

**STUDY & EVALUATION SCHEME**  
**M.SC. PHYSICS**  
**I YEAR: I SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>CORE</b>									
1	MPH1001	Classical Mechanics	3	0	0	40	60	100	3
2	MPH1002	Mathematical Physics	4	1	0	40	60	100	5
3	MPH1003	Electromagnetic Theory	3	0	0	40	60	100	3
4	MPH1004	Electronics	4	0	0	40	60	100	4
5	MPH1005	Quantum Mechanics I	4	1	0	40	60	100	5
6	MPH1501	Physics Lab I	0	0	6	80	20	100	3
7	MPH1502	Seminar	0	0	2	100		100	1
<b>SEC</b>									
1	MPH1006	Research – Method and Ethics	2	0	0	100		100	2
2	MPH1503	Scientific Writing	0	0	2	100		100	1
<b>TOTAL</b>			<b>20</b>	<b>2</b>	<b>10</b>	<b>580</b>	<b>320</b>	<b>900</b>	<b>27</b>

- L - Lecture  
T - Tutorial  
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**STUDY & EVALUATION SCHEME**  
**M.SC. PHYSICS**  
**I YEAR: II SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>CORE</b>									
1	MPH2001	Quantum Mechanics II	3	1	0	40	60	100	4
2	MPH2002	Statistical Mechanics	3	0	0	40	60	100	3
3	MPH2003	Atomic and Molecular Physics	4	0	0	40	60	100	4
4	MPH2004	Electrodynamics	3	0	0	40	60	100	3
5	MPH2005	Solid State Physics	4	0	0	40	60	100	4
6	MPH2501	Physics Lab II	0	0	6	80	20	100	3
<b>SEC</b>									
1	MMA2008	Numerical Methods and Programming	3	0	0	40	60	100	3
2	MMA2503	Programming Lab	0	0	4	80	20	100	2
<b>TOTAL</b>			<b>20</b>	<b>1</b>	<b>10</b>	<b>400</b>	<b>400</b>	<b>800</b>	<b>26</b>

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**STUDY & EVALUATION SCHEME**  
**M.SC. PHYSICS**  
**II YEAR: III SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>CORE</b>									
1		Elective-I	4	0	0	40	60	100	4
2		Elective- II	4	0	0	40	60	100	4
3	MPH3001	Physics of Materials	3	0	0	40	60	100	3
4	MPH3002	Nuclear and Particle Physics	4	1	0	40	60	100	5
5	MPH3502	Dissertation I	0	0	4	100		100	2
6	MPH3501	Physics Lab III	0	0	6	80	20	100	3
<b>SEC</b>									
1	MPH3003	Statistics and Error analysis	4	0	0	40	60	100	4
<b>TOTAL</b>			<b>19</b>	<b>1</b>	<b>10</b>	<b>380</b>	<b>320</b>	<b>700</b>	<b>25</b>

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**STUDY & EVALUATION SCHEME**  
**M.SC. PHYSICS**  
**II YEAR: IV SEMESTER**

S. NO.	SUBJECT CODE	SUBJECT	L	T	P	CIE	ESE	TOTAL	C
<b>CORE</b>									
1		Elective-III	4	0	0	40	60	100	4
2		Elective- IV	4	0	0	40	60	100	4
3	MPH4001	Computational Physics	3	0	0	40	60	100	3
4	MPH4002	Radiation Physics	3	0	0	40	60	100	3
5	MPH4502	Dissertation II	0	0	6	20	80	100	4
6	MPH4501	Physics Lab IV	0	0	6	80	20	100	3
7	MMA4503	MATLAB	0	0	2	80	20	100	1
<b>TOTAL</b>			<b>14</b>	<b>0</b>	<b>14</b>	<b>340</b>	<b>360</b>	<b>700</b>	<b>22</b>

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## LIST OF ELECTIVE

S. NO.	SUBJECT CODE	SUBJECT
	<b>ELECTIVE-I(SEMESTER-III)</b>	
1	MPH3101	Advance Electronics-I
2	MPH3102	Solar Energy
	<b>ELECTIVE-II(SEMESTER-III)</b>	
1	MPH3201	Wireless Communication I
2	MPH3202	Energy Materials and Devices
	<b>ELECTIVE-III(SEMESTER-IV)</b>	
1	MPH4101	Advance Electronics-II
2	MPH4102	Advance Solar Energy
	<b>ELECTIVE-IV(SEMESTER-IV)</b>	
1	MPH4201	Wireless Communication II
2	MPH4202	PV-Modules and its Applications

## LIST OF SKILL ENHANCEMENT COURSES

### **SEMESTER- I**

Research – Method and Ethics  
Scientific Writing

### **SEMESTER- II**

Numerical Methods and Programming  
Programming Lab

### **SEMESTER- III**

Statistics and Error Analysis

### CBCS Scheme

SEMESTER	NAME OF COURSE	CREDITS	TOTAL
II	Numerical Methods and Programming	3	5
	Programming Lab	2	
III	Dissertation I	2	2
IV	Computational Physics	3	8
	Dissertation I	4	
	Mat Lab	1	
<b>Grand total credits in CBCS</b>			<b>15</b>

### WITH EXTRA CREDITS UNDER CBCS

SEMESTER	I	II	III	IV	Total
<b>Core</b>	24	21	21	22	88
<b>SEC</b>	03	05	04	00	12
<b>Total</b>	27	26	25	22	100

### WITH EXTRA CREDITS UNDER CBCS

SEMESTER	I	II	III	IV	Total
<b>Core</b>	24	21	19	14	78
<b>SEC</b>	03	00	04	00	07
<b>Total</b>	27	21	23	14	85