

Activity Report (2020-2023)
**Under DBT STAR COLLEGE Strengthening
Scheme**



Department of Mathematics
Mugberia Gangadhar Mahavidyalaya
Bhupatinagar, Purba Medinipur,
West Bengal, India

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17	Faculty Development Program on 20 th – 27 th June, 2022
18	Community/ Extension works, Quiz Competition & Assessment Test for Career Counseling in Higher Education On 30 th August 2022
19	Quiz Competition & Assessment Test for Career Counseling in Higher Education on 9 th September 2022
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21	COMMUNITY/EXTENSION WORKS ON OBSERVATION OF NATIONAL MATHEMATICS DAY on 22 th December 2022
22	Hand on practice on MS Word in computer lab by the students of Dubai Rasiknagar High School on 3 rd January 2023
23	Report of Organizing Innovation & Entrepreneurship Outreach Program in Schools on 6 th to 10 February 2023
24	A Skill Development Certificate Course On “MATLAB” on 8 th September 2022– 16 th January 2023
25	Certificate Course On “C Programming” on 20 th September 2022– 21 st January, 2023

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Sl. No.	Name of the Events
26	Outreach Program : Special Winter Camp on “Exposure Visit of Local School Students to Science Lab and Workshop on some Hands-on-Experiments” on 13 th , 15 th , 20 th , 21 st February 2023
27	A hand on practice on computation skill through “MATLAB” on 25 th February 2023
28	PPT Presentation on “Roll of Mathematics in modern technology and sustainable development” by Poushali Tripathi, Mathematics on 28 th February 2023
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36	Equipment procured for the proposed new practical
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38	Interdisciplinary/departmental projects executed by the students
39	Budget Expenditure
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Three Days International Webinar on 30th, 31st August and 1st September, 2020

(<https://www.youtube.com/watch?v=desktop&fbclid=IwAR1q491cdKGS70uKmtimtZSS6YVLtkReKplEq2Cklui1jk5Tysw6JyQ97k&v=Wgh5NI9FuJA&feature=youtu.be>)

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

Organised by
Department of Mathematics (UG & PG)
Mugheria Gangadhar Mahavidyalaya
 Bhopatnagar, Purba Medinipur – 721425

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

Eminent speakers Day 1 (8:30-5:30 p.m.)

- Prof. Manoranjan Maiti**, Former Professor, Dept. of Applied Mathematics with Computing and Computer Programming, West Bengal, India.
- Prof. Chiranjit Das**, Professor, Dept. of Industrial Engineering, Sarda National University, Sarda, South Korea.
- Prof. Pankaj Das**, Associate Professor, Division Science and Quantitative Methods, Shaheed B. Vidyalaya School of Management, I.I.T. Bhubaneswar.

Eminent speakers Day 2 (8:30-11:30 a.m.)

- Prof. Oscar Castillo**, Ph.D., D.Sc., Research Chair of Graduate Program, Tijuana Institute of Technology (ITeC), Tijuana, Mexico.
- Dr. Charly N. Dhaigude**, Department of Social Work, University of Nagpur, Nagpur, India.
- Dr. Binay Das**, Senior Professor, Scientific Computing, Engineering and Process Development, IIT Kharagpur, Kharagpur, India.

Eminent speakers Day 3 (10:00-5:30 p.m.)

- Prof. Swapan Kr. Misra**, Professor, Dept. of Applied Mathematics with Computing and Computer Programming, West Bengal, India.
- Dr. Samrajit Kar**, Dept. of Mathematics, National Institute of Technology, Durgam, West Bengal, India.
- Dr. Binay Das**, Associate Professor, Department of Mathematics, Shaheed B. Vidyalaya School of Management, I.I.T. Bhubaneswar, West Bengal, India.

Registration is free, for registration click on the link or open in search bar: <https://forms.gle/yRbXGw9W9KPF3>
 Last date of registration: 29th August 2020 up to 5:00 pm. Platform Zoom Google meet, using Streaming in Youtube. Meeting link will be provided one day prior to the Webinar through registered e-mail or Whatsapp. E-certificates will be issued only after successful filing of feedback form. For fee contact: K.Maiti (9436611354, M.Das(932822498), G.Cat (95697646), B.Panda(914339713) for any query.

Invitation

It is a great pleasure to inform you that Mathematics Department of Mugheria Gangadhar Mahavidyalaya is going to organize Three days International Webinar on "Mathematical modelling in the context of COVID-19" on 30th, 31st August and 1st September 2020 using the platform Zoom app/Google meet Streaming in Youtube and Facebook 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 strengthen the scope during this crisis period. You are also most welcome to present here to achieve our goal in the said webinar.

Your kind presence would enrich our programme.

With best wishes,
 Dr. Manoranjan De, Dr. Kalipada Maity, Dr. Swapan Kr. Misra
 Jt. Convener, Jt. Convener & HOD
 Dept. of Mathematics (UG & PG)
 Mugheria Gangadhar Mahavidyalaya

Programme Committee

Chair Person
 Dr. Swapan Kr. Misra, Principal
 Mugheria Gangadhar Mahavidyalaya

Jt. Convener
 Dr. Kalipada Maity, Associate Professor,
 Coordinator OAC Cell and Head,
 Department of Mathematics (UG & PG)
 Mugheria Gangadhar Mahavidyalaya

Jt. Convener
 Dr. Manoranjan De, Assistant Professor,
 Department of Mathematics (UG & PG)
 Mugheria Gangadhar Mahavidyalaya

Executive Committee
 Manoj Das, Debroy Manoj, Manoj Manoj, Bhaskar Panta, Ganesh Kumar Mondal, Soumitra Das, Soma Das

Free Registration Link: <https://forms.gle/yRbXGw9W9KPF3>
Whatsapp Link: <https://chat.whatsapp.com/ND0596MFC0eRk0zq>
Telegram Link: <https://t.me/joinchat/UBEl1tU4S154K3RU0U7w>

About the College and Mathematics Department

MUGHERIA GANGADHAR MAHAVIDYALAYA (Under DDBT STAR college) was established on 2nd July 1964 as a co-educational college in Bhopatnagar village situated in Bhopatnagar Block under Contar Sub-Division of Purba Medinipur District West Bengal by a society of the same name. From its very inception, the college is striving to fulfill all of its noble objectives. "To promote educational facilities of all types, including studies in Arts (Humanities), Science, Technical and Vocational Course". To reach the objective, the Department of Mathematics was opened with computer course (on 19.11.1997), Honors Programme (on 16.08.2002) and Post Graduate Programme (on 15.08.2017). Our department is one of the best of Vidya-ganga University. After that, the department has progressed steadily with its teaching and research programmes for the last 15 years. At present, the department has a well-equipped computer lab, smart classrooms with internet and Wi-Fi connection.

PHOTO GALLERY - DEPT. OF MATH.

Day 3 (01.09.2020): Attendance and Feedback form (Responses)

Sl. No.	Full Name with valid ID picture	Institution/Organization	The full address of the In in Country Name	Your role in this webinar	Title of your paper/topic	Any comment regarding today's webinar
1	Rajendra Kumar	Ph.D. Scholar	Sarda Vidyalaya West Bengal, India	Participant	NA	Webinar was very good and informative
2	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	NA	Excellent
3	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	NA	Very good and valuable information
4	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	NA	Very good webinar
5	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	NA	All is well
6	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	Mathematical Modelling	How to see and 19 through mathematical modeling
7	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	Overall this webinar is very informative
8	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	Effective and excellent and interesting	Very relevant topic discussed
9	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	How to see and 19 through mathematical modeling	
10	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	NA	
11	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	
12	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	
13	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	
14	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	
15	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	
16	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	
17	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	
18	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	
19	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	
20	Dr. Manoranjan Maiti	Former Professor	Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, West Bengal, India	Participant	COVID-19	

MGMMATH2020SP001

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

Under DBT STAR COLLEGE Strengthening Scheme (Govt. of India)
 Organised by
Department of Mathematics (UG & PG)
Mugheria Gangadhar Mahavidyalaya
 Bhopatnagar, Purba Medinipur – 721425, West Bengal, India

CERTIFICATE OF APPRECIATION

This is certified that **Prof. Manoranjan Maiti**, Former Professor, Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University, West Bengal, India has acted as a keynote speaker in Three Days International Webinar "Mathematical Modelling In The Context Of Covid-19" held at Mugheria Gangadhar Mahavidyalaya, Bhopatnagar, Purba Medinipur, West Bengal, India on 30th, 31st August and 1st September, 2020.

Title of the Presentation: **Mathematical modelling in the context of covid-19 with examples**

Dr. Manoranjan De
 Jt. Convener
 Dept. of Mathematics (UG & PG)
 Mugheria Gangadhar Mahavidyalaya

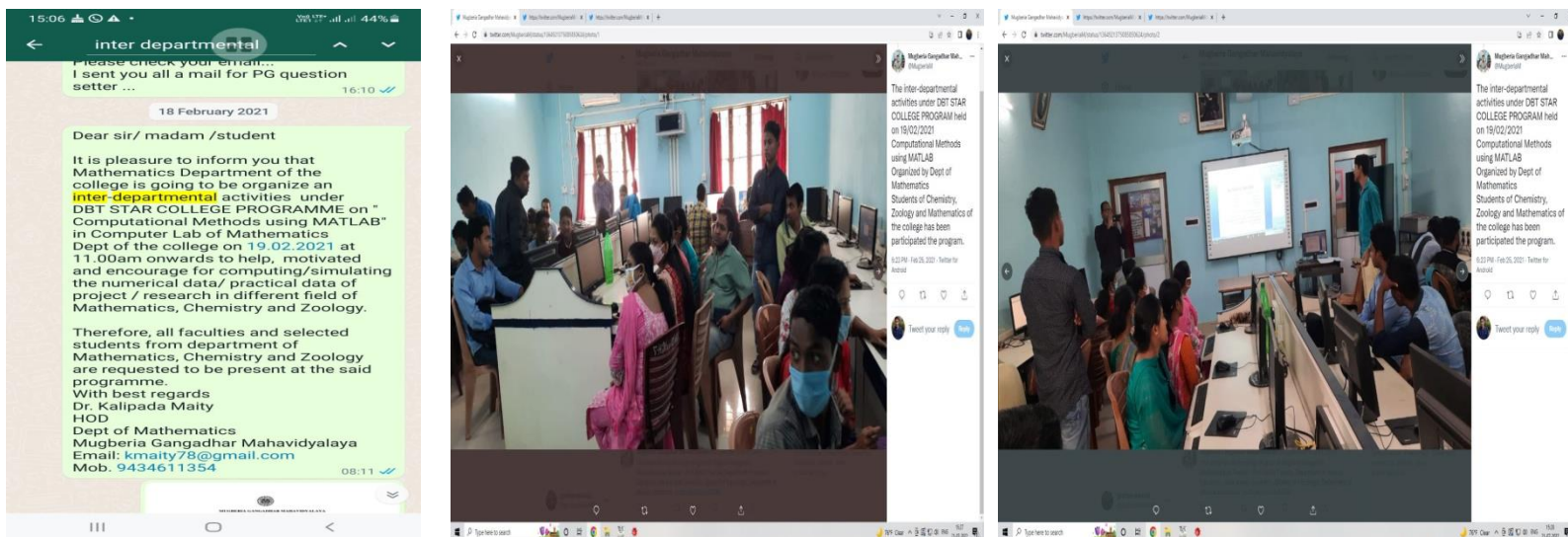
Dr. Kalipada Maity
 Jt. Convener and HOD

