



MUGBERIA GANGADHAR MAHAVIDYALAYA

P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA

NAAC Re-Accredited B+Level Govt. aided College

CPE (Under UGC XII Plan) & NCTE Approved Institutions

DBT Star College Scheme Award Recipient

E-mail : mugberia_college@rediffmail.com // www.mugberiangangadharimahavidyalaya.ac.in

Dept of Mathematics (UG & PG) Syllabus Planning & Distribution (Odd Semesters)

Course Duration : 14 Weeks

UG	Course Code	Course Name	Total Allotted Marks	Total credit	Allotted Teacher Name	Allotted Topic /Unit	Weekly Class Hour	Total Class Hours
SEM I	C1T	Calculus, Geometry & Differential Equations	75 (CA-05 CIA-10 End SEM - 60)	6	Dr. Kalipada Maity	Differential equations	2	28
					Santu Hati	Calculus	2	28
					Goutam Mandal	Integral Calculus	2	28
					Subham Maity	Geometry	4	56
	C2T	Algebra	75 (CA-05 CIA-10 End SEM - 60)	6	Dr. Manoranjan De	Unit-1	2	28
					Suman Kr. Giri	Unit-2	3	42
					Debraj Manna	Unit-3 & Unit-4	2	28
	GE1	Calculus, Geometry & Differential Equation	75 (CA-05 CIA-10 End SEM -	6	Debraj Manna	All Units	5	70

			60)					
	Pure Pass DSC-1A	Differential Calculus	75 (CA-05 CIA-10 End SEM - 60)	6	Goutam Mandal	All Units	4	56
SEM III	C5T	Theory of Real Functions & Introduction to Metric Spaces	75 (CA-05 CIA-10 End SEM - 60)	6	Dr. Kalipada Maity	Metric Spaces	2	28
					Bikash Panda	Theory of Real Functions	3	42
					Hiranmay Manna	Theory of Real Functions	2	28
					Subham Maity	Metric space	1	14
	C6T	Group Theory I	75 (CA-05 CIA-10 End SEM - 60)	6	Goutam Mandal	All Units	6	84
	C7T	Numerical Methods	55 (CA-05 CIA-10 End SEM - 40)	4	Dr. Manoranjan De	Theory part of Numerical Methods	4	56
			20	2	Santu Hati	Practical Part using MATLAB	2	28
	SEC I	Logic & Sets	50 (CA-05 CIA-05 End SEM - 40)	2	Suman Kr. Giri	All Units	2	28
	Pure Pass C7 (DSC 1C)	Real Analysis	75 (CA-05 CIA-10 End SEM - 60)	6	Subham Maity	All Units	4	56
	Pure SEC I	Logic & Sets	50 (CA-05 CIA-05	2	Suman Kr. Giri	All Units	2	28

			End SEM - 40)					
SEM V	C11	Partial Differential Equations & Applications	75 (CA-05 CIA-10 End SEM - 60)	6	Dr. Kalipada Maity	Unit 1,2,3	3	42
					Suman Kr. Giri	Unit 4	4	56
	C12	Group Theory II	75 (CA-05 CIA-10 End SEM -60)	6	Hironmay Manna	All unit	3	42
	DSE-1	Probability and Statistics	75 (CA-05 CIA-10 End SEM -60)	6	Debraj Manna	Unit 1,2,3	4	56
						Unit 4	2	28
	DSE 2	Linear Programming	75 (CA-05 CIA-10 End SEM -60)	6	Dr. Manoranjan De	Unit 2,3	4	56
						Unit 1	2	28

Mugberia Gangadhar Mahavidyalaya
Dept of Mathematics (UG & PG)
 (Even Semester)
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SEM II	C3T	Real Analysis	75 (CA-05 CIA-10 End SEM - 60)	6	Santu Hati	Unit 1,2	3	42
					Dr. Manoranjan De	Unit 3,4	3	42

