

K L E F															
DEPARTMENT OF PHYSICS															
M.Sc., A.Y. 2019-2021 BATCH															
Program Articulation Matrix															

S.No	Course Code	Course Name	Category	L	T	P	S	C r	C H	PO						
										1	2	3	4	5	6	7
1	19PH5101	Mathematical Physics	Prof. Core	4	0	0	0	4	4	3	3					3
2	19PH5102	Classical Mechanics	Prof. Core	4	0	0	0	4	4	3	3					
3	19PH5103	Electrodynamics	Prof. Core	4	0	0	0	4	4	2	3	3				
4	19PH5104	Analog Electronics	Prof. Core	4	0	0	0	4	4	2	3	3				3
5	19PH5105	Computational Physics	Prof. Core	4	0	0	0	4	4	3	2					
6	19PH5106	Analog Electronics Lab	Prof. Core	0	0	6	0	3	6			3				
7	19PH5107	Computational Physics Lab	Prof. Core	0	0	4	0	2	4	3	3					3
8	19PH5208	Seminar-1	Prof. Core	0	0	2	0	1	2							
9	19PH5201	Statistical Mechanics	Prof. Core	4	0	0	0	4	4	2	3					
10	19PH5202	Quantum Mechanics – 1	Prof. Core	4	0	0	0	4	4	3	3					3
11	19PH5203	Fiber Optics and Non-linear optics	Prof. Core	4	0	0	0	4	4	2	3					
12	19PH5204	Solid State Physics-1	Prof. Core	4	0	0	0	4	4		3		3			
13	19PH5205	Digital Electronics	Prof. Core	4	0	0	0	4	4	2	2	3				
14	19PH5206	Solid State Physics-1 Lab	Prof. Core	0	0	6	0	3	6			3				3
15	19PH5207	Digital Electronics Lab	Prof. Core	0	0	6	0	3	6			3				
16	19PH5208	Seminar-2	Prof. Core	0	0	2	0	1	2	2	3					

17	19PH5301	Quantum Mechanics-2	Prof. Core	4	0	0	0	4	4	2	3					3
18	19PH5302	Atomic and Molecular Spectroscopy	Prof. Core	4	0	0	0	4	4	2	3					
19	19PH5303	Nuclear Physics	Prof. Core	2	0	0	0	2	2	2	3					
20	19PH5304	Particle Physics	Prof. Core	2	0	0	0	2	2	2	3					
21	19PH5305	Solid State Physics - 2	Prof. Core	4	0	0	0	4	4	2	3					
22	19PH5306	Lasers and Photonics	Prof. Core	4	0	0	0	4	4	2	3					
23	19PH5307	Term paper	Prof. Core	0	0	4	0	2	4						4	
24	19PH5308	Solid State Physics-2 Lab	Prof. Core	0	0	6	0	3	6		3		4			
25	19PH54E1	Experimental Techniques	Prof. Elective	3	0	0	0	3	3	2	3	3		4		
26	19PH54E2	Basic Communication Theory	Prof. Elective	3	0	0	0	3	3		3				4	
27	19PH54E3	Physics of Nanomaterials	Prof. Elective	3	0	0	0	3	3	2	3	2	3			
28	19PH54E4	Radar Systems and Satellite communications	Prof. Elective	3	0	0	0	3	3	2			3	3		
29	19PH54E5	Thin-Film Technology	Prof. Elective	3	0	0	0	3	3	2	3	3				
30	19PH54E6	Antenna Theory and Radio-wave Propagation	Prof. Elective	3	0	0	0	3	3		3		3		4	
31	19PH5401	Dissertation with Research Publication	Prof. Core	0	0	8	0	8	16		3			5		5
32	20UC1102	Design Thinking and Innovation - 1	Skill Development	1	0	0	4	2	-	2	2	2	1	2		
33	20UC1203	Design Thinking and Innovation - 2	Skill Development	1	0	0	4	2	-	2	3	2	2	3		