



# 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

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Ref. No.—M.G.M. / /

Date.....

From—The Principal / Secretary,

## Department of Mathematics (UG & PG)

### List of project work of the PG 4<sup>th</sup> Semester students 2022

Group No	Title	Name of the students	Mentor Name	Year of submission & Presentation
1	Solving a multi-item 4 dimensional transportation problem using Fuzzy logic	<ul style="list-style-type: none"><li>• PritamNayak</li><li>• Uditā Sahoo</li><li>• ArijitMaity</li></ul>	Dr.Manorānjan De, Assistant Professor, dept. Of Mathematics, MGM	2022
2	Optimal decisions for EOQ model with deteriorated item under shortages in Fuzzy environment	<ul style="list-style-type: none"><li>• SubhenduBhunia</li><li>• HarekrishnaMaity</li><li>• SupriyaBisai</li></ul>	Dr.Manorānjan De Assistant Professor Dept of Mathematics MGM	2022
3	Fuzzy Multi-Objectives 4-dimensional Transportation problems	<ul style="list-style-type: none"><li>• Surya SekharGiri</li><li>• Subha Pradhan</li><li>• SanjibDey</li></ul>	Dr.Manorānjan De Assistant Professor Dept of Mathematics MGM	2022

4	Application of Lie Algebra in Artificial Intelligence	<ul style="list-style-type: none"> <li>• Susmita Pal</li> <li>• SrikrishnaNayek</li> <li>• Sangita Das</li> </ul>	Mr. GoutamMondal Contractual Assistant Professor Dept of Mathematics MGM	2022
5	Optimum production Problem of breakable items through pontryagin maximum principle	<ul style="list-style-type: none"> <li>• SubhaGhorai</li> <li>• Biswaranjan Manna</li> <li>• AnupamaKhatua</li> </ul>	Mr. SantuHati Contractual Assistant Professor Dept of Mathematics MGM	2022
6	Mathematical Analysis of a non linear fractional order one victim – two predators Model	<ul style="list-style-type: none"> <li>• SouravBera</li> <li>• Uttam Sen</li> <li>• AnasuaMaiti</li> </ul>	Dr.KalipadaMaity HOD & Associate Professor Dept of Mathematics MGM	2022
7	A production planning model with a dynamic chance constraint in stochastic environment	<ul style="list-style-type: none"> <li>• ParthapratimSaho</li> <li>• Susmita Pahari</li> <li>• GouriSankar Mandal</li> </ul>	Dr.KalipadaMaity HOD & Associate Professor Dept of Mathematics MGM	2022
8	Pollution control optimal multi-objective inventory model of product process innovation with stock depend demand and gathering knowledge accumulation in finite horizon	<ul style="list-style-type: none"> <li>• Anup Mandal</li> <li>• SaikatGayen</li> </ul>	Mr.Santu Hati Contractual Assistant Professor Dept of Mathematics MGM	2022
9	The Numerical solution of Navier hyperbolic equations:shock wave Propagation	<ul style="list-style-type: none"> <li>• Swarnendu Pradhan</li> <li>• Sayani Sinha</li> <li>• Kuheli Mandal</li> </ul>	Mr. Bikash Panda SACT Dept of Mathematics MGM	2022

10	Mathematical Modelling and Control of SVEIR COVID - 19 Model	<ul style="list-style-type: none"> <li>• Debasish Pahari</li> <li>• Anal Mishra</li> <li>• SurajitBhanja</li> </ul>	Dr.Anupam De Associate Professor dept. Of Mathematics, HIT	2022
11	Galois Theory	<ul style="list-style-type: none"> <li>• Gurupada Jana</li> <li>• BasudevMaity</li> <li>• SayantaniMaity</li> </ul>	Dr. Arpan Dhara Assistant Professor of dept. Of Mathematics, Sitananda College, Nandigram, WB	2022
12	Numerical Methods to solve Fuzzy equations	<ul style="list-style-type: none"> <li>• TwamekaTripathi</li> <li>• AnanyaPattanaya k</li> <li>• MoumitaTunga</li> </ul>	Dr.KalipadaMaity HOD & Associate Professor Dept of Mathematics MGM	2022
13	The value of target sales rebate contracts in a dual channel supply chain with downstream competition	<ul style="list-style-type: none"> <li>• SougataBera</li> <li>• Shantigopal Jana</li> <li>• SkTowkirAlam</li> </ul>	Mr. Goutam Mandal Contractual Assistant Professor Dept of Mathematics MGM	2022

