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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Capacity Building and Skill Enhancement Initiative taken by The Mathematics Department during 2018-2023 Soft Skills training gives a comprehensive understanding of the true perspective of application of skills as expected at the present work scenario. Therefore, examples, case studies, and exercises are tailor-made to suit the needs of students of Patrician college have been provided.

Objectives: To develop accuracy – this training aims at facilitating and teaching Soft Skills• To provide realistic examples to students. In addition to this, dialogues used in everyday• life, exchanges and responses using case studies as examples are given to make a better living at industry and world To allow students to place new information and skills development into a larger context• The students can make use of this training to understand the essentials of language skills. Understanding Different Speech Sounds, Learning Pronunciation, Speaking Without Errors, Building Conversations, Understanding Non-verbal Communication, Formal and Informal Communication, the right Etiquette for Public Speaking and Business Presentations, Personality Development and Building Self-Esteem, Team Building and Group Discussion, Facing Different Types of Interviews with Confidence and Preparing for and Delivering Successful Business Presentations are some areas students become familiar with.

Language Skill is an integral component of communication and helps professionals interact with colleagues, managers and clients effectively. There are four core language abilities that help people exchange ideas, thoughts and emotions. Knowing about these four skills can help improve your communication in the workplace and interaction with customers. In this article, we define language skills, explain four essential language abilities, and discuss how to improve them, list their utility in the workplace and share ways of highlighting them when applying for jobs

It is common to combine two or more language abilities while interacting. These skills, when used together, are co-dependent on each other. For example, if listening is an input of information, speaking is a form of output where the audience can interject, ask questions or provide inputs after listening to the message. Similarly, writing is the summary output of what is read, understood and interpreted, which requires reading skills

Communication skills are the abilities you use when giving and receiving different kinds of information. Some examples include communicating new ideas, feelings or even an update on your project. Communication skills involve debate, listening, speaking, observing and empathizing.

The World Health Organization defines life-skills as, "abilities for adaptive and positive behaviour that enable individuals to deal effectively with the demands and challenges of everyday life." Thus, life skills are basic skills that help individuals in leading a meaningful life and better adjustment in the society.

ICT skills are abilities that help you understand and operate a wide range of technology software. This can include helping users with tasks on computers, such as making video calls, searching on the internet or using a mobile device like a tablet or phone.



Different Mathematician and contribution published in Wall Magazine

Reports 2019-2022/@Départment of Multier

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	Mathematician's Name	Student name	Semester(UG/PG)
1	Manjul Bhargava	Shipra Jana	2ndsem(PG)
2	Leonhard Euler	Chayan Kumar Jana	2 nd sem(PG)



Topic with presentation	Students Name	Semester
Inauspicius Number 13	Poushali Tripathi	4 th sem(PG)
Mathematics in TAJMAHAL	Shibam Majhi	4 th sem(UG)
MathematicalMystery : Russell's paradox	Tapasi Karan	4 th sem(PG)
Fourier transforms and its application on audio and image processing	<u>SudeshnaMaity</u>	4 th sem(PG)
Artificial intelligence & Machine learning	AmiyendraMaiti	6 th sem(UG)
Draw brand symbol by Golden Ratio	SoumvadeepBej	6 th sem(UG)
Rhythm is to music as numbers are to math	SanchayanLaha	4 th sem(PG)
Predicting Gross domestic product using differential equation	Samapti Jana	4 th sem(UG)
Significance of no.18 in the Mahabharata	Jatindranath Samanta	6 th sem(UG)
About Pie	Ayantika Mondal	2 nd sem(PG)
ECDSA	Diptangshu Barman	4 th sem(PG)







	Topic with presentation	Student name	Semester(UG/PG)
1	Data Security	Manoj Maity	6 th (UG)
2	Neena Gupta	Sougata Bera	4 th (UG)
3	ISBN Number	Sudeshna Mity	2 nd (UG)
4	Super Golden Ratio	Subhendu Bhunia	4 th (PG)
5	One's life in Mathematics	Gouttam Jana	2 nd (PG)
6	Golden Ratio	Sougata Bera	4 th (PG)
7	Mathematical Finance	Poushali Tripathy	2 nd (PG)



Mathematician's Name	Students Name	Semester
Brahmagupta	Harekrishna Maity	4 th sem(UG)
Aryabhata	Moumita Tunga	4 th sem(PG)
Pythagoras	Parthapratim sahoo	4th sem(UG)
Euclid	Megha Santra	6 th sem(UG)
George Cantor	Susmita Pahari	4th sem(PG)
Leonhard Euler	Indrani Das	6 th sem(UG)
Carl Friedrich Gauss	Gurupada Jana	4 th sem(PG)
Jean le road D'Alembert	Saswati Giri	6 th sem(UG)
Archimedes	Bithi Maikap	6 th sem(UG)
Augustus Louis Cauchy	Subha Pradhan	4 th sem(PG)
<u>Srinivasa Ramanujan</u>	Swamendu Pradhan	4 th sem(PG)
Niels Henrik Abel	Surajit Bhanja	4 th sem(PG)
Akshay Venkatesh	Suryasekhar Giri	4 th sem(PG)

Reports 2019-2022@Department of Natriematics, Musberia Generaldhar Mahavidválava-



Different Mathematician and contribution published in Wall Magazine



Written by:

Kuheli Mondal4th sem(PG)Sougata Bera4th sem(PG)Sayani Sinha4th sem(PG)Saswati Giri4th sem(PG)

Decorated by:

Arijit Maity	4 th sem(PG)
Anwesha Samnta	6 th sem(PG)
Ranjit Pradhan	6 th sem(PG)
Santu Bera	6 th sem(PG)
Parthapratim Matiy	6 th sem(PG)
Pabitra Mondal	6 th sem(PG)
Pradip Maity	6 th sem(PG)

Reports 2019-2022@Department of Mathematics Mushers Ganadhar Muharifusian







A comprehensive technical session on Latex: Report writing, Beamer modification for effective CV and Presentation

3. Speaker : Dr Rakesh Laxmikant Das, PhD, Director in a startup Nano Enhancer, Teaching Assisant in AMHD NIT-Surat Department of Mathematics, National Institute of Technology Surat.

Title of the talk: "A comprehensive technical session on Latex"



Department of Mathematics of Mugberia Gangadhar Mahavidyalaya organized One day national workshop on "A comprehensive technical session on Latex: Report writing, Beamer modification for effective CV and Presentation" on 18th December 2021 (1:15-3:15pm) using the platform Google meet Streaming in YouTube to motivate and cautious the large number of people and specifically young mathematicians including those at the beginning of their careers- such as B.Sc. and M.Sc. students, research scholars and others to enlighten the scope during this crisis period. Dr. Swapan Kumar Misra, principal of this college inaugurated the program on virtual platform. Dr. Rakesh Laxmikant Das, Teaching Assistant in AMHD NIT - Surat, Director in a startup Nano Enhancer was the main speaker. Currently, Dr. Rakesh is working as a Teaching Assistant at the Dept. of Mathematics and Humanities, SVNIT. Consequently, he is also a co-founder and a director of a startup called "Nano Enhancer" incubated at ASHINE, SVNIT. His product is specialized in the areas of crude refinery, diamond industry, and abrasive industries. Total 104 students (Male: 65 and Female: 39) with 11 faculty members (Male: 09 and Female: 02) participated in this program. Most of the students of UG, PG and nearly 28 alumni were participating in this program to acquire knowledge to write repot, research paper, question and beamer presentation using Latex in offline as well as online platform. Some students asked various type of questions related to referencing, citing articles, automatically updated equation, caption and label number for tables and figures to the speaker and the speaker answered them satisfactorily. This workshop had been achieved its goal and grand

Reports 2019-2022 @Départment of Mathematics Muchena Ganzadhar Mahavidualaya

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Department of Mathematics organised an inter departmental workshop entitled program "Introduction to Excel" on 17th February, 2022 at 02:15pm onwards to help, motivate and encourage for computing simulating the numerical data / practical data of project / research paper in different field of Mathematics, Chemistry and Zoology in Computer Lab of Mathematics Department under DBT start college Strengthening scheme. Dr. Swapan Kumar Misra, principal of this college inaugurated the program. The Joint co-ordinators Dr. Bidhan Ch. Samanta & Dr. Kalipada Maity were thanks to DBT and the organizing Department. Dr. Manoranjan De, Assistant Professor, Department of Mathematics was the main speaker of this program. He nicely presented his PPT and involved all the students for hands-on session. Total 62 students (Male: 37 and Female: 25) with 14 faculty members (Male: 09 and Female: 05) among above three departments participated in this program. They acquired the most of the knowledge of excel. Finally, three students asked various type of questions related to advanced excel and the speaker discussed their questions in details to satisfy them. Dr. De also promised that he will teach another session to learn advanced excel, for

Reports 2019-2022/@Department of Matthematics Muzberia Ganzadhar Mahavidualava

#### Introduction to Excel

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# Workshop on Soft Computing

on

# 3rd March 2023

# Speaker : Dr. Manoranjan De, Assistant Professor, Dept of Mathematics

Soft Skills is a very popular term nowadays, used to indicate personal transversal competences such as social aptitudes, language and communication capability, friendliness and ability of working in team and other personality traits that characterize relationships between people. Soft Skills are traditionally considered complementary of Hard Skills, which are the abilities to perform a certain type of task or activity. Soft Skills are strategic to be successful in personal and professional life then is essential for the students when they try to obtain any kind of job.

Enterprises generally hire new employees, in particular recent graduates, taking more in consideration their Soft Skills than their Hard Skills. This happens also for technical professions, because the company, in order to be competitive, needs to create good and effective teams and a collaborative working atmosphere. The Mathematics department of the college have organized various types of activities to develop the soft skills of the students enrolled with the institution. These activities of the departments and platforms available helped the learners to learn and acquire soft skills like Communication Skills, Presentation Skills, Written Communication, Interpersonal Skills, Creativity and Leadership etc. In order to improve the communicative abilities of the students Dr. Kalipada Maity, Associate Professor, HOD Department of Mathematics, Mugberia Gangadhar Mahavidyalaya, and other faculty members, of the mathematics department enhance the written communication of the students play significant role. The students are given in depth lessons by organizing workshops, state level elocution competition, interfaculty debates and group discussions and expert talks of the quality speakers and the trainers throughout the academic year. These activities benefit the students to enhance the knowledge of use of language and its spoken aspect. It helped the students for their development of communication skills

To improve the Presentation Skills the departments conducted seminars of the students. The students get participated and perform active role in the Seminars. Topics are given to themto prepare and present to assess their performance. Every year the departments make the organization of such seminars a regular feature of the campus. The Department of English conducts the Poetry Recitation activity which helps the students to learn the presentation skills and enhances the creative capabilities among them. The Group Discussion is the routine practice of the campus may it be the part of the curriculum or not. They learn the art of argument which helps them in practical life ahead and thus develop interpersonal skills among themselves. The institution has also developed well equipped Language Laboratory supported by digital resources and software like Words Worth. It helps and encourages the learners to acquire necessary nuisances of the language.



