



**UNIVERSITY OF MADRAS**  
**INSTITUTE OF DISTANCE EDUCATION**  
**MSc MATHEMATICS**

<b>SEMESTER I</b>	<b>SUBJECTS</b>	<b>CREDIT</b>	<b>MAX MARKS</b>		<b>TOTAL</b>
<b>COURSE COMPONENT</b>			<b>INT</b>	<b>EXT</b>	
Core Paper-I	Algebra - I	4	20	80	100
Core Paper-II	Real Analysis - I	4	20	80	100
Core Paper-III	Ordinary Differential Equations	4	20	80	100
Core Paper-IV	Graph Theory	4	20	80	100
Elective Paper-I	Discrete Mathematics	3	20	80	100

<b>SEMESTER II</b>	<b>SUBJECTS</b>	<b>CREDIT</b>	<b>MAX MARKS</b>		<b>TOTAL</b>
<b>COURSE COMPONENT</b>			<b>INT</b>	<b>EXT</b>	
Core Paper-V	Algebra – II	4	20	80	100
Core Paper-VI	Real Analysis – II	4	20	80	100
Core Paper-VII	Partial Differential Equations	4	20	80	100
Core Paper-VIII	Numerical Analysis	4	20	80	100
Elective Paper- II	Java	3	20	80	100

<b>SEMESTER III</b>	<b>SUBJECTS</b>	<b>CREDIT</b>	<b>MAX MARKS</b>		<b>TOTAL</b>
<b>COURSE COMPONENT</b>			<b>INT</b>	<b>EXT</b>	
Core Paper-IX	Complex Analysis - I	4	20	80	100
Core Paper-X	Topology	4	20	80	100
Core Paper-XI	Operations Research	4	20	80	100
Core Paper-XII	Probability Theory	4	20	80	100
Elective Paper-III	Number Theory Cryptography	3	20	80	100

<b>SEMESTER IV</b>	<b>SUBJECTS</b>	<b>CREDIT</b>	<b>MAX MARKS</b>		<b>TOTAL</b>
<b>COURSE COMPONENT</b>			<b>INT</b>	<b>EXT</b>	
Core Paper-XIII	Complex Analysis - II	4	20	80	100
Core Paper-XIV	Differential Geometry	4	20	80	100
Core Paper-XV	Functional Analysis	4	20	80	100
Core Paper-XVI	Mechanics	4	20	80	100
Elective Paper-IV	Mathematical Statistics	3	20	80	100