



JOY UNIVERSITY  
semper paratus

## School of Arts and Natural Sciences

### Department of Sciences

#### B.Sc. Mathematics – I Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1101	Calculus	3	1	0	4	4
2.	BSMA 1102	Algebra	3	1	0	4	4
3.	BSMA 1103	Logic and Sets	2	0	0	2	2
4.	BSMA 2101	Fundamentals of MATLAB	0	0	2	3	2
5.	BSPH 1101	Mechanics and General Properties of Materials	3	1	0	4	4
6.	BTCS 2101	Computer Programming	0	0	2	3	2
		<b>TOTAL</b>	<b>11</b>	<b>3</b>	<b>4</b>	<b>20</b>	<b>18</b>

#### B.Sc. Mathematics – II Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1111	Real Analysis	3	1	0	4	4
2.	BSMA 1112	Differential Equations	3	0	1	5	4
3.	BSPH 1111	Optics and Laser Physics	3	1	0	4	4
4.	BSPH 2111	Physics Lab – I	0	0	2	3	2
5.	BTCS 1111	Operating Systems	3	1	0	4	4
6.	BTCS 2111	Web Programming Lab	0	0	2	3	2
7.	BAEN 1101	English-I	2	0	0	2	2
8.		Environmental Science	2	0	0	2	2
		<b>TOTAL</b>	<b>16</b>	<b>3</b>	<b>5</b>	<b>27</b>	<b>24</b>

### B.Sc. Mathematics – III Semester

Sl. No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1201	Group Theory I	3	1	0	4	4
2.	BSMA 1202	PDE and Systems of ODE	3	0	1	5	4
3.	BSMA 1203	Theory of Real Functions	3	1	0	4	4
4.	BSPH 1201	Electrodynamics – I	3	1	0	4	4
5.	BSPH 2201	Physics Lab – II	0	0	2	3	2
6.	BTCS 1201	Data Structures	3	1	0	4	4
7.		Language (Tamil/French/Sanskrit) – I	3	0	0	3	3
8.		Generic Elective – I	2	1	0	3	3
<b>TOTAL</b>			<b>20</b>	<b>5</b>	<b>3</b>	<b>30</b>	<b>28</b>

### B.Sc. Mathematics – IV Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1211	Numerical Methods	3	0	1	5	4
2.	BSMA 1212	Reimann Integration and Series of Functions	3	1	0	4	4
3.	BSMA 1213	Ring Theory and Linear Algebra I	3	1	0	4	4
4.	BSPH 1211	Waves and Fluid Dynamics	3	1	0	4	4
5.	BSPH 2211	Physics Lab – III	0	0	2	3	2
6.	BTCS 1211	English – II	2	0	0	2	2
7.	BTCS 2211	Language (Tamil/French/Sanskrit) – I	3	0	0	3	3
8.		Generic Elective – II	2	1	0	3	3
<b>TOTAL</b>			<b>19</b>	<b>4</b>	<b>3</b>	<b>28</b>	<b>26</b>

### B.Sc. Mathematics – V Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1301	Multivariate Calculus	3	1	0	5	4
2.	BSMA 1302	Group Theory II	3	1	0	4	4
3.	BSMA 1303	Metric Spaces and Complex Analysis	3	1	0	4	4
4.	BSMA 13##	DSE – I	3	1	0	4	4
5.	BSMA 13##	DSE – II	3	1	0	4	4
6.		Generic Elective – III	2	1	0	3	3
		<b>TOTAL</b>	<b>17</b>	<b>6</b>	<b>0</b>	<b>24</b>	<b>23</b>

#### List of DSE's for Semester V:

1. Analytical Geometry
2. Industrial Mathematics
3. Probability and Statistics
4. Boolean Algebra and Automata Theory

### B.Sc. Mathematics – VI Semester

Sl.No	Course Code	Course Title	L	T	P	Contact Hrs / Wk	Credits
1.	BSMA 1311	Ring Theory and Linear Algebra – II	3	1	0	4	4
2.	BSMA 13##	DSE – III	3	1	0	4	4
3.	BSMA 13##	DSE – IV	3	1	0	4	4
4.	BSMA 3301	Project Work (or) Reading Course	0	0	6	6	6
5.		Generic Elective – IV	2	1	0	3	3
		<b>TOTAL</b>	<b>11</b>	<b>4</b>	<b>6</b>	<b>21</b>	<b>21</b>

#### List of DSE's for Semester VI:

1. Theory of Equations
2. Bio-Mathematics
3. Mathematical Modeling
4. Mechanics

### Semester-wise Credit Load

<b>Semester</b>	<b>L</b>	<b>T</b>	<b>P</b>	<b>Credits</b>
I	11	3	4	18
II	16	3	5	24
III	20	5	3	28
IV	19	4	3	26
V	17	6	0	23
VI	11	4	6	21
<b>Total</b>	<b>92</b>	<b>27</b>	<b>25</b>	<b>140</b>