

#### **BEFORE WE START**



# THE MATH QUEST:

Did you complete the quest?

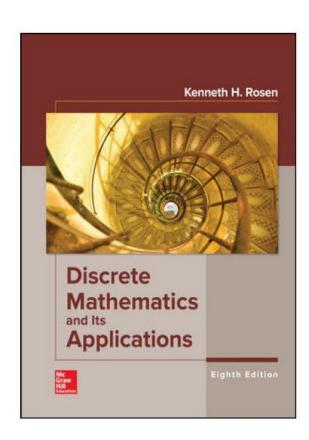


#### **Reference Text**





www.mheducation.com



#### **Discrete Mathematics and Its Applications**

Edition: 8 2019©

ISBN-13: 9781259676512

CONTENT AVAILABLE IN:

**CONNECT WITH LEARNSMART (SPARK):** Access Card 9781259731242, 9781260519778; eCommerce 9781259731259

Create your own - www.mcgrawhillcreate.com

# Tentative time-table for first half of trimester



Week	Starting	Topics	
1	28 Aug	Topic 1: Propositional Logic Release tutorial topic 1 questions to students Students solve tutorial 1 and submit attempts before Thu, 31st Aug  Tutorial Class: No tutorial class for week 1  Topic 2: Predicate Logic & Quantifiers Release tutorial topic 2 questions to students Students solve tutorial 2 and submit attempts before Thu, 7th Sep  Tutorial Class: F2F Tutorial discussion for Topic 1 tutorial submissions	
2	4 Sept		
3	11 Sept	Topic 3: Rules of Inference Release tutorial topic 3 questions to students Students solve tutorial 3 and submit attempts before Thu, 14 <sup>th</sup> Sep Tutorial Class: F2F Tutorial discussion for Topic 2 tutorial submissions	
4	18 Sept	Topic 4: Methods of Proof Release tutorial topic 4 questions to students Students solve tutorial 4 and submit attempts before Thu, 21st Sep Tutorial Class: F2F Tutorial discussion for Topic 3 tutorial submissions	
5	25 Sept	Topic 5: Sets  Quiz 1 (18%) – Topics: Topic 1, Topic 2, Topic 3  Release tutorial topic 5 questions to students Students solve tutorial 5 and submit attempts before Thu, 28th Sep  Tutorial Class: F2F Tutorial discussion for Topic 4 tutorial submissions	
6	2 Oct	Topic 6: Functions Release tutorial topic 6 questions to students Students solve tutorial 6 and submit attempts before Thu, 5 <sup>th</sup> Oct Tutorial Class: F2F Tutorial discussion for Topic 5 tutorial submissions	
7	9 Oct	Recess Week	

8	16 Oct	Topic 7: Sequences and Summation  Quiz 2 (10%) — Topics: Topic 4, Topic 5	
	Release tutorial topic 7 questions to students Students solve tutorial 7 and submit attempts before Thu, 1  Tutorial Class: F2F Tutorial discussion for Topic 6 tutorial st		

# Tentative time-table for second half of trimester



8	16 Oct	Topic 7: Sequences and Summation  Quiz 2 (10%) — Topics: Topic 4, Topic 5
		Release tutorial topic 7 questions to students Students solve tutorial 7 and submit attempts before Thu, 19th Oct
		Tutorial Class: F2F Tutorial discussion for Topic 6 tutorial submissions

9	23 Oct	Topic 8: Divisibility and Modular Arithmetic Primes and GCD Release tutorial topic 8 questions to students Students solve tutorial 8 and submit attempts before Thu, 26 <sup>th</sup> Oct  Tutorial Class: F2F Tutorial discussion for Topic 7 tutorial submission
10	30 Oct	Topic 9: Mathematical Induction Release tutorial topic 9 questions to students Students solve tutorial 9 and submit attempts before Thu, 2 <sup>nd</sup> Nov  Tutorial Class: F2F Tutorial discussion for Topic 8 tutorial submission
11	6 Nov	Topic 10: Basic of Counting, Permutation, Combination, Pigeonhole Principle  Release tutorial topic 10 questions to students Students solve tutorial 10 and submit attempts before Thu, 9 <sup>th</sup> Nov  Tutorial Class: F2F Tutorial discussion for Topic 9 tutorial submission
12	13 Nov	Topic 11: Guest Lecture/Special Topics   Discrete Mathematics & PythonProgramming  Quiz 3 (17%) — Topics: Lectures 7 — 9 (20%)  Tutorial Class: F2F Tutorial iscussion for Topic 10 tutorial submission
13	20 Nov	Study/Consultation Week
14	27 Nov	Exam Weeks

#### **Assessments Info**



ASSESSMENT INFO

	Assessment Modes	Weightage	Assessment Dates
1.	Tutorials (2.5% + 2.5%)	5%	Weekly (every Thursday)
2.	Quiz 1	18%	25 <sup>th</sup> Sep
3.	Quiz 2	10%	16 <sup>th</sup> Oct
4.	Quiz 3	17%	13 <sup>th</sup> Nov
5.	Final Written Exam	50%	TBA
	Total	100%	

#### **LEARNING MATHEMATICS**



"There are 10 types of people in the world: Those who understand binary and those who don't."

Which one do you think you are?



