



*School of Basic and Applied  
Sciences*

**BoS Meeting**

*for the revision of the program  
of*

**M.Sc. Physics**

*10.08.2019*

**CURRICULUM**  
**For M.Sc. Physics**  
**School of Basic and Applied Sciences**  
**Galgotias University, Uttar Pradesh**  
**[Academic Years: 2019-21]**

S. No.	Category	Credit
1	University Core	3
2	Program Core	75
3	Electives	8
	<b>Total Credits</b>	<b>86</b>

**Semester -I**

S.No.	Subject Code	Subject	L	T	P	C
1	MSCP5001	Mathematical Physics-I	4	-	-	4
2	MSCP5002	Classical Mechanics	4	-	-	4
3	MSCP5003	Quantum Mechanics-I	4	-	-	4
4	MSCP5021	Solid State Electronics	4	-	-	4
5	MSCP5022	Computational Physics	4	0	0	4
6	MSCP5023	Computational Physics Laboratory	-	-	4	2
		<b>TOTAL CREDIT</b>				<b>22</b>

**Semester -II**

S.No.	Subject Code	Subject	L	T	P	C
1	MSCP5006	Mathematical Physics-II	4	-	-	4
2	MSCP5007	Statistical Mechanics	4	-	-	4
3	MSCP5011	Analytical Technique	3	-	-	3
4	MSCP5024	Applied Numerical Methods	4	-	-	4
5	MSCP5009	Quantum Mechanics-II	4	-	-	4
6	MSCP5025	Nuclear Physics	4	-	-	4
7	MSCP5026	Applied Numerical Methods Lab	-	-	4	2
		<b>TOTAL CREDIT</b>				<b>25</b>

**Semester – III**

<b>S.No.</b>	<b>Subject Code</b>	<b>Subject</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	MSCP6001	Electrodynamics	4	-	-	4
2	MSCP6002	Atomic and Molecular Physics	4	-	-	4
3	MSCR5001	Research Methodology	3	-	-	3
4	MSCP60XX	Elective-I	4	-	-	4
5	MSCP60XX	Elective-II	4	-	-	4
6	MSCP6014	Physics Laboratory	-	-	8	4
7	MSCP9998	Mini Project	-		4	2
		<b>TOTAL CREDIT</b>				<b>25</b>

**Semester –IV**

<b>S. No.</b>	<b>Subject Code</b>	<b>Subject</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
1	MSCP9999	Project	-	-	-	14
		<b>TOTAL CREDIT</b>				<b>14</b>

**Total: 86 credits**

# List of Electives

## Elective-I

<b>S.No.</b>	<b>Course Code</b>	<b>Course Name</b>
1.	MSCP6003	Physics of Semiconductor Devices
2.	MSCP6005	Materials Science
3.	MSCP6015	Nuclear and Particle Physics-1
4.	MSCP6025	Microwaves and Antenna Propagation
5.	MSCP6017	Solid State Physics-1
6.	MSCP6027	Laser Physics and applications

## Elective-II

<b>S.No.</b>	<b>Course Code</b>	<b>Course Name</b>
1.	MSCP6004	Analog and Digital Electronics
2.	MSCP6018	Solid State Physics-2
3.	MSCP6016	Nuclear and Particle Physics -2
4.	MSCP6029	Nanomaterials and Applications
5.	MSCP6019	Communication Systems
6.	MSCP6028	Fiber Optics and optoelectronics