## List of project work of PG 4<sup>th</sup> semester students 2021

Group	Project Title	Student Name	Mentor Name	Year of submission & Presentation
1	Modelling the effect of immune protection and vaccination against COVID19	<ul style="list-style-type: none"> <li>• Debmalya Mishra</li> <li>• Shamik Hait</li> <li>• Madhusudan Midya</li> </ul>	Dr.Kalipada Maity HOD & Associate Professor Dept of Mathematics MGM	2021
2	A stochastic Multi channel revenue management model with time dependent demand	<ul style="list-style-type: none"> <li>• Sangita Paul</li> <li>• Tapas Sheet</li> <li>• Satyaki Adak</li> </ul>	Dr.Kalipada Maity HOD & Associate Professor Dept of Mathematics MGM	2021
3	A Fuzzy production inventory control model using Granular differentiability approach	<ul style="list-style-type: none"> <li>• Manish Acharyya</li> <li>• Moumita Sahoo</li> <li>• Chandan Giri</li> </ul>	Mr.Santu Hati Contractual Assistant Professor Dept of Mathematics MGM	2021
4	Numerical approach of multi objective optimal control problem in imprecise environment	<ul style="list-style-type: none"> <li>• Sudipa Khatua</li> <li>• Gopal Das</li> <li>• Seuli Dey</li> </ul>	Dr.Kalipada Maity HOD & Associate Professor Dept of Mathematics MGM	2021
5	Teleportation of five-Qubit state using six-Qubit entanglement state	<ul style="list-style-type: none"> <li>• Sk Sajahan</li> <li>• Tuhina Giri</li> <li>• Ranita Giri</li> </ul>	Dr. Arpan Dhara Assistant Professor of dept. Of Mathematics, Sitananda College, Nandigram, WB	2021
6	Multi objective 4-dimensional transportation problem	<ul style="list-style-type: none"> <li>• Durga Mandal</li> <li>• Gayatri Jana</li> <li>• Gouranga Barua</li> </ul>	Dr.Manoranjan De Assistant Professor Dept of Mathematics MGM	2021
7	Mathematical Modelling and control of Covid-Influenza Co-infection	<ul style="list-style-type: none"> <li>• Pallabita Maitty</li> <li>• Sima Bhunia</li> <li>• Ansar Ali Khan</li> </ul>	Dr.Anupam De Associate Professor dept. Of Mathematics, HIT	2021
8	Visceral leishmaniasis and control strategies	<ul style="list-style-type: none"> <li>• Bidhan Chandra Jana</li> <li>• Sanju Sinha</li> <li>• Suman Manna</li> </ul>	Dr. Debnarayan Khatua	2021

9	Multi-item dimensional transportation problem	4	<ul style="list-style-type: none"> <li>• MadhuriBera</li> <li>• Supriti Si</li> <li>• AsharaniMan na</li> </ul>	Dr.Manoranjan De Assistant Professor Dept of Mathematics MGM	2021
10	Numerical methods to solve 2D Laplace differential equation		<ul style="list-style-type: none"> <li>• Chayan Pradhan</li> <li>• NilanjanPram anik</li> <li>• RamnarayanP ayra</li> </ul>	Mr. BikashPanada  SAC Teacher of dept. of Mathematics	2021

