

RANI DURGAVATI VISHVAVIDHYALAYA, JABALPUR
DEPARTMENT OF POST GRADUATE STUDIES AND RESEARCH IN
PHYSICS AND ELECTRONICS

M. Sc. PHYSICS

Choice Based Credit System (With effect from 2016-17)
(In Accordance with University Ordinance No – 222)

SEMESTER – I

Theory Courses		Marking Scheme					
Paper Code	Title of Paper	Credits	End Semester Exam.	CCE	Total		
PHY C- 101	Core Paper Mathematical Physics	5	60	40	100		
PHY C- 102	Core Paper Classical Mechanics	5	60	40	100		
PHY C- 103	Core Paper Electronic Devices	5	60	40	100		
PHY E- 104 PHY E - 105	Elective Paper (any one) A - Computational Methods and Programming B - Physics of Electronic devices & Fabrication of IC & Systems	5	60	40	100		
Ability Enhancement and Skill Development Practical Courses		CCE			Total		
		Credits	End Semester Exam.	Pract Record . & Viva			Seminar related to Pract
PHY L- 106	Lab A	3	60	20	20	40	100
PHY L- 107	Lab B	3	60	20	20	40	100
Total		26	360	240		600	

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SEMESTER – II

Theory Courses				Marking Scheme			
Paper Code	Title of Paper			Credits	End Semester Exam.	CCE	Total
PHY C- 201	Core Paper Quantum Mechanics -I			5	60	40	100
PHY C- 202	Core Paper Statistical Mechanics			5	60	40	100
PHY C- 203	Core Paper Electrodynamics and Plasma Physics			5	60	40	100
PHY E- 204 PHY E- 205	Elective Paper (any one) A - Condensed Matter Physics B - Informatics			5	60	40	100
Ability Enhancement and Skill Development (Practical Course)				CCE		Total	
				Credits	End Semester Exam.		
PHY L- 206	Lab A	3	60	20	20	40	100
PHY L- 207	Lab B	3	60	20	20	40	100
Total		26	360	240		600	

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SEMESTER – III

Theory Courses		Marking Scheme					
Paper Code	Title of Paper	Credits	End Semester Exam.	CCE	Total		
PHY C - 301	Core Paper Quantum Mechanics – II	5	60	40	100		
PHY C - 302	Core Paper Nuclear and Particle Physics	5	60	40	100		
III & IV	Special Elective papers (Any two)	5	60	40	100		
PHY SE – 303 PHY SE – 304 PHY SE – 305 PHY SE – 306	A- Condensed Matter Physics - I B - Electronics - I C - Materials Science - I D - Computational Physics - I	5	60	40	100		
Ability Enhancement and Skill Development Practical Courses			CCE			Total	
			Credits	End Semester Exam.	Pract Recor d. & Viva		
PHY L – 307 / PHY L – 308/ PHY L – 309 / PHY L – 310	Lab A	3	60	20	20	40	100
	Lab B	3	60	20	20	40	100
Total		26	360	240		600	

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SEMESTER – IV

Theory Courses		Marking Scheme				
Paper Code	Title of Paper	Credits	End Semester Exam.	CCE	Total	
PHY C - 401	Core Paper Atomic and Molecular Physics	5	60	40	100	
PHY E – 402 PHY E – 403 PHY E – 404	Elective (Any One of the following) A - Physics of Lasers and Laser B - Applications C - Non-linear Dynamics D - Physics of Nano-materials	5	60	40	100	
PHY SE – 405 PHY SE – 406 PHY SE – 407 PHY SE – 408	Special Elective Papers (Any two) A - Condensed Matter Physics - II B - Electronics - II C - Materials Science - II D - Computational Physics - II	5	60	40	100	
		5	60	40	100	
Ability Enhancement and Skill Development Practical Courses			CCE		Total	
		Credits	End Semester Exam.	Pract Recor d. & Viva	Seminar related to Pract	
PHY L – 409/ PHY L – 410/ PHY L – 411/ PHY L – 412	Lab A	3	60	20	20	40 100
	Lab B	3	60	20	20	40 100
PHY PW– 413	Project Work & Skill Development	4	60 (Report + Prest.)	40		100
Total		30	420	280		700