

Swami Vivekanand University, Sagar (M.P.)

As per model syllabus of U.G.C. New Delhi, drafted by
Central Board of Studies and Approved by Higher
Education and the Governor of M.P.



विज्ञान संकाय

Faculty of Science
Syllabus & Prescribed Books
Subject-Mathematics

M.Sc./ M.A. Semester Examination
2016-18
I to IV Semester

कुलसचिव
स्वामी विवेकानन्द विश्वविद्यालय सिरोंजा सागर (म.प्र.)



COURSEWISE SCHEME

Semester – Ist

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|-------------------------|---------------------|-------------------------------|-------|
| 1. Course Code | : MSCMAT | 5. Optional Subject | : 1 |
| 2. Course Name | : M.Sc. Mathematics | 6. Maximum Marks | : 250 |
| 3. Total Theory Subject | : 5 | 7. Minimum Passing Percentage | : 36 |
| 4. Compulsory Subject | : 4 | | |

Sub. Code	Subject Name	Theory										Practical		Total	
		Paper					CCE		Total Marks		Max.	Min.	Max.	Min.	
		1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.					
Compulsory															
MSCMAT 101	Advance Abstract Algebra-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 102	Real Analysis	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 103	Topology-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 104	Complex Analysis - I	42	0	0	42	15	8	3	50	18	0	0	50	18	
Optional Paper Selected Any One															
MSCMAT 105-A	Advance Discrete Mathematics-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 105-B	Differential Equations-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 105-C	Differential Geometry of Manifolds-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 105-D	Fundamental of computer Science Theory & Practical-I	25	0	0	25	9	10	4	35	13	15	5	50	18	



COURSEWISE SCHEME

Semester – IInd

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|-------------------------|--------------------|-------------------------------|-------|
| 1. Course Code | : MSCMAT | 5. Optional Subject | : 1 |
| 2. Course Name | : M.Sc Mathematics | 6. Total Marks | : 250 |
| 3. Total Theory Subject | : 5 | 7. Minimum Passing Percentage | : 36 |
| 4. Compulsory Subject | : 4 | | |

Sub. Code	Subject Name	Theory										Practical		Total	
		Paper					CCE		Total Marks		Max.	Min.	Max.	Min.	
		1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.					
Compulsory															
MSCMAT 201	Advance Abstract Algebra-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 202	Lebesque Measure and intergration	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 203	Topology-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 204	Complex Analysis - II	42	0	0	42	15	8	3	50	18	0	0	50	18	
Optional Paper Selected Any One															
MSCMAT 205-A	Advance Discreate mathematics-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 205-B	Differential Equation -II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 205-C	Differential Geometry of Manifold -II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 205-D	Fundamentals of computer Science-II Theory & Practical	25	0	0	25	9	10	4	35	13	15	5	50	18	



COURSEWISE SCHEME

Semester – IIIrd

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|-------------------------|---------------------|-------------------------------|-------|
| 1. Course Code | : MSCMAT | 5. Optional Subject | : 1 |
| 2. Course Name | : M.Sc. Mathematics | 6. Total Maximum Marks | : 300 |
| 3. Total Theory Subject | : 5 | 7. Minimum Passing Percentage | : 36 |
| 4. Compulsory Subject | : 4 | | |

Sub. Code	Subject Name	THEORY									Practical		Total	
		Paper					CCE		Total Marks		Max.	Min.	Max.	Min.
		1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.				
Compulsory														
MSCMAT 301	Functional Analysis-I	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCMAT 302	Partial differential Equations-I	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCMAT 303	Advanced Graph Theory –I	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCMAT 304	Operations research –I	42	0	0	42	15	8	3	50	18	0	0	50	18
Optional Paper Selected Any One														
MSCMAT 305-A	Mechanics –I	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCMAT 305-B	Programming in C (theory & practical)	25	0	0	25	9	10	4	35	13	15	5	50	18



COURSEWISE SCHEME

Semester – IVth

1. Course Code	: MSCMAT	5. Optional Subject	: 1
2. Course Name	: M.Sc. Mathematics	6. Project Marks	: 50
3. Total Theory Subject	: 5	7. Total Maximum Marks	: 300
4. Compulsory Subject	: 4	8. Minimum Passing Percentage	: 36

Sub. Code	Subject Name	THEORY										Practical		Total	
		Paper					C		Total Marks		Max.	Min.	Max.	Min.	
		1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.					
Compulsory															
MSCMAT 401	Functional Analysis-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 402	Partial differential Equations-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 403	Advanced Graph Theory –II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 404	Operations research –II	42	0	0	42	15	8	3	50	18	0	0	50	18	
Optional Paper Selected Any One															
MSCMAT 405-A	Mechanics –II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCMAT 405-B	Programming in C (theory & practical)-II	25	0	0	25	9	10	4	35	13	15	5	50	18	
Compulsory															
MSCMAT 406	Project Work	0	0	0	0	0	0	0	50	18	0	0	50	18	