

Taunggoke University

B.Sc. in Mathematics

First Year					
Semester 1			Semester 2		
Module No.	Module Name	CP (L,P/T)	Module No.	Module Name	CP (L,P/T)
<b>Foundation</b>			<b>Foundation</b>		
မ ၁၀၀၁	မြန်မာစာ	3 (2,2)	မ ၁၀၀၂	မြန်မာစာ	3 (2,2)
Eng 1001	English	3 (2,2)	Eng 1002	English	3 (2,2)
<b>Core</b>			<b>Core</b>		
Math 1101	Algebra and Analytic Geometry	4 (3,2)	Math 1103	Algebra and Analytical Solid Geometry	4 (3,2)
Math 1102	Trigonometry and Differential Calculus	4 (3,2)	Math 1104	Differential and Integral Calculus	4 (3,2)
<b>Elective (two courses)</b>			<b>Elective (two courses)</b>		
Phys 1001	General Physics - I	3 (2,2)	Phys 1002	General Physics - II	3 (2,2)
AM 1001*	Aspects of Myanmar	3 (2,2)	AM 1002*	Aspects of Myanmar	3 (2,2)

Second Year					
Semester 1			Semester 2		
Module No.	Module Name	CP (L,P/T)	Module No.	Module Name	CP (L,P/T)
<b>Foundation</b>			<b>Foundation</b>		
Eng 2001	English	3 (2,2)	Eng 2002	English	3(2,2)
<b>Core</b>			<b>Core</b>		
Math 2101	Complex Variables I	4(3,2)	Math 2107	Linear Algebra I	4(3,2)
Math 2102	Calculus of Several Variables	4(3,2)	Math 2108	Ordinary Differential Equations	4(3,2)
Math 2103	Vector Algebra and Statics	4(3,2)	Math 2109	Vector Calculus and Dynamics	4(3,2)
<b>Elective (two courses)</b>			<b>Elective (two courses)</b>		
Math 2104	Discrete Mathematics I	3(2,2)	Math 2110	Discrete Mathematics II	3(2,2)
Math 2105	Theory of Sets I	3(2,2)	Math 2111	Theory of Sets II	3(2,2)

Third Year					
Semester 1			Semester 2		
Module No.	Module Name	CP (L,P/T)	Module No.	Module Name	CP (L,P/T)
Foundation			Foundation		
Eng 3001	English	3(2,2)	Eng 3002	English	3(2,2)
Core			Core		
Math 3101	Analysis I	4(3,2)	Math 3107	Analysis II	4(3,2)
Math 3102	Linear Algebra II	4(3,2)	Math 3108	Linear Algebra III	4(3,2)
Math 3103	Differential Equations	4(3,2)	Math 3109	Mechanics	4(3,2)
Math 3104	Differential Geometry	4(3,2)	Math 3110	Probability and Statistics	4(3,2)
Elective			Elective		
Math 3105	Tensor Analysis	3 (2,2)	Math 3111	Complex Variables II	3 (2,2)

Fourth Year					
Semester 1			Semester 2		
Module No.	Module Name	CP (L,P/T)	Module No.	Module Name	CP (L,P/T)
Foundation			Foundation		
Eng 4001	English	3(2,2)	Eng 4002	English	3(2,2)
Core			Core		
Math 4101	Analysis III	4 (3,2)	Math 4107	Analysis IV	4 (3,2)
Math 4102	Numerical Analysis I	4 (3,2)	Math 4108	General Topology I	4 (3,2)
Math 4103	Linear Programming	4 (3,2)	Math 4109	Abstract Algebra I	4 (3,2)
Math 4104	Partial Differential Equations	4 (3,2)	Math 4110	Hydromechanics	4 (3,2)
Elective			Elective		
Math 4105	Stochastic Process I	3 (2,2)	Chem 4111	Stochastic Process II	3 (2,2)

It is compulsory for all students to submit term/ project papers at the end of the semester

B.Sc (Honours ) in Mathematics

Students who passed second year with GPA > 4 are eligible to attend B.Sc.Honours) classes For three more years. After Finished successfully, they are earned B.Sc. (Hons) degree majoring in Mathematics.

First Year Honours					
Semester 1			Semester 2		
Module No.	Module Name	CP (L,P/T)	Module No.	Module Name	CP (L,P,/T)
Foundation			Foundation		
Eng 3001	English	3(2,2)	Eng 3002	English	3(2,2)
Core			Core		
Math 3201	Analysis I	4 (3,2)	Math 3207	Analysis II	4 (3,2)
Math 3202	Linear Algebra II	4 (3,2)	Math 3208	Linear Algebra III	4 (3,2)
Math 3203	Differential Eqations	4 (3,2)	Math 3209	Mechanics	4 (3,2)
Math 3204	Differential Geometry	4 (3,2)	Math 3210	Probability and Statistics	4 (3,2)
Elective			Elective		
Math 3205	Tensor Analysis	3(2,2)	Math 3211	Complex Variables II	3(2,2)

Second Year Honours					
Semester 1			Semester 2		
Module No.	Module Name	CP (L,P,/T)	Module No.	Module Name	CP (L,P,/T)
Foundation			Foundation		
Eng 4001	English	3(2,2)	Eng 4002	English	3(2,2)
Core			Core		
Math 4201	Analysis III	4 (3,2)	Math 4207	Analysis IV	4 (3,2)
Math 4202	Numerical Analysis I	4 (3,2)	Math 4208	General Topology I	4 (3,2)
Math 4203	Linear Progammng	4 (3,2)	Math 4209	Abstract Algebra I	4 (3,2)
Math 4204	Partial Differential Equations	4 (3,2)	Math 4210	Hydromechanics	4 (3,2)
Elective			Elective		
Math 4205	Stochastic Process I	3 (2,2)	Chem 4211	Stochastics Process II	3 (2,2)

**Third Year Honours / M.Sc. Qualifying**

Semester 1			Semester 2		
Module No.	Module Name	CP (L,P)	Module No.	Module Name	CP (L,P)
Core			Core		
Math 5201	Analysis V	4 (3,2)	Math 5202	Analysis VI	4 (3,2)
Math 5202	General Topology II	4 (3,2)	Math 5208	General Topology III	4 (3,2)
Math 5203	Abstract Algebra II	4 (3,2)	Math 5209	Abstract Algebra III	4 (3,2)
Math 5204	Hydrodynamics I	4 (3,2)	Math 5210	Hydrodynamics II	4 (3,2)
Math 5205	Numerical Analysis II	4 (3,2)	Math 5211	Graph Theory	4 (3,2)
Math 5206	Qualitative Theory of Ordinary Differential Equations I	4 (3,2)	Math 5212	Qualitative Theory of Ordinary Differential Equations II	4 (3,2)

