Mathematics for Information Technology 1

| Basic Course Information | | | | |
|--------------------------|---|--------------------------------------|----------------|--|
| Course Number | 02005119 | Subject Category | Compulsory (C) | |
| Class Format | Lecture | Credit Type and Number of Credits | 1 | |
| Department | Computer | Student Category | Year 2 | |
| Period of Study | | Classes per Week | 1 | |
| Required Materials | Hardware: Laptop and Tablet, Handouts will be distributed | | | |
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Course Objective
This course provides students with Mathematics for Information Technology. It covers sets, relations, logic, graphs, and mathematical induction.
You'll accure knowledge of basis of computer science and engineering. These knowledge is fundamental for computer seniorized and observativity.

| Evaluation (Rubric) | Ideal Level of Achievement (Very Good) | Standard Level of Achievement (Good) | Unacceptable Level of Achievement (Fail) |
|---|--|--|--|
| Can explain Set and Relation | Can explain Set and Relation appropriately | Can explain Set and Relation | Cannot explain Set and Relation |
| Can explain Logic | Can explain Logic appropriately | Can explain Logic | Cannot explain Logic |
| Can explain Graph structure and its representation | Can explain Graph structure and its representation appropriately | Can explain Graph structure and its representation | Cannot explain Graph structure and its representation |
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Relationship with Learning Outcomes C(1) Ability to operate and administer the computer software and hardware C(2) Ability to understand the operating system and to develop software to solve specific problems.

Teaching Method

Outline

Lecture and Orli

Come Format:

Students are required to ask any questions after sufficient all-learning.

| Course Plan | | | |
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| Semester 2 | Contents and Method of Course | Goale | Related MCC |
| 1st week | Introduction and Guidance / Sets (Online) | Introduction and Guidance / Understand and use Sets | V-D 7 84 V-D 7 85 |
| | | | V-D 7 84 |
| | | | V-D 7 84 V-D 7 85 |
| 1 | | | V-D / 85 |
| 2nd week | Sets (Online) | Understand and use sets | |
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| | | | V-D 7 84 V-D 7 85 |
| | | | V-D 7 85 |
| 3rd week | Functions | Understand and use functions | |
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| | | | V-D 7 84 |
| | | | V-D 7 84 V-D 7 85 |
| 4th week | Functions | Understand and use functions | |
| 70111000 | T GITCHOIS | functions | |
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| | | | V-D 7 84 |
| | | | V-D 7 85 |
| 60 | 0.1 | Understand and use relations | V-D 7 86 |
| 5th week | Relations | relations | |
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| | | | V-D 7 84 |
| | | | V-D 7 85 |
| 6th week | Relations | Understand and use relations | V-D 7 86 |
| 1 | | relations | —— |
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| | | | V-D 7 84 |
| 1 | | | V-D 7 84 V-D 7 85 |
| 7th week | Deletions / Demonstrum for outsides | Understand and use relations and Preparation for mid-term exam | V-D 7 86 |
| /th week | Relations/ Preparation for mid-term exam | mid-term evan | |
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| 8th week | School Event | | |
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| 9th week | | | |
| | Mid term exam | | |
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| | | | V-D 7 84 V-D 7 85 |
| | Propositional Logic | Understand and con- | V-D 7 85 V-D 7 86 |
| 10th week | | Understand and use Propositional Logic | V-D 7 86 V-D 7 87 |
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| | | | V-D 7 84 |
| | | | V-D 7 85 V-D 7 86 |
| 11th week | Propositional Logic | Understand and use Propositional Logic | V-D 7 86 |
| 110111001 | | Propositional Logic | V-D 7 87 |
| | | | |
| | | | V-D 7 84 |
| | | | V-D 7 85 |
| 12th week | Predicate Logic | Understand and use Predicate Logic | V-D 7 86 |
| 1201 WARK | Fredicate Logic | Predicate Logic | V-D 7 87 |
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| | | | V-D 7 84 V-D 7 85 |
| | | Understand and use | V-D 7 86 |
| 13th week | Predicate Logic | Understand and use Predicate Logic | V-D 7 86 V-D 7 87 |
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| | | | V-D 2 24 |
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| 14th week | Graph Structure | Understand and use Graph Structure | |
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| 15th week | Graph Structure | Understand and use Graph Structure | |
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| | | | V-D 2 24 |
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| 1.00 | Graph Structure | Understand and use Graph Structure | |
| 16th week | Graph Structure | Structure | |
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| 17th week | | December Before C | |
| | Prepration Before Final Exam | Prepration Before Final Exam | |
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| 18th week | | | |
| | Final Exam | | |
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| 19th week | Final Exam | | |
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| 20th week | Return Final Exam | Return Final Exam | |
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| | Mid Term Examination | Final Examination | Mutual Evaluations between students | Report | Pertfello | Quitz |
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| Basic Ability | 35 | 35 | | 15 | | 15 |
| Technical Ability | | | | | | |
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