Mathematical joke

From Wikipedia, the free encyclopedia

#### **LEARNING MATHEMATICS**



Some find it easier to exercise in groups.





Others don't.

#### **LEARNING MATHEMATICS**



Some like to take small steps, one at a time.

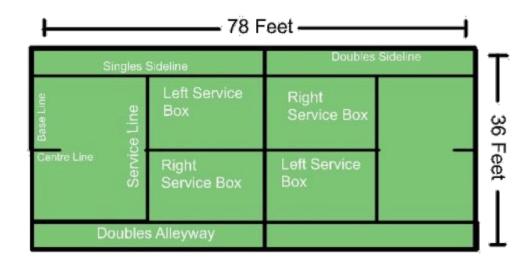




Others don't.

#### **FINAL ADVICE FOR TODAY**





# Knowing the rules of tennis well

is not the same as



Playing tennis well.

#### FINAL ADVICE FOR TODAY





Image sources: http://www.freeimages.com/assets/182993/1829929505/a-hand-writing-875404-m.jpg

# Take your own notes and Write your own solutions!

(Practice. Don't watch others practice)

#### Especially in Tutorial Classes

- 1. Cross verify your answers against the tutorial class discussions
- 2. Make sure you have noted down the solutions for all
- B. Make sure you have clarified any doubts

#### **HOW ARE WE GOING TO LEARN?**



#### Content

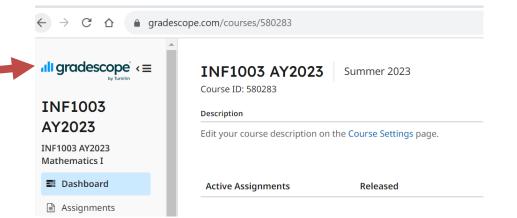
Interactive online lectures
Short videos (to see before lecture)

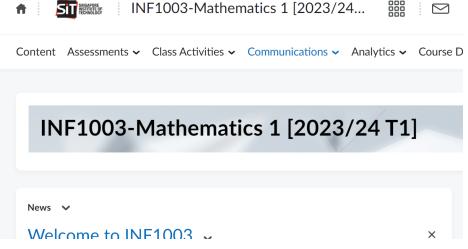
#### Live Discussions

Live zoom online discussions

#### **Tutorial**

Solving tutorial exercise Feedback on proposed solutions





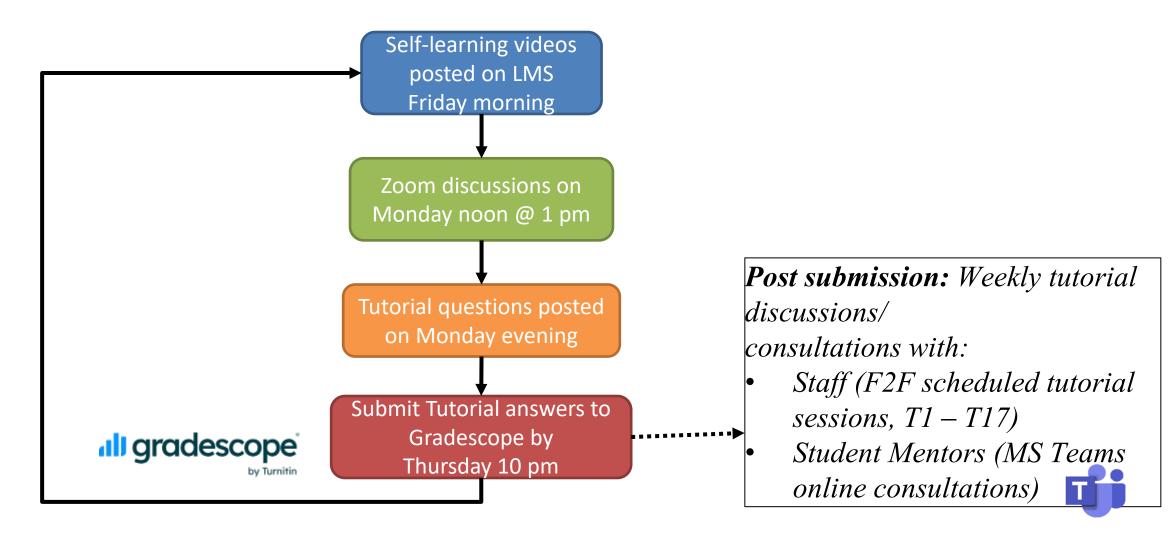
### **SET YOUR LMS NOTIFICATIONS**



Instant Notifications	Email SMS	
Content - content item created		
Content - content item updated		Viewing as Student X
Content - content overview updated		Profile  Notifications
Discussions - new post in a forum, topic, or thread that I subscribed to in instant notifications	<b>✓</b>	Account Settings
Dropbox - dropbox folder due date or end date is 2 days away		Log Out
ePortfolio - feedback added to subscribed items		
ePortfolio - another user has subscribed to your updates		
ePortfolio - feedback added to my items		
Grades - grade item released		
Grades - grade item updated		
News - item updated	<b>•</b>	
News - new item available	✓ 🗆	
Quizzes - quiz end date is 2 days away		
		12

## **INF1003 Weekly Workflow**





#### WHERE CAN WE ASK QUESTIONS/DOUBTS?



