

Central University of Himachal Pradesh

Department of Physics and Astronomical Science



**M. Sc. Physics Programme
&
B.Sc. (Physics/ Honours)**

Semester: August-December 2018

PG Theory Course + Labs				
Semester-I (M.Sc. Physics)				
C.No	Course Code	Course Name	Course Credit	Course Instructor(s) (Tentative)
CC	PAS 401A	Classical Mechanics	4	SV
CC	PAS 403A	Classical Electrodynamics	4	RP
CC	PAS 404A	Quantum Mechanics	4	AC
CC	PAS 413	General Physics Laboratory	2	SV+ AC
CO	PAS 402	Mathematical Physics	2	RP
F-HM	-	-	2	-
F-SD	-	-	2	-
		Total Credit	20	
Semester-III (M.Sc. Physics)				
CC	PAS 408A	Condensed Matter Physics	4	JK
CC	PAS 409A	Nuclear and Particle Physics	4	OSKS
CC	PAS 411A	Atomic, Molecular and Laser Physics	4	DSV
ES	PAS 426A	Quantum Field Theory	4	BCC
CC	PAS 423	Modern Physics Laboratory	2	OSKS
EO	CSI 411	Modeling and Simulation	2	OSKS
		Total Credit	20	
UG Theory Course + Labs				
Semester-I (B.Sc. Physics)				
CC-I	PAS 101	Mathematical Physics-I	4	AC
CC- I Lab	PAS 101 L	Mathematical Physics-I Lab	2	JK + AC
CC-II	PAS 102	Mechanics	4	SV
CC- II Lab	PAS 102 L	Mechanics Lab	2	SV+DSV
GE-1	CCS 101	Chemistry-I	4	SC
GE-1Lab	CCS 101L	Chemistry-I Lab	2	SC
SD-1/AE-1	EEL	English / MIL	4	-
		Total Credit	22	

Semester-III (B.Sc. Physics)				
CC - V	PAS 201	Mathematical Physics- II	4	RKS
CC - V Lab	PAS 201L	Mathematical Physics- II Lab	2	RKS +
CC - VI	PAS 202	Thermal Physics	4	RD
CC- VI Lab	PAS 202L	Thermal Physics Lab	2	RD
CC - VII	NOC 18_ee33	(NPTEL)	4	JK
CC- VII Lab	PAS 203L	Digital Systems and Applications Lab	2	JK +
HM -1 / SE-1		Human Making-1/Skill Enhancement -1	4	BCC + SC
GE-3		Mathematics-1	5	-
GE-3 Tutorial		Mathematics-1 Tutorial	1	-
		Total Credit	28	
Semester-V (B.Sc. Physics)				
CC	PAS 212	Mathematical Physics-III	4	RP
CC Lab	PAS 212L	Mathematical Physics-III Lab	2	RP
CC	PAS 302	Solid State Physics	4	RP
CC Lab	PAS 302L	Solid State Physics Lab	2	RP
ES- 1	PAS 205	Elements of Modern Physics	4	DSV
ES – 1 Lab/Tutorial	PAS 205L	Elements of Modern Physics Lab	2	DSV +
ES- 2	PAS 316	Classical Dynamics	4/5	RP
ES- 2 Lab/Tutorial	PAS 316L	Classical Dynamics Lab	2/1	RP
		Total Credit	24	

