(English Language of Mathematics Teaching) National Taiwan Normal University Online Course Curriculum Plan

Guideline: Pursuant to Article 6 of the Implementation Regulations Regarding Distance Learning by Universities, Departments/Programs offering distance learning courses, shall present a course plan and submit it for approval by the university-level academic affairs committee. The course plan referred to in the preceding paragraph shall set forth learning objectives, the target student group, a course outline, teaching methods, interactive student-teacher discussion, grading and course requirements. The course plan shall be posted on the Internet.

1. (Course start date: _fall_ semester of _2021_ (academic year):									
	It is a new digital course or an existing face-to-face course switching to digital format in this semester									
	It is an existing digital course; the latest University's Course Committee approval was in the semester of (academic year)									
	Approved by the University's Course Committee and within the 5-year validity period.									
	The 5-year validity period has expi	red; a new application is required.								
	☐In case of a major change in the or	iginal approved course or if the revision ratio exceeds 30%, reapplication is required.								
3.]	Basic Course Information (check	c√or ≡ if applicable)								
(1)	Course Chinese Name	數學教學中的英語								
(2)	Course English Name	English Language of Mathematics Teaching								
(3)	Teaching Format	Asynchronous Distance Teaching								
		Synchronous Distance Teaching Broadcast University								
		Please fill-in the sign-off university and department for this course:								
		(1) University: National Taiwan Normal University Department: Mathematics								
(4)	Instructor Name & Title	Adjunct assistant professor: Dr. Simon Morgan								
(5)	Instructor Source	Appointed by Departments								
		Both of Above Other								
(6)	The Name of the Course Unit (or the	The Department of Mathematics								
	college and department name)									
(7)	Course Level	Undergraduate Program Master's Program								
		Undergraduate-master Program Joint Course Undergraduate-postgraduate Joint Course								
		PhD Program Continuing Education Master's Program								
(8)	Program Type	Full-time Program Part-time Program Other								
(9)	Course Type	Common Courses General Courses School Required Courses								
		Professional Courses								

(10)	Which Unit Offered This Course?	University College Graduate Institute
		Department Other
(11)	Course Duration	One Semester (half year) Two Semesters (one year) Other
(12)	Course Attribute	Required Elective Other
(13)	Number of Credits	2 credits
(14)	Weekly Face-to-Face Class Hours	_2 hour(s)/week
		(For asynchronous remote teaching, fill-in the average weekly "face-to-face" hours, which include classroom face-to-face and synchronized remote teaching hours. Divide the total "face-to-face" semester hours by the total number of course weeks.)
(15)	Number of Classes	
(16)	Estimated Total Number of Students	10
(17)	Fully English-Taught Course	Yes No
(18)	Cooperative Foreign University	Names of foreign cooperative universities and departments/institutes:
	(Please fill-in the cooperative	Domestic Broadcast Domestic Sign-off Overseas Special Program Dual-Degree Program
	universities if applicable)	Other
(19)	Course Platform URL (must be	NTNU online learning platform: https://moodle.ntnu.edu.tw/
	filled-in for asynchronous teaching)	
(20)	Curriculum Plan URL	http://courseap.itc.ntnu.edu.tw/acadmOpenCourse/index.jsp

4. Course Teaching Design and Implementation Method

(1)	Learning Objectives	 Learn Vocabulary Learn common se Learn typical conf Develop conversa Writing questions Collaborative and 	ntence and questifusions for mathe tional and questional and assignments	matical English and oning skills	everyday English			
(2)	Target Student Group	Students who are takir	tudents who are taking IBEC Program-International Mathematics Education or Bilingual Mathematics Education rogram or Mathematics Education Program.					
(3)	Prerequisite(s)	 Differentiated Inst Inquiry and Practi Teaching Material Curriculum Devel 	ce in Mathematics and Methods: N	es Mathematics				
	filled in, for example	Outline: Please fill in the mple: If the weekly facethe "asynchronous" field. Topics	to-face teaching	is 2 hours and asynclynchronous" field bla	hronous teaching is 1 ank) Testing/Evaluation	hour, write	2 in the "1 Method ar number of h if none)	face-to-face'
(4)	1	Vocabulary, pronunciation, and sentence and question structures	To know vocabulary, pronunciation, and sentence and question structures	Topic discussion				2
	2	Vocabulary, pronunciation, and sentence and question structures	Same as above.	Topic discussion				2