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### Attendance

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#### Three Days International Webinar

On

"Mathematical Modelling In The Context Of Covid-19" on 30 th , 31 st August and 1st September, 2020

Under DBT STAR COLLEGE Strengthening Scheme (Govt. of India)

Organized by Department of Mathematics

Face book Link:

https://m.facebook.com/story.php?story_fbid=pfbid02Ym VrBVrVrCmrb1EpxjJhyEfnbqLx7kJefQYowSLShrs7cZ2 gQSK69cUp5VFx7wJEl&id=100000134150344&mibexti d=Nif5oz



Reports 2019-2022@Department of Mathematics, Mugberts Gangadhar Muhavidyolaya,

Time	Name of the Speaker	Title of the talk
3:00 pm - 3:15 pm	Dr Kalipada Maity Jt. Convener, Associate Professor, Coordinator 1QAC Cell and Head Department of Mathematics (UG & PG) Mugberia Gangadhar Mahavidyalaya	Introductory Remarks & Welcome Address
3:15 pm - 3:25 pm	Dr Swapan Kumar Misro, Chair Person & Principal Mugberia Gangadhar Mahavidyalaya	Inaugural Speech
3:25 pm - 4:10 pm	Keynote Address: Prof. Manoranjan Maiti, Former Professor, Dept. of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, West Bengal, India.	Mathematical modelling in the context of covid-19 with examples.
Technical Session -1.1 :	Chairman : Prof. Manoraujan Maiti, Former Professor, Dept. of Ap	oplied Mathematics. Vidyasagar University, West Bengal, India.
4:10 pm - 5:00 pm	Speaker 1: Prof. Pankaj Dutta Associate Professor Decision Sciences and Quantitative Methods Shailesh J. Mehta School of Management, I.I.T.Bombay	A multi-objective optimization model for sustainable reverse logistics in E-commerce market.
5:00 pm – 5:10 pm	Paper Presenter-1: Modu Bako GREMA, Department of Mathematics and Statistics, Ramat Polytechnic Malduguri, Borno state. Nigeria.	Analytical Solution of Two-dimensional Heat Equation in the Context of Covid 19 using Dirichlet Boundary Condition
5:10 pm - 5:30 pm		Participant's question and Speaker's reply session
	N	
****	********End of Day 1***	**************
	Day 2: 31.08.2020 (Monday) 8:30 am	to 11:30 am Indian time

# Day 1: 30.08.2020 (Sunday) 3:00 pm to 5:30pm Indian time

Reports 2019-2022@Department of Mathematics, Mugberla Gangadhar Mahavidyalaya.

l'ine	Name of the Speaker	Title of the talk		
8:30 am - 9:20 am	Speaker-2: Prof. Oscar Castillo, Ph.D., D.Sc. Research Chair of Graduate Studies Tijuana Institute Technology (SNI Level 3)Tijuana, Mexico	Soft Computing and Fractal Theory in Modeling COVID-19 dynamic behavior		
9:20 am - 10:10 am	Speaker-3: Dr. Dilip Jana Manager, Principal Fata Scientist Walmart Labs, Dallas, TX, USA	Application of Mathematics and Artificial Intelligence to solve COVID-19 related business problems		
Technical So	saion -2.2: Chairman: Dr. Manoranjan De, Jt. Convener & Assis	tant Professor, Dept. of Mathematics (UG&PG), MGM		
10: 20 am - 11:10 am	Speaker-4: Dr. Ram Rup Sarkar Senior Principal Scientist Chemical engineering and Process Development CSIR-National Chemical Laboratory Pune, India	On the Temporal Analysis of COVID-19 Pandemic and Prediction R		
11: 10 nm - 11:20 nm	Paper Presenter-2: Durbar Maji Department of Applied Mathematics with Oceanology and Computer Programming, Vidyaşagar University, Midnapore - 721102, India	Exact Formulae of The Third Leap Zagreb Index for Some Graph Operations.		
11:20 am - 11:30 am		Participant's question and Speaker's reply session		
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	Day 3: 01.09.2020 (Tuesday) 3:00 pm	to 5:30pm Indian time		

Technical Session -3.1: Chairman: Prof. Samarjit Kar, Dept of Mathematics, National Institute of Technology

	Durgapur West Bengal, I	ndia		
Time	Name of the Speaker	Title of the talk		
3:00 pm - 3:50 pm	Speaker-5: Prof. Shyanoal Kumar Mandal, Professor, Dept. of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, West Bengal, India.	Nobility of Mathematics in analyzing the insights of infections diseases like COVID-19		
Technical Session -3.2:	Chairman:Prof. Shyamal Kumar Mandal, Professor, Dept. of Applied University, West Bengal, I	Mathematics withOceanology and Computer Programming, Vidyasagar ndia.		
3:50 pm – 4:40 pm	Speaker-6: Prof. Samarjit Kar, Professor, Dept of Mathematics National Institute of Technology, Durgapur West Bengal, India	Fuzzy based infections disease modeling for SARS-CoV-2		
Technical Sessio	n -3.3: Chairman:Dr. Kalipada Maity, Jt. Convener & Assistant Profe	tor,Dept. of Mathematics(UG&PG), MGM, West Bengal, India.		
4:40 pm - 4:50 pm	Paper Presenter-3: Dr. Anjana Bhattacharyya. Assistant Professor of Mathematics, Victorin Institution (College), Kolkata, India	A New Type of Separation Axiom by p*-Closure Operator in Fuzzy Setting		
4:50 pm – 5:00 pm	Paper Presenter-4: Dr Bablu Samanta Assistant Professor & HOD Dept. of Mathematics Egra SSB College Puba Medinipur.west Bengal, INDIA	Uncertainty based multi-objective portfolio selection model		
5:00 pm - 5:20 pm		Participant's question and Speaker's reply session		
5:20 pm - 5:30 pm	Dr Manoranjan De Jt. Convener, Assistant Professor	Vote of Thanks and End of the Webinar		



Problem:20 marks Lab.notebook and viva:5.(Programs are to be written on the following problems using pointers, data file, structures, etc.)

On Searching and Sorting Problems: Linear and binary search, Bubble, Insertion, Selection techniques.

String manipulation: No of occurrence of alternating a given string, Palindrome

#### **On Numerical Problems:**

- (i) Evaluation of determinant by Gauss elimination method, using partial pivoting.
- (ii) Matrix inverse bypartial pivoting.
- (iii) Roots of Polynomial equation.
- (iv) SolutionofsystemoflinearequationsbyGaussSeidaliterationm ethod,Matrix inversion method, LU decomposition method, Gauss elimination method.
- (v) Solution of Tri-diagonal equations.
- (vi) Interpolation: Differencetable, Lagrange, Newton for wardand backward interpolation, Cubic spline interpolation.
- (vii) Integration: Gauss quadrature rule, Integration by Monte Carlo method, Double integration.
- (viii) Solution of ODE: Euler and Modified Euler's, Runge-Kuta, Predictor and Corrector method: Milne method.
- (ix) Solution of PDE by Finite difference method.
- (x) Eigen value of a matrix: Power method, Jacobi method. On Statistical Problems:
- (xi) On bi-variate distribution: Correlation coefficient,

Regression lines, Curve fitting. (xii) Multiple regression. Simple hypothesis testing.

SL.	Name	SL.	Name	SL.	Name
No		No		No	
1	ANUSRI SINHA	8	NANDITA LAL	15	SOUMEN JANA
2	ARCHANA ADAK	9	NILMADHAB MANDAL	16	SUDIPTA DINDA
3	GOUTAM DAS	10	NIRMAL DAS	17	SUDIPTA MAITY
4	KRISHNA PARIA	11	PRATHAMA SAMANTA	18	SUKHENDU DAS ADHIKARY
5	MAMPI BERA	12	RABINDRANATH BHOJ	19	SUMAN SASMAL
6	MANOTOSH PANDA	13	RIYA PAL	20	TARAPADA MAJI
7	NANDINI MAITY	14	SANCHITA BAG		

List of the PG- Sem II students including in this course 2018

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

SL.	Name	SL.	Name	SL.	Name
No		No		No	
1	MOUSUMI MAITY	10	MOUMITA GIRI	19	SOUMAVA DAS
2	SHILPA DAS	11	RABINDRANATH MAJI	20	ANUSRI MAITY
3	RINTU KAR	12	SASWATI MAHAPATRA	21	ARUMITA MAITY
4	SUBHASRI JANA	13	SUBHASISH DAS	22	MAMATA BIRING
5	AMIT RANA	14	SK SAIDULLA UDDIN	23	SUDIP MISHRA
6	RAMKRISHNA BAR	15	SUNAYANI MONDAL	24	BIPUL MAITY

7	ANINDITA JANA	16	SOMA BERA	25	SUBHAJIT GIRI
8	BRAJAGOPAL GHORAI	17	NANDITA PRADHAN	26	SANDIP DAS
9	MINAKSHI SARANGI	18	SANCHITA MAITY	27	SUDIP MANNA

### List of the PG- Sem II students including in this course 2020

SL.	Name	SL.	Name	SL.	Name
No		No		No	
1	ANSAR ALI KHAN	11	MADHURI BERA	21	SATYAKI ADAK
2	ASHARANI MANNA	12	MADHUSUDAN MIDYA	22	SEULI DEY
3	BIDHAN CHANDRA JANA	13	MANISH ACHARYYA	23	SIMA BHUNIA
4	CHANDAN GIRI	14	MOUMITA SAHOO	24	SK SAJAHAN
5	CHAYAN PRADHAN	15	NILANJAN PRAMANIK	25	SOUMIK HAIT
6	DEBMALYA MISHRA	16	PALLABITA MAITY	26	SUDIPTA KHATUA
7	DURGA MANDAL	17	RAMNARAYAN PATRA	27	SUMAN MANNA
8	GAYATRI JANA	18	RANITA GIRI	28	SUPRITI SI
9	GOPAL DAS	19	SANGITA PAUL	29	TAPAS SHEET
10	GOURANGA BERA	20	SANJU SINGHA	30	TUHINA GIRI

List of the PG- Sem II students including in this course 2021

SL.	Name	SL.	Name	SL.	Name		
No		No		No			
1	SURYA SEKHAR GIRI	14	SUBHA GHORAI	27	BASUDEV MAITY		
2	SUBHA PRADHAN	15	UTTAM SEN	28	ANAL MISHRA		
3	SWARNENDU PRADHAN	16	SUPRIYA BISAI	29	SAIKAT GAYEN		
4	SANJIB DEY	17	DEBASISH PAHARI	30	ARUP MONDAL		
5	SUSMITA PAHARI	18	GOURI SANKAR MANDAL	31	SANGITA DAS		
6	HAREKRISHNA MAITY	19	PARTHAPRATIM SAHOO	32	SOURAV BERA		
7	TWAMEKA TRIPATHI	20	PRITAM NAYAK	33	SURAJIT BHANJA		

8	GURUPADA JANA	21	SAYANI SINHA	34	PIU MAITY
9	ANUPAMA KHATUA	22	SUSMITA PAL	35	KUHELI MANDAL
10	ANANYA PATTANAYAK	23	SOUGATA BERA	36	UDITA SAHOO
11	MOUMITA TUNGA	24	SK TOWKIR ALAM	37	ARIJIT MAITY
12	SUBHENDU BHUNIA	25	SHANTIGOPAL JANA	38	SAYANTANI MAITI
13	BISWARANJAN MANNA	26	SRIKRISHNA NAYAK	39	ANASUA MAITI

List of the PG- Sem II students including in this course 2022

SL.	Name	SL.	Name		Name		
No		No		No			
1	Amiya Mandal	13	Priti Das Adhikari	25	Subinoy Patra		
2	Biren Pahari	14	Puspendu Sau	26	Suchismita Pradhan		
3	Biswajit Mandal	15	Raja Kumar Shee	27	Sudeshna Maity		
4	Buddhadev Jana	16	Saikat Jana	28	Susmita Sahoo		
5	Debabrata Patra	17	Sachayan Laha	29	Tapasi Karan		
6	Debayyoti Maity	18	Shrabani Jana	30	Sahib Bera		
7	Ditangshu Barman	19	Shyamal Bera	31	Soumya Kanti Mandal		
8	Goutam Jana	20	Snehasish Bhowmik	32	Sayan Das		
9	Krishendu Pradhan	21	Snigdha Mandal	33	Sumana Maity		
10	Moumita Sardar	22	Shreya Jana	34	Bidisha Sasmal		
11	Poushali Tripathy	23	Subhadip Mandal				
12	Pradyot Dalapati	24	Subhamay Das				

