

**MYINGYAN DEGREE COLLEGE**  
**DEPARTMENT OF MATHEMATICS**  
**CURRICULUM FOR B.Sc. DEGREE**

**First Year****Semester -I**

Module No.	Name Of Module	Credit Units	Hours Per Week	
			Lecture	Tutorial/ Practical
မ ၁၀၀၁	မြန်မာစာ	3	2	2
Eng 1001	English	3	2	2
Math 1101	Algebra and Analytic Geometry	4	3	2
Math 1102	Trigonometry and Differential Calculus	4	3	2
Phys 1001	Physics	3	2	2
AM 1001	Aspects of Myanmar	3	2	2
Total		20	14	12

\* A student can choose any 1 of 4 elective courses offered by the departments of physics, chemistry, philosophy, geology to fulfill a total of 20 credit units.

**First Year****Semester -II**

Module No.	Name Of Module	Credit Units	Hours Per Week	
			Lecture	Tutorial/ Practical
မ ၁၀၀၂	မြန်မာစာ	3	2	2
Eng 1002	English	3	2	2
Math 1103	Algebra and Analytic Geometry	4	3	2
Math 1104	Differential and Integral Calculus	4	3	2
Phys 1001	Physics	3	2	2
AM 1002	Aspects of Myanmar	3	2	2
Total		20	14	12

\* A student can choose any 1 of 4 elective courses offered by the departments of physics, chemistry, philosophy, geology to fulfill a total of 20 credit units.

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**Second Year****Semester-I**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 2001	English	3	2	2
Math 2101	Complex Variables I	4	3	2
Math 2102	Calculus of Several Variables	4	3	2
Math 2103	Vector Algebra and Statics	4	3	2
Math 2104	Discrete Mathematics I	3	2	2
Math 2105	Theory of Sets I	3	2	2
Total		21	15	12

\*A student can choose any 2 of 4 elective courses offered by the department of mathematics and physics to fulfill a total of 21 credit units.

**Second Year****Semester-I**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 2002	English	3	2	2
Math 2107	Linear Algebra I	4	3	2
Math 2108	Ordinary Differential Equations	4	3	2
Math 2109	Vector Calculus and Dynamics	4	3	2
Math 2110	Discrete Mathematics II	3	2	2
Math 2111	Theory of Sets II	3	2	2
Total		21	15	12

\*A student can choose any 2 of 4 elective courses offered by the department of mathematics and physics to fulfill a total of 21 credit units.

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**DEPARTMENT OF MATHEMATICS**  
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**Third Year****Semester-I**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 3001	English	3	2	2
Math 3101	Analysis I	4	3	2
Math 3102	Linear Algebra II	4	3	2
Math 3103	Differential Equations	4	3	2
Math 3104	Differential Geometry	4	3	2
Math 3105	Tensor Analysis	3	2	2
Total		22	16	12

\*A student can choose any 1 of 2 elective courses offered by the department of mathematics to fulfill a total of 22 credit units.

**Third Year****Semester-II**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 3002	English	3	2	2
Math 3107	Analysis II	4	3	2
Math 3108	Linear Algebra III	4	3	2
Math 3109	Mechanics	4	3	2
Math 3110	Probability and Statistics	4	3	2
Math 3111	Complex Variables II	3	2	2
Total		22	16	12

\*A student can choose any 1 of 2 elective courses offered by the department of mathematics to fulfill a total of 22 credit units.

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**Fourth Year****Semester-I**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 4001	English	3	2	2
Math 4101	Analysis III	4	3	2
Math 4102	Numerical Analysis I	4	3	2
Math 4103	Linear Programming	4	3	2
Math 4104	Partial Differential Equations	4	3	2
Math 4105	Stochastics Process I	3	2	2
Total		22	16	12

\*A student can choose any 1 of 2 elective courses offered by the department of mathematics to fulfill a total of 22 credit units.

**Fourth Year****Semester-II**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 4002	English	3	2	2
Math 4107	Analysis IV	4	3	2
Math 4108	General Topology I	4	3	2
Math 4109	Abstract Algebra I	4	3	2
Math 4110	Hydromechanics	4	3	2
Math 4111	Stochastics Process II	3	2	2
Total		22	16	12

\*A student can choose any 1 of 2 elective courses offered by the department of mathematics to fulfill a total of 22 credit units.