Dr. Swapan Kr. Misra
 Chairman and Principal

Date: 01.09.2020 Place: Bhopatnagar

Computational Method using MATLAB on 19th February, 2021

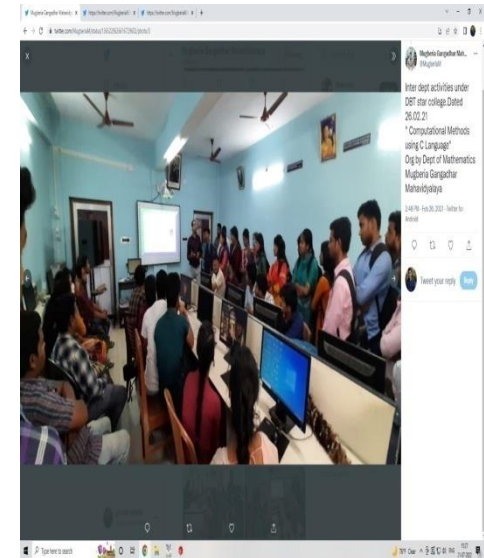
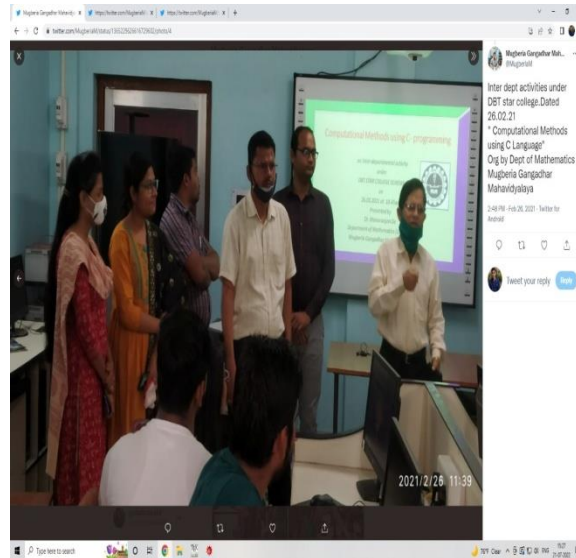
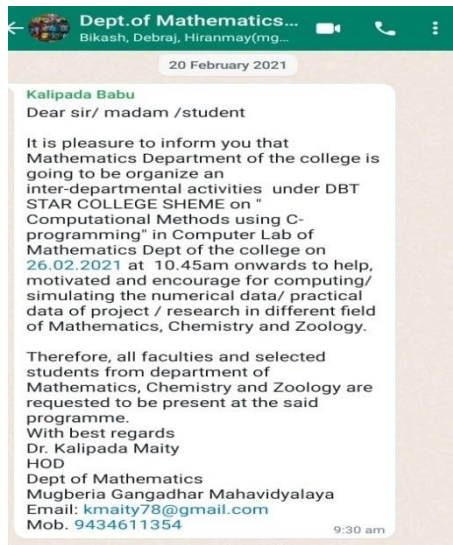
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Department of Mathematics organised an inter departmental workshop program entitled **“Computational Method using Matlab”** on 19th February, 2021 at 11:00 am onwards to help, motivate and encourage for computing simulating the numerical data / practical data of project / research paper in different field of Mathematics, Chemistry and Zoology in Computer Lab of Mathematics Department. Dr. Swapan Kumar Misra, principal of this college inaugurated the program. Mr. Santu Hati, Research Scholar, Department of Mathematics was the main speaker of this program. He involved all the students for hands-on session using offline and online mode. Total 72 students (Male: 43 and Female: 29) with 10 faculty members (Male: 08 and Female: 02) among above three departments participated in this program. They enjoyed the hands-on session and learned the programming code without doubt. Finally, the speaker discussed advanced computation methods to motivate the students. This program was successful.

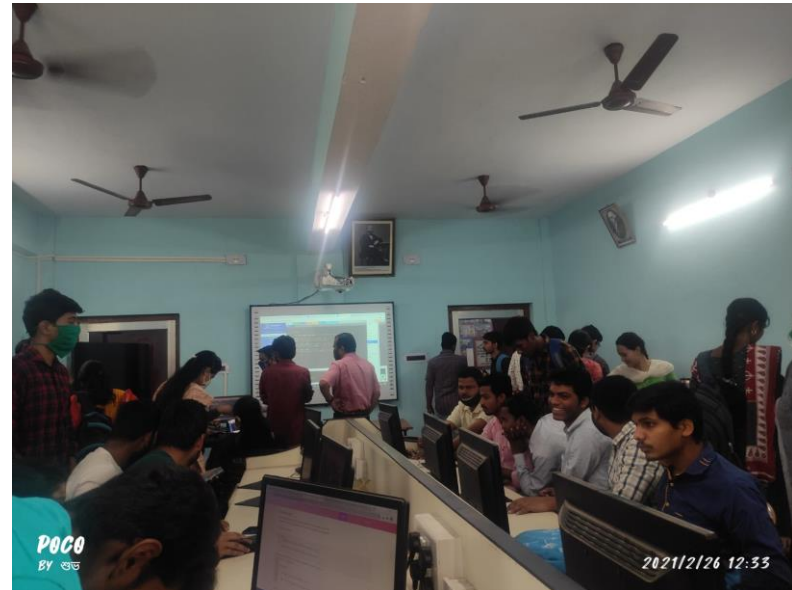
A computational Method using C-Programming on 26th February, 2021

(<https://www.mugberiangadharmahavidyalaya.ac.in/Files/1706613235C%20Prog.pdf>)



Department of Mathematics organised an inter departmental workshop program entitled "A computational Method using C-Programming" on 26th February, 2021 at 10:45am 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. Dr.Swapan Kumar Misra, principal of this college inaugurated the program. Dr.Manoranjan De, Assistant Professor, Department of Mathematics was the main speaker of this program. He involved all the students for hands-on session using offline and online mode. Total 74 students (Male: 42 and Female: 32) with 12 faculty members (Male: 09 and Female: 03) among above three departments participated in this program.

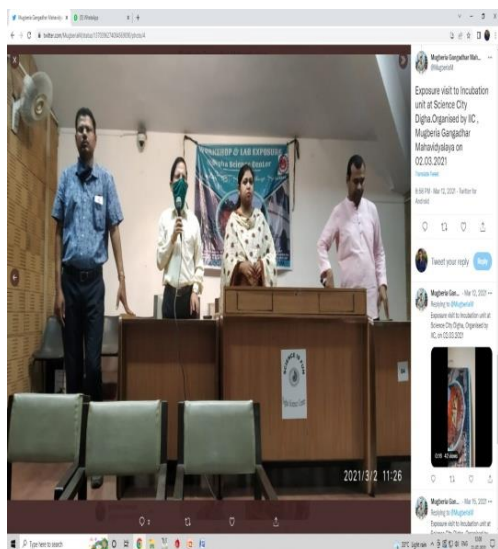
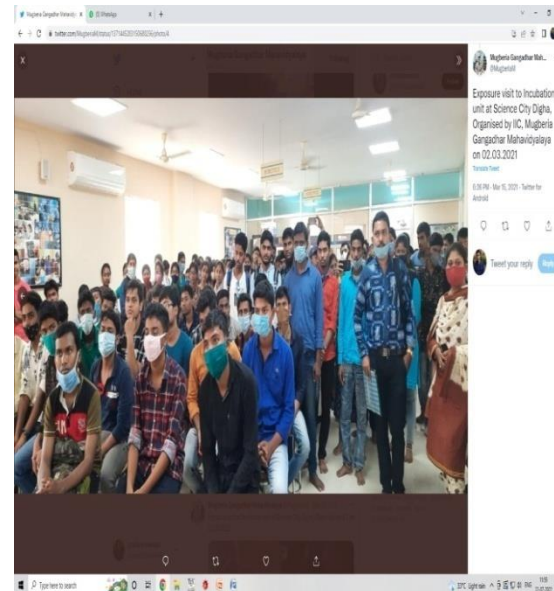
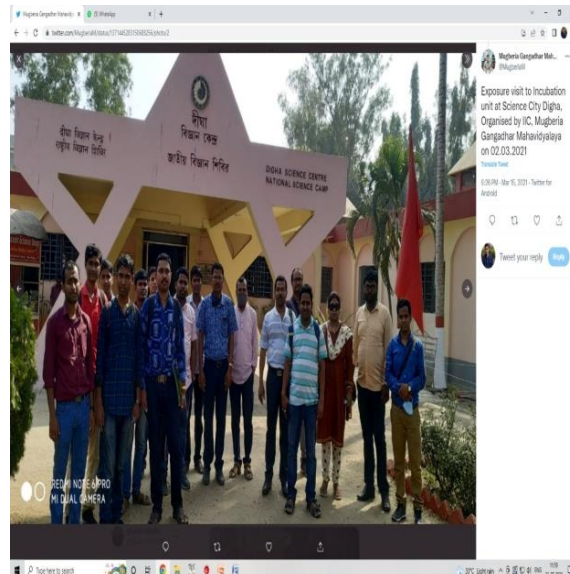
Training of Lab Manpower on 27th February 2021



Matlab and Lingo softwares learning and on-hands program practice.

**External expert: Dr. Anupam De, Assistant Professor, HIT
Date: 27/02/2021**

Visits to industry and important labs of national eminence on 2nd March, 2021



A Workshop and Lab Exposure at Digha Science Centre were held on 02-03-2021 under DBT Star College Strengthening Scheme to do hand on experiment for UG and PG students of Mathematics, Chemistry and Zoology Departments. Total 102 (male-64 and female-38) parents, 18 faculty members (male-14 and female-04). 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.

Online Summer Training School supported under the scheme on 15th -24th July, 2021

<https://www.mugberiangadharmahavidyalaya.ac.in/Files/1694695505OSTS.pdf>

Summer Training School
Topic: **Emerging Trends at the interface of Chemistry, Zoology and Mathematics**

Organized by Department of Chemistry, Zoology and Mathematics, Mugberiangadharmahavidyalaya, Bingshikpur, Purba Medinipur, West Bengal, India.

Area: **Biochemistry, Biomathematics and Zoology**
Number of Topics: 9 (3 in each area) on Theoretical aspects and 2 (1 each in Chemistry and Zoology) on Practical aspects

Span for the Course: 10 days
From July 15 to July 24, 2021
Class time: 11:30 am to 1:00 pm

After completion of the course, evaluation test will be conducted. Certificate will be issued only after qualifying the evaluation test.

Follow this link to join the WhatsApp group: <https://chat.whatsapp.com/K5m8Z0T7A03797023H844>

Role of Mathematics in Modelling and Controlling Pandemic
Dr. Anupam De
Assistant Professor
Haldia Institute of Technology

LECTURE SCHEDULE OF SUMMER TRAINING SCHOOL

<p>Prof. Kousik Pramanick Professor, Department of Life Science, Presidency University, Kolkata 700073, India. Title: Species Concept</p>	Zoology	15.07.2021	11AM-1PM
<p>Dr. Sandip Pal Assistant Professor, Dept. of Zoology, Barrackpore Rastraguru Surendranath College, North 24 Pgs, 700120, India. Title: The World of Non-Chordates (Theory)</p>	Zoology	16.07.2021	11AM-1PM
<p>Dr. A.R. Md. Mustafizur Rahaman Assistant Professor, Dept. of Zoology, Asutosh College, Kolkata 700026, India. Title: Developmental Biology</p>	Zoology	17.07.2021	11AM-1PM
<p>Dr. Sandip Pal Assistant Professor, Dept. of Zoology, Barrackpore Rastraguru Surendranath College, North 24 Pgs, 700120, India. Title: The World of Non-Chordates (Practical)</p>	Zoology	18.07.2021	11AM-1PM
<p>Maidul Hossain Department of Chemistry and Chemical Technology, Vidyasagar University, Paschim Medinipur-721302, West Bengal, India. Title: "Synthesis of 9-O-(substituted) berberine analogues: Their application towards DNA and protein binding and as a toxic material sensor"</p>	Chemistry	19.07.2021	11AM-1PM

<p>Prof. Debasis Kuila Professor & Research director, NSF- CREST Bio-energy Center, Department of Chemistry (NSB342), North Carolina A & T State University, USA.</p>	Chemistry	20.07.2021	Time will be provided later, preferably at Evening
<p>Dr. Anupam De Assistant Professor, Department of Applied Science & Humanities, Haldia Institute of Technology, West Bengal. Title: Role of Mathematics in Modeling and Controlling Pandemic</p>	Mathematics	21.07.2021	11AM-1PM
<p>Dr. Rajarshi Ghosh Associate Professor, Department of Chemistry, The University of Burdwan, Burdwan 713 104, India. Title: "Magnetic interactions in dinuclear transition metal complexes and prussian blue analogues"</p>	Chemistry	22.07.2021	11AM-1PM
<p>Dr. Uttam Bera Associate Professor Dept. of Mathematics, NIT Agartala Tripura. Title: Effect of supply chain during Covid -19</p>	Mathematics	23.07.2021	11AM-1PM
<p>Dr. Jayanta De Associate Professor, Dept of Mathematics, Mahisadal Raj College, Purba Medinipur, West Bengal. Title: Role of Mathematics in the present context</p>	Mathematics	24.07.2021	11AM-1PM