22/01/2022					21.04.2022					7				
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2 Guinaprotin John	0.0000000	N'ISPM	1:15pm	C-2	Parthaproductor		Diswayit rindal	rud 24W	21.04.2022	(	12	Pinto		
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6. Sulla Stura	11	9.726M	4.15 PM	C-8	Saught Day	4	Debatiloti mente	211d Dem	21.04.2021	Com(mun) 50	1:171	215	D. maily	
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B. Uttain len	11	3:15 PM	4.15PM	6-10	Bermaraspath	6.	Calil During	and c	DI. 04'2020	Com (Math) 12	1.15 Pm	2-15 10	S. Berg	
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10. Sougata Bera	Station -	D.ISPM	4:15 PM	C-33	Supriga Bissi	8	Subinon Partro	2710.500	21.04.2022	Com (Math	1.158	2-15Pm	G.Jame	
11. Sutha Bradham	la	3.12.1	4;1517	C-32	sougation.	7.	Gowtam Jang	2na sem	DI 44, 22	and light	1.15	2.13	- S.Jan	
12 Horzknishne Maity		SIS PM	9.15 p.m	C-32	40mm.	10	Juya Jana	Zha sem	01 01.11	Cond Mat	1115	2.15	5 per love	
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14. Macmita Tuaga	4	3.15 pm	9.15 Pm	6-30	Surga Schha co	176	Suppieroita Parta	ma and ser	m 21.04.22	Rom (Mathit	1:15	2:12	5 Andre	
13. Ananya Pattanayan	4	2.15 Pm	4.15pm		Malonita Tuga	14	P. 1: D. III 14	in and som	01.04.22	Com (Math)	19 1:15	2:15	P.A.A	
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12: Swarmendu Pradhan	и	2.16 DM	4.13 Pm	C-26	Jwameka Vrijetlu	16.	Poushali Tric	nthy 11	NE N.	max and	work 1	1004	alas -	
18. Kuhlie Mandal.	,	3.15 PM	4.15 PM	C-23	Ecoshan	17	Suppila Sa	400	4 4	4.	format	3.4	and the second	
19. Sayani Sinha	b	3.15 DM	4.15 24	C-22	Kuheli Handel	18	sudeshno	Maity	7, 1	1	Louis #	4	1.2	
20. Susmita Pahari	И	3:15 hu	I're ynj	C-21	Sayan Sinha	19	Snigdha	Mondal	4 4	Contro	+1 v 29)		marte	
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### Communicative Skill

## Student Drama by UG sem 3 students of Mathematics held on 17/09/2019 to observe teachers day celebration, 2019

Face book Link: <u>https://fb.watch/jyxE_IJrMo/</u>

https://www.facebook.com/watch/?v=613925322471111





01/02/2023 Data:_/___ F2. Ampila Bera. 73. Sconnall Mondal. 74 Seelama Khamrai 15. Ipsita Mishea. Jayashaid Portra Maumita Mandal. 76. Ff. Ashalata Giri -18-Mitre Santra Pratima Mondal 39% 28, Rebati Berra Mority 81. Susmile Maity 82. 831 Dolan Roy 84. Kabené Bena 85. Marroni Maily 86. Parbalé headnan 27. Anevesha Makun-Sumpodip Barrix ag. a. Shubhashnee Bishal. 23. 6,6 Billika Khatua 917 Shinshendu Mondal · chind Co 1/02/23 Zostiron 01.02.23 .-Mugherta Gongadhar Mahavidyalaya Malansh idan Lating Manaphi




## **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.mugberiagangadharmahavidyalaya.org

Ref. No.—M.G.M. / / / From—The Principal / Secretary, Date.....

# Report on Life Skill Programme

# "Workshop on Design Thinking, Critical Thinking & Innovation Design"

## Dated: 31.03.2023

Organized by

Department of Mathematics in association with Institution's

Innovation Council of Mugberia Gangadhar Mahavidyalaya

Vanue:- SN Boos Hall

## Mugberia Gangadhar Mahavidyalaya

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## HAR MAHAVIDYALAYA

Date 25.03.2023

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.mugberiagangadharmahavidyalaya.ac.in

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Dear Sir /Madam/student,

It is a great pleasure to inform you that Mathematics Department in association with Institution's Innovation Council (IIC) of the college is going to organize a Workshop on Design Thinking, Critical thinking and Innovation Design under DBT start college strengthening scheme for the academic session 2022-23 on 31st March, 2023 in S. N. Bose Seminar Hall of the college at 1.15 pm onwards for encouraging the young students to be creative and innovative. So on this occasion, we heartily invite all the faculty members and students of this college to actively participate in the said programme.

We shall deem it a great favour done to our institution if your kind self-comply with this request.

Thanking you With best wishes

Simon Dr. Swapan Kumar Misra Principal Mugberia Gangadhar Mahavidyalaya

Principal Mugberia Gangadhar Mahavidyalaya



Day : 31.03.2023 (Friday) 01:15 am to 04:15pm					
Time	Speaker	Topic Pla	ace		
01:15pm – 01:30 pm	Dr. Swapan Kumar Misra, Principal, MugberiaGangadharMahavidyalaya	Inaugural Speech	SN Boos Hall		
01:30pm-01:45 pm	Dr. Kalipada Maity, Associate Professor, Head, Department of Mathematics	Well come Speech	SN Boss Hall		
01:45pm-02:00pm	Dr.Bidhan Chandra Samanta, Associate Professor, Head, Department of Chemestry	About IIC	SN Boss Hall		
2:00 pm - 02:15 pm	Dr.Prasenjit				
2:15 pm - 04:15 pm	Dr. GoutamPanigrahi,National Institute of Technology Durgapur (Institute of National Importance Under Government of India)	Design Thinking, Critical Thinking & Innovation Design	SN Boss Hall		
Total present 66 Teacher's & Student's ( Teacher -9, Male students -30 and Female students -27)					





## "Workshop on Design Thinking,

## **Oritical Thinking & Innovation**

Design"





List of Present Students Signature



#### MUGBERIA GANGADHAR MAHAVIDYALAYA

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.mugberiagangadharmahavidyalaya.ac.in

#### Workshop on Design Thinking, Critical thinking and Innovation Design organized by the Bept. of Matternatics, with II C Under

## DBT start college strengthening scheme held on 31st March, 2023

Speaker : Dr. Goutam Panigrahi, Assistant Professor, Dept of Mathematics, NIT, Durgapur

SI. No.	Full Signature of Participant	Designation	Dept
1	Goutam Panigrahi	Assistant Professor	Mathematics, NIT
2.			
3.	Bodhan ch. Samanta	Asso.prof.cher	wstry, damigstry
4.	Kalipata really	Associate hof	Reattentig
5.	Santu Hati	Teacher	Mathematics
6	Suman Kuman Gizi	Stet	Mathematics.
II.	Manoranjan de	Asst Prof	Math, MgM
8.	Subham Maity	Contract Teach	Marta, MORM
9.	Spatam Kumar Daandel	Teacher	Math, man.
10.	Sonakshi Manna	Student	Math, MGM
11.	trapante Mondal.	Steident	Math (4thsom)
12.	Snigha Mandal.	Student	Math PGI (4th Sen)
13.	Sathi Guri	Stedent	Math UG (TST Sem)
14	Suchismita Pradhan	student	Math (4th sem)
15.	Shrabani Jana	Student	math ( 1 +4 sem)
16	Santa Bese.	student	math (2nd sem)
17.	Amon north Rana	Audent	month (2nd som)
18.	Shipma Jana	Student	Math (2nd Sem)
19.	Puja Sahoo	Student	Math (2nd sem)
2.0.	Ponshali Tripathy	Student	Math (D& 476)
21.	Tapazi Karan d	Student	Math (PG 9thsem)
22.	Sounga Kenti Mandal	scholent	Math (PG 4them)
23.	Purpondu San	Student	Mathi (Phi4them)

E 31/05/2027

SI. No.	Full Signature of Participant	Designation	Dept
04	dampar di Conchan	Student	Hoth (PG-46h Sem)
05.	Gaugantani Gilki	Student	Math (PG1-2002 som
201	Dil Misher	student	Math (PGe-2rd Ser
26.	The Runge Bul	Student	Math (UG1- 4ths
27.	Sandip Numarians	Stident	math (UG-4th Sont
28.	Shibam Majm	Chident	Moth (UUI-4thop
20.	Debarshu Roy	chudent	M-VOCIPOT HELSON
30.	Soura V panga	Student	Math (PG1-4 sem)
31.	Kaja Kumar Shee	chudent	Math (PG-Ath Sem)
32.	Sayan Das	Student.	Madh (PG- 2nd sem)
33.	Hemanjun Datta	Student	MAH (PG-1+4 SPM)
34.	Snehapish Bhowmik.	Student.	Math ( Pra-and Sem)
35.	Dipak Pania	Student	math (PG- 411 spr)
36.	Debajyoti Maity	Studen	Dall (Dia duce )
37.	Subinoy Patra	Student	Math (FM-TING)
38.	Saheb Bera	Student	Math (POT-4m Son
39.	Subhadip Mandal.	Student	than lon actuse
40.	Diptongsen Bornen	514.	March Albert
41.	Subrata Ghosh	student	MVDC 220 PC
42.	Songata Acharya	Studeni	The volucies sening
43.	Subhamay Jana	Student	M. VOC (2nasemto
44.	Dindrila Samanta	Student	1.
45.	Brigantia Das	14	',
46.	Naparupa Bar	4	**
47.	Supti Ojha	4	4
48.	Sumit patra	11	4
49.	Priasenjit Bod Pal	11	U
50.	Debabriata Pradhan	4	4
51.	Chinanjit Pal	14	"
52.	Sunja kanta Dan	h	1:
53.	Satti Lohas	Student	M.VOE (4Th bein po
54.	Madhumita kas	Student	M: VOC (4th Sem PG)
55.	SANJIB DAS	"	37
SG.	Swinj Das	>>	22
57.	Sayan Das.	~	4
58.	Rakpi Rani Grupia	22	M.VOC (4th sem
59.	Shibani Maily	**	"
60.	Rima Grinei	9)	92
61	Bipara Jana	))	22

Centrolay

<b>C1 - ·</b> ·	The Notice of Participant	Designation	Dept
SI. No.	Full Signature of Full Signature	Student	Mrvoc (9th Sem)
62	Tiyana Koy	Student	M. Voc (4th Som
63.	Sulekha Whats	student	N. VOC Cuthsem)
64.	Madhumant	Student	M. Voc (4+b Sen
65.	Pousbali Cheadhung	Studept	M. Voc (4th Ser
66.	Puja Bbudia		
-		91-1-	ng 4-
12151	Toacher 09	Male -	1071
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A Workshop and Lab Exposure at Digha Science Centre and Marine Aquariumwere held on 11-03-2022 under DBT Star College Strengthening Scheme to do hand on experiment for UG and PG students of Mathematics, Chemistry and Zoology Departments.Total 158 (male-95 and female-63) parents, 14 faculty members (male-11 and female-03). Mr. Biswajit Das, Education officer, Digha Science Centre shared his experience about various type science magic in front of us. Students are performed different kind of hand on experiment under his guidance. Our students also visit Marine Aquarium and finally they take the lunch.

Reports 2019-2022/@Department of Mathematics Mucherol General har Mathematics

Workshop and Lab Exposure at Digha Science Centre and Marine Aquarium (11-03-2022)

As a result, the students are motivated by observing the science magic. They requested our department to organize that type of program in every year.

Reports 2019-2022@Department of Mathematics Musheria Ganzadhat Maharidualava

## Industrial Visit to Haldia Energy Limited, Haldia, Purba Medinipur (15-06-2022)





Revisiting Mathematics: Past, Present & Future on 8th March 2018



Dept. of Mathematics (UG & PG)

# Revisiting Mathematics: Past, Present & Future on 8th March 2018





Research scope in Mathematics : Past, Present & Future on 26th March 2018



Dept. of Mathematics (UG & PG)

## Ramanujan Memorial Lecture-3 Role of Mathematics in the Development of Society, 11 Feb,2020



Ramanujan Memorial Lecture-3 Role of Mathematics in the Development of Society, 11 Feb,2020





# Students' Week Observation

Organized by

#### **NSS Units**

## Mugberia Gangadhar Mahavidyalaya

Bhuapatinagar, Purba medinipur, 721425, West Bengal, India

Date:2nd January 2023 to 9th January 2023

Details of Poster Presentation:

	Students' Name	Sem	Roll No	Title of the Poster	Prize
G -A	Sonakshi Manna	UG-III	1542	Water	
	Samapti Jana U	UG-III	1530	Conservation	
	Basanti Mondal	UG-III	1508		
G-B Sa Sa Rt	Sandip Kumar Paul	UG-III	1533	e-Waste Management	1 st
	<u>Sandipan</u> Kala	UG-III	1535		
	Rudra Prakash Das	UG-III	1528		
G-C	Poulami Bera	UG-I	1626	Water	
6	Sriparna Mondal	UG-I	1652	conservation	









## **Report of Field Visit during 2019-2023**

Field Work (Compulsory) (5Marks)

Application for Optimization problems in real-life problem by visiting any Industry

/University/Reputed Institution to understand the practical use of the optimization and making Lab Note Book on the experience gathered during the visit.

