. Use of modern management knowledge.(ratio:10.00) B. Logical thinking.(ratio:10.00) C. Critical analysis.(ratio:10.00) D. Integration of information technology and business management.(ratio:30.00) E. Research and innovation.(ratio:10.00) F. Theory and applications of data analysis.(ratio:20.00) H. Verbal and Writing Communication skills.(ratio:10.00) 			
Subject Schoolwide essential virtues			
<ul style="list-style-type: none"> 1. A global perspective. (ratio:10.00) 2. Information literacy. (ratio:50.00) 3. A vision for the future. (ratio:10.00) 4. Moral integrity. (ratio:10.00) 5. Independent thinking. (ratio:10.00) 7. A spirit of teamwork and dedication. (ratio:10.00) 			

Course Introduction	This course introduces students to learn data crawling, algorithms, models, and tools in text mining and text analytics through lectures, course projects, and presentations.
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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	Learn text mining and text analytics and how to perform text analysis using AI tools and programming.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	ABCDEFH	123457	Lecture, Discussion, Publication, Practicum, Experience, Imitation	Study Assignments, Discussion(including classroom and online), Practicum, Report(including oral and written), Activity Participation, Team Project

Course Schedule

Week	Date	Course Contents	Note
1	110/09/22 ~ 110/09/28	Course Introduction	
2	110/09/29 ~ 110/10/05	Introduction to Artificial Intelligence & Setup the Development Environment	
3	110/10/06 ~ 110/10/12	Text Mining and Text Analytics (1)	

4	110/10/13 ~ 110/10/19	Text Mining and Text Analytics (2)	
5	110/10/20 ~ 110/10/26	Natural Language Processing (1)	
6	110/10/27 ~ 110/11/02	Natural Language Processing (2)	
7	110/11/03 ~ 110/11/09	Web Crawling and Scraping	
8	110/11/10 ~ 110/11/16	Text Preprocessing	
9	110/11/17 ~ 110/11/23	Tokenization	
10	110/11/24 ~ 110/11/30	Word Cloud and Keyword Extraction	
11	110/12/01 ~ 110/12/07	Topic Analysis	
12	110/12/08 ~ 110/12/14	Text Classification	
13	110/12/15 ~ 110/12/21	Sentiment Analysis	
14	110/12/22 ~ 110/12/28	Case Study	
15	110/12/29 ~ 111/01/04	Team Project	
16	111/01/05 ~ 111/01/11	Team Project	
17	111/01/12 ~ 111/01/18	Final Product Presentation	
18	111/01/19 ~ 111/01/25		
Requirement			
Teaching Facility		Computer, Projector	
Textbooks and Teaching Materials			
References			
Number of Assignment(s)		(Filled in by assignment instructor only)	
Grading Policy		◆ Attendance : 15.0 % ◆ Mark of Usual : 25.0 % ◆ Midterm Exam : 20.0 % ◆ Final Exam : % ◆ Other 〈Team project〉 : 40.0 %	

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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