❖ **Schedule of Examination: 24.07.2021, 1p.m. to 2p.m. (Details will be provided later)**

A comprehensive technical session on Latex: Report writing, Beamer modification for effective CV and Presentation on 18th December 2021

<https://www.mugberiagangadharmahavidyalaya.ac.in/Files/1706612806LaTeX%20Report.pdf>

19/12/21

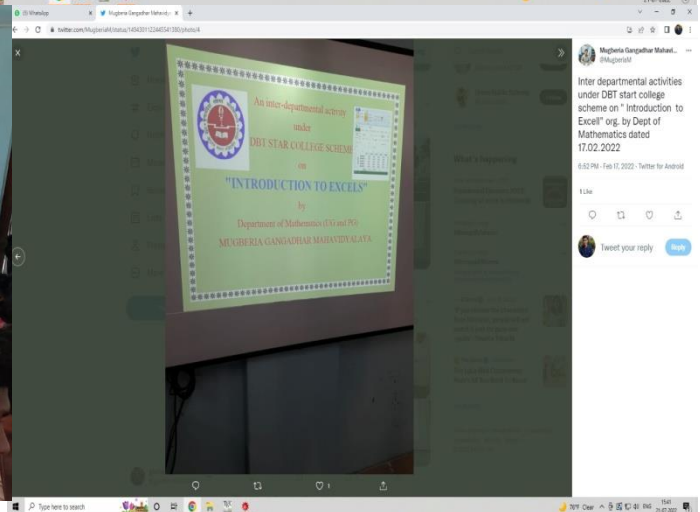
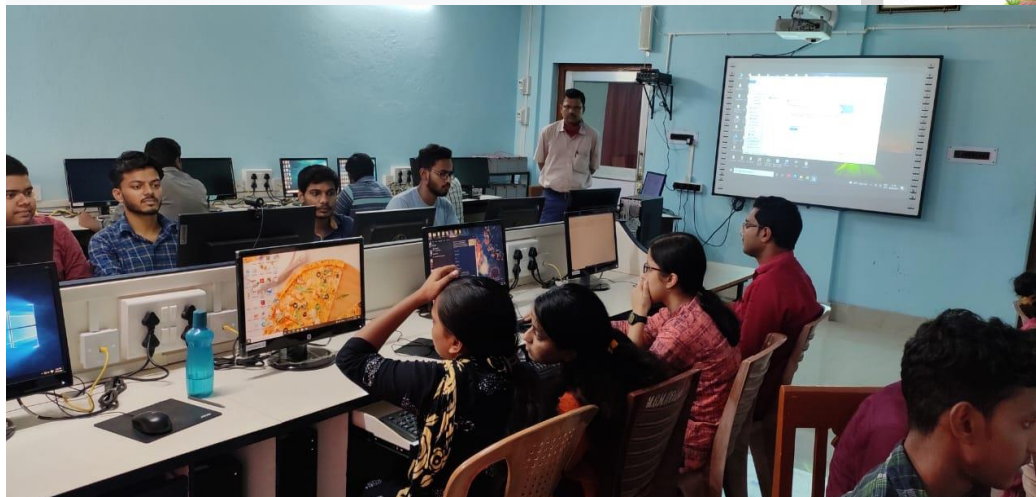
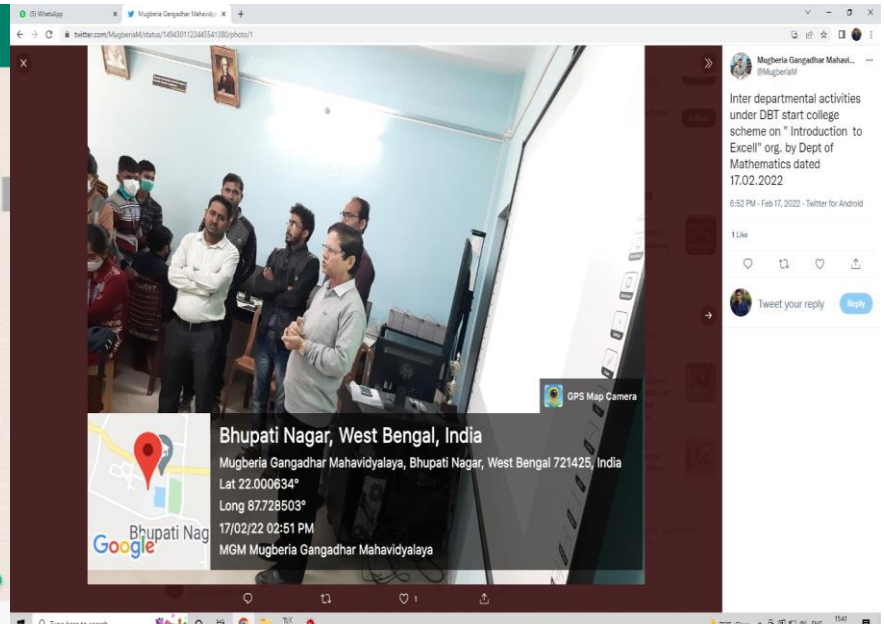
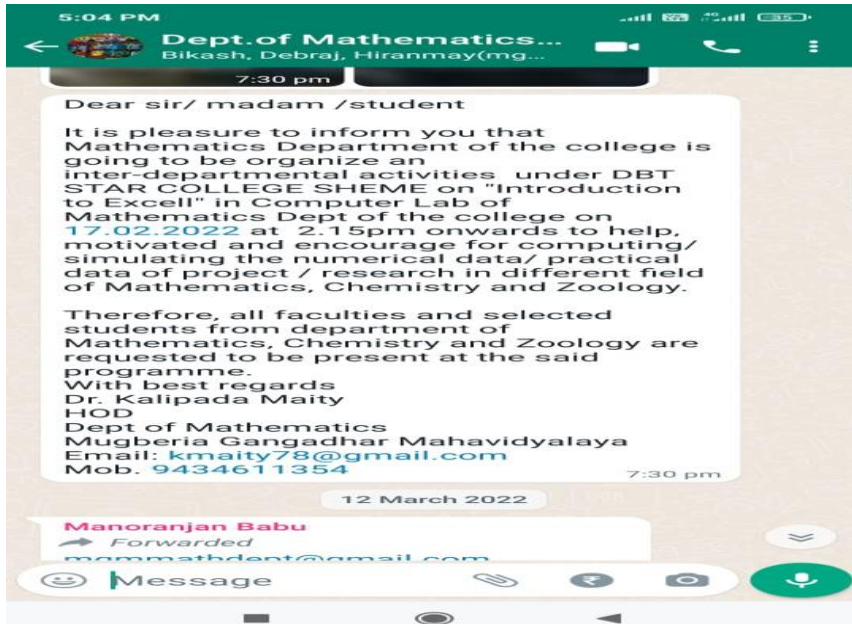
3. Speaker : Dr Rakesh Laxmikant Das, PhD, Director in a startup Nano Enhancer, Teaching Assisant in AMHD NIT-Surat Department of Mathematics, National Institute of Technology Surat.

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

The screenshot displays a Zoom meeting interface. On the left, a presentation slide is visible, featuring a green and yellow background. The slide contains the following text: "The National Institute of Technology Surat, Surat (Gujarat) is organizing a comprehensive technical session on Latex: Report writing, Beamer modification for effective CV and Presentation". It also lists the speaker as Dr. Rakesh Laxmikant Das, PhD, and provides contact information for the Department of Mathematics, NIT-Surat. The slide includes several small images and logos. On the right, a video feed shows a man with glasses and a light blue shirt speaking. Below the main video feed, there are smaller thumbnails of other participants. At the bottom of the screen, a "Participation Certificate" is partially visible, with the text "Participation Certificate" in a green box.

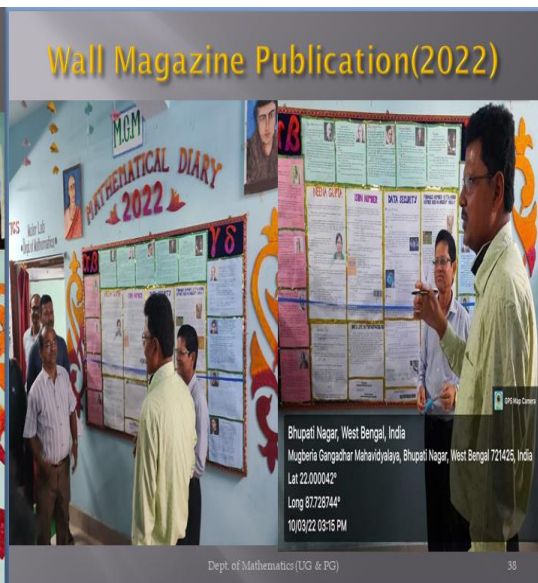
Introduction to Excel on 17th February, 2022

<https://www.mugberiangadharhmahavidyalaya.ac.in/Files/1706612876Excel.pdf>



Wall Magazine: Mathematical Diary on 10th March, 2022

<https://www.mugberiagangadharmahavidyalaya.ac.in/Files/1704358716Report%20of%20wall%20Magazine%202022.pdf>



Inaugurated by: Dr.Swapan Kumar Misra,
Principal, MGM

Convener: Mr.Hiranmoy Manna

Published by: Department of Mathematics (UG & PG)

Financially Helped by: **DBT STAR COLLEGE SCHEME**

Mathematician's Name	Students Name	Semester
Brahmagupta	Harekrishna Maity	4 th sem(UG)
Aryabhata	Moumita Tunga	4 th sem(PG)
Pythagoras	Parthapratim sahoo	4 th sem(UG)
Euclid	Megha Santra	6 th sem(UG)
George Cantor	Susmita Pahari	4 th 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)
Srinivasa Ramanujan	Swarnendu Pradhan	4 th sem(PG)
Niels Henrik Abel	Surajit Bhanja	4 th sem(PG)
Akshay Venkatesh	Suryasekhar Giri	4 th sem(PG)

Ramanujan Memorial lecture series-4 on “Machine learning and its Application” on 21th March, 2022

<https://www.mugberiangangadharmahavidyalaya.ac.in/Files/1706612731Ramanujan%20Memorial.pdf>

Ramanujan Memorial Lecture Series-4 on “Machine Learning and its application”
 Date: 21st March, 2022
 at 11:00 a.m.



UNITS APPROVED, NAAC & ACCREDITED BY UGC, MUMBAI

Organized by:
 Department of Mathematics (UG & PG)
 Mugberia Gangadhar Mahavidyalaya
 Bhupatnagar, West Bengal, India



It is a great pleasure to inform you that Mathematics Department of our college is going to organize a Ramanujan Memorial Lecture Series-4 on “Machine Learning and its application” under DBT Star College Strengthening Scheme on 21st March, 2022 in Auditorium hall of our college at 11:00 a.m. onwards to motivate and encourage the MB, BS, UG & PG students of Mathematics for creating interest in the subject and also to enlighten future scope in the field of Mathematics. You are also most welcome to present here to achieve our goal in the said memorial lecture.

Your kind presence would enrich our programme.

With best wishes

Dr. Manoj Kumar Das, Dr. Kalpana Mitra, Dr. Swapan K. Mishra
 Dept. of Math., Organiser and Host

Mugberia Gangadhar Mahavidyalaya




PHOTO GALLERY OF GNATH



About the Mathematics Department
 MUGBERIA GANGADHAR MAHAVIDYALAYA was established on 2nd July 1964 as a co-educational college in Bhupatnagar village situated in Bhadrakpur II Block under Central Sub-Division of Purnia (Muzaffarpur District) West Bengal by a society of the same name. From its very inception the college is trying to fulfill one of the noble objectives “To promote educational facilities in the fields of Science, Arts (Humanities), Science, Technical and Vocational Courses”. To reach this objective, the Department of Mathematics was opened with General courses in 1971, 1997, Honors Programme (in 1978, 2002) and Post Graduate Programme (in 01.08.2017). Our department is one of the best of Vidyapeeth University. After that, the department has progressed steadily with its teaching and research programmes for the last 15 years. At present, the department has a well-equipped computer lab, smart class room with internet and Wi-Fi connection.