**The Department of Mathematics** arranged various type of Industrial Visit, Science Centre visit and Lab Visit ant different places of India. As per PG syllabus Paper MTM-495B It is mandatory for all students. Also many UG students participated in the said programmes as per guideline of DBT Scheme, Govt. of India.

The list of Field Visits is given below:

SL No	Industry Name	Organizing Department	Total no. of participating Teachers	Total no of participating students	5	Date	Result
1	THE TATA POWER COMPANY LIM TATA power, Jojobera, Jamshedpur	Dept. of Mathematics (UG & PG)	Teacher: 03	19 M: 10 F: 09	PG - IV	18.06.2019	Please see Annexur e TA
2	VIZAG, Vishakhapattanam	Dept. of Mathematics (UG & PG)	Teacher: 03	27 M:13 F:14	PG-IV	29.02.2020 - 04.03.2020	Please see Annexur e VA
3	Digha Science Centre & National Science Camp	Dept. of Chemistry, Mathematics, Zoology	Teacher: 15	Chem. 12 09 08 Math. 15 20 19 09 30 Zoology 20 07 11	UG-II UG-IV UG-VI UG-IV UG-VI PG-II PG-IV UG-IV UG-IV UG-VI	11.03.2022	Please see Annexur e DS
4	Haldia Energy Pvt. Ltd.	Dept. Of Mathematics, Chemistry, Zoology	Teacher: 07	Math : 38 Chem:08 Zoology: 02	PG-IV UG-VI UG-IV	15.06.2022	Please see Annexur

## **Annexure TA**

## "THE TATA POWER COMPANY LIMITED" (TATA power, Jojobera, Jamshedpur)

on

18th June, 2019 (from 10:30am – 1.00 pm)



Organized by PG 4th semester students

of

**Department of Mathematics (UG & PG)** 

MugberiaGangadharMahavidyalaya

ACCREDITED BY NAAC WITH GRADE B+

Affiliated

То

Vidyasagar University Bhupatinagar, Purba Medinipur – 721425



#### Mugberia Gangadhar Mahavidyalaya

ESTD.-1964 NAAC Re- Accredited B Level Govt. aided College CPE (Under UGC XII Plan) & NCTE Approved Institutions

Ref. No. : -MGM./ Tota 100 - 20

Date:- 14-06-2019

From : The Principal/Secretary,

то

The Head –Business HR

The Tata Power Company Limited

Tata Power , Jojobera, Jamshedpur

Sir,

I take this opportunity to inform you that the Mathematics (PG 4th sem) Department of the college is going to organize a Field visit at Tata Power Company Limited, Jamshedpur under the leadership of Dr. Kalipada Maity ,Head of the Department of Mathematics with a batch of 19 students (Male -11,Female-08) including two Lecturers and one scholar on 18.06.2019. This tour has been organized for the purpose of procuring knowledge about Industry.

Mr. Sushil kanti das, employee of Tata Power Company Limited who is the relative of Riya Pal (Student of PG 4th sem of the college) gave recommendation to our whole team of Field visit.

I shall deem it a great favour if the authorities extend all co-operation to the team as and when required.

DR.SWAPAN KUMAR MISRA

Principal

Principal Mugberia Gangadhar Mahavidyalaya

P.O: BHUPATINAGAR, DIST-PURBA MEDINIPUR



Ref. No. : -MGM./ / /

Date:-

From : The Principal/Secretary,

SI. No.	Name	D.O.B	I.D no	Gender
1	Dr.Kalipada Maity	12.11.1978	Assistant Prof.& H.O.D	M
2	Mr. Bikash Panda	11.03.1993	Assist. Prof. (Contractual)	M
3	Mr. Santu Hati	11.11.1992	Research Scholar	M
4	Anushree Sinha	28.02.1996	Student-Roll: 06	F
5	Archana Adak	01.12.1995	Student Roll:12	F
6	Goutam Das	19.05.1994	Student Roll: 13	M
7	Krishna Paria	01.01.1996	Student Roll: 09	E
8	Manotosh Panda	22.03.1994	Student Roll: 11	M
9	Nandini Maity	12.01.1997	Student Roll: 16	F
10	Nandiata Lal	12.01.1996	Student Roll: 03	Г
11	Nilmadhab Mandal	19.08.1991	Student Roll: 19	M
12	Nirmal Das	05.07.1993	Student Roll: 17	M
13	Prathama Samanta	15.04.1996	Student Roll: 04	E
14	Rabindranath Bhoj	16.06.1996	Student Roll: 02	M
15	Riya Pal	05.07.1992	Student Roll: 10	F
16	Sanchita Bag	23.10.1994	Student Roll: 08	E
7	Soumen Jana	29.07.1997	Student Roll: 21	Г
8	Sudipta Dinda	15.04.1996	Student Roll: 20	M
9	Sudipta Maity	13.04.1993	Student Roll: 15	M
:0	Sukhendu Das Adhikary	15.07 1996	Student Roll: 5	M
1	Suman Sasmal	11.04 1997	Student Roll: 14	M
2	Tarapada Maji	03.05.1995	Student Roll: 18	M

### List of Professors and Students, Dept. of Mathematics

Southers Principy1-05-19 Mugberia Gangadhar Mahavidyalaya





Mugberia Gangadhar Mahavidyalaya

ESTD.-1964 NAAC Re- Accredited B Level Govt. aided College CPE (Under UGC XII Plan) & NCTE Approved Institutions

Ref. No. : -MGM./ / /

.

Date:-

From : The Principal/Secretary,

SI. No.	Name	D.O.B	I.D no	Gender
1	Dr.Kalipada Maity	12.11.1978	Assistant Prof & HOD	M
2	Mr. Bikash Panda	11.03.1993	Assist Prof (Contractual)	M
3	Mr. Santu Hati	11.11.1992	Research Scholar	M
4	Anushree Sinha	28.02.1996	Student-Roll: 06	E
5	Archana Adak	01.12.1995	Student Roll 12	F
6	Goutam Das	19.05.1994	Student Boll: 13	M
7	Krishna Paria	01.01.1996	Student Roll: 09	E
8	Manotosh Panda	22.03.1994	Student Roll: 11	Г
9	Nandini Maity	12.01.1997	Student Roll: 16	E
10	Nandiata Lal	12.01.1996	Student Roll: 03	Г
11	Nilmadhab Mandal	19.08.1991	Student Roll: 19	F
12	Nirmal Das	05.07.1993	Student Roll: 17	M
13	Prathama Samanta	15.04.1996	Student Roll: 04	M E
14	Rabindranath Bhoj	16.06 1996	Student Roll: 02	F
15	Riya Pal	05.07.1992	Student Roll: 10	F
16	Sanchita Bag	23.10.1994	Student Roll: 09	F
17	Soumen Jana	29 07 1997	Student Roll: 21	F
18	Sudipta Dinda	15.04.1996	Student Roll: 20	M
19	Sudipta Maity	13 04 1993	Student Roll: 15	M
20	Sukhendu Das Adhikary	15 07 1996	Student Poll: 5	M
21	Suman Sasmal	11 04 1997	Student Roll: 14	M
22	Tarapada Maji	03.05.1995	Student Roll: 18	M

#### List of Professors and Students, Dept. of Mathematics

Solar Principy 06.19 Mugberia Gangadhar Mahavidyalaya

P.O: BHUPATINAGAR, DIST-PURBA MEDINIPUR



PG 4th semester students of Department of Mathematics (UG & PG), Mugberia Gangadhar Mahavidyalaya, was going to organize a field visit at TATA Power company Limited, Jamshedpur under the leadership of Dr. Kalipada Maity, HOD, Department of Mathematics (UG & PG) with a batch of 19 students (Male – 11 and female - 08) including two Lecturers and one research scholar on 18-06-2019. Mr. Sushil Kanti Das, employee of TATA Power company Limited, Jamshedpur, who is the relative of Riya Pal (student of PG 4th semester of the college) gave recommendation to our whole team of field visit.

This visit had been organized for the purpose of production knowledge and experience about the industry.

## **Annexure VA**

### VIZAG, Vishakhapattanam

on

29 Feb 2020 to 04 Mar 2020



Organized by PG 4th semester students of Department of Mathematics (UG & PG) MugberiaGangadharMahavidyalaya

#### ACCREDITED BY NAAC WITH GRADE B+ Affiliated

То

## Vidyasagar University Bhupatinagar, Purba Medinipur – 721425

## List of Professor and Students in Dept. of Mathematics

SI. No	Name	Dessignation
1		Associate Professor & HOD, Dept. of
	Dr. Kalipada Maity	Mathematics
2	Dr. Manoranjan De	Assistant Professor, Dept. of Mathematics
3	Mr. Santu Hati	Teacher of Dept. of Mathematics
	S	tudents
3	SUBHASRI JANA	PG 4 th semester student
4	AMIT RANA	PG 4 th semester student
5	RAMKRISHNA BAR	PG 4 th semester student
6	ANINDITA JANA	PG 4 th semester student
7	BRAJAGOPAL GHORAI	PG 4 th semester student
8	MINAKSHI SARANGI	PG 4 th semester student
9	MOUMITA GIRI	PG 4 th semester student
10	RABINDRANATH MAJI	PG 4 th semester student
11	SASWATI MAHAPATRA	PG 4 th semester student
12	SUBHASISH DAS	PG 4 th semester student
13	SK SAIDULLA UDDIN	PG 4 th semester student
14	SUNAYANI MONDAL	PG 4 th semester student
15	SOMA BERA	PG 4 th semester student
16	NANDITA PRADHAN	PG 4 th semester student
17	SANCHITA MAITY	PG 4 th semester student
18	SOUMAVA DAS	PG 4 th semester student
19	ANUSRI MAITY	PG 4 th semester student
20	ARUMITA MAITY	PG 4 th semester student
21	MAMATA BIRING	PG 4 th semester student
22	SUDIP MISHRA	PG 4 th semester student
23	BIPUL MAITY	PG 4 th semester student

24	SUBHAJIT GIRI	PG 4 th semester student
25	SANDIP DAS	PG 4 th semester student
26	SUDIP MANNA	PG 4 th semester student
27	MOUSUMI MAITY	PG 4 th semester student
28	SHILPA DAS	PG 4 th semester student
29	RINTU KAR	PG 4 th semester student

#### > What is Field Visit?

A field visit is a visit to an area outside of the normal classroom where students can try new things, have different experiences, and learn valuable life lessons. A field trip can be to countless locations where students can see new sights and have hands-on opportunities in a wide variety of experiences. Field trips are a popular method carried out for students to introduce to the concepts, experiences, and ideas that cannot be given in a classroom environment.

### > Types of Field Visits :

The term "field visit" has been known for decades in many sectors and it is a common term used in worldwide schools, colleges and educational institutions. It seems that a field visit is a favourite part of both teachers and students who are keen on learning and discovering. Efficient field trips can spark students' imaginations and refresh their minds. The types of field visits are given by below:

• Sightseeing Field Visit,

- Language and Culture Educational Field Visit,
- Gardening and Farming Field Visit,
- Manufacturing Facility Field Visit,
- Eco-adventure Field Visit,
- Business Educational Field Visit,
- Science Museum Visit,

• Historical Re-enactment Visit, etc.

## > Benefits of Field Visits:

Educational Field Visits plays a vital role in the school or college curriculum, which serves a wide range of benefits in several ways including learning and teaching. Field Visits are important to help bridge the gap between education and hands-on experience. Here are a few important words about the benefits of Field Visits:

- Field visits help students to learn through authentic experience and can be an interesting way to explore new things for both the learners and teachers. This is the reason why students should encourage to engage in field trips which are significant for students.
- Students have ample opportunity to witness new things, learn about new environments at their own pace and immerse themselves in an authentic experience, without having to the anxiety of homework, exams or tests.

