# Tamkang University the first semester in the 2023-2024 academic year Course Syllabus

Course Tit	le BIG D	ATA ANALY	SIS Instructor CHI-BIN CH			IENC	ĵ		
Department/Year/Class			Course Details						
Information Management/2023- 2024/ The first year			☐Required X Selective	□ 1 □ 2	One Semester) (1st Semester) (2nd Semester) (3rd Semester)	)	Credit	S	2
Course Introducit (50 to 10 words)	actually course obtain	y contain imp mainly introd those informa	ortant informat luce various tec ation. By unders	conduction, which in the conduction is a conduction in the conduction in the conduction is a conduction in the conduction in the conduction is a conduction in the conduction in the conduction is a conduction in the conduction in the conduction in the conduction is a conduction in the conduction in the conduction is a conduction in the	cting business achich is valuable the of data analysing this, it will instone one of data minimum.	tivitie to the s and pire st	enterpri data mi	ses. T	This to
Course Sch	edule							Ī	
Week	Date	Subject/Top	pics					Note	<u>;</u>
1	113/02/19~ 113/02/25	Introduction	n to Data Minin	ıg					
2	113/02/26~ 113/03/03	Data Analys	Data Analysis						
3	113/03/04~ 113/03/10	Business In	Business Intelligence						
4	113/03/11~ 113/03/17	Web Crawle	er						
5	113/03/18~ 113/03/24	Web Crawle	er						
6	113/03/25~ 113/03/31	Data Wareh	ouse						
7	113/04/01~ 113/04/07	Mining Free	Mining Frequent Patterns and Associations						
8	113/04/08~ 113/04/14	Mining Free	Mining Frequent Patterns and Associations						
9	113/04/15~ 113/04/21	Classification	on and prdiction	n					
10	113/04/22~ 113/04/28	Midterm Ex	am						
11	113/04/29~ 113/05/05	Application	plications of Data mining to Enterprise						

12	113/05/06~	Regression						
	113/05/12							
13	113/05/13~	Cluster Analysis						
	113/05/19	Cluster / tharysis						
14	113/05/20~	Dana I coming and Data Mining						
	113/05/26	Deep Learning and Data Mining						
15	113/05/27~							
	113/06/02	Neural Network						
16	113/06/03~							
	113/06/09	Data Mining and Natual Language Prossing						
17	113/06/10~							
	113/06/16	Enterprise Visiting						
18	113/06/17~	F: 1F						
	113/06/23	Final Exam						
Requirement								
Teaching								
Facility								
Textbook(s)	Data Minin	g Concepts and Techniques						
Suggested	Data Analy	ties Mada Aggesible						
Readings	Data Analytics Made Accessible							
Number of	2							
Assignment(s)	3							
Grading	Home Worl	ks : 30.0 %, Midtem Exam: 30%, Final Exam : l;40 %						
Policy	Tionie wor	KS . 30.0 70, MIULEIII EXAIII. 3070, FIIIdi EXAIII : 1,40 70						
Note								

### Tamkang University the second semester in the 2023-2024 academic year Course Syllabus

Course Tit	le Algorith	nms			Instructor		Chi-	Chi-Chang Jou	
Department/Year/Class			Course Details						
Information Management/2023- 2024/ The first year			☐Required ☑Selective	☐ 1 (1st ☐ 2 (2nd	Semester) Semester) Semester) Semester)	Creo	dits	2	
Course Introducit (50 to 10 words)	course emphasizes methods useful in practical problem solving.  Topics include: performance analysis, divide and conquer, dynamic prog					exity.	This		
Course Sch	edule	1							
Week	Date	Subject/Top	pics				No	ote	
1	113/09/09~ 113/09/15	Introduction	ntroduction						
2	113/09/16~ 113/09/22	Analysis of	Problems and A	Algorithms					
3	113/09/23~ 113/09/29	Analysis of	Problems and A	Algorithms					
4	113/09/30~ 113/10/06	The Greedy	Approach						
5	113/10/07~ 113/10/13	The Greedy	Approach						
6	113/10/14~ 113/10/20	Teaching of	oservation						
7	113/10/21~ 113/10/27	Prune and S	Prune and Search						
8	113/10/28~ 113/11/03	Divide and	Conquer						
9	113/11/04~ 113/11/10	Divide and	Conquer						
10	113/11/11~ 113/11/17	Midterm							