About Ramanujan Memorial Lecture
 Ramanujan Memorial Lecture Series-4 on “Machine Learning and its application” has been initiated with the aim of linking up the dispersed research community in this broad area within the country. Machine learning is an umbrella term for a set of techniques and tools that help computers learn and solve on their own. Machine learning algorithms take AI learn without being explicitly programmed to perform the desired result. By learning a pattern from sample inputs, the machine learning algorithm predicts and performs tasks solely based on the learned pattern and not a predefined program instruction. Machine learning is a life saver in several cases where applying strict algorithms is not possible. It will learn the new patterns from previous patterns and extract the knowledge. Popular Machine Learning Applications and Examples are Social Media, Finance, Product Recommendations, Image Recognition, Sentiment Analysis, Assessing Employee Access Control, Marine Wildlife Preservation, Regulating Healthcare Efficiency and Medical Services, Product Personalized Retail, Finance, Banking, Online Language Translation, etc. Popular machine learning applications and technology are evolving at a rapid pace, and we are excited about the possibilities that our Machine Learning and its application has.

Therefore, we decided to organize a one-day Ramanujan Memorial Lecture Series-4 with the following aims and objectives:


1. To provide some mathematical tools to the participants.
2. To provide a platform where young researchers, academicians and students can interact and update themselves with the recent trends in the area of mathematics.
3. To share the expertise of different research groups of India in the related fields.
4. To initiate new collaborations with school and college students.

Contact Details:
 For any query contact the following members
 Mobile No. +91-9829411154 (Dr. Kalpana Mitra),
 Host, Dept. of Mathematics, 9082292408 (Dr. Manoj Kumar Das), 9143007114 (Dr. Swapan K. Mishra)

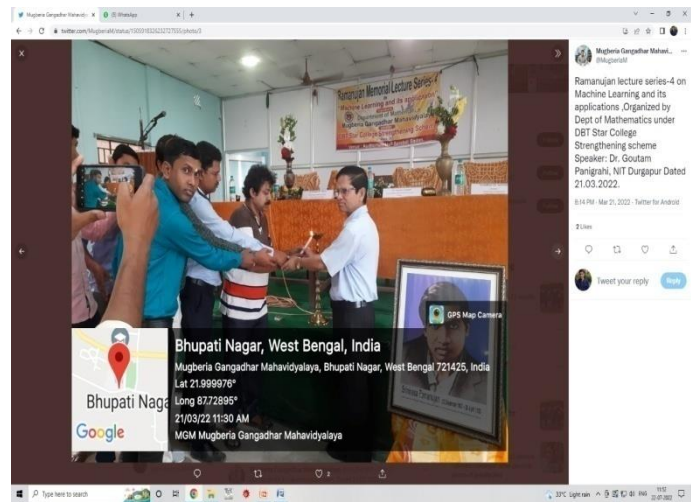
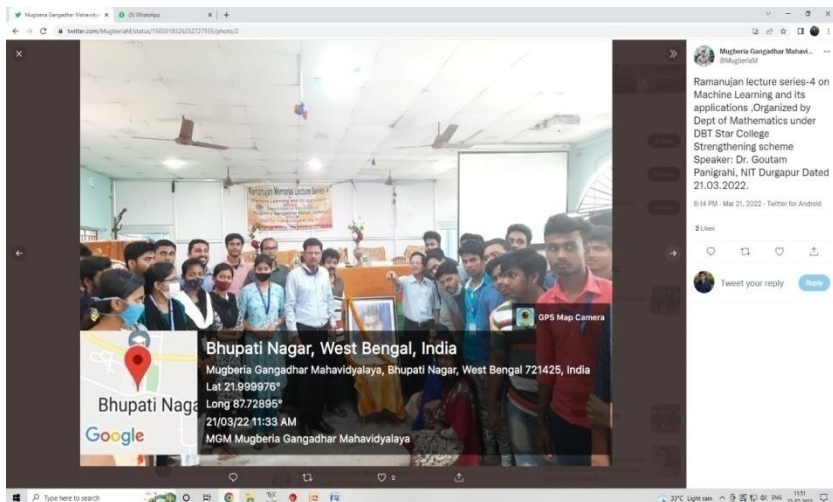
Organising Committee
CHIEF PATRON
 Dr. Goutam Panigrahi, Associate Professor, Dept. of Mathematics, NIT Durgapur, India.
PRESIDENT
 Dr. Swapan Kumar Mishra,
 Principal, Mugberia Gangadhar Mahavidyalaya
CONVENOR
 Dr. Kalpana Mitra,
 Head, Dept. of Mathematics,
 Mugberia Gangadhar Mahavidyalaya
Executive Committee
 Dr. Manoj Kumar Das, Saranjit Giri, Debraj Mazum, Haranmayee Mishra, Ritankar Paul, Subhasish Ghos, Sanjit Bisai, Sanyal Harit,
 Dept. of Mathematics (UG & PG),
 M. G. Mahavidyalaya
Invited Speaker
 Dr. Goutam Panigrahi, Associate Professor, Dept. of Mathematics, NIT Durgapur, India.




Ramanujan Memorial Lecture-4
Machine Learning and its Application,
21 March, 2022



Bhupati Nagar, West Bengal, India
 Mugberia Gangadhar Mahavidyalaya, Bhupati Nagar, West Bengal 721425, India
 Lat 22.00220°
 Long 87.72895°
 21/03/22 09:54 PM
 Dept. of Mathematics (UG & PG)



Skill Development Course for Scientific Documentation using Latex

15th May – 29th June, 2022.



MUGBERIA GANGADHAR MAHAVIDYALAYA					
Taking Certificate On Completing LATEX					
PG 4th SEM Department Of Mathematics					
SL NO.	NAME	ROLL	NO.	CLASS	SUBJECT
1	Swarandru Pradhan	PG/VUEG32/MTM-IVS	0003	PG 4th Sem	Mathematics
2	Twameka Tripathi	PG/VUEG32/MTM-IVS	0007	PG 4th Sem	Mathematics
3	Sayani Sinha	PG/VUEG32/MTM-IVS	0021	PG 4th Sem	Mathematics
4	Kulvli Mandal	PG/VUEG32/MTM-IVS	0035	PG 4th Sem	Mathematics
5	Srikrishna Nayak	PG/VUEG32/MTM-IVS	0026	PG 4th Sem	Mathematics
6	Anai Mishra	PG/VUEG32/MTM-IVS	0028	PG 4th Sem	Mathematics
7	Savyantani Maiti	PG/VUEG32/MTM-IVS	0038	PG 4th Sem	Mathematics
8	Sanjib Day	PG/VUEG32/MTM-IVS	0004	PG 4th Sem	Mathematics
9	Subhendu Bhanja	PG/VUEG32/MTM-IVS	0012	PG 4th Sem	Mathematics
10	Susmita Pal	PG/VUEG32/MTM-IVS	0022	PG 4th Sem	Mathematics
11	Gouri Shankar Mandal	PG/VUEG32/MTM-IVS	0018	PG 4th Sem	Mathematics
12	Parthapratim Sahoo	PG/VUEG32/MTM-IVS	0019	PG 4th Sem	Mathematics
13	Susmita Pahari	PG/VUEG32/MTM-IVS	0005	PG 4th Sem	Mathematics
14	Moumita Tunga	PG/VUEG32/MTM-IVS	0011	PG 4th Sem	Mathematics
15	Ananya Pattanayak	PG/VUEG32/MTM-IVS	0010	PG 4th Sem	Mathematics
16	Saikat Gayen	PG/VUEG32/MTM-IVS	0029	PG 4th Sem	Mathematics
17	Arup Mondal	PG/VUEG32/MTM-IVS	0030	PG 4th Sem	Mathematics
18	Biswarangan Maena	PG/VUEG32/MTM-IVS	0013	PG 4th Sem	Mathematics
19	Subha Ghosal	PG/VUEG32/MTM-IVS	0014	PG 4th Sem	Mathematics
20	Anupama Khatua	PG/VUEG32/MTM-IVS	0009	PG 4th Sem	Mathematics
21	Gurupada Jana	PG/VUEG32/MTM-IVS	0008	PG 4th Sem	Mathematics
22	Basudev Maity	PG/VUEG32/MTM-IVS	0027	PG 4th Sem	Mathematics
23	Surya Sekhar Giri	PG/VUEG32/MTM-IVS	0001	PG 4th Sem	Mathematics
24	Subha Pradhan	PG/VUEG32/MTM-IVS	0002	PG 4th Sem	Mathematics
25	Udika Sahoo	PG/VUEG32/MTM-IVS	0036	PG 4th Sem	Mathematics
26	Pritam Nayak	PG/VUEG32/MTM-IVS	0020	PG 4th Sem	Mathematics
27	Arjit Maity	PG/VUEG32/MTM-IVS	0037	PG 4th Sem	Mathematics
28	Sk Towkir Alam	PG/VUEG32/MTM-IVS	0024	PG 4th Sem	Mathematics
29	Sougata Bera	PG/VUEG32/MTM-IVS	0023	PG 4th Sem	Mathematics
30	Shantigopal Jana	PG/VUEG32/MTM-IVS	0025	PG 4th Sem	Mathematics
31	Harekrishna Maity	PG/VUEG32/MTM-IVS	0006	PG 4th Sem	Mathematics
32	Supriya Bisai	PG/VUEG32/MTM-IVS	0016	PG 4th Sem	Mathematics
33	Anuska Maiti	PG/VUEG32/MTM-IVS	0039	PG 4th Sem	Mathematics
34	Surajit Bhanja	PG/VUEG32/MTM-IVS	0033	PG 4th Sem	Mathematics
35	Sourav Bera	PG/VUEG32/MTM-IVS	0032	PG 4th Sem	Mathematics
36	Debasish Pahari	PG/VUEG32/MTM-IVS	0017	PG 4th Sem	Mathematics
37	Uttam Sen	PG/VUEG32/MTM-IVS	0015	PG 4th Sem	Mathematics
38	Sangita Das	PG/VUEG32/MTM-IVS	0031	PG 4th Sem	Mathematics



The Department of Mathematics introduced a “Skill Development Course for Scientific Documentation using Latex” from 2022. In this year the program had been running 15th May – 29th June, 2022. 38 students participated and completed (more than 30 hours) certificate course and they all were received their certificate from the Department on 30th June, 2022. The course helps the students for written their documentations like dissertation, project, lab notebook, field visit report, beamer presentation, etc.

Career counseling for recent graduate/alumni on 14th May, 2022

<https://www.mugberiagangadharmahavidyalaya.ac.in/Files/17046961991.pdf>

14/5/22

Workshops and seminars organized in topical areas for students by the dept. supported under the scheme

Title: Career counseling for recent graduate/alumni

The flyer contains the following text:

Workshop for
"Career counselling for recent graduate / alumni"
on 14th May, 2022 (at 10:30 a.m. to 04:30 p.m.)

Organized by
Department of Mathematics (UG & PG)
Mugberia Gangadhar Mahavidyalaya
Mugberia, Faridkot, Punjab - 151021

Guest Speakers

Dr. Anil Kumar
M.Sc., M.Phil.,
Ph.D., Assistant
Professor, IIT,
Allahabad

Programme Content

1. Introduction
Dr. Anil Kumar, IIT, Allahabad

2. Career Planning
Dr. Anil Kumar, IIT, Allahabad

3. Job Search
Dr. Anil Kumar, IIT, Allahabad

4. Interview Skills
Dr. Anil Kumar, IIT, Allahabad

5. Resume Writing
Dr. Anil Kumar, IIT, Allahabad

6. Placement Preparation
Dr. Anil Kumar, IIT, Allahabad

Workshop Fee and Contact Details
Workshop is free of charge. For more details, contact the Department of Mathematics, Mugberia Gangadhar Mahavidyalaya, Faridkot, Punjab. Contact No: 0182-277000. Email: maths@mgdvmv.ac.in

For more details
Contact the Department of Mathematics, Mugberia Gangadhar Mahavidyalaya, Faridkot, Punjab. Contact No: 0182-277000. Email: maths@mgdvmv.ac.in

The slide content is as follows:

Career Opportunities

By
Tapan Jaiswal
MSc in Mathematics from IIT, IITK in CSE&IT from IIT Kgp.
(18 years of IT experience)

Organized by
Dept. of Mathematics (UG & PG),
Mugberia Gangadhar Mahavidyalaya

Industrial Visit to Haldia Energy Limited, Haldia, Purba Medinipur on 15th June 2022



CESC Haldia Thermal Power

Haldia, West Bengal, India
 Jhikur.khali. Haldia Energy limited main Gate, 453J+34X, Haldia, West Bengal 721635, India
 Lat 22.102758°
 Long 88.1802°
 15/06/22 09:24 AM
 MGM Mugberia Gangadhar Mahavidyalaya

Haldia, West Bengal, India
 4540+20M, Haldia, West Bengal 721635, India
 Lat 22.1040°
 Long 88.177339°
 15/06/22 11:26 AM
 MGM Mugberia Gangadhar Mahavidyalaya

YOUR VIRUS PROTECTION HAS EXPIRED
 A link of the 1-877 call center was not able to be retrieved every year.