- Most educational field visits pay much attention to outdoor activities with a wide range of aspects in life. It means the trips allow the teacher to connect the classroom with real-life and authentic experience. Therefore, it is considered a fantastic way to improve their lessons and catch up with innovative teaching which is more practical and meaningful.
- Most importantly, the teacher is a guide to inspire and stimulate students to understand the world that exists beyond the school or curriculums. To be more precise, students will be encouraged to learn not only knowledge but also soft skills, life skills, communication skills and more.
- Other benefits of educational are that they give teachers the chance to meet up experienced and minded teachers. This is a chance for them to exchange and share the experience as well as teaching methods

#### > Brief Note on Field Visits for Math Students:

Most studies dealing with mathematical education deal with the difficulties encountered by students in learning mathematics. One of the main reasons for these difficulties is the gap between the level of instruction and the student's capabilities and Understanding of mathematical concepts. In addition the unique characteristics of Mathematics as abstract and hard to understand cause of difficulties and obstacles to the students. Therefore it is recommended that field visits about various mathematical concepts and ideas can be organized so that the students will have an active imaginative minds while acquiring mathematical knowledge. In this manner , the students will have a more significant and better understanding of Mathematical Concepts.

### > Introduction:

We, a group of 29 PG Math Students of 4th Semester along with Three Respected Professors including Departmental HOD, were visited Vizag, Visakhapatnam from 1st March to 3rd March, 2020. We arrived at about 10'o clock morning and I have a little bit excitement for visiting Vizag to fulfillment our field visit gathering information related to Mathematics.

Visakhapatnam is one of the best site for industrial tour, Visakhapatnam as a industrial site caters the need of almost all streams. The city is home to several state-owned heavy industries and a steel plant; it is one of India's largest seaports and has the country's oldest shipyard. The main industrial attractions of Visakhapatnam are Hindustan shipyard. Visakhapatnam Port, NTPC, HPCL, Visakhapatnam Steel Plant, etc. Visakhapatnam houses various medium to large industries dealing in petroleum, chemicals, steel, cement, textile, IT and many more. The major players in Visakhapatnam are Hindustan Zinc, GAIL, IOC Bottling Unit, BPCL Bottling Unit, Synergies Castings, Rain Calcining Limited, Coromandel Fertilizers, Bharat Heavy Plate and Vessels Limited (BHPV), Visakha Dairy, Vizag Profiles, Essar Pellet Plant, Andhra Polymers (now LG Polymers), Andhra Cement, Andhra Petrochemicals, Andhra Ferroalloys, Pilkington, Pioneer Elastic Fiber, Ocean India, Quantum Clothing, WS Industries, Pokarna Limited, Uniparts, Confidence Petroleum, Southern Online Bio, Nagarjuna AgriChem, Anjaney Alloys, Maithon Alloys and Abhijit Ferro Alloys, IBM, Mahindra Satyam, Kenexa, Infotech, Softsol etc.

### > INS Kurusura Submarine Museum:

The Submarine Museum is the first submarine tuned to a museum in the whole of Asia and second in the World. INS Kurusura Submarine is a Soviet built I-641 class Submarine inducted into the Indian Navy on 18,
December 1969 and the same was decommissioned on 28, February 2001 after 31 years of glorious service to the nation. The Submarine was brought from the sea to the sands of the Ramakrishna Beach and positioned on concrete foundation to set up as a museum. It has been established with the aim to create awareness among the public to know how the submarines work during wartime and for showcasing the life inside the submarine. With a length of 91.3 meters and breadth of 8 meters, the INS Kurusura submarine played a vital role in a number of wars including the 1971 Indo-Pak war. Various parts of the submarine like the radar room, sonar room, control room, and the weapons used during war are in display in this museum. The total investment upon this project was Rs. 5.5 Crores. This museum was opened to public on is 14/8/2002. This well-maintained museum a great mode of entertainment as well as knowledge and motivates youth to be a part of the elite group of Indian Navy.



In Submarine Museum

# **Annexure DS**

**Digha Science Centre and Marine Aquarium** 

on 11 March 2022



Organized by PG 4th semester students

of

**Department of Mathematics (UG & PG)** 

**MugberiaGangadharMahavidyalaya** 

ACCREDITED BY NAAC WITH GRADE B+

Affiliated

То

Vidyasagar University Bhupatinagar, Purba Medinipur – 721425



# MUGBERIA GANGADHAR MAHAVIDYALAYA

ESTD.-1964 P. O.-BHUPATINAGAR O Dist.-PURBA MEDINIPUR S. T. D. Code-03220 😨 Ph. No.-270236, Pin.-721425 (W.B.)

Rof. No. - M. G. M. / / / From : The Principal | Secretary,

Dated .....

Date: 10-03-2022

To The Director, Digha Science Center, Digha, Purba Medinipur

SUB: SCIENCE CENTER VISIT

Respected Sir,

The following students and teachers (Total number- 175) of Mugberia Gangadhar Mahavidyalaya are going to visit at science center, Digha on 11-03-2022.

This is for your kind perusal and treat. S the matter officially.

With best wishes

Dr. Swapan Kumar Misra Principal Mugberia Gangadhar Mahavidyalaya

Principal Mugberia Gangadhar Mahavidyalaya



### **MUGBERIA GANGADHAR MAHAVIDYALAYA**

ESTD.-1964

P. O.—BHUPATINAGAR O Dist.—PURBA MEDINIPUR S. T. D. Code—03220 🐵 Ph. No.—270236, Pin.—721425 (W. B.)

Ref. No. - M. G. M. | | |

Dated .....

From : The Principal | Secretary,

### Visit to Science Center, Digha

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S.N	Name	Subject	Mobile No.	Pickup Point	Meal
1	Narottom Sutradhar	Chemistry	8436110071	Contai	Non-Veg
2	Mrigendu Mirda	Chemistry	8967631994	College	Non-Veg
3	Gautam Jana	Chemistry	9800184368		Non-Veg
4	Dr. Bidhan Chandra Samanta	Chemistry	8250095619		Non-Veg
5	Soumen Mondal	Chemistry	8768136569	Henria	Veg
6	Dr. Kalipada Maity	Mathematics	9434611354	Contai	Non-Veg
7	Dr. Monoranjan De	Mathematics	9382292498	College	Non-Veg
8	Suman Kumar Giri	Mathematics	9564067646	College	Non-Veg
9	Bikash Panda	Mathematics	8145309713	Contai	Non-Veg
10	Debraj Manna	Mathematics	8145389558	College	Non-Veg
11	Hiranmay Manna	Mathematics	7029364755	Henria	Non-Veg
12	Gautam Mondal	Mathematics	8250267524	College	Non-Veg
13	Santu Hati	Mathematics	9064214709	College	Non-Veg
14	Srabani Mahata	Zoology	8348584352	College	Non-Veg
15	Raiu Mazumder	Zoology	9883886650	College	Non-Ver

20103122

Principal Mugheria Gangadhar Mahavidyalaya

Chemistry UG 6 th Sem Zoology UG 2 nd Semester	
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Workshop and Lab Exposure at Digha Science Centre and Marine Aquarium (11-03-2022)

A Workshop and Lab Exposure at Digha Science Centre and Marine Aquarium were held on 11-03-2022 under DBT Star College Strengthening Scheme to do hand on experiment for UG and PG students of Mathematics, Chemistry and Zoology Departments. Total 158 (male-95 and female-63) parents, 14 faculty members (male-11 and female-03). Mr. Biswajit Das, Education officer, Digha Science Centre shared his experience about various type science magic in front of us. Students are performed different kind of hand on experiment under his guidance. Our students also visit Marine Aquarium and finally they take the lunch.



Annexure HA

# "Haldia Energy Pvt. Ltd" (Haldia, Purba Medinipur)

on 15th June, 2022



Organized by PG 4th semester students Department of Mathematics (UG & PG) MugberiaGangadharMahavidyalaya

ACCREDITED BY NAAC WITH GRADE B+

Affiliated

То

Vidyasagar University Bhupatinagar, Purba Medinipur – 721425

Visit to Haldia Energy Pvt. Ltd.

# **Students List**

List of PG-IV students 2022

SL.	Name	SL.	Name	SL.	Name
No		No		No	
1	SURYA SEKHAR GIRI	14	SUBHA GHORAI	27	BASUDEV MAITY
2	SUBHA PRADHAN	15	UTTAM SEN	28	ANAL MISHRA
3	SWARNENDU PRADHAN	16	SUPRIYA BISAI	29	SAIKAT GAYEN
4	SANJIB DEY	17	DEBASISH PAHARI	30	ARUP MONDAL
5	SUSMITA PAHARI	18	GOURI SANKAR MANDAL	31	SANGITA DAS
6	HAREKRISHNA MAITY	19	PARTHAPRATIM SAHOO	32	SOURAV BERA

of

7	TWAMEKA TRIPATHI	20	PRITAM NAYAK	33	SURAJIT BHANJA
8	GURUPADA JANA	21	SAYANI SINHA	34	PIU MAITY
9	ANUPAMA KHATUA	22	SUSMITA PAL	35	KUHELI MANDAL
10	ANANYA PATTANAYAK	23	SOUGATA BERA	36	UDITA SAHOO
11	MOUMITA TUNGA	24	SK TOWKIR ALAM	37	ARIJIT MAITY
12	SUBHENDU BHUNIA	25	SHANTIGOPAL JANA	38	SAYANTANI MAITI
13	BISWARANJAN MANNA	26	SRIKRISHNA NAYAK	39	ANASUA MAITI

### List of UG-VI students 2022

SI.No	Name	SI. No	Name	SI.No	Name
1	ANWESHA SAMANTA	9	PABITRA MONDAL	17	SASWATI GIRI
2	ΒΙΤΗΙ ΜΑΙΚΑΡ	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 UG-IV students 2022

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	JatindranathSamanta	13	Rajkumar Karan	21	Gaurangi Pal
6	SudiptaMondal	14	Soumitra Das	22	SubhadipMahapatra
7	Ranajit Mandal	15	BidishaSasmal	23	Amit Patra
8	AtanuMaity	16	Sonali Mandal	24	Swati Maikap
				25	Ayantika Mondal

# An educational visit to

# "Indian Institute of Science Education and Research Kolkata" (Mohanpur, Nodia, 741246) On

23rd Mar, 2023 (from 11:30am – 4:45 pm)



Organized by UG 4th & 6th semesters students

of

Dept. of Mathematics (UG & PG), Dept. of Chemestry & Dept. of Zoology

Mugberia Gangadhar Mahavidyalaya

ACCREDITED BY NAAC WITH GRADE B+ Affiliated

to

Vidyasagar University Bhupatinagar, Purba Medinipur – 721425



# **MUGBERIA GANGADHAR MAHAVIDYALAYA**

P.O.-BHUPATINAGAR, Dist.-PURBA MEDINIPUR, PIN.-721425, WEST BENGAL, INDIA NAAC Re-Accredited BHLevel Govt. aided College CPE (Under UGC XII Plan) & NCTE Approved Institutions DBT Star College Scheme Award Recipient

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

/2022-2023 Ref.no.-M.G.M./ 1

Dated:

From: The Principal

### The Name Of the Teacher to Visit to IISER Kolkata from Mugberia Gangadhar Mahavidyalaya,Department Of Chemistry,Zoology,Mathematics

		Mob No	Department
SINO	Name of the Teacher	0722752007	Chemistry
1	Dr.Bidhan Chandra Samanta	9732752907	Chemistry
2	Mr.Goutam Kumar Jana	9800184368	Mathematics
2	Dr Kalipada Maity	9883602108	Mathematics
	Dr. Monoranian De	9382292498	Mathematics
4	DI. Wohoranjan De	9564067646	Mathematics
5	Mr.Suman Kullar Oll	9732606478	Zoology
6	Dr. Kousik Kr. Mondai	9248584352	Zoology
7	Mr.Srabani Mahata	0340304332	1



Dr. Alakesh Bisai Professor Dept. of Chemical Sciences IISER-Kolkata Mohanpur-741246, W.B., India

Principal 22-03:23. Muqbena Gengaéhar Mahavioralara

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UG 4th& 6th semester students of Department of Mathematics (UG & PG), Mugberia Gangadhar Mahavidyalaya, was going to organize an educational visit at IISER Kolkata, Kalayani, Nadia West Bengal - 741246 under the leadership of Dr. Kalipada Maity, HOD, Department of Mathematics (UG & PG) with a batch of 25 students. Dr. Manaranjan De, Mr. Suman Giri, Mr Subham Maity to Prof Kripabandhu Ghosh Assistant professor of dept. of Computational and Data Science Science (CDS), IISER Kolkata.

