Indus University
Institute of Sciences, Humanities & Liberal Studies
M.Sc. Mathematics Teaching Scheme (w.e.f July 2021)
Semester-I

SR NO	CODE	SUBJECTS	TEACHING SCHEME			CREDITS	HOURS	EXAMINATION SCHEME				TOTAL
								THEORY		PRACT		
			L	T	P			CIE	ESE	CIE	ESE	
1	MEN0101	Communicative English	2	0	0	2	2	60	40	0	0	100
2	MMA0102	Topology	4	0	0	4	4	60	40	0	0	100
3	MMA0104	Advanced Linear Algebra	4	0	0	4	4	60	40	0	0	100
4	MMA0106	Theory of Functions of Complex Variables	4	0	0	4	4	60	40	0	0	100
5	MMA0107	Integral Transforms	4	0	0	4	4	60	40	0	0	100
6	MMA0108	Python Programming	2	0	4	4	6	60	40	60	40	200
		Total	**20**	**0**	**4**	**22**	**24**					**700**

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Semester-II

SR NO	CODE	SUBJECTS	TEACHING SCHEME			CREDITS	HOURS	EXAMINATION SCHEME				TOTAL
								THEORY		PRACT		
			L	T	P			CIE	ESE	CIE	ESE	
1	MEN0201	Academic writing	2	0	0	2	2	60	40	0	0	100
2	MMA0201	Real Analysis	4	0	0	4	4	60	40	0	0	100
3	MMA0203	Mathematical Statistics	4	0	0	4	4	60	40	0	0	100
4	MMA0205	Mechanics	4	0	0	4	4	60	40	0	0	100
5	MMA0206	Differential Geometry	4	0	0	4	4	60	40	0	0	100
6	MMA0207	Theory and problems of ordinary differential equations	4	0	0	4	4	60	40	0	0	100
7	MMA0208	Abstract Algebra	4	0	0	4	4	60	40	0	0	100
		Total	**26**	**0**	**0**	**26**	**26**					**700**

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M.Sc. Mathematics Teaching Scheme (w.e.f. July 2021)
Semester-III

| SR NO | CODE | SUBJECTS | TEACHING SCHEME | | | CREDITS | HOURS | EXAMINATION SCHEME | | | | |
| | | | L | T | P | | | THEORY | | PRACT | | |
								CIE	ESE	CIE	ESE	TOTAL
1	MMA0301	Partial Differential Equations	4	0	0	4	4	60	40	0	0	100
2	MMA0302	Advanced Abstract Algebra	4	0	0	4	4	60	40	0	0	100
3	MMA0303	Numerical Analysis	4	0	0	4	4	60	40	0	0	100
4	MMA0304	Problem Solving Techniques - I	4	0	0	4	4	60	40	0	0	100
5	MMA0305	Operations Research	4	0	0	4	4	60	40	0	0	100
6	MMA0306	Open Elective-I	4	0	0	4	4	60	40	0	0	100
		Total	**24**	**0**	**0**	**24**	**24**					**600**

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Semester-IV

| SR NO | CODE | SUBJECTS | TEACHING SCHEME | | | CREDITS | HOURS | EXAMINATION SCHEME | | | | |
| | | | L | T | P | | | THEORY | | PRACT | | |
								CIE	ESE	CIE	ESE	TOTAL
1	MMA0401	Functional Analysis	4	0	0	4	4	60	40	0	0	100
2	MMA0402	Integral Equations	4	0	0	4	4	60	40	0	0	100
3	MMA0403	Number Theory	4	0	0	4	4	60	40	0	0	100
4	MMA0404	Problem Solving Techniques - II	4	0	0	4	4	60	40	0	0	100
5	MMA0405	Open Elective-II	4	0	0	4	4	60	40	0	0	100
6	MMA0406	Project	0	0	16	8	16	0	0	120	80	200
		Total	**20**	**0**	**16**	**28**	**36**					**700**

Subjects for Electives:

OE-1	1	FEM	3
OE-1	2	Mathematical Control Theory	3
OE-1	**3**	**Discrete Mathematics**	**3**
OE-1	4	MOOCs	3
OE-2	5	ANN	4
OE-2	6	Graph Theory	4
OE-2	7	Special Functions	4
OE-2	8	Mathematical Finance	4