HPL 2X300 MW THERMAL POWER PLANT SAFETY INDUCTION TRAINING

Course Title - Working At Height/Advantages of PPEs/Hot Work/Confined Space/Electrical Safety/Scuffing/PTW/OTO/Safe Rigging Practices/ Road Safety/Housekeeping/Chemical Handling/Sharpening of Incident/Working in Transmission Lines/ Others

Date: 15/06/22 Location: Haldia, West Bengal

I have understood the safety rules, procedures communicated to me during training. I commit to follow the same at site and also responsible for my own safety.

Sl. No.	Name & Age	Designation	Gate Pass Number	Signature
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Training imparted by Mr. Shiva Chaman Mohanty
 HPL Safety & Fire Contractor Safety/ Supervisor

HPL 2X300 MW THERMAL POWER PLANT SAFETY INDUCTION TRAINING

Course Title - Working At Height/Advantages of PPEs/Hot Work/Confined Space/Electrical Safety/Scuffing/PTW/OTO/Safe Rigging Practices/ Road Safety/Housekeeping/Chemical Handling/Sharpening of Incident/Working in Transmission Lines/ Others

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Training imparted by Mr. Shiva Chaman Mohanty
 HPL Safety & Fire Contractor Safety/ Supervisor

Faculty Development Program on 20th – 27th June, 2022



Faculty Development Program

On and From 20/06/2022 to 27/06/2022

Under

DBT STAR COLLEGE STRENGTHENING
SCHEME, GOVT. OF INDIA

Organized by Department of Chemistry, Zoology and Mathematics,
Mugberia Gangadhar Mahavidyalaya, Bhupatinagar, Purba Medinipur,
West Bengal, India.



Course Design
Area: CAS, IPR, Teaching Learning,
Innovative Research, Software,
Environment
Number of Topics: 7 on both
Theoretical and Practical aspects

**Span of the
Program**
7 days
Time: 1.15 pm to 3.15
pm (Monday –Friday)
Saturday: 12.15-2.15 pm

PARTICIPANTS: Faculty members
including Librarians, Research Scholars
and PG students

Mode of Program
OFF-LINE

Resource Persons, Theme of presentation & Tentative Dates

1. Dr. Shyamal Kumar Mondal, Professor, Dept. of Applied Mathematics with Oceanology and Computer Programming, Vidyasagar University. Theme: Software, 20/06/22
2. Dr Pritha Bhattacharjee, Asst. Prof. Department of Environmental Science, University of Calcutta. Theme: Environmental Research, 21/06/22
3. Dr. Pijush Kanti Tripathi, Officer-in-Charge, Haldia Government College, Theme: CAS, 22/06/22
4. Apurba Kumar Chatterjee, Technical Manager, Good Earth Enviro Care, Narendrapur, Kolkata. Theme: Environmental Pollution Monitoring, Management & Research, 23/06/22
5. Prof. (Dr.) Pradipta Kumar Mishra, Principal, Yogoda Satsanga Palpara Mahavidyalaya. Topic: An Effective Teacher in Higher Education for 21st Century, 24/06/22
6. Sri Amiya Kumar Kalidaha, Senior Scientific Officer, Department of Science and Technology & Biotechnology, GoWB, Kolkata. Theme: IPR, 25/06/22
7. Prof. (Dr.) Nandan Bhattacharyya, Principal, Panskura Banamali College, Theme: Innovative Research ideas, 27/06/22

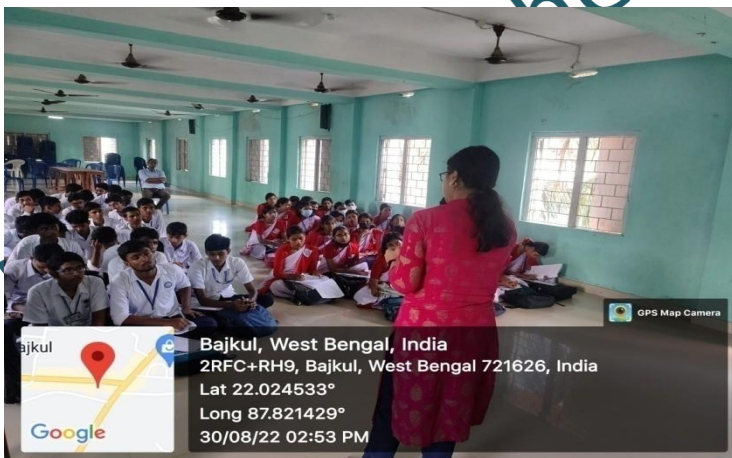


COMMUNITY / EXTENSION WORKS

Quiz Competition & Assessment Test for Career Counseling in Higher Education

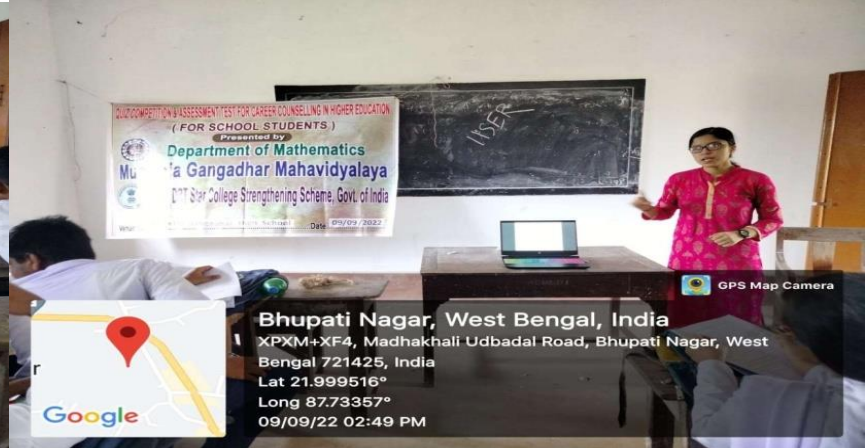
On 30th August 2022

<https://www.mugberiagangadharmahavidyalaya.ac.in/Files/1681201964Outreach%20Prog.pdf>



Quiz Competition & Assessment Test for Career Counseling in Higher Education on 9th September 2022

<https://www.mugberiagangadharmahavidyalaya.ac.in/Files/1681201964Outreach%20Prog.pdf>



Five days workshop for capacity building of the students on “How do you present a power point as a student?” on 29thNovember–3rdDecember,2022

Assessment
 Five Days Workshop for Capacity Building of the students
 How Do You Present a Power Point as a Student?
 (For UG-V & PG students)
 Organized by
 Department of Mathematics(UG & PG)
 Mugberia Gangadhar Mahavidyalaya
 In collaboration with OAS, Tanak, Purba Medinipur WB
 Date: 29th November to 3rd December 2022

Day 1: (1.15pm - 4.15pm)
 1. Dr Swapan Kumar Misra, Principal, Mugberia Gangadhar Mahavidyalaya.
 2. Dr Kalpada Maity, Associate Professor & NAAC Coordinator, HOD (UG & PG), Department of Mathematics.
 3. Dr Manoranjan De, Assistant Professor, Department of Mathematics.

Day 2: (2.15 pm- 4.15 pm)
 1. Mr. Goutam Kumar Mondal, Contractual Assistant Professor, Department of Mathematics.
 2. Miss Twameka Tripathi (Alumni).

Day 3: (2.15 pm- 4.15pm)
 1. Mr. Subham Maity, Contractual Teacher, Department of Mathematics.
 2. Mr. Manish Acharya(Alumni).

Day 4: (2.15 pm- 4.15 pm)
 1. Mr. Bikash Panda, SACT, Department of Mathematics.
 2. Miss Twameka Tripathi (Alumni).

Day 5: (2.15 p.m.- 4.15 p.m)
 1. Dr Kalpada Maity, Associate Professor & NAAC Coordinator, HOD, Department of Mathematics.
 2. Mr Sourav Bera (Alumni).

Tuesday
 29/11/2022

Wednesday
 30/11/2022

Thursday
 01/12/2022

Friday
 02/12/2022

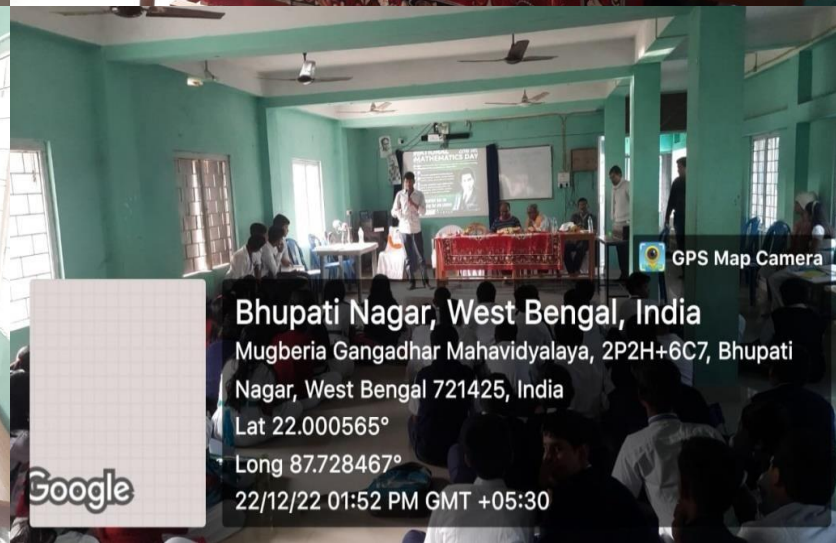
Saturday
 03/12/2022

Dr Swapan Kumar Misra
 Dr Kalpada Maity
 Dr Swapan Kumar Misra



COMMUNITY/EXTENSION WORKS ON OBSERVATION OF NATIONAL MATHEMATICS DAY on 22th Decemer 2022

<https://www.mugberiangadharharmahavidyalaya.ac.in/Files/1681201964Outreach%20Prog.pdf>



Hand on practice on MS Word in computer lab by the students of Dubai Rasiknagar High School on 3rd January 2023



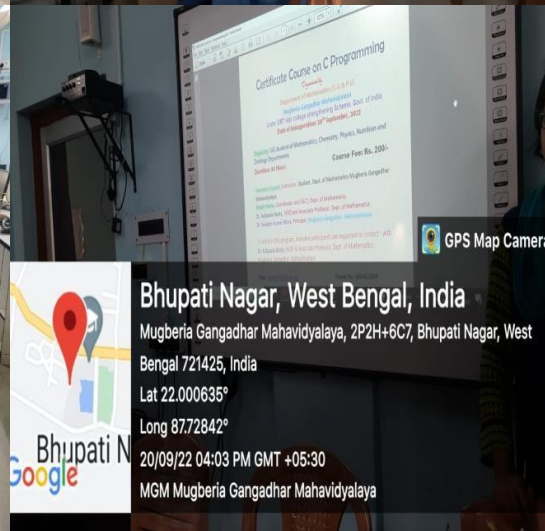
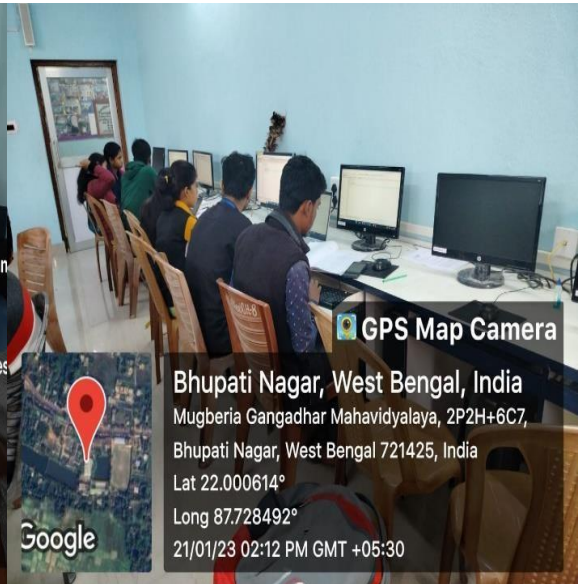
A Skill Development Certificate Course On “**MATLAB**” on 8thSeptember 2022– 16th January2023