3	Vocabulary, pronunciation, and sentence and question structures	Same as above.	Topic discussion	Online tasks	2
4	Confusions in everyday and mathematical English.	To analyze confusions in everyday and mathematical English.	Topic discussion, Group discussion		2
5	Confusions in everyday and mathematical English.	Same as above	Topic discussion, Group discussion	Assignment	2
6	Presentation of assignments, spoken and written	To understand presentation of assignments, spoken and written	Topic discussion		2
7	Presentation of assignments, spoken and written	Same as above	Topic discussion		2
8	Presentation of assignments, spoken and written	Same as above	Topic discussion	Online tasks	2
9	Presentation of multiple solutions	To understand presentation of multiple solutions	Problem base learning	Assignment	2
10	Discussion of different methods and alternatives	To discuss of different methods and alternatives	Topic discussion, Group discussion		2
11	Discussion of different methods and alternatives	Same as above	Topic discussion, Group discussion	Case study reports	2

	12	Diagnostic questioning	To conduct diagnostic questioning	Group discussion		2
	13	Diagnostic questioning	Same as above	Group discussion	Case study reports	2
	14	Deep case study collaborative assignment with individual, reports and presentations	To design, plan and discuss deep case study collaborative assignment with individual, reports and presentations	Group discussion		2
	15	Deep case study collaborative assignment with individual, reports and presentations	Same as above	Peer review	Presentation	2
	16	Deep case study collaborative assignment with individual, reports and presentations	Same as above	Peer review	Presentation	2
	17	Deep case study collaborative assignment with individual, reports and presentations	Same as above	Peer review	Presentation	2
	18	Deep case study collaborative assignment with individual, reports and presentations	Same as above	Peer review	Presentation	2
(5)	Teaching	(if included, check \square ; r	nultiple choices a	allowed)		

	Method	1. Provide primary and supplementary materials for online courses
		2. Provide online asynchronous teaching
		3. Have online teacher or online assistant
		4. Provide face-to-face teaching, number: time(s), total hour(s): hour(s)
		5. Provide online synchronous face-to-face teaching, number: 18 time(s), total hour(s): 36 hour(s)
		6. Provide topic discussion activities
		7. Provide cooperative learning activities between students
		8. Other: (please specify)
	Learning	Does the content include the following roles and functions
	Management	(if included, check □; multiple choices allowed)
	System	1. For learning management system database management by the system administrator
		Personal data
		Course information
		Other related information management functions
		2. Provide the necessary learning management system functions for teachers (teaching assistants) and students
(6)		Latest News release, browse
		Textbook content design, viewing, download
		Grade system management & inquiry
		Perform online testing
		Release learning information
		Interactive learning design (chat room or discussion area)
		☐ Function presentation for various teaching activities
		Other related functions (please specify)
	Public	Instructor Profile and Published Works (webpage link instructions can be attached):
	Information	<u>Dr. Simon Morgan</u> : PhD in Mathematics, Rice University Houston Texas
	about	2015-now Visiting Researcher Department of Physics Imperial College London.
	Interactive	2010-now Software developer for Data Constructs Limited UK
(7)	Teaching	2007-2009 Post Doctoral Researcher at Los Alamos National Laboratory, USA
		2002-2007 Assistant Professor University of Minnesota Department of Mathematics
		Instructor E-mail:
		Dr. Simon Morgan morga084@gmail.com

		Online Office Hours (at least 1 hour per week): Wednesday 17:30-18:30
		Teaching Assistant's Name/E-mail (omit if inapplicable): TBA
		Other(omit if inapplicable):
	Course Material Production	(if included, check □; multiple choices allowed) 1.Provides appropriate reminders of key points 2.Provides teaching-related examples
(8)		 3.Provides teaching-related exercises and reflective activities 4.Provides supplementary teaching materials or online resources 5.Provides instructions for self-directed learning 6.Unit goals are consistent with course goals 7.Other:
(9)	Assignment Submission Method	(if included, check □; multiple choices allowed) ■ 1.Provides online assignment content description □ 2.Online real-time assignment ■ 3.Assignment file upload and download □ 4.Online testing □ 5.Grade inquiry 6.Other:
(10)	Grading Method	 ★ To comply with the spirit of online course design, you must understand and agree to the contents of the following 3 items, and provide detailed description after checking 1. The course can provide evaluation results and feedback for each learning evaluation 2. The evaluation has taken the students online learning history and participation level into account 3. The percentage of each score is explained in detail below: (testing method and items, and their total score percentage) Assignment 20%, Discussion 15%, Attendances 5%, Presentation 20%, Case study reports 20%, Contribute to online tasks 20%
(11)	Precautions for Class:	The course is the Fully English-Taught Course. Vocabulary and language use for mathematics teaching and development of conversational English language skills for teaching. The graduate student without the education

	program must contact the department for the issue of course-selecting.
	Observe intellectual property rights in the creation of course content.
(12)	* Pay attention to any infringement of copyright or other rights in the creation of relevant teaching content.
(12)	* If the copyright for any part of the teaching content is owned by others and authorization has been obtained from the rights holder,
	please indicate the source of the material.