



KANCHI MAMUNIVAR CENTRE FOR POSTGRADUATE STUDIES
(Autonomous – Reaccredited with “A” Grade by NAAC)
(A College with potential for Excellence)
LAWSPET, PUDUCHERRY - 605008

M.Sc. – MATHEMATICS
&
M.Phil. – MATHEMATICS

(Effect from 2018 – 2019)

SYLLABUS

DEPARTMENT OF MATHEMATICS
KMCPGS

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Puducherry 605 008
Department of Mathematics
M.Sc. MATHEMATICS (CBCS)

SEM	CODE	TITLE OF THE PAPER	CREDIT	THEORY HOURS	SEMINAR / Assignment/ Test	TUTORIAL/ CSIR-NET COACHING
I	MAHT-	Real analysis	4	4	1+1	2 hours per week
	MAHT-	Linear Algebra	4	4	1+1	
	MAHT-103	Ordinary Differential Equations	4	4	1+1	
	MAHT-104	Soft core – I offered by the Dept.	3	3	1+1	
	MAHT-105	Soft core – II offered by other Dept.	3	3	1+1	
II	MAHT-206	Measure Theory	4	4	1+1	2 hours per week
	MAHT-	Advanced algebra	4	4	1+1	
	MAHT-208	Partial Differential Equations	4	4	1+1	
	MAHT-209	Soft core – III offered by the Dept.	3	3	1+1	
	MASC-210	Soft core - IV offered by the Dept.	3	3	1+1	

III	MAHT-311	Topology	4	4	1+1	2 hours per week
	MAHT-312	Complex Analysis	4	4	1+1	
	MAHT-313	Classical Dynamics	4	4	1+1	
	MAHT-314	Soft core – V offered by the Dept.	3	3	1+1	
	MASC-315	Soft core - VI offered by the Dept.	3	3	1+1	
IV	MAHT-416	Functional Analysis	4	4	1+1	2 hours per week
	MAHT-417	Operations Research	4	4	1+1	
	MAHT-418	Difference equations and Z transform	4	4	1+1	
	MAHT-419	Soft core - VII offered by the Dept.	3	3	1+1	
	MAHT-420	Soft core – VIII offered by other Dept.	3	3	1+1	

Credits for 12 Hard core papers = $12 \times 4 = 48$

Credits for 8 soft core papers = $8 \times 3 = 24$

Total Credits = 72



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M.Phil. SYLLABUS (CBCS)

From 2018-19 Batch Onwards

Sem ester	Code	Title of the paper	Credits	Theory	Total Credits
I	MHHT-11	Advanced topics in Analysis and Algebra	6	6	18
	MHHT-12	Integral Transforms	6	6	
	MHHT-13	Area Paper* (Internal to be prescribed by supervisor concerned)	6	6	
	seminar/assignment/test/mid-semester			12	

II	MHHD-22	Dissertation	15	15	18
	MHHV-23	Viva-Voce	3	3	
	Pre-submission seminars			12	