This visit had been organized for the purpose project and research knowledge and experience about the higher education on Computational Data Science.

### Report

### On

Life Skill Orientation Program "Meditation and Mindfulness" The Department of Mathematics (UG & PG) Mugberia Gangadhar Mahavidyalaya



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.mugberiagangadharmahavidyalaya.ac.in

### Notice

Date-20.02.2023

This is to notify all the students that the Dept. of Mathematics, Mugberia Gangadhar Mahavidyalaya will organize a life skill orientation program "Meditation and Mindfulness" from 04th March 2023 to 28th March 2023 in the said department through offline mode. The interested students of the department are requested to be presented positively.

With best Wishes

2001m 20:02:2023 Dr. Swapan Kumar Misra

Principal Mugberia Gangadhar Mahavidyalaya



A life skill orientation program "Meditation and Mindfulness" is held from 04th March 2023 at 2.15p.m to 4.30p.m in Mathematics department. This program is inaugurated by Dr. Swapan Kumar Misra, Principal, Mugberia Gangadhar Mahavidyalaya. In this program Dr. Kalipada Maity , HOD Dept. of Mathematics said about "Meditation and Mindfulness". Dr. Manoranjan De, Mr. Bikash Panda Mr. Santu Hati, Mr. Goutam Kumar Mandal are present in this program.

Instractor:

- 1. Dr. Kalipada Maity, HOD, Associate Prof., Dept. of Mathematics
- 2. Dr. Manoranjan De, Assistant Prof., Dept. of Mathematics
- 3. Mr. Suman Kumar Giri, SACT Teacher, Dept. of Mathematics.
- 4. Mr. Debraj Manna, SACT Teacher, Dept. of Mathematics.
- 5. Mr. Hironmoyee Manna, SACT Teacher, Dept. of Mathematics.
- 6. Mr. Bikash Panda, SACT Teacher, Dept. of Mathematics.
- 7. Mr. Santu Hati, Contractual Teacher, Dept. of Mathematics.
- 8. Mr. Goutam Kumar Mandal, Contractual Teacher, Dept. of Mathematics.
- 9. Mr. Subham Maity, Contractual Teacher, Dept. of Mathematics.

**Teaching Assistants:** 

Santu Hati, Contractual Teacher, Dept. of Mathematics.

### Course Description:

This course provides an overview on the relation of mindfulness (the ability to attend in a nonjudgmental way to one's own physical and mental processes during ordinary, everyday tasks) with various health outcomes and disease risk factors such as diet, obesity, physical activity, sleep, depression, and anxiety. Mechanisms by which mindfulness may influence health will be addressed. The course will assess studies in the field for methodological rigor, and students will be taught strengths and weaknesses of current research. Mixed teaching methods will be used, such as small

and large group discussions, informal student presentations, and lectures. Students will be taught various mindfulness practices including direct experience with mindfulness meditation.

Mindfulness and meditation interventions have become more mainstream in behavioral medicine and psychiatry, with the advent of therapies such as Acceptance and Commitment Therapy (ACT), Dialectic Behavior Therapy (DBT), Mindfulness-Based Stress Reduction (MBSR), Mindfulness-Based Cognitive Therapy (MBCT), Mindfulness Training for Smoking (MTS), Mindfulness-Based Eating Awareness Training (MB-EAT), amongst others. Mindfulness-based interventions have been building evidence to potentially, in part, alleviate many of the critical health outcomes that public health is focused on, such as depression, anxiety, and cardiovascular disease. However, moving forward, it is important to provide students with a methodologically rigorous, critical evaluation of the evidence to date, plausible mechanisms, and interventions with the strongest evidence base to be effective.

Course Goals & Targets:

- 1. Strengthening the mental power:
  - Students will easily understand the power of mind and its various functions theoretically and practically.
  - Students will gradually practice the systematic method for enrichment of the mind power.
  - Students will be the source of the hope and inspiration in their community /organization/industrial environment.
- 2. Intellectual Enrichment:
  - Students will learn to think critically and gather knowledge from different field of study.
  - Students will be exposed to several well-established models that have been developed for the purpose of understanding human personality development, including cognitive, behavioral, biological, social-cultural, and spiritual perspectives.

The Power of Concentration:

The main difference between men and the animals is the difference in their power of concentration. All success in any line of work is the result of this. Everybody knows something about concentration. We see its results every day. High achievements in art, music, etc. are the results of concentration. An animal has very little power of concentration. Those who have trained animals find much difficulty in the fact that the animal is constantly forgetting what is told him. He can not concentrate his mind long upon anything at a time. Herein is the difference between man and the animals-man has the greater power of concentration. The difference in their power of constitutes the difference between man and man. Compare the lowest with the highest man. The difference is in the degree concentration. This is the only difference.

Everybody's mind becomes concentrated at times. We all concentrate upon those things we love, and we love those things upon which we concentrate our minds. What mother is there that does not love the face of her homeliest child? That face is to her the most beautiful in the world. She loves it because she concentrates her mind upon it; and if everyone could concentrate his mind on that same face, everyone would love it. It would be to all the most beautiful face. We all concentrate our minds upon those things we love.

The great trouble with such concentrations is that we do not control the mind; it controls us. Something outside of ourselves, as it were, draws the mind into it and holds it as long as it chooses. We hear melodious tones or see a beautiful painting, and the mind is held fast; we cannot take it away.

If I speak to you well upon a subject you to like, your mind becomes concentrated upon what I am saying. I draw your mind away from yourself and hold it upon the subject in spite of yourself. Thus our attention is held, our minds are concentrated upon various things, in spite of ourselves. We cannot help it.

Now the question is: Can this concentration be developed, and can we become masters of it? The Yogis say, yes. The Yogis say that we can get perfect control of the mind. On the ethical side there is danger in the development of the power of concentration-the danger of concentrating the mind upon an object and then being unable to detach at will. This state causes great suffering. Almost all of our suffering is caused by our not having the power of detachment. So along with the development of concentration we must develop the power of detachment. We must learn not only to attach the mind to one thing exclusively, but also to detach it at a moment's notice and place it on something else. These two should be developed together to make it safe.

This is systematic development of the mind. To me the very essence of education is concentration of mind, not the collecting facts. If I had to do my education over again and had any voice in the matter, I would not study facts at all. I would develop the power of concentration and detachment, and then with a perfect instrument I could collect facts at will. Side by side, in the child, should be developed the power of concentration and detachment.

### SUGGESTED DAILY ROUITINE

SI. No	Items	Time
1	Getting Up	
2	Bed Folding, Washing, etc.	
3	Meditation	
4	Prayer and Chanting	
5	Exercise and Yogasana	
6	Breakfast	
7	Room cleaning, Washing, Bath, etc.	
8	Morning Study Hours	
9	Lunch	
10	College Hour	
11	Games and Sports	
12	Tiffin	

13	Evening Study Hours	
14	Dinner	
15	Sleep	

List of presented students is given below

Life Skill Orienatation Program 04/03/2023 Inaugurated by Br. & Swampan Kumar Misra, Principal, Mugberia Gangadhor. Mahavidyalaya. Signature of Present Members. 1. Hob, Delot. of Math 14. 2. (Chaity, 04/03/2023 Santu Hoti 09/03/2023 3. 4. (Joutam Kr Mandel. PGI (4th Sem) S. Sudestina Maity PG (4th sem) 6. Sumana Maitza PGI (4th Sem) F. Snigha Mandal PGI (4th Sem) 8. Puit Das dhikari 9. Shrabani Jana PG(9th sem) Por (4th sem) 10. Suchismita Pradhan PG (4th sem 11. Sneya Jana PGI (Ath Sem) 12. Tapasi Karan por (Ath Sem) 13. Subinoy patra Der (qtusen) 14. Diptangen Barnon 15. Preadyof Dalapati PG+ (4th Sem). 16. Elsen Jahou PGI (Atty Sem) PGI (9th Sem) 17. Subhadip Mandal. PGL (4th Sem) 18. Buddhader Jana PG (1 th Sem) 19. Groutam Jana 20. Sozan Sahoo Ubr (4th sem) 21. Raja Kumarshee PG(4th sem) PG (4th gem) PG (4th Sem) 22. Debajjoti Maitz 23. Saheb Bera UGI(6AM SEM) 24. Sourgedeep Boj VG (6th Sem) 25. Sumajit maity Viz (6th sem) 26. Amisendra Meniti UG (6th som.) 27. Jatindranath sameurles UG (6th sem.) 28. Soumitra Das UG (Gth sem.) 29. Bachaspati Mondal UGI (6th Sem) 30. Sudeshna Maity - Silos/ 2023

Meditation and Mindfulness UG (6th sem). 31. Sonali Mandal UGI (6th sem.) 32. Megha RamiSahoo UG (6th sem) 33. Paraméta Maity UGI (6th sem) UGI (6th sem) 31. Bidisha Sasmal 35. Giourang: Pal 36. Amiya Momolal. P.G.(4th sem). UG (6th sem 37. Atana Maite 38, Ayon Bradhan 04 (6:14 sem) UG (6th sem) 39. Shubhoijit Gim 40. Shibam nejhi Uh (4th sen) UG (4th Sem) 41. Sandipan Hala. 42 Sandip Kumar Paul UGI (4th Sem) 43. Puspender Same P.C. (4 Sem) uh. Sourgakarti Moundal PCI (4 Sem) 45. Ripak Paria. PGI (1st Sem) 46. Chayan Kumir Jana PUI(1s' sem) 17. Manoranjan de, Asert Poot. Mathi 48 Bikash Parde SACT, math Tready of the PG (althe See AC. 2027 PG (1 th Scal al to the same Conse sugar os PG PATH Som Raja Klimer She Por / an are

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(3)	Jolindranath Savanta	UG1-6th	Jatindravalh Samante			
14.)	Bachaspali Mondal	UG1-6.4h	Bachagpati Mondal			
15	Tapasi Karan	P01-47h	Topani Karan			
167	Bushali Treipathy	PG-4-14	P. T.			
17	Sudeshow Moultyl	PG-4+h	S. Maity			
18>	Dayamtani Giri	PG-2nd	Sayandani Giri			
19>	sugmita Sahoo	Pa-4th	5.Sahoo			
20)	Paraméta Maity	UG-6th	P:Maity			
21)	Bidisha Sasmal	UG-6th	B. Sasmal			
22/2	Megha Reni Sothoo	UG1-6th	Megha R. Sahoo			
23)	Gourangi Pal.	UG-Gh	Gourangi Pal.			
24)	Sonal' Mandal	VG-6th	Sonali Mandal			
25)	Annesha Khatua	UGI-Gth	Annesha Khataa			
263	Sumana Maity	PG-4th	Sumana Maita			
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### Purba Midnapore, West Bengal, India

### **FAREWELL PARTY**





Mathematics Forum was organized Farewell Party "NEVER SAY GOODBYE" on 17th May 2022 in the S.N.Bose Seminar Hall of Mugberia Gangadhar Mahavidyalaya where students of M.Sc 2th sem & B.Sc 4th Sem & 2rd sem bid farewell to the outgoing students of M.Sc 4th sem & B.Sc 6th sem with great enthusiasm and off course nostalgia.

### Reports 2019-2022@Department of Mathematics, Mugberts Gangadhar Mahavidyslays.

At 11.00 a.m Function began with a floral welcome of Chief Guest Dr. Swapan Kumar Mishra, Principal Of Mugberia Gangadhar Mahavidyalaya, Dr.Bidhan Chandra Samanta Associate Professor &H.O.D Dept. of Chemistry & TCS, Dr.Prasenjit Ghosh Associate Professor &H.O.D Dept. of History, IQAC co-ordinator Dr.Swapan Sarkar Associate Professor &H.O.D Dept. of Bengali ,Dr.Sk. Wadut Assistant Professor & H.O.D Dept. of Physics by students.

