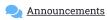


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## MSS414 TOPICS IN PURE MATHEMATICS



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The special topic offered this semester is fuzzy set theory. Further description on the course can be viewed in the following PDF file. For your information, the Friday class will be combined with Monday class (2-4 PM) starting on the third week at

Have a great semester.

Suggestion for assignment concept

This poll is intended to collect suggestions from student on how the assignment should be conducted. But bear in mind that the final decision will be made by the instructor according to the situation.

# 9 September - 15 September

No assessment for reading the reviews. Just to give some insights on fuzzy set theory.

- <u> Review on fuzzy set theory 1.</u>
- Review on fuzzy set theory 2.
- 🚶 <u>Lecture 1 Intro and Motivation</u>

## 16 September - 22 September

- Lecture 2 notes
- Class material

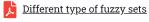
This is the table that we used today to find support, alpha-cut, strong alpha cut during the class today.

- Lecture 3 notes
- <u>Lecture 3 material (Axioms)</u>

## 23 September - 29 September

- Lecture 4 notes
- Group for assignment and presentation
- Lecture 5 notes
- Tutorial 1

## 30 September - 6 October



For Wednesday class, we will cover on the Extension Principle that will be used to extend operations in fuzzy 'type-1' to fuzzy type-2. For preclass study, you can check on Section 5.1 and 5.2 in the book.

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## / Uctober - 13 Uctober



<u>Dperations for type-2 fuzzy sets</u>

Assigment 2 (Major): Reading material



## 14 October - 20 October



# 21 October - 27 October

## 28 October - 3 November

## 4 November - 10 November



- 1. Algebraic operation for type 2
- 2. Special extended operation
- 3. Operation for L-R fuzzy number

## 11 November - 17 November

## 18 November - 24 November

Lecture Notes: Composition of fuzzy relations and Properties of min-max composition

Lecture Notes: Fuzzy graphs

## 25 November - 1 December

Lecture notes: Special fuzzy relation

<u>Fuzzy graphs</u>

<u> Test 2 Attendance</u>

# 2 December - 8 December

# 9 December - 15 December

Fuzzy functions

# 16 December - 22 December

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# **Course Checks**



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