<https://www.mugberiangangadharmahavidyalaya.ac.in/images/certificate/1679140725MATLAB%202022-23.pdf>



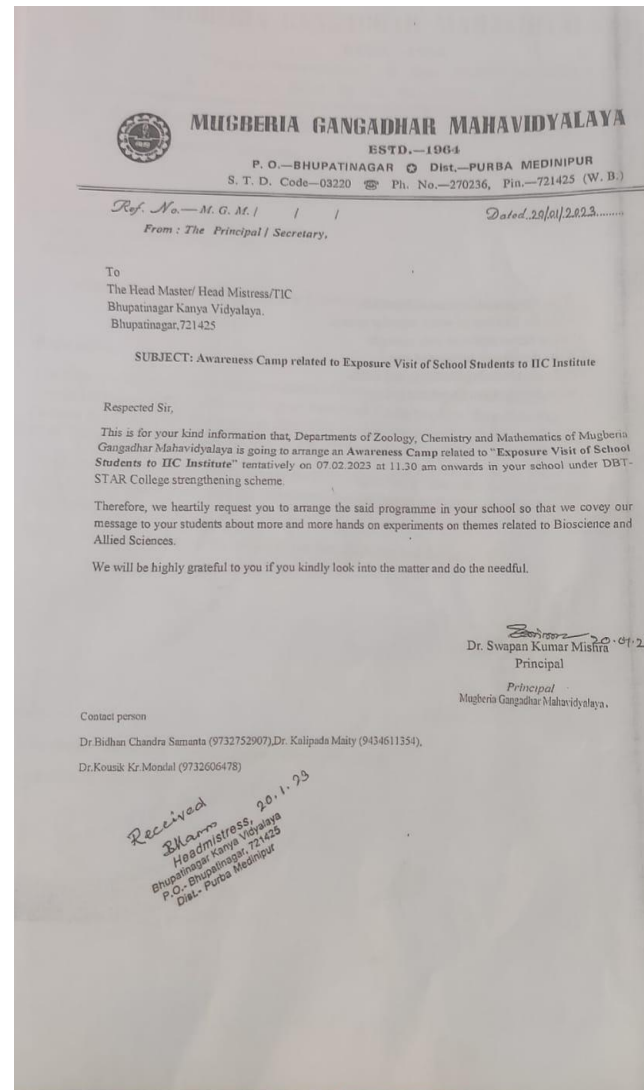
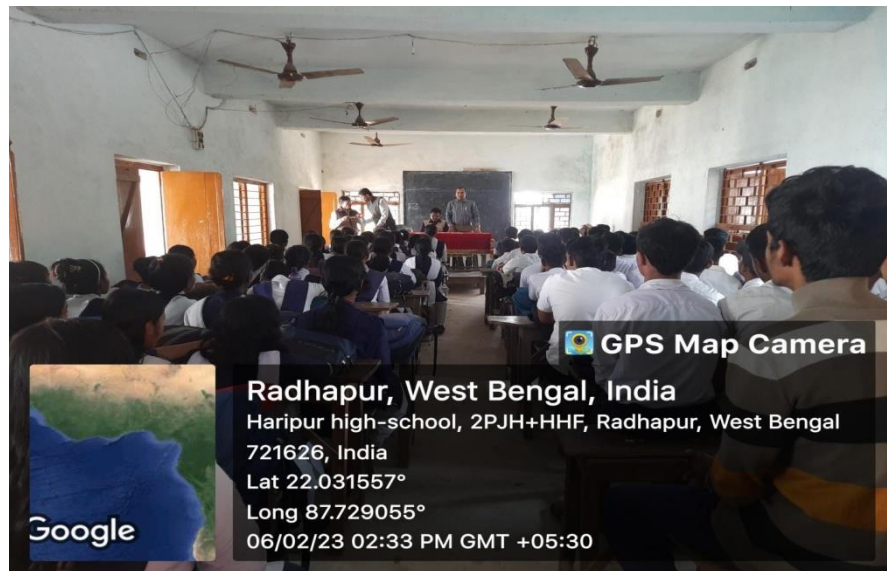
Certificate Course On “C Programming” on 20th September 2022– 21st January, 2023

https://www.mugberiangadharmahavidyalaya.ac.in/images/certificate/1679140823C-language1_2022-23.pdf



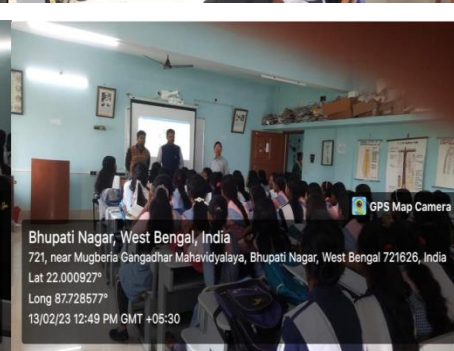
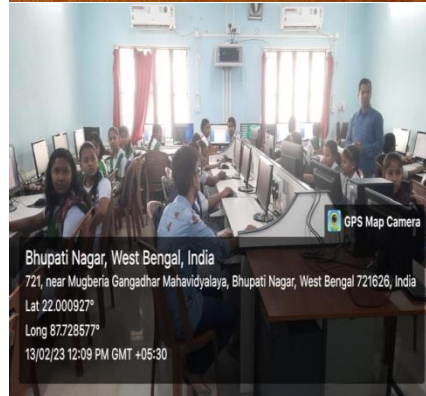
Report of Organizing Innovation & Entrepreneurship Outreach Program in Schools on 6th to 10 February 2023

<https://www.mugberiangangadharmahavidyalaya.ac.in/Files/16946968727.pdf>

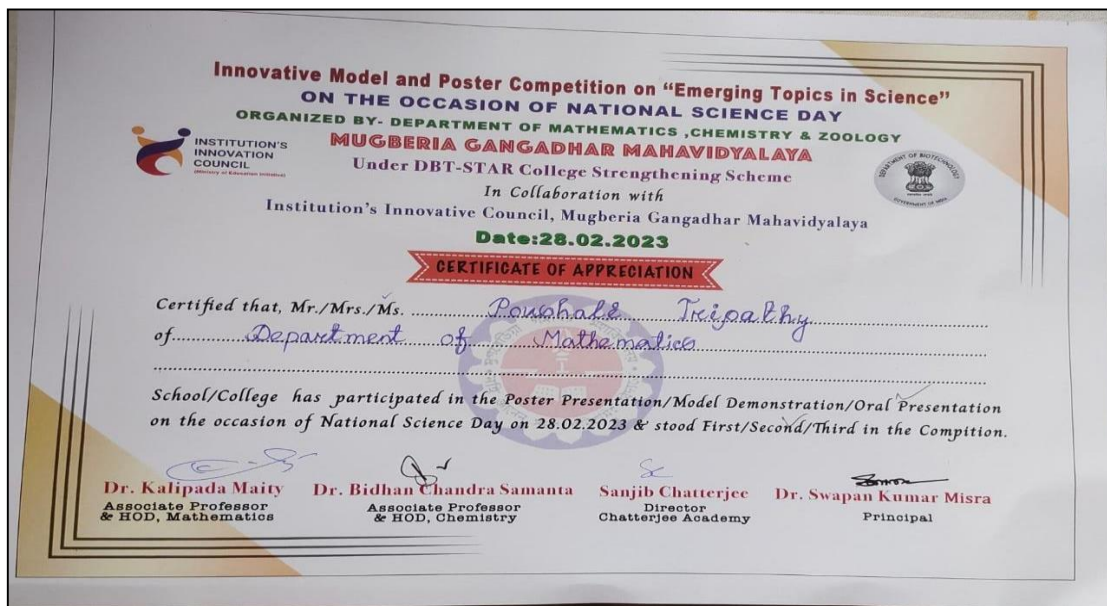
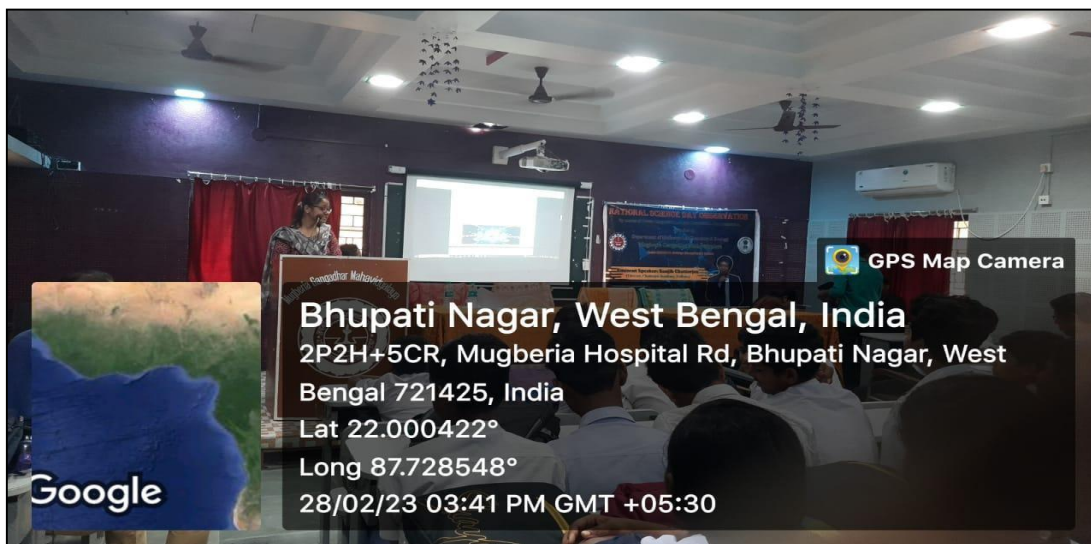


Outreach Program : Special Winter Camp on “Exposure Visit of Local School Students to Science Lab and Workshop on some Hands-on-Experiments” on 13th, 15th, 20th, 21st February 2023

<https://www.mugberiangangadharmahavidyalaya.ac.in/Files/1681201964Outreach%20Prog.pdf>



PPT Presentation on “Roll of Mathematics in modern technology and sustainable development” by Poushali Tripathi, Mathematics on 28th February 2023



Observation of International Mathematics Day on 14th March 2023

<https://www.mugberiangangadharmahavidyalaya.ac.in/Files/1679404342Int.pdf>



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.mugberiangangadharmahavidyalaya.ac.in

OBSERVATION OF INTERNATIONAL MATHEMATICS DAY

Organized by

Department of Mathematics (UG & PG)

Mugberia Gangadhar Mahavidyalaya

Under

DBT Star College Strengthening Scheme, Govt. of India

Event : Quiz Competition

Programme Coordinator : Dr. Manoranjan De

Assistate Professor :: Dept of Mathematics

Place : Pythagorus Hall (237)

Time 2.00PM to 4.30PM

14 March, 2023



MUGBERIA GANGADHAR MAHAVIDYALAYA

P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA
NAAC Re-Accredited B-Level Govt. aided College
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DBT Star College Scheme Award Recipient

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

Date: 07-03-2023

Department of Mathematics

Notice

This is to hereby notify all the students that the dept. of Mathematics, Mugberia Gangadhar Mahavidyalaya will celebrate the "INTERNATIONAL MATHEMATICS DAY" at 2.00PM on 14 March, 2023, through offline mode.

