

<b>Module Title:</b>	<b>Discrete mathematics</b>
<b>Module ID:</b>	<b>MATH 151</b>
<b>Prerequisite:</b>	<b>None</b>
<b>Level:</b>	<b>3</b>
<b>Credit Hours:</b>	<b>3 (3+0+1)</b>

#### **Module Description:**

Mathematical Logic, methods of proof, Sets, Relations, Boolean algebras and their applications, Graphics Theory and Trees and their applications.

#### **Module Aims:**

- Understand the concept of arguments and evidence
- Definition of Community Relations and functions.
- Understand the concept of Boolean algebra and theories graphics and trees

#### **Learning Outcomes:**

- That students absorb the concepts and terminology of logic Sports
- Be capable of proof described relations
- The ability to think and communication between him and other colleagues in the same material and other materials and this is very important to improve the relationship with some students. The student will develop its capacity to think and debate

List of Topics	No. of Weeks	Contact Hours
Mathematical Logic and methods of proof	3	9
Sets and Relations	6	18
Boolean algebras and their applications	2	6

Graphics Theory	2	6
Trees and their applications	2	6

**Textbook:**

Discrete Mathematics and Its Applications by K. Rosen, Mc Graw-Hill, 7th Edition (2011).