Lamp Lighting Ceremony was done by Dr. Swapan Kumar Mishra, Dr.Bidhan Chandra Samanta, Dr.Prasenjit Ghosh, Dr.Swapan Sarkar, Dr.Sk. Wadut, Dr.Kalipada Maity, Dr. Manoranjan De, Prof. Suman Kumar Giri, Prof. Devraj Manna, Prof. Hironmoy Manna, Prof. Bikash Panda, Prof. Goutam Kumar Mandol, Prof. Santu Hati & All Students.



Then principal Dr. Swapan Kumar Mishra in his speech wished good luck to all outgoing students of M.Sc 4^a sem & B.Sc 6^a sem for their future and appreciated the efforts during their college period. He also expressed his hope that students will



PG 1st semester students of Department of Mathematics (UG & PG), Mugberia Gangadhar Mahavidyalaya, was going to organize a Poster Presentation of our Collage, under the leadership of Dr. Kalipada Maity, HOD, Department of Mathematics (UG & PG) with a batch of PG 1st semester Students. This Presentation had been organized for the purpose of knowledge and experience about the Skills. PPT Presentation on "Roll of Mathematics in modern technology and sustainable development" by Poushali Tripathi, PG-4th sem, Mathematics







### Report

### On

# MATLAB Practical Test for PG SEM I on 14.03.2023 Organized by The Department of Mathematics Mugberia Gangadhar Mahavidyalaya

### NOTICE



### MUGBERIA GANGADHAR MAHAVIDYALAYA ESTD.-1964 P. O.-BHUPATINAGAR O DIST.-PURBA MEDINIPUR

S. T. D. Code-03220 🐵 Ph. No.-270236, Pin.-721425 (W. B.)

Ref. No. - M. G. M. | | From : The Principal | Secretary, Dated 10 00 2023

### **Department of Mathematics**

Students are hereby informed that the Practical Examination on Paper MTM-197(MATLAB PRACTICAL) of 1ST Semester M.Sc in Mathematics will be held on 14th March 2023 as per following schedule. Students are directed to note the details as follows and attend the same positively.

Date of Examination: 14.03.2023 at 11.00 AM

Venue: Computer Lab, Dept of Mathematics

Internal Examiner: Subham Maity, Contractual Teacher

External Examiner : Dr. Shyamal Kumar Mandal, Professor, Dept of Applied Mathematics, Vidyasagar University.

Dr. Kalipada Maity

Head, Department of Mathematics Mugberia Gangadhar Mahavidyalaya

Dr. Swapan Kumar Misra 10-03-2023 Principal Mugberia Gangadhar Mahavidyahaya

Mugberia Gangadhar Mahavidyalaya

The examination on MATLAB Lab paper MTM-197 is held on 14th March 2023 at 11.00 a.m to 2.00 p.m in Mathematics department Lab. In this program all the students of PG 1st semester of Mathematics department are participate this examination. In this program Dr. Kalipada Maity , HOD Dept. of Mathematics said about hand on computation skill. Prof. Shyamal Kumar Mandal, professor of Dept. of Mathematics, Vidyasagar University presents in this program. Dr. Manoranjan De, Mr. Subham Maity, are present in this program.

List of presented students is given below


### The questions paper of this examination :



#### The answer script of this examination



3922 ofmoup-B 3) write a script in MATLAB to find the neal most of the equation finites by regular palsi method and using this find a new nort of 9> where a senipt in MATLAB to display time the equation sinnet 5x+100. a= mput ccenter the infine interval : [m]: b= imput ("): dimensional survefoce plot. a = imput (center the value of u?); while abs (b-a) >0,0001 fa= sin(2) + 5 * 0 + 1; Z= Peaks (a); +b = sin(b) + 5* b +1; xn = (a + tb - b + ta) / (tb - ta);sumf(Z); colonmap (hsv) 3 fin = 3 sin(xn) + 5+ in +1; if to * thm 20 カニメカ; else u=xn; End Appliet (co the most of the equation is & fly's x y; Input /output , enter the motival interna 0 Small 1 the most of the equation is -0.166795 0 =





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## Report of Five days workshop for capacity building of the students On "How do you present a power point as a student ?"

Course period: From 29th November– 3rd December, 2022



Organized by

### **Department of Mathematics (UG & PG)**

(In collaboration with DBT STAR College strengthening Scheme (Govt. of India))

## Mugberia Gangadhar Mahavidyalaya

**Bhupatinagar, Purba Medinipur- 721425** ACCREDITED BY NAAC WITH GRADE  $B^+$ 

Affiliated to

Vidyasagar University

Dated: 18/11/2022

#### Minutes of the Departmental meeting held on 18.11.2022

#### Members present:

(1) Dr. Kalipada Maity, HOD, Associate Prof. (Coordinator)

(2) Dr. Manoranjan De, Assistant Prof.

(3) Mr. Suman Giri, Sact.

(4) Mr. Debraj Manna, Sact.

(5) Mr. Bikash Panda, Sact.

(6) Mr. Hiranmoy Manna, Sact.

(7) Mr. Goutam Mandal, Contractual teacher(Joint Coordinator)

(8) Mr. Santu Hati, Contractual teacher.

A short meeting was arranged at 3:15 pm regarding the implementation of short term course on Hands on workshop on power point for educational professional in our Department. All teachers of the department joined the meeting in time. Dr. Kalipada Maity (HOD) chaired the meeting.

#### Decisions taken in the meeting are:

(1) It is decided that Mr. Goutam Mandal will be the joint coordinator of this program and Dr. Kalipada Maity (HOD) will be program coordinator and rest teachers of the department will be the recourses persons of the program.

(2) The course period will be scheduled from 29 November, 2022 to 3 December. 2022

(3) The participation students will be UG-5th sem, PG-1st sem and PG-3rd sem.

(3) Course content for the said program is scheduled as

- (i) Create a presentation including all the areas of the application.
- (ii) Slide Master.
- (iii) Work with text and image.
- (iv) Animate a presentation.
- (v) Narrate a presentation.
- (vi) Creating live polls, Quizzes and Q&A.

It is decided that the course will be delivered by lecture, interaction and ppt presentation along with a hands on practical. Available seat to register the program is 100. There is no course access fee for the student. Last date of registration for this program is 27th November 2022. Hod will forward the matter for approval of this program from Academic Sub-committee. Teachers are requested to prepare a routine for smooth running of course.

#### The meeting comes to end with a vote of thanks.



Mugberia Gangadhar Mahavidyalaya Department of Mathematics

### NOTICE

Dated: 21/11/2022

This is to hereby notify all the students that the dept. of Mathematics, Mugberia Gangadhar Mahavidyalaya is going to organize a workshop on "**Five days workshop for capacity building of the students ?**" from 29th November, 2022 to 3rd December 2022 in our department through offline mode. The program will be delivered by lecture, interaction and ppt presentation along with a hands on practical. Available seat to register the program is 90. There is no course access fee for the student. Last date of registration for this program is 27th November 2022. All the students of our college especially of our dept. are requested to be present in this course.



Date: 25.11.2022

#### **Departmental announcement**



Date: 29.11.2022

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A large number of lecturers was delivered by Dr. Swapan Kumar Misra(Principal), Dr. Kalipada Maity(Associate Professor, HOD & NAAC Coordinator, dept of Mathematics), Dr. Manoranjan De(Assistant Professor, dept of Mathematics), also by the other faculties of dept of Mathematics.

#### Presentation considerations and tips:

1. Be careful of over-designing. Busy Power Points slides may be distracting for most learners, and there is nothing worse than waiting for someone's heading to 'appear' on the screen!

2. If you include pictures and diagrams, make sure they are highly relevant to the material on the slide and assist learning.

3. If you have things you want to stand out do not use red and green as colour-blind students cannot tell the difference.

4. Beware that not all fonts are visible on a large screen (even if they are clearly visible to you).

5. Using different fonts can be good, but can also be an issue for some students, so if it is not necessary, it is wise use Arial or a font without a serif.

6. If you are including links to web pages such as YouTube, check them before the lecture.



29/11/22 11:47 AM GMT +05:30

29/11/22 11:46 AM GMT +05:30 ternatics (UG & PG)

Second day workshop for capacity building for the students, the students of PG-3rd semester makes their PPT by hands on workshop. Six group of students complete their project topic under the supervisor Mr. Goutam Mandal(Contractual Teacher, Dept of Mathematics).

SL NO	NAME	ROLL NO	PROJECT TOPIC	SUPERVISOR NAME
1	Sanchayan Laha Saikat Jana	2571 2570	Application of Probability	Santu Hati
2	Shrabani Jana Suchismita Pradhan	2574 2584	Fibonacci Sequence	Goutam Mandal
З	Sreya Jana Diptangshu Barman Priti Das Adhikari	2580 2559 2567	Application of matrices to encode and decode messages	Goutam Mandal
4	Tapasi Karan Poushali Tripathy	2591 2565	Roll of Mathematics in Modern Technology	Dr. Kalipada Maity
5	Pradyot Dalapati Krisnendu Pradhan Snehasish Bhoumik	2566 2562 2577	The Laplace Transform and it's real life application	Dr. Manoranjan De
6	Goutam Jana Susmita Sahoo Buddhadev Jana	2560 2590 2556	Graph theory and its application	Goutam Mandal



Date: 30.11.2022

Third day workshop for capacity building for the students, the students of PG-3rd semester makes their PPT by hands on workshop. Five group of students complete their project topic under the supervisor Mr. Goutam Mandal(Contractual Teacher, Dept of Mathematics).

SL NO	NAME	ROLL NO	PROJECT TOPIC	Supervisor Name
1	Debajyoti Maity	1558	Application of	Santu Hati
	Raja Kumar Shee	2569	Trigonometry	
	Puspendu Sau	2568		
2	Debabrata Patra	2557	Complex analysis	Goutam Mandal
	Biswajit Mandal	2555	in Fourier	
	Sumana Maity	2595	transformation	
			applications	
3	Subinoy Patra	2583	Fluid Mechanics	Goutam Mandal
	Saheb Bera	2592	and its application	
	Sudeshna Maity	2585		
4	Amiya Mandal	2551	Application of	Dr. Kalipada
	Subhadip Mandal	2581	Differential	Maity
	Soumya Kanti	2594	Equation in real	/
	Mandal		life	
5	Snigdha Mandal	2578	Application of	Dr. Kalipada
	Biren Pahari	2554	Numerical Metho	Maity
	Sayan Das	2593		,



Next day workshop for capacity building for the students, the students of UG-5th semester makes their PPT by hands on workshop. Seven group of students complete their project topic under the supervisor Mr. Goutam Mandal(Contractual Teacher, Dept of Mathematics).

	Dept of Mathema Mugberia Gangadh	atics (UG & PG), ar Mahavidyalay	a
	under DBT Start College	Scheme, Govt. of	fIndia
SI. No.	Title of the Project	Students	Supervisor Name
1.	FIBONACCI NUMBERS AND IT'S APPLICATION	Soumyadeep Bej, Jatindranath Samanta, Surajit Maity	Dr. Kalipada Maity, Associate Professor, HOD Departmen Of Mathematics
2.	LOGARITHMIC FUNCTION	Amiyendra Maiti Subhadip Mahapatra Bachaspati Mondal	Bikash Panda, SACT , Depertment Of Mathematics
з.	PYTHAGOREAN TRIPLE	Sudeshna Maity Sonali Mandal Gourangi Pal	Mr. Suman Girr, SACT Depertment Of Mathematics
4.	TWIN PRIMES, COUSIN PRIMES, BALANCED PRIMES	Atanu Maity Ayan Pradhan Subhajit Giri Zi	Mr. Goutam Kumar Mandal, Contractual Teacher ,Depertment Of Mathematics
5.	THE GOLDEN RATIO	Suman Das Sudipta Mondal Ranajit Mandal	Santu Hati, Contractual Teacher ,Depertment Of Mathematics
6.	ARMSTRONG NUMBERS	Rajkumar Karan Amit Patra Soumitra Das	Hironmoy Manna, SACT , Depertment Of Mathematics
7.	THE BLACK HOLE NUMBER	Megha Rani Sahoo Bidisha Sasmal Paramita Maity	Mr. Debraj Manna, SACT , Depertment Of Mathematics

### Workshop for Capacity Building of the Students(Day-3)



Next day workshop for capacity building for the students, the students of PG-1st semester makes their PPT by hands on workshop. Seven group of students complete their project topic under the supervisor Mr. Goutam Mandal(Contractual Teacher, Dept of Mathematics).