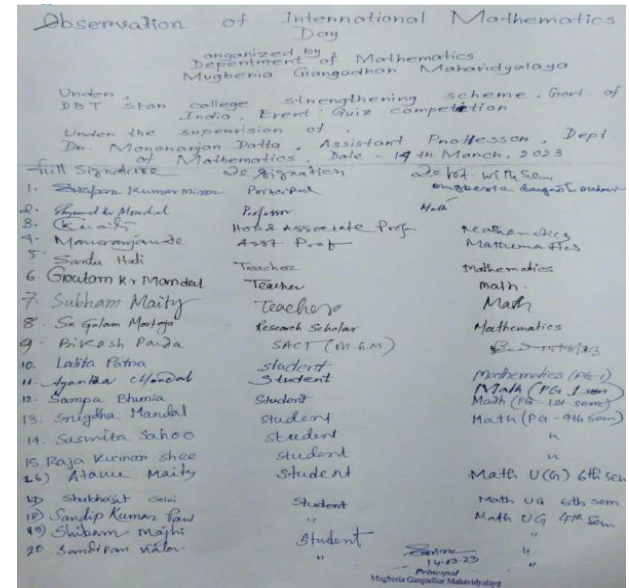
All the students of our college especially of our dept. UG & PG Students are requested to be present in this program.

Dr. Kalipada Maity,

HOD& Associate Professor

Dr. Swapan Kumar Misra

Principal,



Day : 14.03.2023 (Tuesday) 2:00PM to 4:30PM			
Time	Speaker	Topic	Place
02:00pm - 02:15 pm	Dr. Swapan Kumar Misra, Principal, MugberiaGangadharMahavidyalaya	Inaugural Speech	Pythagorus Hall (237)
02:15pm - 02:30 pm	Dr. Manoranjan De Assistate Prof., Dept. of Mathematics.	Welcome Speech	Pythagorus Hall (237)
02:30pm- 02: 45pm	Dr. KalipadaMaity, Associate Professor, Head, Department of Mathematics	Significant of International Mathematics Day, also known as π Day.	Pythagorus Hall (237)
02:45 pm - 03:15 pm	Prof. Shymal Kumar Mondal, Dept of Mathematics , Vidyasagar University	Significant of π day	Pythagorus Hall (237)
03:15 pm - 03:30 pm	Sanchayan Laha	Important of π Day.	Pythagorus Hall (237)
56 Students (Male -32 and Female-24)			



Wall Magazine: Mathematical Diary on 21th March, 2023

<https://www.mugberiangadharmahavidyalaya.ac.in/Files/1704358617wall%20magazine%202023.pdf>

Wall Magazine Report

Total number of
Participants:95 (Male:40,

Title: Mathematical Diary
Year of Publication: 2023 (march)



Inaugurated by: Dr. Swapan Kumar Misra,
Principal, MGM

Convener: Mr Hiranmoy Manna

Published by: Department of Mathematics
(UG & PG)

Financially Helped by: DBT STAR COLLEGE
SCHEME

Other person presents:
Dr. Kalipada Maity (HOD (Dept. of Mathematics))
Dr. Bidhan Chandra Samanta (HOD dept. of chemistry)
Dr. Prasenjit Ghosh (HOD Dept. of History)
Dr. Manoranjan De (Dept. of Mathematics)
Suman Kumar Giri (Dept. of Mathematics)
Debraj Manna (Dept. of Mathematics)
Hiranmoy Manna (Dept. of Mathematics)
Bikash Panda (Dept. of Mathematics)
Madhumita Sahoo Giri (Dept. of Mathematics)
Santu Hati (Dept. of Mathematics)
Goutam Kumar Mondal (Dept. of Mathematics)

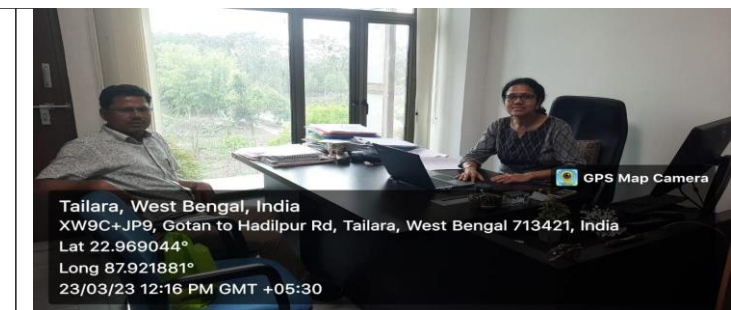
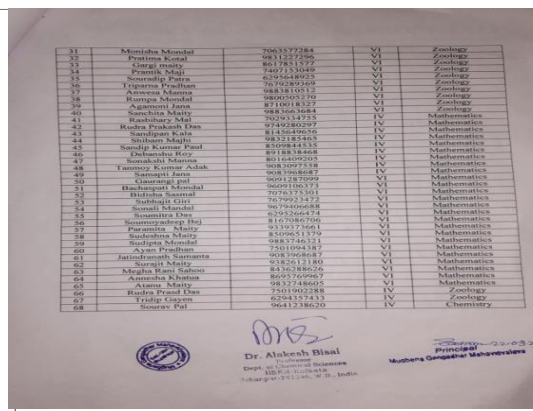
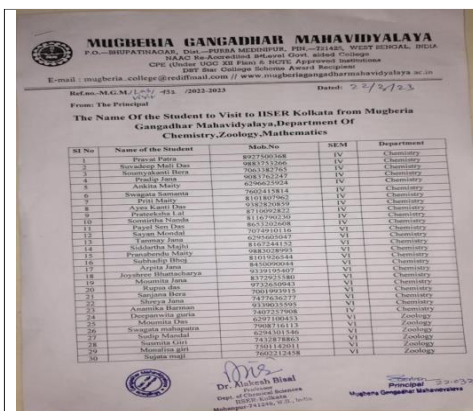
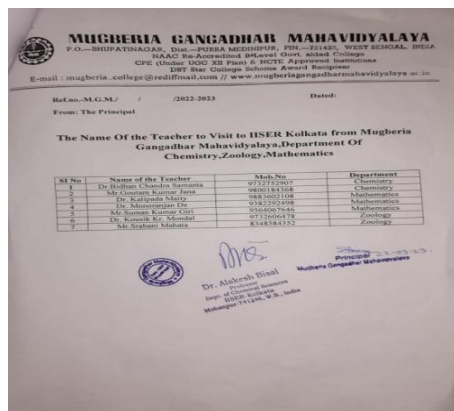
Life Skill Orientation Program “Meditation and Mindfulness” on 4th to 28th March 2023

<https://www.mugberiangadharmahavidyalaya.ac.in/images/CBP/1680265510Report%20on%20Meditation%20and%20Mindfulness-1.pdf>



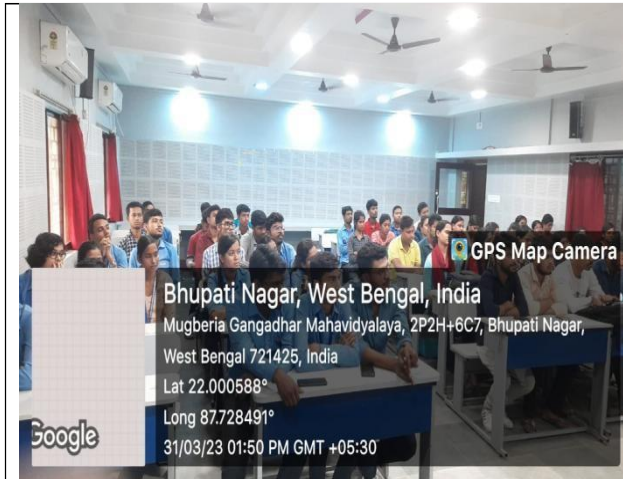
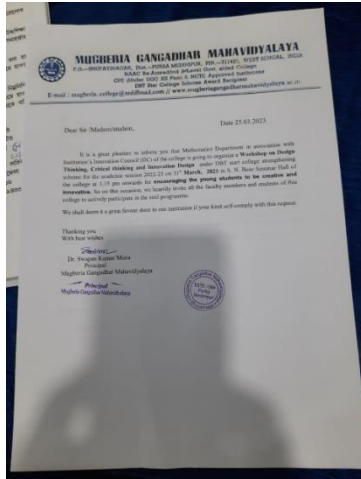
An educational visit to Indian Institute of Science Education and Research Kolkata

On 23rd March, 2023



Life Skill Program “Workshop on Design Thinking, Critical Thinking & Innovation Design” on 31st March 2023

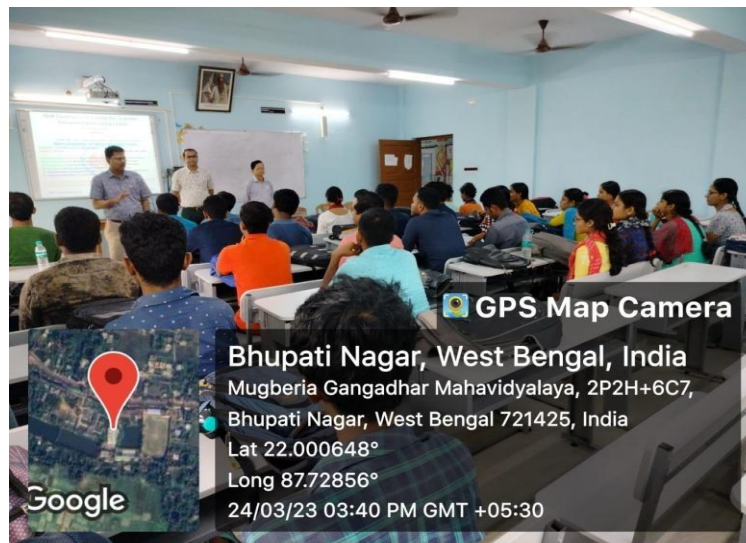
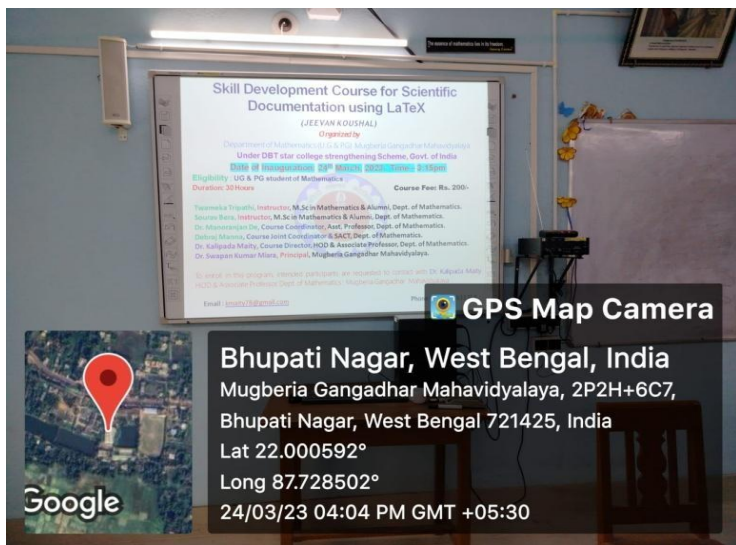
<https://www.mugberiangangadharmahavidyalaya.ac.in/images/CBP/1686731425IIC%2031.03.2023.pdf>



Skill Development Course for Scientific Documentation using LATEX

On 24th March, 2023 to 3rd June, 2023

<https://www.mugberiangadharharmahavidyalaya.ac.in/images/certificate/1685794302Report%20onCertificate%20Course%20in%20LATEX%202023.pdf>



Equipment procured for the proposed new practical

Experiments	Procured Equipment
For UG 2 nd sem, PG 1 st sem, pg 4 th sem practical. Also for Research scholar.	MATLAB software
Smart classroom and digital learning for UG and PG section.	LCD projector (Epson 530)
Smart classroom and digital learning for UG and PG section.	Microphone with sound system
For online seminar, online career counselling program and online classes.	Webcam (hp)
For smart classroom and faster writing.	White Board with Magnetic Duster
For documentation of all the files of DBT program	Almirah
For UG 1 st & 3 rd SEMs, PG 1 st & 2 nd SEMs practical and for PG 4 th SEM project, also for research scholar.	Desktop core i7 10th generation HP
Drag and drop pages of existing PDFs to change the page order or combine pages from different PDF documents to build a completely new one.	PDF Editor (1 user)
For drawing, writing, sketching, etc.	Writing pad

Impact of the Star College Scheme

Sl No	Indicator	Pre-support	During/After support			Remarks
			2020-21	2021-22	2022-23	
1	No. of applications for admission	60	75	80		Increasing
2	Pass percentage	100	100	100		100
3	Dropout Rates	12%	10%	8%		Decreasing
4	No. of students opting for M. Sc.	14	16	19		Increasing
5	Awareness of DBT JRF exam	Not aware	Aware but not applied			