11	113/11/18~	Backtracking					
	113/11/24						
12	113/11/25~	momio Duo anamanina					
	113/12/01	Dynamic Programming					
13	113/12/02~	Dynamia Programmina					
	113/12/08	Dynamic Programming					
14	113/12/09~	D 1 1D 1					
	113/12/15	Branch and Bound					
15	113/12/16~	ATD C 1.4					
	113/12/22	NP-Completeness					
16	113/12/23~						
	113/12/29	Approximate Algorithms					
17	113/12/30~						
	114/01/05	Approximate Algorithms					
18	114/01/06~						
	114/01/12	Final Final					
Requirement	basic progra	amming skills					
Teaching	Committee	Ducinatan Latamat					
Facility	Computer,	Projector, Internet					
Textbook(s)	Algorithms	s, 3 <sup>rd</sup> edition, S. C. Tai, Tsang Hai Publishing					
Suggested	Introduction	n to the Design and Analysis of Algorithms 3 <sup>rd</sup> edition. Levitin	Pearson				
Readings	Introduction to the Design and Analysis of Algorithms, 3 <sup>rd</sup> edition, Levitin, Pearson						
Number of	6						
Assignment(s)	0						
Grading	Attendance	e: 10%, Homework: 30%, Midterm: 30%, Final: 30%					
Policy	2 Ittoridance	. 1070, Home work. 5070, Middelin. 5070, 1 mai. 5070					
Note							

# Tamkang University the second semester in the 2023-2024 academic year Course Syllabus

Course Ti	tle Hot	Issues of Int	Formation Management Instructor			SHIH, SHENG-PAO		
Depa	rtment/Year	/Class			C	ourse Details		
	Information Management/2023- 2024/ The first year			□ 1 □ 2	(1st   (2nd	Semester) Semester) Semester)	Credi	ts 2
Introducit (50 to 10	Course Introduciton (50 to 100 words)  Students are required to collect and study interested topics or papers information management/technology and give a formal presentation studies. Through the discussions with classmates and the instructor, to explore their future research directions.					ntation reg	garding their	
Course Sch	nedule							
Week	Date	Subject/Top	pics					Note
1	113/02/19~ 113/02/25	Course Intro	oduction					
2	113/02/26~ 113/03/03	Introduction	Introduction to Modern Information Technology (IT)					
3	113/03/04~ 113/03/10	Modern Inf	Modern Information-Related Technologies					
4	113/03/11~ 113/03/17	Modern IT	Modern IT Applications					
5	113/03/18~ 113/03/24	Discussion	on Papers abou	t Eme	ergent l	IT Application	ns (1)	
6	113/03/25~ 113/03/31	Discussion	on Papers abou	t Eme	ergent l	IT Application	ns (2)	
7	113/04/01~ 113/04/07	Discussion	on Papers abou	t Eme	ergent l	IT Application	ns (3)	
8	113/04/08~ 113/04/14	Big Data A	Big Data Analytics: Introduction					
9	113/04/15~ 113/04/21	Big Data A	nalytics: Techno	ologie	s			
10	113/04/22~ 113/04/28	Big Data A	nalytics: Applic	ations	S			
11	113/04/29~ 113/05/05	Natural Lar	anguage Processing: Introduction					

12	113/05/06~ 113/05/12	Natural Language Processing: Technologies				
13	113/05/13~ 113/05/19	Natural Language Processing: Applications				
14	113/05/20~ 113/05/26	IT Issues Discussion (1)				
15	113/05/27~ 113/06/02	IT Issues Discussion (2)				
16	113/06/03~ 113/06/09	IT Issues Discussion (3)				
17	113/06/10~ 113/06/16	Term Project Report (1)				
18	113/06/17~ 113/06/23	Term Project Report (2)				
Requirement	None					
Teaching Facility	Computer and Projectors					
Textbook(s)	Publicatio	ns from various literature sources				
Suggested Readings	None					
Number of Assignment(s)	Not Applicable					
Grading	Attendanc	ee: 10%, Regular Assessment: 20%, Midterm: 25%, Final: 25%, Other (Term				
Policy	Project): 20	)%				
Note	Regular assessment, Midterm, Final and Term Project may be comprised of oral or written reports, or implementation regarding emergent information technologies or applications.					

# Tamkang University the first semester in the 2023-2024 academic year Course Syllabus

Course Tit	le RESEAR	RCH METHODOLOGY Instructor Ch						Chia	-ping Yu
Department/Year/Class			Course Details						
Information Management/2023- 2024/ The first year			■ Required  ☐ Selective	Cred			lits	3	
	The pur	pose of this	course is to intr	•		ate students to g	general	rese	arch
Course	methods	s for informa	tion systems an	nd related	liss	ues. Specific to	pics co	ntair	1
Introduction (50 to 100	tundam	ental concept	ts and terminological	ogies in r	esea	arch, types of re	esearch	met	hods and
words)		spective design	gn, research me	asuremei	nt a	nd statistical and	alysis,	and	writing
	research	report for p	ublications.						
Course Scho	edule								
Week	Date	Subject/Top	oics					No	ote
1	113/09/09~	Introduction	n to research ico	ourse noli	icv :	and administrat	ion		
	113/09/15	miroduction	Introduction to research, course policy and administration						
2	113/09/16~	The scientific approach and alternative approaches to							
	113/09/22	3/09/22 investigation							
3	113/09/23~	The broad r	oad problem area and defining the problem statement						
	113/09/29	The broad p	moorem area an		15 ti	e proofem state			
4	113/09/30~	The critical	literature revie	W					
	113/10/06	The critical	interacture revie						
5	113/10/07~	Theoretical	framework and	l hypothe	cic i	develonment			
	113/10/13	Theoretical	Traffic work affu	пуроше	,010	ac veropinent			
6	113/10/14~	Flements of	f research desig	n					
	113/10/20	Licincitis 01	Tescaren desig	11					
7	113/10/21~	Data collect	tion methods: Is	ntroductio	On a	and interviews			
	113/10/27	Data Conce	non memous. Il	in oducti	011 0	and interviews			
8	113/10/28~	Data collect	tion methods: C	)hservatio	on				
	113/11/03	Data Conce	non memous. C	oser vall	<i>O</i> 11				
9	113/11/04~	Data collect	tion methods: Q	Mestionn	aire	AC			
	113/11/10	Data Conce	non memous. Q	(ucsilollii	anc	<i>,</i> o			
10	113/11/11~	Evperiment	al decion						
	113/11/17	Pybermient	xperimental design						

