



## TQF.5 Course Report

**Course Code:** MMA1303

**Course Title:** Linear Algebra

**Credits:** 3(3-0-6)

**Semester /Academic Year:** 1/2021

**Students:** Bachelor of Education Program in Mathematics Education  
(Bilingual Program)

**Lecturers:** Mr.Luechai Tiprungsri

College of Hospitality Industry Management

Suan Sunandha Rajabhat University

## Course Report

**Institution:** Suan Sunandha Rajabhat University

**Campus/Faculty/Department:** College of Hospitality Industry Management

### Section1: General Information

**1. Course Code and Title:** MMA1303 Linear Algebra

**2. Pre-requisite (if any):** None

**3. Faculty Member(s) Teaching the Course and Sections**

Mr.Luechai Tiprungsri

Friday 13.00-16.00 (Online and on demand)

**Semester and Academic Year**

Semester 1, Academic Year 2021

**4. Venue**

College of Hospitality Industry Management, Suan Sunandha Rajabhat University (Salaya Campus)

### Section 2: Actual Teaching Hours Compared with Teaching Hours Specified in the Teaching Plan

**1. Number of actual teaching hours compared with the teaching plan**

Topics	No. of teaching hours in the plan	No. of actual teaching hours	Reason(s) (in case the discrepancy is more than 25%)
<b>Course Introduction</b> - Course outlines - Grading criteria <b>Pre-Test</b> <b>Chapter 1:</b> Introduction to linear algebra	3	3	-

<b>Topics</b>	<b>No. of teaching hours in the plan</b>	<b>No. of actual teaching hours</b>	<b>Reason(s) (in case the discrepancy is more than 25%)</b>
<b>Chapter 2:</b> Matrices	9	9	-
<b>Chapter 3:</b> Determinants	9	9	-
Midterm			
<b>Chapter 4:</b> Linear Equation	3	3	-
<b>Chapter 5:</b> System of Linear Equation Using Matrices	9	9	-
<b>Chapter 6:</b> Vector-1	6	6	Integrated innovation and technology for mathematics
<b>Chapter 7:</b> Exemplar of learning instruction in Linear Algebra incorporate with the Geometer's Sketchpad, Mathlab.	6	6	Integrated innovation and technology for mathematics
<b>Total</b>	<b>45</b>	<b>45</b>	

## 2. Topics that couldn't be taught as planned

<b>Topics that couldn't be taught (if any)</b>	<b>Significance of the topics that couldn't be taught</b>	<b>Compensation</b>
None	None	None

### 3. Effectiveness of the teaching methods specified in the Course Specification

Learning Outcomes	Teaching methods specified in the course specification	Effectiveness (Use ✓)		Problems of the teaching method(s) (if any) and suggestions
		Yes	No	
1. Morals and Ethics	Problem and Practice Based Learning	✓	-	-
2. Knowledge	Problem-Based and Computer-Based Learning	✓	-	-
3. Cognitive Skills	Problem-Based and Computer-Based Learning	✓	-	-
4. Interpersonal Skills and Responsibilities	Cooperative Learning: Think-Pair-Share	✓	-	-
5. Numerical Analysis, Communication and Information Technology Skills	Inquiry-based and Internet-Based Learning	✓	-	-
6. Learning Management Skills	Problem-Based and Application Tools in Mathematics	✓	-	-

### 4. Suggestions for Improving Teaching Methods

Using problem solving and ICT-based approach as teaching strategies.

### Section 3: Course Outcomes

**1. Number of registered students:** 20 students

**2. Number of students at the end of semester:** 20 students

**3. Number of students who withdrew (W): none**

**4. Grade distribution**

<b>Grade</b>	<b>No. of students</b>	<b>Percentage</b>
A	13	65.00
A-	2	10.00
B+	5	25.00
B	-	-
B-	-	-
C <sup>+</sup>	-	-
C	-	-
C-	-	-
D+	-	-
D	-	-
D-	-	-
F	-	-
Incomplete (I)	-	-
Total	20	100.00

**5. Factors causing unusual distribution of grades (If any)**

None

**6. Discrepancies in the evaluation plan specified in the Course Specification**

6.1 Discrepancy in evaluation time frame

<b>Details of Discrepancy</b>	<b>Reasons</b>
Using online test / take home test for three hours according to academic announcement.	COVID 19 pandemic

6.2 Discrepancy in evaluation methods

<b>Details of Discrepancy</b>	<b>Reasons</b>
Using online test / take home test	COVID 19 pandemic

## 7. Verification of students' achievements

Verification Method(s)	Verification Result(s)
Program Committee Approval	Approved

## Section 4: Problems and Impacts

### 1. Teaching and learning resources

<p><b>Problem:</b> Due to students were limited to use computer or mobile devices.</p>	<p><b>Impacts on students' learning:</b> Some students could not connect the program, but the students can download lessons from lecturer's website.</p>
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### 2. Administration and organization

Problems from administration None	Impacts on students' learning None
Problems from organization None	Impacts on students' learning None

## Section 5: Course Evaluation

### 1. Results of course evaluation by students

#### 1.1 Important comments from evaluation by students

Students had weaknesses in learning mathematics using English communication.

#### 1.2 Faculty members' opinions on the comments in 1.1

The lecturers should engage students in learning activities by using English-Thai for understanding.

### 2. Results of course evaluation by other evaluation methods

#### 2.1 Important comments from evaluation by other evaluation methods

The lecturers have to prepare alternative assessment to evaluate students' progression involving learning outcomes of the course.

#### 2.2 Faculty members' opinions on the comments in 2.1

Considerations of methods of teaching and evaluation for students' improvement.

### Section 6: Improvement Plan

#### 1. Progress of teaching and learning improvement recommended in the previous Course Report

Improvement plan proposed in previous Academic year 2020.  -None-	Results of the plan implementation  -None-
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#### 2. Other improvements

Searching information for practicing English communication and designing concepts of learning mathematics with technology from online database

#### 3. Suggestions for improvement for Semester 2 Academic year 2021

Suggestions	Time Frame	Responsible person
Collecting more materials and activities	December 2021	Assoc. Prof. Chaweewan Kaewsaiha

#### 4. Suggestions of faculty member(s) responsible for the course

Integrating real-world problem solving for improving mathematical processes and skills.

##### Responsible Faculty Member/Coordinator:

Signature.....Submission Date.....

##### Chairperson/Program Director:

Signature.....Receipt Date .....