

K L E F
DEPARTMENT OF PHYSICS
M.Sc., A.Y. 2021-2023 BATCH
Program Articulation Matrix

S.No	Course Code	Course Name	Category	L	T	P	S	C r	P R	PO						
										1	2	3	4	5	6	7
1	21PH5101	Mathematical Physics	Prof. Core	4	0	0	0	4	4	3	3					3
2	21PH5102	Classical Mechanics	Prof. Core	4	0	0	0	4	4	3	3					
3	21PH5103	Electrodynamics	Prof. Core	4	0	0	0	4	4	2	3	3				
4	21PH5104	Analog Electronics	Prof. Core	4	0	0	0	4	4	2	3	3				3
5	21PH5105	Computational Physics	Prof. Core	4	0	0	0	4	4	3	2					
6	21PH5106	Analog Electronics Lab	Prof. Core	0	0	6	0	3	6			3				
7	21PH5107	Computational Physics Lab	Prof. Core	0	0	4	0	2	4	3	3					3
8	21PH5201	Statistical Mechanics	Prof. Core	4	0	0	0	4	4	2	3					
9	21PH5202	Quantum Mechanics – 1	Prof. Core	4	0	0	0	4	4	3	3					3
10	21PH5203	Fiber Optics and Non-linear optics	Prof. Core	4	0	0	0	4	4	2	3					
11	21PH5204	Solid State Physics-1	Prof. Core	4	0	0	0	4	4		3		3			
12	21PH5205	Digital Electronics	Prof. Core	4	0	0	0	4	4	2	2	3				
13	21PH5206	Solid State Physics-1 Lab	Prof. Core	0	0	6	0	3	6			3				3
14	21PH5207	Digital Electronics Lab	Prof. Core	0	0	6	0	3	6			3				
15	21PH5208	Seminar	Prof. Core	0	0	2	0	1	2	2	3					
16	21PH5301	Quantum Mechanics-2	Prof. Core	4	0	0	0	4	4	2	3					3
17	21PH5302	Atomic and Molecular	Prof. Core	4	0	0	0	4	4	2	3					

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