**MYINGYAN DEGREE COLLEGE**  
**DEPARTMENT OF MATHEMATICS**  
**CURRICULUM FOR B.Sc(Hons;) DEGREE**

**First Year Honours****Semester-I**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 3001	English	3	2	2
Math 3201	Analysis I	4	3	2
Math 3202	Linear Algebra II	4	3	2
Math 3203	Differential Equations	4	3	2
Math 3204	Differential Geometry	4	3	2
Math 3205	Tensor Analysis	3	2	2
Total		22	16	12

\*A student can choose any 1 of 2 elective courses offered by the department of mathematics to fulfill a total of 22 credit units.

**First Year Honours****Semester-I**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 3002	English	3	2	2
Math 3207	Analysis II	4	3	2
Math 3208	Linear Algebra III	4	3	2
Math 3209	Mechanics	4	3	2
Math 3210	Probability and Statistics	4	3	2
Math 3211	Complex Variables II	3	2	2
Total		22	16	12

\*A student can choose any 1 of 2 elective courses offered by the department of mathematics to fulfill a total of 22 credit units.

**MYINGYAN DEGREE COLLEGE**  
**DEPARTMENT OF MATHEMATICS**  
**CURRICULUM FOR B.Sc(Hons;) DEGREE**

**Second Year Honours****Semester-I**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 4001	English	3	2	2
Math 4201	Analysis III	4	3	2
Math 4202	Numerical Analysis I	4	3	2
Math 4203	Linear Programming	4	3	2
Math 4204	Partial Differential Equations	4	3	2
Math 4205	Stochastics Process I	3	2	2
Total		22	16	12

\*A student can choose any 1 of 2 elective courses offered by the department of mathematics to fulfill a total of 22 credit units.

**Second Year Honours****Semester-II**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Eng 4002	English	3	2	2
Math 4207	Analysis IV	4	3	2
Math 4208	General Topology I	4	3	2
Math 4209	Abstract Algebra I	4	3	2
Math 4210	Hydromechanics	4	3	2
Elective(1)	*	3	2	2
Total		22	16	12

\*A student can choose any 1 of 2 elective courses offered by the department of mathematics to fulfill a total of 22 credit units.

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**CURRICULUM FOR B.Sc(Hons;) DEGREE**

**Third Year Honours****Semester-I**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Math 5201	Analysis V	4	3	2
Math 5202	General Topology II	4	3	2
Math 5203	Abstract Algebra II	4	3	2
Math 5204	Hydrodynamics I	4	3	2
Math 5205	Numerical Analysis II	4	3	2
Math 5206	Qualitative Theory of Ordinary Differential Equations I	4	3	2
Total		24	18	12

**Third Year Honours****Semester-II**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Math 5207	Analysis VI	4	3	2
Math 5208	General Topology III	4	3	2
Math 5209	Abstract Algebra III	4	3	2
Math 5210	Hydrodynamics II	4	3	2
Math 5211	Graph Theory	4	3	2
Math 5212	Qualitative Theory of Ordinary Differential Equations II	4	3	2
Total		24	18	12

**MYINGYAN DEGREE COLLEGE**  
**DEPARTMENT OF MATHEMATICS**  
**CURRICULUM FOR M.Sc(Q) DEGREE**

**M.Sc(Q)****Semester-I**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Math 5201	Analysis V	4	3	2
Math 5202	General Topology II	4	3	2
Math 5203	Abstract Algebra II	4	3	2
Math 5204	Hydrodynamics I	4	3	2
Math 5205	Numerical Analysis II	4	3	2
Math 5206	Qualitative Theory of Ordinary Differential Equations I	4	3	2
Total		24	18	12

**M.Sc (Q)****Semester -II**

Module No.	Name of Module	Credit Units	Hours per week	
			Lecture	Tutorial/Practical
Math 5207	Analysis VI	4	3	2
Math 5208	General Topology III	4	3	2
Math 5209	Abstract Algebra III	4	3	2
Math 5210	Hydrodynamics II	4	3	2
Math 5211	Graph Theory	4	3	2
Math 5212	Qualitative Theory of Ordinary Differential Equations II	4	3	2
Total		24	18	12