SL NO	NAME	ROLL NO	PROJECT TOPIC	SUPERVISOR NAME
1	Chayan Jana Hemarjun Datta Amarnath Rana	3305 3307 3301	Bifurcation Theorem	Dr. Manoranjan De
2	Shipra Jana Sayantani Giri Subhasree Bishal	3321 3320 3322	Ramanujan MockTheta Function	Goutam Mandal
3	Basudeb Maity Suryadip Barik Dipak Paria	3304 3329 3306	Differential Equation	Dr. Kalipada Maity
4	Lalita Patra Sampa Bhunia Ayantika Mandal	3308 3318 3303	Graph Theory	Dr. Manoranjan De
5	Puja Sahoo Nayanika Bhunia Soumitra Das	3316 3314 3326	Ramanujan Sum	Goutam Mandal
7	Manoj Maity Santu Bera Samik Das	3312 3319 3317	Prime Number	Santu Hati



Date: 03.12.2022

### Course period: 29.11.2022 to 03.12.2022 Registration

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Date: 03.12.2022

#### **Brief description of the course on Workshop**

PPT presentation is a part of Mathematics where we can determine the truth values of the given statements. Logical reasoning has a major role to play in our daily lives. It is the concept in Mathematics that deals with finding the truth values of any Mathematical statement.

Students who hold a Bachelor's degree in mathematics can turn to applied mathematics, statistics, physics or Astrophysics or engineering, if they wish to continue their studies. Such a program develops skills such as knowledge of arithmetic, algebra, trigonometry and strong deductive reasoning. After graduating a Master's degree in mathematics, students have the choice to be employed as operational researchers, statisticians, aerospace engineers, accountants, software testers or teachers.

During this type program students communicate with the faculty and other students via e-mail, electronic forums, videoconferencing, chat rooms, bulletin boards, instant messaging and other forms of computer-based interaction.

Considering the above facts and requests from students, the department of Mathematics, Mugberia Gangadhar Mahavidyalaya arranged successfully a program on "How do you present a power point as a student ?" from 23 November, 2022 to 3 December 2022 through offline mode. 29 students registered attended for this 5 days (20 hours) program. They completed the course successfully and The Department hopes that the program will be successful.

Information and communication technology (ICT) is a industries, allowing companies to use different tools to cor like sending emails and using programming languages business software. Having any level of competency in ICT s pursue a job that involves working with technology. Under

Dr. Kalipada Maity ciate Professor of Mathema Mugberia Gangadhar Mahavidyalayi

skills are and how to develop them can help you no matter what profession or career path you choose to explore.

Information and communication technologies (ICT) need little introduction in India, a country with over 800 million internet and smartphone users. These numbers are impressive but much like the situation across the world, the number of adequately skilled ICT professionals in India falls glaringly short of the number of open job roles available in the field.

ICT skills include those required for communication technologies such as cloud computing, robotic process automation, artificial intelligence, big data, and telecom technologies among others. A recent report by the Telecom Sector Skill Council found that India will require 22 million skilled individuals by 2025 as the country rapidly adopts these technologies. The factors driving this demand are India's 5G push, new telecom policies, and booming IT and startup ecosystem which is focusing not just on enterprise servicing but on products and solutions. Global data estimates that by 2023, ICT spending in India will reach \$144 billion.

As industries become more 5G-centric, ICT will cement its position as the mainstay of every sector in India and the world. ICT skills and human capital will therefore undoubtedly emerge as the most crucial resource for the survival and success of every organization.



#### MUGBERIA GANGADHAR MAHAVIDYALAYA

ESTD.-1964

P. O.—BHUPATINAGAR O Dist.—PURBA MEDINIPUR S. T. D. Code—03220 O Ph. No.—270236, Pin.—721425 (W. B.)

Ref. No. - M. G. M. | | From: The Principal | Secretary,

Dated 25/02/2023

Report

1

On Hand on Practice on Computation Skill through MATLAB Arranged by the Department of Mathematics (UG & PG) Mugberia Gangadhar Mahavidyalaya

25.02.2023

Signature of HOD

Department of Mathematics

Dr. Kalipada Maity Associate Professor of Mathematics Mugberia Gangadhar Mahavidyalaya

Principal 25-02-23

Mugberia Gangadhar Mahavidyalaya

Principal Mugberia Gangadhar Mahavidyalaya



# MUGBERIA GANGADHAR MAHAVIDYALAYA

ESTD.-1964

P. O.—BHUPATINAGAR O Dist.—PURBA MEDINIPUR S. T. D. Code—03220 O Ph. No.—270236, Pin.—721425 (W. B.)

Ref. No. - M. G. M. | | From: The Principal | Secretary.

#### Notice

1

Date-20.02.2023

Dated 25 02 2023

This is to hereby notify all the students that the Dept. of Mathematics, Mugberia Gangadhar Mahavidyalaya is going to organize a hand on practice on computation skill through MATLAB on 25th February, 2023 at 10.30a.m in our department through offline mode. All the teachers and the students of 3rd semester of the department are requested to be presented positively.

Signature of HOD Department of Mathematics

Dr. Kalipada Maity Associate Professor of Mathematics Mugberia Gangadhar Mahavidyalaya

Principal 20-02-2023 Principal Mugberia Gangadhar Mahavidyalaya

Principal Mugberia Gangadhar Mahavidyalaya A hand on practice on computation skill through MATLAB is held on 25th February 2023 at 10.30a.m to 2.00p.m in Mathematics department Lab. In this program all the students of 3rd semester of Mathematics department are participate this hand on computation skill. In this program Dr. KalipadaMaity , HOD Dept. of Mathematics said about hand on computation skill. Mr. Krishnendu Barman, assistant professor of Dept. of Mathematics, Pravat Kumar College presents in this program. Dr. Manoranjan De, Mr. SantuHati, Mr. Goutam Kumar Mandal are also engaged as a examiner in this program.

#### List of presented students is given below

B.A/B	Sc/B Com (Hons/Gen ) Sub	viect: Marth	(AH) CA	Paper: C7P
SLNo.	Name of Candidate	Roll	No.	Signature of Candidate
+	400120	011010		
1.	Sayan Saboo	1123129	210110	50yan 3ah002.23
2.	Rudora Proakash Das	1123129	210103	Rudra Prakash Das
3.	Sandip Kumar Paul	1123129	210106	Sandip Kunas Parl
4.	Sandipan Vala	1123129	210107	Sandton hala. 25.02:23
5.	Tommay Kumarc Adak	1123129	210116	Tanmay Kumar Adak
6.	Pritish Bag	1123129	210099	Pritish Bay 25.02.23
7.	Raspihari Mal	1123129	210101	Raspihan Hal 25.2.23
8.	Debarshu Roy	1123123	210097	Debanshu Roy
9.	Shibam majhi	1123129	210111	2h2 2.2.23
10	Samapti Jana	1123129	210105	Samapte Jana 25.02.23
11.	Sonatisti Marra	1123129	210113	Sonakshi Manna 25.62.23
12,	Nandini Jana	1123129	210098	Nandene Jana
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# For practices, the 18 numerical problem of paper code C7P using MATLAB software is given below:

	3 rd Semester Examination 2022
	MATHEMATICS (Honours)
	Paper: C7P
	[CBCS]
	Time: Two Hours
	Group-A
	Answer any one question:
	[Q. No. 1 to 8 will be in Gr-A] 1 x 7 =7
	Group-B
	Answer any one question:
	[Q. No. 1 to 10 will be in Gr-B] 1 x 8 =8
1.	Write a program to find a real root of the equation $log(x) = cos(x)$ correct up to three decimal places by bisection method.
2.	Write a program to find a real root of the equation dewise high solution to the equation $e^x - 3x = 0$ . decimal places. Demonstrate your program for the equation $e^x - 3x = 0$ .
3.	Write a program to find a real root of the equation $x \sin(x) - 1 = 0$ by secant method. Write a program to find a real root of the equation $x^2 + \sin x - 4 = 0$ by Newton-Rapson
4.	method correct up to four decimal places.
5.	Write a program to find a real root of the equation by iteration rate of the doubted of the doubted of the equation $x^3 + 2x - 2 = 0$ .
6	Write a program to find the sum of the series $(1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n})$ . Demonstrate your programe
	for $n = 1049$ .
7	Write a program to find the sum of the equation by the method of false position correct up to
•	three decimal place. Demonstrate your program for the equation $\sin x + \cos x = 1$ .
	10-202/23
	Kalipada Manaka
	Dr. protection Martinet

#### **GROUP-B**

- 1. Find the value of  $\int_0^2 (1 + x^2 \sin 4x) dx$  using Simpson's (1/3) rule by writing a program (n = 10).
- 2. Write a program to find a real root of the equation  $x^4 3x^2 + 4 = 0$  by Newton-Raphson method correct up to four decimal place.
- 3. Write a program to find the sum of the series  $\left(1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{999}\right)$  correct up to five decimal places.
- 4. Write a program to find a real root of the equation  $x^2 + x 7 = 0$  by bisection method correct up to three decimal places.
- 5. Write a program to find a real root of the equation by Secant method. Demonstrate your program for the equation  $x^3 8x 4 = 0$ .
- 6. Find the value of  $\int_0^1 x^2 dx$  using trapezoidal rule by writing a program (n = 10).
- 7. Write a program to find the value of y(0.1) and y(0.2) from the differential equation  $\frac{dy}{dx} = x^2 + y^2, y(0) = 1$  by Euler's method.
- 8. Write a program to find the value of y(0.2) from the differential equation  $\frac{dy}{dx} = 1 + y \sin x - x^2$ , y(0) = 0 by fourth order R-K method.
- 9. Write a program to solve the system of equation 3x + y + 2z = 6, -x + 4y + 2z = 5, 2x + y + 4z = 7 by Gauss-seidel method.
- 10. Find the value of  $\int_0^5 (x + \cos x) dx$  using Simpson's (1/3) rule by writing a program (n = 20).



#### Sample Copy of Student Answer Scripts

Group & 8) Group & 6 1726552 Group-A 8) Write a program to find a real root of the equation by the method of table position connect up to those decional place. Demonstate your Program for the equation Sen  $x + \cos x = 1$ . Coding :a = imput (Enter the lower value of interval: \m'); b = Emputf'Enter the copper value of interval : (m'); While abs (b-a) >0.0001 fa = Sim(a) + cos(a) - 116 = Sim (b)+ Cos (b) - 1:  $Xa = (a_{+}f(p) - p_{+}f(a))/(qp - qa)$  $f(x_m) = Sim(x_m) + \cos(x_m) - 1;$ if ta * fxm 20 b=xm: else a = Xm: end end fpar Eart of the most of the equation is right' Xm)

Genoup - B 1776552 6. Find the value of Jx" dx using traperiold male by comiting a paragaram (m=10). Codingo a = imput ('Enter the lower limit of integration: (m'); b = imput (Enter the upper limet of integration : \m'); n = imput ('Enter the number of sub-intervals: (n'); h = (b-a) (m; Sum = 0; four : = 1: (m - 1)  $X_{i}^{*} \neq a + i^{*}h;$ Sum = Sum + 2* (X:2); eged Sum = Sum + (a12) + (b12); Sum = Su( h/2) " Sum; sparint of ("The value of integration is ". s/m', sum); Imput / output :-Enterr the numbers of Emput output :- vel Enter the Lower limit of contegration: 0 Enter the upper limit of integroation. pattern to the the stand 1 Enter the number of - Sub-intervale: 10 The value of integration is 0.335000. at

#### Some GPS Images are insert below





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25.02-2023 Principal Mugberia Gangadhar Mahavidyalaya