Impact of the Star College Scheme

Number of students qualified Inspired fellowship, NET/SET, GATE & JAM

Exam/fellowship	2020	2021	2022	2023
Inspired				5
NET/SET		2	2	1+1
GATE		7	3	2
JAM	1	2	4	5

University Rank Holder Name	Course Completed	Holding Position	Year
Megha Santra (Gold Medalist)	B.Sc. (Hons.) CBCS	1 st	2022
Subhajit Jana (Silver Medalist)	B.Sc. (Hons.) CBCS	2 nd	2022

Interdisciplinary/departmental projects executed by the students

Group	Project Title	Student Name	Mentor Name	Year of submission
1	Modelling the effect of immune protection and vaccination against COVID19	<ul style="list-style-type: none"> • Debmalya Mishra • ShamikHait • MadhusudanMidya 	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"> • Sangita Paul • Tapas Sheet • Satyaki Adak 	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"> • Manish Acharyya • Moumita Sahoo • Chandan Giri 	Mr.SantuHati 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"> • Sudipa Khatua • Gopal Das • Seuli Dey 	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"> • Sk Sajahan • Tuhina Giri • Ranita Giri 	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"> • Durga Mandal • Gayatri Jana • Gouranga Bera 	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"> • Pallabita Maity • SimaBhunia • Ansar Ali Khan 	Dr.Anupam De Associate Professor dept. Of Mathematics, HIT	2021
8	Visceral leishmaniasis and control strategies	<ul style="list-style-type: none"> • Bidhan Chandra Jana • Sanju Sinha • Suman Manna 	Dr. Debnarayan Khatua Associate Professor dept. Of Mathematics,	2021
9	Multi-item 4 dimensional transportation problem	<ul style="list-style-type: none"> • Madhuri Bera • Supriti Si • AsharaniManna 	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"> • Chayan Pradhan • Nilanjan Pramanik • Ramnarayan Payra 	Mr. Bikash Panada SAC Teacher of dept. of Mathematics	2021

Interdisciplinary/departmental projects executed by the students

Group	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"> • PritamNayak • Udita Sahoo • ArijitMaity 	Dr.Manoranjan 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"> • SubhenduBhunias • HarekrishnaMaity • SupriyaBisai 	Dr.Manoranjan De Assistant Professor Dept of Mathematics MGM	2022
3	Fuzzy Multi-Objectives 4-dimensional Transportation problems	<ul style="list-style-type: none"> • Surya SekharGiri • Subha Pradhan • SanjibDey 	Dr.Manoranjan De Assistant Professor Dept of Mathematics MGM	2022
4	Application of Lie Algebra in Artificial Intelligence	<ul style="list-style-type: none"> • Susmita Pal • SrikrishnaNayek • Sangita Das 	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"> • SubhaGhorai • Biswaranjan Manna • AnupamaKhatua 	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"> • SouravBera • Uttam Sen • AnasuaMaiti 	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"> • ParthapratisMaha • Susmita Pahari • GouriSankar Mandal 	Dr.KalipadaMaity HOD & Associate Professor Dept of Mathematics MGM	2022

Interdisciplinary/departmental projects executed by the students

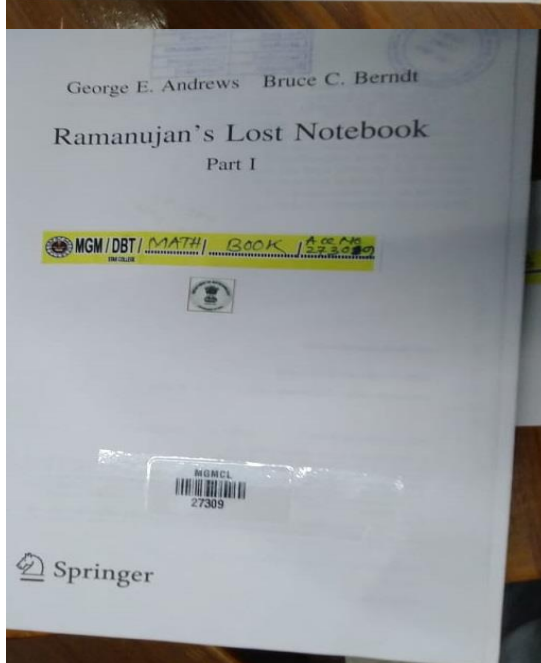
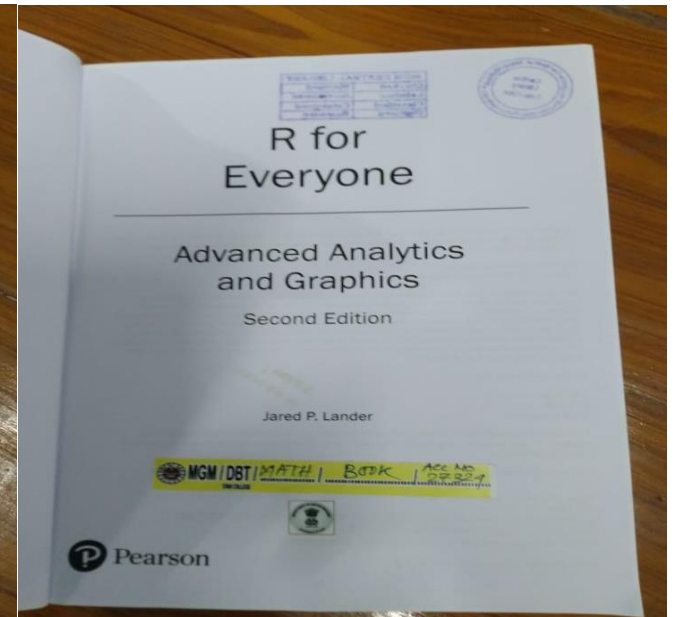
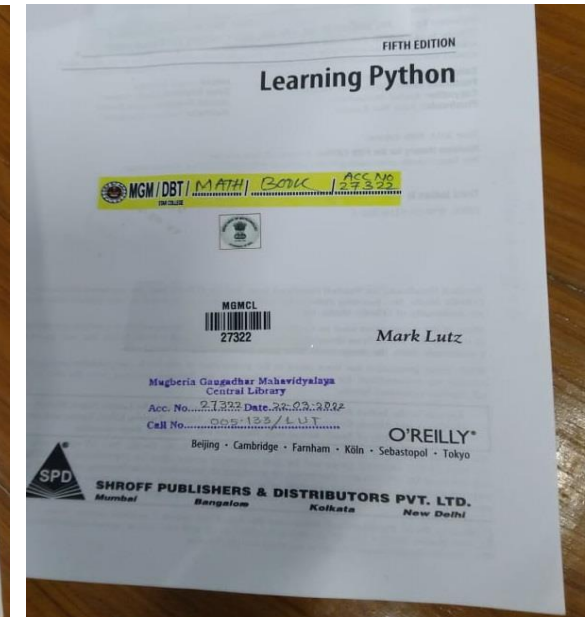
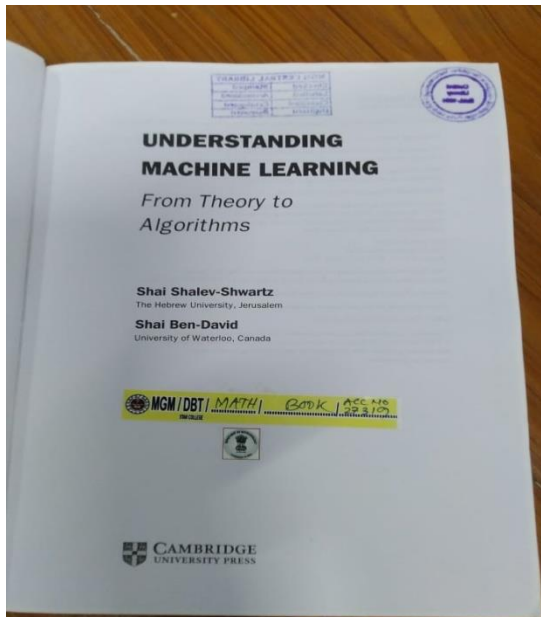
Group No	Title	Name of the students	Mentor Name	Year of submission & Presentation
8	Pollution control optimal multi-objective inventory model of product process innovation with stock depend demand and gathering knowledge accumulation in finite horizon	<ul style="list-style-type: none"> • Anup Mandal • SaikatGayen 	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"> • Swarnendu Pradhan • Sayani Sinha • Kuheli Mandal 	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"> • Debasish Pahari • Anal Mishra • SurajitBhanja 	Dr.Anupam De Associate Professor dept. Of Mathematics, HIT	2022
11	Galois Theory	<ul style="list-style-type: none"> • Gurupada Jana • Basudev Maity • Sayantani Maity 	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"> • TwamekaTripathi • AnanyaPattanaya k • MoumitaTunga 	Dr.Kalipada Maity 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"> • SougataBera • Shantigopal Jana • SkTowkirAlam 	Mr. Goutam Mandal Contractual Assistant Professor Dept of Mathematics MGM	2022

Budget Expenditure

Item	Grants received from DBT during 1st and 2nd years in lakh	Expenditure incurred during 1st and 2nd years in lakh	Balance in lakh	Remark
1. Non-Recurring	10.00	10.00	0.00	Purchase of equipments
2. Recurring	6.00	6.00	0.00	Purchase of chemicals and glass apparatus
Total	16.00	16.00	0.00	

Assets acquired by the department under this scheme

S. No	Name of Equipment	Item wise Cost (In Rs.)	Date of purchase of equipments
1	Desktop core i7 10 th generation HP, 5 pcs	65136/-	31.03.21
2	Matlab software with tools, 7 pcs	77290/-	31/03/21
3	LCD projector (Epson 530), 1 pcs	72960/-	26.02.21
4	HP Laser jet printer (M1005), 1 pcs	18000/-	26.02.21
5	PDF Editor (1 user), 2 pcs	14200/-	16/03/21
6	Microphone with sound system	99999.99/-	17/03/21
7	Headphone(hp), 30 pcs	1000/-	16/03/21
8	Writing pad, 2 pcs	8099/-	17/03/21
9	Webcam (hp), 10 pcs	1800/-	16/03/21
10	Plagiarism Software, 1 pcs	32000/-	16.03.21
11	Quick Heal Antivirus(10 user 3 years security) 3 pcs	5066.67/	16.03.21
12	Software(MS Office-365, for 1 year), 1 pcs	3900/	16.03.21
13	Pendrive(64 gb) 9 pcs	720	16.03.21
14	Hard Disk(external-1 tb) 1 pcs	4800/-	16.03.21
15	Software(grammarly grammar check software), 1 pcs	14000/-	16.03.21
16	White Board with Magnetic Duster(6×4 ft), 2 pcs	5200/-	16.03.21





writing pad

Importer : Wacom India Pvt. Ltd.
Address :426, DLF Building Tower B, Jasola District
Centre, Mathura Road, New Delhi-110025
Number of Units / Quantity : 1 N
Common / Generic Name : Computer Digitizer / One by
Wacom_M_CTL-672/K0-CX
Month and year of Import : Jun-21
MRP : Rs. 8,099.00 (incl. of all taxes)
Country of Manufacture : China
For Customer complaints/feedback, please contact : Wacom
India Pvt. Ltd.,
Email : support@wacom.com | Service Support : 18001037412

Writing pad



Headphones



Almirah



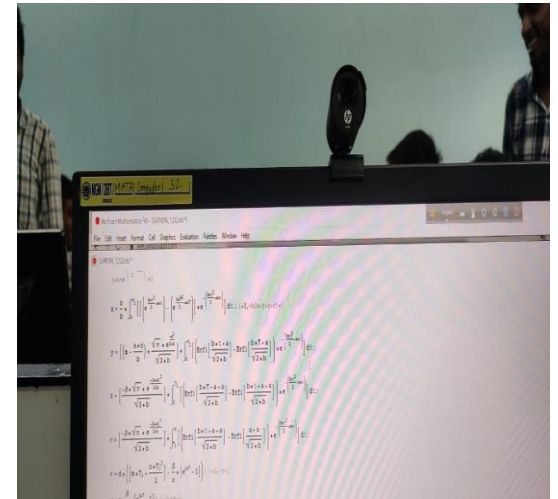
Printer(HP)



Pendrives(64 gb)



Pendrive(64 gb)



Webcam(HP)



LCD Projector



Hard Disk (1 tb)