**CSNB 143**

**Discrete Structures**

**Special Semester , 2018/2019**

**Lecturers Info**

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| **Lecturer’s Name** | Rina Azlin Binti Razali |
| **Room No.** | BW-3-C40 |
| **Office Tel. No.** | 03-89212020 ext 3311 |
| **Email** | rina@uniten.edu.my |
| **Time Table** | Monday 10.00-12.00pm (Discrete Structures - Lecture)  Tuesday 4.00- 6.00pm (Discrete Structures - Lecture)  Wednesday 12pm-2.00pm (Discrete Structures - Lecture) |
| **Consultation Hours** | Monday - 9.00-10.00am  Wednesday – 10.00 - 11.00am |

**Course Outcomes**

At the end of this course, students should be able to:

CO 1: Demonstrate mathematical reasoning by interpreting and constructing mathematical arguments.

CO 2: Apply the techniques, processes and issues associated with the discrete structures and combinatorial problems.

CO 3: Apply mathematical thinking, mathematical proofs and algorithmic thinking in constructing solutions for variety types of problems.

**Course Content and Weekly activity**

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| ***Week*** | ***Topic*** | ***Chapter*** | ***Activities*** |
| Week 1 | Set | Chapter 2 |  |
| Week 2 | Sequence, | Chapter 3 | Quiz 1 – cover chapter 1 & 2 |
| Week 3 | Matrix | Chapter 4 |  |
| Week 4 | Logic | Chapter 5 | Quiz 2 – cover chapter 3 & 4 |
| Week 5 | Induction | Chapter 6 |  |
| Week 6 | Induction | Chapter 6 | Midterm Examination – cover chapter 2-6 |
| Week 7 | Counting technique | Chapter 7 |  |
| Week 8 | Relations | Chapter 8 | Quiz 3 – cover chapter 5 & 6 |
| Week 9 | Relations | Chapter 8 |  |
| Week 10 | SEMESTER BREAK | | |
| Week 11 | Functions | Chapter 10 | Quiz 4 – cover chapter 7 & 8 |
| Week 12 | Graphs | Chapter 11 |  |
| Week 13 | Tree | Chapter 12 |  |
| Week 14 |  |  | Revision |
| Week 15 |  |  | Revision |
| Week 16 | FINAL EXAM WEEKS | | |
| Week 17 |

**Text Book**

KOLMAN B., Busby R.C. and Ross S.: Discrete Mathematical Structures, 6th Edition, Pearson Education Limited, 2014

**Lecture Notes & Announcement**

The Lecture Notes can be downloaded from the following website: [*http://lms.uniten.edu.my/moodle/course/view.php?id=699*](http://lms.uniten.edu.my/moodle/course/view.php?id=699)

**Assessment**

Midterm 20%

Quizzes 20%

Assignments [1] 10%

Final Examination 50%

Total 100%

**Class Policies:**

1. Dress in proper attire corresponding to Universiti Tenaga Nasional dress code.

2. Attendance is compulsory and will be taken regularly.

Attendance for less than 80% of the lectures will result in students being barred from taking the Final Exam.

3. If you are absent from lecture due to

Sickness : MC is required

Emergency : letter of guardian is required

Any MC or letter should be given to the lecturer on the next day.

FAILURE TO DO SO WILL RESULT TO NO MAKE UP FOR ANY QUIZZES OR EXAM.

4. The lecturer reserves the right to give pop-quizzes whenever deemed appropriate. Latecomers will not get extended time.

5. Cheating and any attempt thereto will not be tolerated and penalized according to the seriousness of the offense.

6. All assignments must be submitted on time. Deducted of 25% of marks or ZERO mark will be given for the late submitter (based on case by case basis).