

## Approved Course Structure

**Name of the Program:** Integrated B.Sc. [Hons.] Mathematics - M.Sc. Mathematics

**Semester:** 1<sup>st</sup>

S. No.	Course Code	Course Title	L-T-P	Credits
1	MTL 1241	Elements of Discrete Mathematics	4-0-0	4
2	MTL 1231	Differential Calculus	4-0-0	4
3	PHL 1151	Basic Optics	4-0-0	4
	PHP 1151	Basic Optics Lab	0-0-4	2
4	BTL 1113	Basics of Biology	4-0-0	4
	BTL 1101	Conceptual Organic Chemistry		
5	BTP 1113	Basics of Biology Lab		
	BTP 1101	Concepts of Organic Chemistry Lab	0-0-4	2
6.	LNL 1411	Professional Communication	2-0-2	3
Total Credits			18-0-10	23

Apart from the above regular courses some students of this semester / batch have registered for following courses as backlog / Improvement courses (Fill this information below (if Applicable))

S. No.	Course Code	Course Title	L-T-P	Credits	Backlog / Improvement
1					
2					

**Semester:** 2<sup>nd</sup>

S. No.	Course Code	Course Title	L-T-P	Credits
1	MTL 1242	Fundamentals of Computers	2-0-0	2
	MTP 1242	Fundamentals of Computers Lab	0-0-4	2
2	MTL 1232	Integral Calculus	4-0-0	4

3	MTL 1233	Analytical Geometry of 3D and Trigonometry	4-0-0	4
4	BTL 1201/ BTL 1114	Chemical bonding, Transition Metal & Coordination Chemistry / Molecules and Basic Processes of Life	4-0-0	4
5	BTP 1201 / BTP 1114	Chemical bonding, Transition Metal & Coordination Chemistry Lab / Molecules and Basic Processes of Life Lab	0-0-4	2
6	PHL 1073 PHP 1073	Electromagnetics	4-0-0	4
		Electromagnetics Lab	0-0-4	2
7.	LNP 1142	Language Lab	0-0-2	1
		Total		25

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S. No.	Course Code	Course Title	L-T-P	Credits	Backlog / Improvement
1					
2					

**Name of the Program:** Integrated B.Sc. [Hons.] Mathematics - M.Sc. Mathematics

**Semester:** 3<sup>rd</sup>

S. No.	Course Code	Course Title	L-T-P	Credits
1	MTL 2231	Fundamentals of Algebra	4-1-0	5
2	MTL 2232	Real Analysis	4-1-0	5
3	MTL 2241	Computer Programming	3-0-0	3
	MTP 2241	Computer Programming Lab	0-0-4	2
4	BTL 2301/ BTL 2528	Fundamental of Physical Chemistry Nutrition and Health	4-0-0	4
	BTP 2301/ BTP 2528/	Fundamental of Physical Chemistry Lab Nutrition and Health Lab	0-0-4	2

6.	PCE 2021/ LNE 2043	Metaphysics of Human Existence Analyzing Sentence Structure	4-2-0	6
		Total Credits	19-4-8	27

Apart from the above regular courses some students of this semester / batch have registered for following courses as backlog / Improvement courses (Fill this information below (if Applicable))

S. No.	Course Code	Course Title	L-T-P	Credits	Backlog / Improvement
1					
2					

Semester: 4<sup>th</sup>

S. No.	Course Code	Course Title	L-T-P	Credits
1	MTL 2242	Combinatorial Mathematics	4-1-0	5
2	MTL 2251	Probability and Statistics	4-0-0	4
	MTP 2251	Probability and Statistics Lab	0-0-2	1
3	MTL 2243	Vector Calculus	4-1-0	5
4	BTL 2401/ BTL 2529	Analytical Methods in Chemistry / Applications of Biology	4-0-0	4
5	BTP 2401/ BTP 2529	Analytical Methods in Chemistry Lab / Applications of Biology Lab	0-0-4	2
5.	BTL 2805	Studies on Environmental Biology	4-0-0	4
		Total	20-2-6	25

Semester: 5<sup>th</sup>

S. No.	Course Code	Course Title	L-T-P	Credits
1	MTL-3231	Multivariable Calculus	4-1-0	5
2	MTL-3241	Coding Theory	4-1-0	5
3	MTL-3242	Fuzzy Logic and Applications	4-0-0	4
	MTP-3242	Fuzzy Logic and Applications Lab	0-0-2	1
4	MTL-3243	Integral Transforms	4-1-0	5
5	MTE-3241	Graph Theory	5-0-0	5
		Total Credits	21-3-2	25

Apart from the above regular courses some students of this semester / batch have registered for following courses as backlog / Improvement courses (Fill this information below (if Applicable))

S. No.	Course Code	Course Title	L-T-P	Credits	Backlog / Improvement
1					
2					

Name of the Program: Integrated B.Sc. [Hons.] Mathematics – M.Sc. Mathematics

Semester: 6<sup>th</sup>

S. No.	Course Code	Course Title	L-T-P	Credits
1	MTL 3244	Ordinary Differential Equation	4-0-2	5
2.	MTL 3245	Number Theory and Cryptography	4-1-0	5
3.	MTL 3232	Linear Algebra	4-1-0	5
4.	MTL 3261	Linear Programming and Game Theory	4-1-0	5
5.	MTE 3244	Biomathematics	5-0-0	5
		Total	21-3-2	25