

Department of Physics
Curriculum Structure for M.Sc Program with specialization in Electronics
Batch: 2016-18

DIT UNIVERSITY

Dehradun



CURRICULUM STRUCTURE
FOR

M. Sc. in Physics with specialization in Electronics.
BATCH 2016-18

Department of Physics
Curriculum Structure for M.Sc Program with specialization in Electronics
Batch: 2016-18

Year: 1st

Semester: I

Course Code	Course Title	Evaluation Scheme (%)															Credit
		Continual Evaluation (CE)											End Term Evaluation(ETE)			Total (CE+ ETE)	
		Theory							Lab		Total (CE)	Theory	Lab	Total (ETE)			
		L	T	P	Mid Term I	Mid Term II	Class Test	Assignments	Quizzes	Lab Record					Viva-voce		
PHY-101	Mathematical Physics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-102	Classical Mechanics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-103	Quantum Mechanics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-104	Statistical Mechanics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-105 / DA1210	Computer Fundamentals and C Programming*	3	0	2	12	12	5	5	5	6	6	51	41	8	49	100	4
PHY-106	Physics Lab-1	0	0	6						20	20	40		60	60	100	3
	Total																23

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Semester: II

Course Code	Course Title	Evaluation Scheme (%)															Credit
		Continual Evaluation (CE)											End Term Evaluation(ETE)			Total (CE+ ETE)	
		Theory									Lab		Total (CE)	Theory	Lab		
		L	T	P	Mid Term I	Mid Term II	Class Test	Assignments	Quizzes	Lab Record	Viva-voce						
PHY-201	Condensed Matter Physics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-202	Electrodynamics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-203	Basic Electronic	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-204	Atomic and Molecular Physics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-205	Nuclear and Particle Physics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-206	Physics Lab II	0	0	6						20	20	40		60	60	100	3
	Total																23

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Year: 2nd

Semester: III

Course Code	Course Title	Evaluation Scheme (%)															Credit
		Continual Evaluation (CE)											End Term Evaluation(ETE)			Total (CE+ ETE)	
		Theory									Lab		Total (CE)	Theory	Lab		
		L	T	P	Mid Term I	Mid Term II	Class Test	Assignments	Quizzes	Lab Record	Viva-voce						
PHY-301	Physics of Semiconductor Devices	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-302	Analog Electronics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-303	Computational Techniques and Programming	3	0	2	12	12	5	5	5	6	6	51	41	8	49	100	4
PHY-304	Measurement Techniques in Physics	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
PHY-305	Physics Lab-III	0	0	6						20	20	40		60	60	100	3
PHY-306	Seminar	0	0	0								100				100	2
	Total																21

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Semester: IV

Course Code	Course Title	Evaluation Scheme (%)															Credit
		Continual Evaluation (CE)											End Term Evaluation (ETE)			Total (CE+ ETE)	
		Theory							Lab		Total (CE)	Theory	Lab	Total (ETE)			
		L	T	P	Mid Term I	Mid Term II	Class Test	Assignments	Quizzes	Lab Record					Viva-voce		
	Elective-I	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
	Elective-II	4	0	0	15	15	5	5	5	-	-	45	55	-	55	100	4
	Dissertation											100				100	6
	Total																14

Elective-I

Course Code	Course Title	Credit
PHY-401	Digital Electronics	4
PHY-402	Nano Electronics	4
PHY-403	Opto Electronics	6

Elective-II

Course Code	Course Title	Credit
PHY-404	Physics of Lasers and Applications	4
PHY-405	Science and Technology of Renewable Energy Sources	4
PHY-406	Microprocessor and Applications	4

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Summary of Credits

Year	Semester	Credit	Year Credit
First Year	I	23	46
	II	23	
Second Year	III	21	35
	IV	14	
Total Credits			81