

**SEMESTER 1**

Course Code	Title of the Course	No. of Credits	Work Load Hrs./week	Core/Audit Course
MTH1C01	Algebra- I	4	5	core
MTH1C02	Linear Algebra	4	5	core
MTH1C03	Real Analysis I	4	5	core
MTH1C04	Number Theory	4	5	core
MTH1C05	Discrete Mathematics	4	5	core
MTH1A01	Ability Enhancement Course	4	0	Audit Course

**SEMESTER 2**

Course Code	Title of the Course	No. of Credits	Work Load Hrs./week	Core/Elective
MTH2C06	Algebra- II	4	5	core
MTH2C07	Real Analysis II	4	5	core
MTH2C08	Topology	4	5	core
MTH2C09	ODE & calculus of variations	4	5	core
MTH2C10	Operations Research	4	5	core
MTH2A02	Professional Competency Course	4	0	Audit Course

**SEMESTER 3**

Course Code	Title of the Course	No. of Credits	Work Load Hrs./week	Core/Elective
MTH 3C11	Multivariable Calculus & Geometry	4	5	core
MTH3C12	Complex Analysis	4	5	core
MTH3C13	Functional Analysis	4	5	core
MTH3C14	PDE & Integral Equations	4	5	core
	Elective I*	3	5	Elec.

**SEMESTER 4**

Course Code	Title of the Course	No. of Credits	Work Load Hrs./week	Core/Elective
MTH4C15	Advanced Functional Analysis	4	5	Core
	Elective II**	3	5	Elec.
	Elective III**	3	5	Elec.
	Elective IV**	3	5	Elec.
MTH4P01	Project	4	5	Core
MTH4 V01	Viva Voce	4		Core

\* This Elective is to be selected from list of elective courses in third semester

\*\* This Elective is to be selected from list of elective courses in fourth semester