11	113/11/18~	Measurement of variables: Operational definition						
	113/11/24							
12	113/11/25~	Measurement: Scaling, reliability, validity						
	113/12/01	ivicasurement. Scannig, remadinity, variency						
13	113/12/02~	Samulina						
	113/12/08	Sampling						
14	113/12/09~	Overtitativa data analysis						
	113/12/15	Quantitative data analysis						
15	113/12/16~	Overetitativa data analysia. Hymathasia tastina						
	113/12/22	Quantitative data analysis: Hypothesis testing						
16	113/12/23~							
	113/12/29	Qualitative data analysis						
17	113/12/30~							
	114/01/05	Research project proposal						
18	114/01/06~							
	114/01/12	Final exam						
Requirement								
Teaching								
Facility								
Tr. (1 1()	Sekaran, U	ma/ Bougie, Roger J., Research Methods For Business: A Skill A	Building					
Textbook(s)	Approach, 8th Edition, (ISBN: 978-1-119-68353-7)							
Suggested	D -1 1/ X	Via Constitution In Design and Matheda						
Readings	Robert K. Yin, Case Study Research: Design and Methods							
Number of	10							
Assignment(s)	10							
Grading	Exercises	30%, Research project proposal: 30%, Middle exam: 20%, Fina	l exam: 20%					
Policy	LACIOISCS.,	2070, Research project proposar. 3070, which exam. 2070, I ma	1 CAUIII. 20/0					
Note								

### Tamkang University the second semester in the 2023-2024 academic year Course Syllabus

Course Tit	le Seminai	Seminar in Marketing Management Instructor					WU, LIN	YA- G	
Depar	tment/Year	/Class			Co	ourse Details			
Information Management/2023- 2024/ The first year			Required  Selective	<b>■</b> 0 (One Semester)  □ 1 (1st Semester)  □ 2 (2nd Semester)  □ 3 (3rd Semester)			lits	3	
Course Introducite (50 to 100 words)	on Manage	ment, then w	nning with introducing the fundamental concepts of ill major focus on the E-Marketing, including plann						Ū
Course Scho	edule	1							
Week	Date	Subject/Top	pics					No	ote
1	113/02/19~ 113/02/25	Introduction	n to Network M	larketin <sub>.</sub>	g				
2	113/02/26~ Ch 1 Defining Marketing for The New Realities								
3	113/03/04~ 113/03/10	Ch 2 Marke	Ch 2 Marketing Planning And Management						
4	113/03/11~ 113/03/17		Ch 1 & Ch 2.FUNDAMENTALS OF MARKETING MANAGEMENT						
5	113/03/18~ 113/03/24	Ch 3. Analy	zing Consumer	r Marke	ets				
6	113/03/25~ 113/03/31	Ch 6 Identifi Customers	fying Market Se	egments	s and	Target			
7	113/04/01~ 113/04/07	No class							
8	113/04/08~ 113/04/14	Ch 7 Craftin Positioning	Ch 7 Crafting A Customer Value Proposition and Positioning						
9	113/04/15~ 113/04/21	Midterm Ex	am						
10	113/04/22~ 113/04/28	Ch10 Build	ing Strong Bran	nds					
11	113/04/29~ 113/05/05	Ch11 Mana	aging Pricing And Sales Promotions						

12	113/05/06~ 113/05/12	Ch12 Managing Marketing Communications						
13	113/05/13~	Ch13 Designing An Integrated Marketing Campaign in The						
	113/05/19	Digital Age						
14	113/05/20~ 113/05/26	Ch15 Designing and Managing Distribution Channels						
15	113/05/27~ 113/06/02	Ch21 Socially Responsible Marketing						
16	113/06/03~ 113/06/09	Final report presentation						
17	113/06/10~ 113/06/16	Final report presentation						
18	113/06/17~ 113/06/23	Summary and Discussion						
Requirement								
Teaching Facility	Projector :	and computer on the Internet						
Textbook(s)	E-Marketin	g, by Judy Strauss and Raymond Frost						
Suggested Readings	E-Marketing							
Number of								
Assignment(s)	5							
Grading Policy	Participation 30% Assignment 50% Presentation 20%							
Note								