

SIR THEAGARAYA COLLEGE
DEPARTMENT OF MATHEMATICS
COURSE STRUCTURE
(2021-2022)

FIRST SEMESTER

Course Content	Name of the Course	Ins. Hrs	Credits	Int. Marks	Ext. Marks	Total
Part - I	Tamil I / Telugu I	5	3	25	75	100
Part - II	English I	4	3	25	75	100
Part - III	Core Paper-I: Algebra	5	4	25	75	100
	Core Paper-II: Differential Calculus	4	4	25	75	100
	Allied Paper- I - Section A- Chemistry I Section B - Calculus of Finite differences and Numerical Analysis I	9	5	25	75	100
Part - IV	Basic Tamil/ Non Major Elective -I	1	2	25	75	100
	Soft Skills –I	2	3	50	50	100

SECOND SEMESTER

Course Content	Name of the Course	Ins. Hrs	Credits	Int. Marks	Ext. Marks	Total
Part - I	Tamil II / Telugu II	5	3	25	75	100
Part - II	English Paper -II	5	3	25	75	100
Part - III	Core Paper-III: Trigonometry	4	4	25	75	100
	Core Paper-IV: Integral Calculus and Vector Analysis	5	4	25	75	100
	Allied Paper- II - Section A- Chemistry II & Practical Section B – Calculus of Finite differences and Numerical Analysis II	9	5	25	75	100
Part - IV	Basic Tamil / Non Major Elective -II	1	2	25	75	100
	Soft Skills -II	1	3	50	50	100

THIRD SEMESTER

Course Content	Name of the Course	Ins. Hrs	Credits	Int. Marks	Ext. Marks	Total
Part - I	Tamil III / Telugu III	5	3	25	75	100
Part - II	English Paper -III	5	3	25	75	100
Part - III	Core Paper-V: Analytical Geometry	5	4	25	75	100
	Core Paper-VI: Differential Equations	4	4	25	75	100
	Allied Paper- III - Section A- Physics I Section B – Mathematical Statistics I	9	5	25	75	100
Part - IV	Environmental Studies	1		EXAM IN THE IV SEMESTER		
	Soft Skills -III	1	3	50	50	100

FOURTH SEMESTER

Course Content	Name of the Course	Ins. Hrs	Credits	Int. Marks	Ext. Marks	Total
Part - I	Tamil IV / Telugu IV	5	3	25	75	100
Part - II	English Paper -IV	5	3	25	75	100
Part - III	Core Paper-VII: Transform Techniques	4	4	25	75	100
	Core Paper-VIII: Statics	5	4	25	75	100
	Allied Paper- IV Section A- Physics II & Practical Section B – Mathematical Statistics II & Practical	9	5	25	75	100
Part - IV	Environmental Studies	1	2	25	75	100
	Soft Skills -IV	1	3	50	50	100

FIFTH SEMESTER

Course Content	Name of the Course	Ins. Hrs	Credits	Int. Marks	Ext. Marks	Total
Part - III	Core Paper-IX: Algebraic Structures-I	6	4	25	75	100
	Core Paper -X: Real Analysis-I	6	4	25	75	100
	Core Paper-XI: Dynamics	6	4	25	75	100
	Core Paper – XII: Discrete Mathematics	6	4	25	75	100
	Elective Paper -I: Mathematical Modeling	6	5	25	75	100
Part - IV	Value Education		2	25	75	100

SIXTH SEMESTER

Course Content	Name of the Course	Ins. Hrs	Credits	Int. Marks	Ext. Marks	Total
Part - III	Core Paper-XIII: Algebraic Structures-II	6	4	25	75	100
	Core Paper -XIV: Real Analysis-II	6	4	25	75	100
	Core Paper-XV: Complex Analysis	6	4	25	75	100
	Elective Paper -II: Graph Theory	6	5	25	75	100
	Elective Paper -III: Operations Research	6	5	25	75	100
Part - V	Extension Activity		1			