

<b>Integrated M.Sc &amp; M.Sc Physics Courses</b>				
<b>S1 Int M.Sc Physics (2021 batch) (2018 Curriculum) (Unless there is change in curriculum for 2021)</b>				
<b>Code</b>	<b>Title</b>	<b>L-T-P</b>	<b>Cr</b>	<b>Exam slot</b>
18ENG101	Communicative English	2 0 2	3	A
18CSA102	Introduction to Programming I	3 0 2	4	B
18PHY105	Introduction to Mechanics	3 1 0	4	C
18MAT107	Single Variable Calculus	3 1 0	4	D
18MAT108	Vectors and Geometry	3 1 0	4	E
18CHY103	Chemistry I	3 0 0	3	G
18CHY181	Chemistry Lab	0 0 2	1	L1
18CUL101	Cultural Education I	2 0 0	2	F
<b>Totals</b>		<b>28hrs</b>	<b>25</b>	

<b>S3 Int M.Sc Physics (2020 batch) (2018 Curriculum)</b>				
<b>Code</b>	<b>Title</b>	<b>L-T-P</b>	<b>Cr</b>	<b>Exam slot</b>
18MAT210	Transforms and PDE	3 1 0	4	A
18MAT220	Introduction to Linear Algebra	3 1 0	4	B
18PHY206	Intermediate Mechanics I	3 1 0	4	C
18PHY207	Introduction to Thermal & Modern Physics	3 1 0	4	D
18ENV300	Environmental Science & Sustainability	0 0 3	3	H
18MAL101/SAN101	Malayalam 1/Sanskrit 1	1 0 2	2	J
18PHY281	Physics Lab II	0 0 3	1	L1
18SSK201	Life Skills I	1 0 2	2	G
18AVP201	Amrita Value Programme		1	F
<b>Total</b>		<b>28 hrs</b>	<b>25</b>	

<b>S5 Int M.Sc Physics (2019 batch) Int M.Sc (Physics) (2018 Curriculum)</b>				
<b>Code</b>	<b>Title</b>	<b>L-T-P</b>	<b>Cr</b>	<b>Exam slot</b>

18PHY301	Classical Mechanics	3-1-0	4	A
18PHY302	Mathematical Physics I	4-1-0	4	B
18PHY303	Electrodynamics I	3-1-0	4	C
18PHY304	Electronics I	3-1-0	4	D
18PHY386	Physics Lab IV	0-0-3	1	L1
18PHY387	Physics Lab V (Electronics)	0-0-3	1	L2
18SSK301	Life Skills III	1-0-2	2	G
<b>Open Electives</b>				
18OEL238	Emotional Intelligence		3	
18OEL239	Essence of Spiritual Literature		3	J
18OEL273	The Message of Bhagavad Gita		3	
18OEL274	Understanding Travel and Tourism (Cap-50)			
18OEL231	Advertising (Cap-50)	3-0-0	3	J
18OEL280	Ritual Performances of Kerala- cap 30			
		<b>Total</b>	<b>23</b>	

### S7 Int M.Sc (2018-batch) (2018 Curriculum)

Code	Title	L-T-P	Cr	Exam slot
18PHY507	Quantum Mechanics II	3 1 0	4	A
18PHY505	Condensed Matter Physics I	3 1 0	4	B
18PHY506	Computational Physics	3 1 0	4	C

18PHY584	Physics Lab VII	0 0 6	2	L1
18PHY517	Atomic and Molecular Spectroscopy	3 1 0	4	E
	<b>Minor Course I</b>	3 1 0	4	
18CSA308	Machine Learning I (for all students)	3 1 0	4	D
<b>Total</b>		<b>23 hrs</b>	<b>26</b>	

<b>S9 Int M.Sc (Physics Stream) (2017)</b>					
<b>Code</b>	<b>Title</b>	<b>L-T-P</b>	<b>Cr</b>	<b>Exam slot</b>	
15PHY515	Experimental Techniques	4-0-0	4	A	
15PHY602	Condensed Matter Physics	4-0-0	4	B	
15PHY603	Nuclear & Particle Physics	4-0-0	4	C	
15PHY604	Advanced Electronics	4-0-0	4	D	
15PHY682	Advanced Electronics Lab	0-0-3	2	L1	
15PHY691	Seminar B	0 0 2	1		
<b>(Elective 2)* - Any one of the two Options for Elective II</b>					
15PHY539	Nanophotonics	3 0 0	3	E	Cap 20
15PHY546	Thin Film Technology				Cap20
<b>Total</b>		<b>21hrs</b>	<b>22</b>		
<b>S3 MSc physics (2018 Curriculum) (2020 batch)</b>					
<b>Code</b>	<b>Title</b>	<b>L-T-P</b>	<b>Cr</b>	<b>Exam slot</b>	

18PHY517	Atomic and Molecular Spectroscopy	3 1 0	4	A	
18PHY602	Condensed Matter Physics	3 1 0	4	B	
18PHY603	Nuclear and Particle Physics	3 1 0	4	C	
18PHY518	Advanced Electronics	3 1 0	4	D	
18PHY583	Advanced Electronics Lab.	0 0 6	2	L1	
18PHY698	Seminar	0 0 2	2	J	
	Open Elective	2 0 0	2	P1	
<b>(Elective 2)* - Any one of the two Options for Elective II</b>					
18PHY638	Nanophotonics	3 0 0	3	E	Cap 20
18PHY645	Thin Film Technology				Cap20
<b>OPEN ELECTIVE</b>					
150EL657	Yoga for Personal Development				
	<b>TOTAL CREDITS</b>	<b>28hrs</b>	<b>25</b>		