



**School of Mathematics**  
**Program Structure of M.Sc. (Mathematics) Two Year Full Time Degree**  
**(For Entry Batch 2017-18 and 2018-19)**

1 <sup>st</sup> Semester							2 <sup>nd</sup> Semester						
Sl. No.	Course Code	Course Title	L	T	P	C	Sl. No.	Course Code	Course Title	L	T	P	C
1	MTL 6051	Abstract Algebra	4	0	0	4	1	MTL 6053	Linear Algebra	4	0	0	4
2	MTL 6052	Real Analysis	4	0	0	4	2	MTL 6054	Complex Analysis	4	0	0	4
3	MTL 6061	Discrete Mathematics	4	0	0	4	3	MTL 6065	Differential and Integral Equations	4	0	0	4
4	MTL 6062	Computer Programming and MATLAB	4	0	2	5	4	MTL 6071	Probability & Statistics	4	0	0	4
5	MTL 6063	Advanced Calculus and Special Functions	4	0	0	4	5	MTL 6066	Numerical Methods	3	1	2	5
<b>Total Credits</b>						<b>21</b>	<b>Total Credits</b>						<b>21</b>
3 <sup>rd</sup> Semester							4 <sup>th</sup> Semester						
Sl. No.	Course Code	Course Title	L	T	P	C	Sl. No.	Course Code	Course Title	L	T	P	C
1	MTL 7081	Optimization Techniques	3	1	0	4	1	MTL 7062	Differential Geometry	4	0	0	4
2	MTL 7051	Topology	4	0	0	4	2	MTL 7063	Modern Applied Algebra	4	0	0	4
3	MTL 7061	Calculus of Variations and Mechanics	4	0	0	4	3	MTL 7052	Functional Analysis	4	0	0	4
4	MTE 70XX	Elective -I	4	1	0	5	4	MTD 7091	Minor Project / Survey Article / Book Review				8
5		Open Elective-I	3	0	0	3	5	MTE 70XX	Elective -II	4	1	0	5
6		Open Elective-II	3	0	0	3							
<b>Total Credits</b>						<b>23</b>	<b>Total Credits</b>						<b>25</b>

Total Credits to be earned in order to become eligible for award of M.Sc. (Mathematics) (Two Year Full Time) Degree: **90**

LIST OF ELECTIVES TO OFFERED DURING JULY-NOVEMBER 2018 SEMESTER						
S. No.	Course Code	Course Title	L	T	P	C
4	MTE 7015	Advanced Topics in Algebra	4	1	0	5
17	MTE 7033	Econometrics	4	1	0	5
23	MTE 7231	Financial Mathematics	4	1	0	5

LIST OF OPEN ELECTIVES TO BE OFFERED DURING JULY-NOVEMBER 2018 SEMESTER						
S. No.	Course Code	Course Title	L	T	P	C
1	MTL 7081	Optimization Techniques	3	1	0	4