

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.



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Faculty of Science

Syllabus & Prescribed Books

Subject- Physics

M.Sc. Semester Examination

2016-18

I to IV Semester

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COURSEWISE SCHEME Ist SEMESTER

1. Course Code	: MSCPHY	5. Total Practical	: 2
2. Course Name	: M.Sc. Physics	6. Total Practical Marks	: 100
3. Total Theory Subject	: 4	7. Total Marks	: 300
4. Total Theory Marks	: 200	8. Minimum Passing Percentage	: 36

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														
MSCPHY 101	Mathematical Physics	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCPHY 102	Classical Mechanics	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCPHY 103	Quantum Mechanics-I	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCPHY 104	Electronics Devices	42	0	0	42	15	8	3	50	18	0	0	50	18
MSCPHY 105	Practical-I Gen. Physics Based Practical	0	0	0	0	0	0	0	0	0	50	18	50	18
MSCPHY 106	Practical-II Electronics Based	0	0	0	0	0	0	0	0	0	50	18	50	18



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4. Total Theory Marks	: 200	8. Minimum Passing Percentage	: 36

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															
MSCPHY 201	Quantum Mechanics-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 202	Statistical Mechanics	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 203	Electronics Dynamics and	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 204	Atomic and Molecules Physics	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 205	Practical-I General Physics Based	0	0	0	0	0	0	0	0	0	50	18	50	18	
MSCPHY 206	Practical-II Electronics Based	0	0	0	0	0	0	0	0	0	50	18	50	18	



COURSEWISE SCHEME IIIrd SEMESTER

1. Course Code	: MSCPHY	5. Total Practical	: 2
2. Course Name	: M.Sc. Physics	6. Total Practical Marks	: 100
3. Total Theory Subject	: 4	7. Total Marks	: 300
4. Total Theory Marks	: 200	8. Minimum Passing Percentage	: 36

Sub. Code	Subject Name	Theory										Practical		Total	
		Paper					CCE		Total Marks		Max.	Min.	Max.	Min.	
1st	2nd	3rd	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.					
Compulsory															
MSCPHY 301	Condensed matter physics-I	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 302	Nuclear and particle physics	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 303	Digital electronics	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 304	Atomic and molecular physics	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 305	Practical-I	0	0	0	0	0	0	0	0	0	50	18	50	18	
MSCPHY 306	Practical-II	0	0	0	0	0	0	0	0	0	50	18	50	18	



COURSEWISE SCHEME IVth SEMESTER

1. Course Code	: MSCPHY	6. Total Practical Marks	: 100
2. Course Name	: M.Sc. Physics	7. Project Marks	: 50
3. Total Theory Subject	: 4	8. Total Marks	: 350
4. Total Theory Marks	: 200	9. Minimum Passing Percentage	: 36
5. Total Practical	: 2		

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															
MSCPHY 401	Condensed matter physics-II	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 402	Laser Physics	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 403	Computer Programming & Informatics	42	0	0	42	15	8	3	50	18	0	0	50	18	
Optional															
MSCPHY 404-A	Communication electronics	42	0	0	42	15	8	3	50	18	0	0	50	18	
MSCPHY 404-B	Digital electronics	42	0	0	42	15	8	3	50	18	0	0	50	18	
Compulsory															
MSCPHY 405	Practical-I	0	0	0	0	0	0	0	0	0	50	18	50	18	
MSCPHY 406	Practical-II	0	0	0	0	0	0	0	0	0	50	18	50	18	
MSCPHY 407	Project Work	0	0	0	0	0	0	0	50	18	0	0	50	18	