## List of project work of PG 4<sup>th</sup> semester students 2020

Group	Project Title	Student Name	Mentor Name	Year of Submiss ion& Presenta tion
1	MHD Oscillatory Channel Flow, Heat and Mass Transfer in a Physiological Fluid in the Presence of Chemical Reaction	Amit Rana (Reg. No. 231642 of 2015-16) Subhasri Jana BipulMaity	Dr.Aniruddha Sinha, Assistant Professor, Dept of Mathematics, YS PalparaMahavidyalaya	2020
2	Mathematical Model for Coronavirus Disease Containing Isolation Class	Sudip Mishra (Reg. No. 231685 of 2014-15) Subhasish Das (Reg. No. 231675 of 2014-15) Shilpa Das (Reg. No. 190766 of 2014-15)	Mr. Santu Hati Contractual Assistant Professor Dept of Mathematics MGM	2020
3	Solving EPQ Model for Deteriorating Items using Genetic Algorithms	SunayaniMondal (Reg. No. 231988 of 2015-16) AnusriMaity (Reg No190670 of 2014- 15) MousumiMaity	Dr.Manoranjan De Assistant Professor Dept. Of Mathematics (UG & PG) MugberiaGangadharMa havidyalaya	2020

		(Reg No 190724 of 2014-15)		
4	Stability Analysis of Fuzzy Dynamical System by Using Quasi Level Operators	SubhajitGiri Sudip Manna BrajaGopalGhorai	Dr.Manoranjan De Assistant Professor Dept of Mathematics MGM	2020
5	Population Control optimal inventory model of product – process innovation with stock depend demand and gathering knowledge accumulation in finite time horizon	RintuKar (Reg No 231569 of 2014-15) SkSaidulla Uddin (Reg. No. 011364 of 2015-16) SanchitaMaity (Reg. No. 190820 of 2015-16)	Mr. Santu Hati Contractual Assistant Professor Dept of Mathematics MGM	2020
6	Research on the relationship between economical profit and environmental pollution of imperfect production inventory control problem in Fuzzy-Rough environment	Soumava Das Rabindranath Maji SubhajitGiri	Dr.Aniruddha Sinha, Assistant Professor, Dept of Mathematics, YS PalparaMahavidyalaya	2020
7	Vector borne disease in imprecise environment	Santanu Shit SaswatiMahapatra Minakshi Sarangi	Dr.Kalipada Maity HOD & Associate Professor Dept of Mathematics MGM	2020
8	A Mathematical model for Corona virus (COVID-19)	Anindita Jana (Reg No. – 231375 of 2014-15) Sandip Das (Reg No. 231590 of 2014-15) Ramkrishna Bar (Reg No 231563 of 2014-15)	Mr. Goutam Mandal Contractual Assistant Professor Dept of Mathematics MGM	2020

## List of project work of PG 4<sup>th</sup> semester students 2019

Group	Project Title	Student Name	Mentor Name	Year of Submission &
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				<b>presentation</b>
1	Optimal Control of Mosquito Borne Disease in Imprecise Environment	Rabindranath Bhoj (Reg No. 231556 of 2014-15) Krishna Paria SumanSasmal	Dr. Anupam De Assistant Professor Dept. of Applied Science Haldia Institute of Technology	2019
2	Solution of a Travelling Salesman Problem using Genetic Algorithm considering Cyclic Crossover and Random Mutation	Sanchita Bag Sukhendu Das Adhikary	Dr. KalipadaMaity Associate Professor Dept. of Mathematics MugberiaGangadharMahavidyalaya	18.07.2019
3	Use of “e” and “g” operators to a Fuzzy Production inventory control model for complementary and substitute items	Prathama samanta Manotosh Panda MampiBera	Dr. KalipadaMaity Associate Professor Dept. of Mathematics MugberiaGangadharMahavidyalaya	2019
4	Fuzzy Dynamical System	Archana Adak NandiniMaity Nirmal Das	Dr. Manoranjon De Assistant Professor Dept. of Mathematics MugberiaGangadharMahavidyalaya	2019
5	A Fuzzy production Control Model with fuzzy advertisement dependent demand	SudiptaDinda Nandita Lal Anusri Sinha	Prof. DevnarayanKhatua Dept. of Basic Science and Humanities Global Institute of Science Technology	2019
6	An overview on the logistic and theta logistic growth model	Souman Jana Nilmadhab Mandal Goutam Das	Mr. BikashPanada  Teacher of dept. of Mathematics	2019