	C4T	Differential Equation & vector Calculus	75 (CA-05 CIA-10 End SEM - 60)	6	Suman Kr. Giri	Unit-1,2	3	42
					Goutam Mondal	Unit-3,	2	28
					Subham Maity	Unit-4	2	28
					Dr. Kalipada Maity	Unit-5	2	28
	GE2	Algebra	75 (CA-05 CIA-10 End SEM - 60)	6	Debraj Manna	All Units	4	56
					Hironmay Manna		1	14

UG	Course Code	Course Name	Total Allotted Marks	Total credit	Allotted Teacher Name	Allotted Topic /Unit	Weekly Class Hour	Total Class Hours
SEM IV	C8T	Riemann Integration and series of function	75 (CA-05 CIA-10 End SEM - 60)	6	Hironmay Manna	Unit- 2,4	4	56
					Bikash Panda	Unit-3,	2	28
					Santu Hati	Unit-1	2	28
	C9T	Multivariate Calculus	75 (CA-05 CIA-10 End SEM - 60)	6				
					Dr Manoranjan De	Unit-3	2	28
					Goutam Mondal	Unit-4	5	70
	C10T	Ring Theory and Linear Algebra - I	75 (CA-05 CIA-10 End SEM - 60)	6	Debraj Manna	Unit-1,2,3,4	4	56
	SEC-2	Graph Theory	50 (CA-05 CIA-05 End SEM - 40)	2	Suman Kr Giri	All Unit	3	42

	GE-4							
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UG	Course Code	Course Name	Total Allotted Marks	Total credit	Allotted Teacher Name	Allotted Topic /Unit	Weekly Class Hour	Total Class Hours
SEM VI	C13T	Metric Space and Complex Analysis	75 (CA-05 CIA-10 End SEM - 60)	6	Subham Maity	Unit-3,4,	2	24
					SantuHati	Unit- 5,6	2	24
					BikashPonda	Unit-1,2	2	28
	C14T	Ring Theory and Linear Algebra II	75 (CA-05 CIA-10 End SEM - 60)	6	Debraj Manna	Unit-1	1	14
					Hironmay Manna	Unit-2,3	2	28
	DSE-3	Mechanics	75 (CA-05 CIA-10 End SEM - 60)	6	Debraj Manna	Unit-1,2	2	28
					Suman Kr. Giri	Unit-3	2	28
	DSE-4	Mathematical Modeling	50 (CA-05 CIA-05 End SEM - 40)	6	Dr. KalipadaMaity	Unit- 1	1	14
					Dr. Manoranjan De	Unit-2	2	28

MugberiaGangadharMahavidyalaya

Dept of Mathematics (UG & PG)

(Odd Semester)

Course Duration : 14 Weeks

PG	Course Code	Course Name	Total Allotted Marks	Total credit	Allotted Teacher Name	Allotted Topic /Unit	Weekly Class Hour	Total Class Hours
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SEM I	MTM-101	Real Analysis	50	4	Hironmay Manna	All Units	4	56
	MTM-102	Complex Analysis	50	4	Goutam Kr Mondal	All Units	4	56
	MTM-103	Ordinary Differential Equations and Special Functions	50	4	Dr. Kalipada Maity	Unit-II	3	42
					Santu Hati	Unit-1	3	42
	MTM-104	Advanced Programming in C and MATLAB	50	4	Dr. Manoranjan De	Unit - I	2	28
					Subham Maity	Unit-II	2	28
	MTM-105	Classical Mechanics and non linear Dynamics	50	4	Bikash Ponda	All Unit	4	56
	MTM-106	Graph Theory	25	2	Hironmay Manna	All	2	28
	MTM-197	Lab1(Computational Methods : Using MATLAB)	25	2	Subham Maity	All	2	28

PG	Course Code	Course Name	Total Allotted Marks	Total credit	Allotted Teacher Name	Allotted Topic /Unit	Weekly Class Hour	Total Class Hours
	MTM-301	Partial Differential Equations and Generalized Functions	50	4	Santu Hati	Unit -I	4	56

