

GOVERNMENT ARTS COLLEGE (AUTONOMOUS), COIMBATORE-18.**DEPARTMENT OF MATHEMATICS****M.Sc. Degree Course****PG - SCHEME OF EXAMINATIONS: CBCS PATTERN****(For the students admitted during the academic year 2018-2019 and onwards)**

Sub Code	Title of the Paper	Hrs (wk)	Internal (CA) Marks	External Marks	Total Marks	Ext- Min.	Total Pass Mark	Credits
Semester – I								
18MMA11C	Core - I : Modern Algebra	6	25	75	100	38	50	5
18MMA12C	Core - II: Real Analysis	6	25	75	100	38	50	5
18MMA13C	Core - III: Complex Analysis	6	25	75	100	38	50	5
18MMA14C	Core - IV: Ordinary Differential Equations	6	25	75	100	38	50	4
18MMA15E	ELECTIVE – I: Advanced Numerical Analysis.	6	25	75	100	38	50	3
Semester – II								
18MMA21C	Core - V: Topology	6	25	75	100	38	50	5
18MMA22C	Core - VI: Measure and Integration	6	25	75	100	38	50	5
18MMA23C	Core - VII: Operations Research	6	25	75	100	38	50	5
18MMA24C	Core - VIII: Partial Differential Equations	6	25	75	100	38	50	4
18MMA25E	ELECTIVE – II : Number Theory	6	25	75	100	38	50	3

Sub Code	Title of the Paper	Hrs (wk)	Internal (CA) Marks	External Marks	Total Marks	Ext- Min.	Total Pass Mark	Credits
Semester – III								
18MMA31C	Core – IX : Mechanics	6	25	75	100	38	50	5
18MMA32C	Core - X: Graph Theory	6	25	75	100	38	50	5
18MMA33C	Core – XI : Functional Analysis	6	25	75	100	38	50	5
18MMA34C	Core – XII :Mathematical Statistics	6	25	75	100	38	50	5
18MMA35E	Elective – III : Object Oriented Programming with C++	6	25	75	100	38	50	3
Semester – IV								
18MMA41C	Core - XIII: Operator Theory	6	25	75	100	38	50	5
18MMA42C	Core - XIV: Fluid Dynamics	6	25	75	100	38	50	5
18MMA43C	Core - XV: Fuzzy Logic And Fuzzy Sets	6	25	75	100	38	50	5
18MMA44C	Core – XVI : Calculus Of Variations and Integral Equations	6	25	75	100	38	50	5
18MMA45E	Elective – IV : Matlab	6	25	75	100	38	50	3
Total Credits					2000			90

MCA Degree Course

PG - SCHEME OF EXAMINATIONS: CBCS PATTERN

(For the students admitted during the academic year 2018-2019 and onwards)

Sub Code	Title of the Paper	Hrs (wk)	Internal (CA) Marks	External Marks	Total Marks	Ext- Min.	Total Pass Mark	Credits
18BCA15C	Mathematical Foundations for Computer Applications (For MCA)	4	25	75	100	38	50	
18MCA25C	Operations Research (For MCA)	4	25	75	100	38	50	

Core - Includes core theory, practical and electives

Includes 25/40 continuous Internal Assessment Marks for Theory and Practical papers respectively

Project evaluation done by both Internal and External examiner for 80 Marks

CONTENTS

S. No	Title of the Paper	Page No
1.	Modern Algebra	1
2.	Real Analysis	2
3.	Complex Analysis	4
4.	Ordinary Differential Equations	6
5.	Advanced Numerical Analysis	8
6.	Topology	10
7.	Measure And Integration	12
8.	Operations Research	14
9.	Partial Differential Equations	16
10.	Number Theory	18
11.	Mechanics	20
12.	Graph Theory	21
13.	Functional Analysis	22
14.	Mathematical Statistics	24
15.	Object Oriented Programming with C++	26
16.	Operator Theory	27
17.	Fluid Dynamics	29
18.	Fuzzy Logic And Fuzzy Sets	31
19.	Calculus Of Variations and Integral Equations	33
20.	Matlab	35
21.	Mathematical Foundation For Computer Science	37
22.	Operations Research For Computer Science	39