

Indus University Institute of Sciences, Humanities & Liberal Studies, Department of Physics												
M.Sc. Physics Teaching Scheme (w.e.f july 2019) semester-I												
SR NO	CODE	SUBJECTS	TEACHING SCHEME			CRE DITS	HO URS	EXAMINATION SCHEME				TOTAL
			L	T	P			THEORY		PRACT		
								CIE	ESE	CIE	ESE	
1	MPH0101	Mathematical Physics-I & Classical Mechanics	4	0	0	4	4	60	40	0	0	100
2	MPH0102	Quantum Mechanics	4	0	0	4	4	60	40	0	0	100
3	MPH0103	Electromagnetic Theory - I & Electronics-I	4	0	0	4	4	60	40	0	0	100
4	MPH0104	Computational Methods &	4	0	0	4	4	60	40	0	0	100
5	MPH0105	Experimental	0	0	6	3	6	0	0	60	40	100
6	MPH0106	Experimental	0	0	6	3	6	0	0	60	40	100
7	MEN0101	English	2	0	0	2	2	60	40	0	0	100
Total			18	0	12	24	30					700

Indus University												
Institute of Sciences, Humanities & Liberal Studies, Department of Physics												
M.Sc. Physics Teaching Scheme semester-II												
SR NO	CODE	SUBJECTS	TEACHING SCHEME			CRE DITS	HO URS	EXAMINATION SCHEME				TOTAL
			L	T	P			THEORY		PRACT		
								CIE	ESE	CIE	ESE	
1	MPH0201	Mathematical Physics-II &	4	0	0	4	4	60	40	0	0	100
2	MPH0202	Quantum Mechanics	4	0	0	4	4	60	40	0	0	100
3	MPH0203	Electromagnetic Theory - II & Electronics-II	4	0	0	4	4	60	40	0	0	100
4	MPH0204	Atomic/Molecular Physics & Spectroscopy	4	0	0	4	4	60	40	0	0	100
5	MPH0205	Experimental	0	0	6	3	6	0	0	60	40	100
6	MPH0206	Experimental	0	0	6	3	6	0	0	60	40	100

7	MEN0201	Academic Writing	2	0	0	2	2	60	40	0	0	100
Total			18	0	12	24	30					700



Indus University
Indus Institute of Sciences, Humanities & Liberal Studies
M.Sc. Physics Teaching Scheme (w.e.f July 2019) semester-III

SR NO	CODE	SUBJECTS	TEACHING SCHEME			CRE DITS	HO URS	EXAMINATION SCHEME				
			L	T	P			THEORY		PRACT		TOTAL
								CIE	ESE	CIE	ESE	
1	MPH0301	Solid State Physics	4	0	0	4	4	60	40	0	0	100
2	MPH0302	Electrodynamics and Plasma Physics	4	0	0	4	4	60	40	0	0	100
3	MPH0303	Microprocessor and Remote Sensing	4	0	0	4	4	60	40	0	0	100
3 to 3	MPH0304 to MPH0307	Elective Paper-I	4	0	0	4	4	60	40	0	0	100
4	MPH0308	Experimental	0	0	6	3	6	0	0	60	40	100
5	MPH0309	Project	0	0	10	5	10	0	0	60	40	100
Total			16	0	16	24	32					600

Elective Papers:

1	MPH0304	Quantum Field Theory
2	MPH0305	Computational Physics
3	MPH0306	Laser Physics and Technology
4	MPH0307	Physics of Ocean and Satellite Oceanography



Indus University
Institute of Sciences, Humanities & Liberal Studies
M.Sc. Physics Teaching Scheme (w.e.f July 2019) semester-IV

SR NO	CODE	SUBJECTS	TEACHING SCHEME			CRE DITS	HO URS	EXAMINATION SCHEME				
			L	T	P			THEORY		PRACT		TOTAL
								CIE	ESE	CIE	ESE	

1	MPH0401	Nuclear and Particle Physics	4	0	0	4	4	60	40	0	0	100
2	MPH0402	Digital Communication and	4	0	0	4	4	60	40	0	0	100
3	MPH0403	Nano Science and Thin Film Physics	4	0	0	4	4	60	40	0	0	100
4	MPH0404 to MPH0407	Elective paper-II	4	0	0	4	4	60	40	0	0	100
5	MPH0408	Experimental	0	0	4	3	6	0	0	60	40	100
6	MPH0409	Project	0	0	12	5	10	0	0	60	40	100
7	MEN0401	Basic Employability Skills Training	2	0	0	2	2	60	40	0	0	100
		Total	18	0	16	26	32					700

Elective papers:II		
1	MPH0404	High Energy Physics
2	MPH0405	Astrophysics and Cosmology
3	MPH0406	Microwave Electronics and Radar
4	MPH0407	Ocean Modelling and Data Assimilation