## Project on Environmental Studies

Course Code: AECC-2	Environmental Studies	Credit:4	CA:20	ESE:80
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## Syllabus of ENVS:

## Project on Environmental Studies

Course Code: AECC-2	Environmental Studies	Credit:4	CA:20	ESE:80
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### List of the UG- Sem II students including in this course 2018-19

SL. No.	Name	Sl. No	Name	Sl. No	Name
1.	Anasua Maiti	11	Sabyasachi Mandal	21	Moumita Bhunia
2.	Anupama Ojha	12	Sangita Das	22	Moumita Maity
3.	Anuradha Sau	13	Sayani Roy	23	Piu Maity
4.	Arijit Maity	14	Soumendu Nanda	24	Susmita Pal
5.	Barun Bera	15	Sourav Bera	25	Uttam Sen
6.	Basudev Maity	16	Srikrishna Das	26	Puspita Jana
7.	Bhagyashree Jana	17	Subha Ghorai	27	Priti Chanda
8.	Biswaranjan Manna	18	Subhajit Sahoo	28	Pritam Nayak
9.	Suryakanta Kandar	19	Subhendu Bhunia		
10.	Subrata Das	20	Udita Sahoo		

### List of the UG- Sem II students including in this course 2019-20

Sl. No	Name	Sl. No		Sl.No	Name
1	AdipMaity	11	PuspenduSau	21	SubhadipSahoo
2	Arnab Maity	12	RathinSamanta	22	SubinoyPatra
3	Buddhadev Jana	13	RathindranathSahu	23	SuchismitakPradhan
4	Goutam Jana	14	SahebBera	24	Sumana Mandal



5	Kallol Jana	15	Santu Pradhan	25	SusmitaSahoo
6	MrinmayMahapatra	16	Shrabani Jana	26	TanmoyBera
7	Parag Mandal	17	ShyamalBera	27	Tapasi Karan
8	PoushaliTripathy	18	Sreya Jana	28	Santanu Giri
9	Prasenjit Mandal	19	SrikrishnaMaity		
10	Priti Das Adhikari	20	SubhaBhunja		

### **List of the UG- Sem II students including in this course 2020-21**

Sl.No	Name	Sl. No	Name	Sl.No	Name
1	ANWESHA SAMANTA	9	PABITRA MONDAL	17	SASWATI GIRI
2	BITHI MAIKAP	10	PARTHA PRATIM MAITY	18	SOURAV DAS
3	DEBRAJ MONDAL	11	PRADIP MAITY	19	SOURAV TRIPATHY
4	DIPAK PARIA	12	PUSPENDU MAITY	20	SRIJAN DAS
5	INDRANI DAS	13	RANJIT PRADHAN	21	SUBHADIOP JANA
6	MANOJ MAITY	14	SABYASACHI MAJI	22	SUBHAJIT JANA
7	MEGHA SANTRA	15	SAMIK DAS	23	SURJADIP BARIK
8	NANDITA JANA	16	SANTU BERA		

### **List of the UG- Sem II students including in this course 2021-22**

SL. No	Name	SL. No	Name	SL. No	Name
1	Somsankar Mandal	9	BachaspatiMondal	17	SudeshnaMaity
2	Suman Das	10	ShubhajitGiri	18	AnneshaKhatua
3	AmiyendraMaiti	11	SurajitMaity	19	ParamitaMaity
4	SoumyadeepBej	12	Ayan Pradhan	20	Megha Rani Sahoo

5	Jatindranath Samanta	13	Rajkumar Karan	21	Gaurangi Pal
6	Sudipta Mondal	14	Soumitra Das	22	Subhadip Mahapatra
7	Ranajit Mandal	15	Bidisha Sasmal	23	Amit Patra
8	Atanu Maity	16	Sonali Mandal	24	Swati Maikap
				25	Ayantika Mondal



Signature of the Principal  
Principal  
Mugheria Gangadhar Mahavidyalaya  
04.04.2023