



**Course Name: B.Sc. (H) Mathematics**

Course Structure (2019-20)

**Faculty Of Physical Sciences  
Department of Mathematics**

**B. Sc. (Hons.) Mathematics  
Semester: I**

SNO	COURSE TITLE	COURSE CODE	TEACHING SCHEDULE PER WEEK				CREDITS	EVALUATION SCHEME		
			L	T	P	TOTAL		INT.	EXT.	TOTAL
1	English Communication	ENGL0103	2	0	0	2	2.0	40	60	100
2	Calculus	MATH1101	4	0	0	4	4.0	40	60	100
3	Calculus Lab	MATH1102	0	0	4	4	2.0	15	35	50
4	Algebra	MATH1103	4	2	0	6	6.0	50	100	150
5	Fundamentals of Computer	CSEN0306	4	0	0	4	4.0	40	60	100
6	Fundamentals of Computer Lab	CSEN0307	0	0	4	4	2.0	15	35	50
7	Foreign Language French German Spanish	LANF0101 LANG0102 LANS0103	2	0	0	2	2	25	50	75
		<b>Total</b>	<b>16</b>	<b>02</b>	<b>08</b>	<b>26</b>	<b>22</b>			<b>625</b>

**Faculty Of Physical Sciences  
Department of Mathematics**

**B. Sc. (Hons.) Mathematics  
Semester: II**

S No	Course Title	Course Code	Teaching Schedule per week				Credits	Evaluation Scheme		
			L	T	P	Total		Int.	Ext.	Total
1	Environmental Science	ENVS0102	2	0	0	2	2	40	60	100
2	Real Analysis	MATH1104	4	2	0	6	4	50	100	150
3	Differential Equations	MATH1105	4	0	0	4	4	40	60	100
4	Differential Equations Lab	MATH1106	0	0	4	4	2	15	35	50
5	Introduction to Programming(GE)	CSEN0328	4	0	0	4	4	40	60	100
6	Introduction to Programming Lab(GE)	CSEN0329	0	0	4	4	2	15	35	50
7	Foreign Language French German Spanish	LANF0104 LANG0105 LANS0106	2	0	0	2	2	25	50	75
		<b>Total</b>	<b>16</b>	<b>02</b>	<b>08</b>	<b>26</b>	<b>20</b>			<b>625</b>

**Faculty of Physical Sciences  
Department of Mathematics**

**B. Sc. (Hons.) Mathematics  
Semester: III**

S No	Course Title	Course Code	Teaching Schedule per week				Credits	Evaluation Scheme		
			L	T	P	Total		Int.	Ext.	Total
1	Theory of Real Functions	MATH2101	4	2	0	6	6	50	100	150
2	Group Theory-I	MATH2102	4	2	0	6	6	50	100	150
3	PDE & System of ODE	MATH2103	4	0	0	4	4	40	60	100
4	PDE & System of ODE Lab	MATH2104	0	0	4	4	2	15	35	50
5	New Venture Planning- Entrepreneurship (SEC-I)	MGMT0103	2	0	0	2	2	40	60	100
6	Data Base Management Systems (GE)	CSEN0304	4	0	0	4	4	40	60	100
7	Data Base Management Systems Lab (GE)	CSEN0305	0	0	4	4	2	15	35	50
8	Minor Group Project	MATH2109				4	2			50
9	YOGA		0	0	2	2	1	25	25	50
		<b>Total</b>	<b>16</b>	<b>04</b>	<b>10</b>	<b>34</b>	<b>29</b>			<b>800</b>

**Faculty Of Physical Sciences**  
**Department of Mathematics**

**B. Sc. (Hons.) Physics**

**Semester: IV**

SNO	COURSE TITLE	COURSE CODE	TEACHING SCHEDULE PER WEEK				CREDITS	EVALUATION SCHEME		
			L	T	P	TOTAL		INT.	EXT.	TOTAL
1	Numerical Methods	MATH2105	4	0	0	4	4.0	40	60	100
2	Numerical Methods Lab	MATH2106	0	0	4	4	2.0	15	35	50
3	Riemann Integration & Series of Functions	MATH2107	4	2	0	6	6.0	50	100	150
5	Ring Theory & Linear Algebra-I	MATH2108	4	2	0	6	6.0	50	100	150
7	Basics of IT (SEC-II)	CSEN0103	2	0	0	2	2.0	40	60	100
8	Computer network and Internet (GE)	CSEN0330	4	0	0	4	4.0	40	60	100
9	Computer network and Internet Lab (GE)	CSEN0331	0	0	4	4	2.0	15	35	50
10	Minor Individual Project	MATH2110	0	0	4	4	2.0			50
11	Value Education		2	0	0	2	2.0	25	50	75
		<b>Total</b>	<b>16</b>	<b>04</b>	<b>12</b>	<b>34</b>	<b>26</b>			<b>825</b>

**Faculty Of Physical Sciences  
Department of Mathematics**

**B. Sc. (Hons.) Mathematics**

**Semester: V**

SNO	COURSE TITLE		COUR SECO DE	TEACHING SCHEDULE PER WEEK				CREDIT S	EVALUATION SCHEME		
				L	T	P	TOTAL		INT.	EXT.	TOTAL
1	Multivariate Calculus		MATH3101	4	2	0	6	6.0	50	100	150
3	Group Theory-II		MATH3102	4	2	0	6	6.0	50	100	150
4	DSE-I	Portfolia Optimization	MATH3205	4	2	0	6	6.0	50	100	150
		Number Theory	MATH3206								
		Analytical Geometry	MATH3207								
7	DSE-II	Industrial Mathematics	MATH3208	4	2	0	6	6.0	50	100	150
		Boolean Algebra & Automata Theory	MATH3209								
		Probability & Statistics	MATH3210								
9	Professional Communication-I		VALU0123	2	0	2	2	2.0	25	50	75
10	Aptitude-I		VALU0119	2	0	0	2	2.0	25	50	75
10	Major Group Project		MATH3105	4	0	0	4	4.0	40	60	100
			<b>Total</b>	<b>22</b>	<b>08</b>	<b>02</b>	<b>32</b>	<b>30</b>			<b>850</b>

**\*Chose one from DSE-I**

**\*Chose one from DSE-II**

**Faculty Of Physical Sciences  
Department of Mathematics**

**B. Sc. (Hons.) Mathematics**

**Semester: VI**

SNO	COURSE TITLE		COURSE CODE	TEACHING SCHEDULE PER WEEK				CREDITS	EVALUATION SCHEME		
				L	T	P	TOTAL		INT.	EXT.	TOTAL
1	Metric Space & Complex Analysis		MATH3103	4	2	0	6	6.0	50	100	150
2	Ring Theory & Linear Algebra-II		MATH3104	4	2	0	6	6.0	50	100	150
3	DSE-III	Theory of Equations	MATH3211	4	2	0	6	6.0	50	100	150
		Bio Mathematics	MATH3212								
		Linear Programming	MATH3213								
4	DSE-IV	Mathematical Modelling	MATH3214	4	2	0	6	6.0	50	100	150
		Mechanics	MATH3215								
		Differential Geometry	MATH3216								
5	Professional Communication-II		VALU0140	2	0	0	2	2.0	25	50	75
6	Aptitude-II		VALU0136	2	0	0	2	2.0	25	50	75
7	Major Individual Project		MATH3106	4	0	0	4	4.0	40	60	100
<b>Total</b>				<b>22</b>	<b>08</b>	<b>00</b>	<b>30</b>	<b>30</b>			<b>850</b>

\*Choose one from DSE-III

\*Choose one from DSE-IV