SEM III	MTM-302	Transforms and Integral Equations	50	4	Hironmay Manna	Unit-I	3	42
					Goutam Mondal	Unit-II	2	28
	MTM-303	Dynamical Oceanology and Meteorology	25	2	Debraj Manna	All	3	42
		Operations Research	25	2	Bikash Ponda	All	2	28
	MTM-304	CBCS(Bengali)	50	4	Dr. Goutam Barman Rajesh Khan	All	4	56
	MTM-305B	Sp Paper-OR: Advanced Optimization and Operations Research	50	4	Dr. Manoranjan De	All	4	56
	MTM-306B	Sp paper OR: Operational Research Modelling -I	50	4	Dr. Kalipada Maity	All	3	42

Mugberia Gangadhar Mahavidyalaya
Dept of Mathematics (UG & PG) (Even semester)

PG	Course Code	Course Name	Total Allotted Marks	Total credit	Allotted Teacher Name	Allotted Topic /Unit	Weekly Class Hour	Total Class Hours
SEM	MTM-201	Fluid Mechanics	50	4	Santu Hati	All	4	56
	MTM-202	Numerical Analysis	50	4	Dr. Kalipada Maity	All	4	56
	MTM-203	Unit-1: Abstract Algebra	25	2	Goutam Mondal	Unit -I	2	28
		Unit-2: Linear Algebra	25	2	Bikash Panda	Unit-II	2	28

II	C-MTM-204	Bengali	50	4	Dr. Pintu Ray Choudhuri & Pranab Mahapatra	All	4	56
	MTM-205	General theory of Continuum Mechanics	50	4	Suman Kr. Giri + Subham Maity	All	4	56
	MTM-206	General Topology	25	2	Hironmay Manna	All	2	28
	MTM-297	Lab 2: (Language C Programming with Numerical methods)	25	2	Dr. Manoranjan De	All	3	42

PG	Course Code	Course Name	Total Allotted Marks	Total credit	Allotted Teacher Name	Allotted Topic /Unit	Weekly Class Hour	Total Class Hours
SEM IV	MTM-401	Functional Analysis	50	4	Dr. Arpan Dhara + Dr. Kalipada Maity	All	4	56
	MTM-402	Fuzzy Mathematics with applications	25	2	Dr. Manoranjan De	Unit -1	2	28
		Soft Computing	25	2	Dr. Manoranjan De	Unit-2	2	28
	MTM-403	Magneto Hydro Dynamics	25	2	Goutam Mondal	Unit -I	2	28
		Stochastic Process and Regression	25	2	Dr. Kalipada Maity	Unit-II	2	28
	MTM-404 A	Special Paper OM : Computational Oceanology	50	4	NA			
	MTM-405 A	Special Paper OM Dynamical Metrology II	25	4	NA			
	MTM-495A	Special Paper OM:Lab:	25	2	NA			

		Dynamical Metrology						
	MTM-404B	Special Paper OR: Non linear Optimization	50	4	Bikash Panda	All	4	56
	MTM-405 B	Special Paper OR: Operational Research Modelling - II	25	2	Santu Hati	All	2	28
	MTM-495 B	Special Paper OR Lab (using MATLAB & LINGO)	25	2	Subham Maity	All	2	28
	MTM-406	Dissertation Project Work	50	4	All Teachers	-	6	84

		Dynamical Metrology						
	MTM-404B	Special Paper OR: Non linear Optimization	50	4	Bikash Panda	All	4	56
	MTM-405 B	Special Paper OR: Operational Research Modelling - II	25	2	Santu Hati	All	2	28
	MTM-495 B	Special Paper OR Lab (using MATLAB & LINGO)	25	2	Subham Maity	All	2	28
	MTM-406	Dissertation Project Work	50	4	All Teachers	-	6	84

K. Maity 24/03/2023
Dr. Kalipada Maity
HOD & Associate Professor
Dept of Mathematics



Swapan Kumar Misra 24.03.2023
Dr. Swapan Kumar Misra
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