

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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Wall Magazine, Department of Physics

INTRODUCTION

In the realm of intellectual expression, the Wall Magazine serves as a captivating canvas for students, allowing them to showcase their artistic prowess and share intriguing and informative content with their peers. Our Wall Magazine, christened "CELESTIAL" goes beyond the confines of the traditional curriculum, placing a strong emphasis on the multifaceted development of learners. At the heart of this endeavor lies the commitment of the Physics Department at Mugberia Gangadhar Mahavidyalaya to nurture not only scholastic pursuits but also non-academic facets. Published annually, "CELESTIAL" becomes a conduit for uplifting, recognizing, and inspiring students in their literary journey.

VISSION

- Cultivate Curiosity
- Inspire Creativity
- Foster Collaboration
- Showcase Scholarly Achievements
- Bridge Theory and Application
- Encourage Scientific Inquiry
- Promote Inclusivity
- Cultivate Lifelong Learners
- Enhance Communication Skills
- Strengthen the Physics Community

The inaugural publication of 'CELESTIAL' transpired in November 2018 under the initiative of third-year students from the Department of Physics. Teachers meticulously supervised each student, providing guidance throughout the preparation process of the magazine. Following the precedent set in 2018, the outgoing students undertake the responsibility for the creation of the wall magazine each year. The tabulated information below provides a chronological account of the details for each respective academic year.

CELESTIAL 1.0

Year of publication: 2018

Inaugurated by: Dr. swapan Kumar Misra; Principal,
 Convener: Arpita Das (HOD, Department of Physics)
 Member:

1. Gourchand Manna
2. Rupam Mal
3. Sourav Panda
4. Silpa Maity

Sl. No.	Student Name	Year	Name of Mentor	Title
1	Arpita Pradhan	3 rd	Sourav Panda	Cosmic Expansion
2	Arunava Bera	3 rd	Rupam Mal	Dark Matter
3	Satakshi Mahapa	3 rd	Gourchand Manna	Chandrayaan-1

CELESTIAL 2.0

Year of publication: 2019

Inaugurated by: Dr. swapan Kumar Misra; Principal,
Convener: Arpita Das (HOD, Department of Physics
Member:

1. Gourchand Manna
2. Rupam Mal
3. Sourav Panda
4. Debasish Das

Sl. No.	Student Name	SEMESTER	Name of Mentor	Title
1	Arindam Maity	VI	Sourav Panda	Galaxies
2	Atanu Mali	VI	Rupam Mal	Cosmology
3	Basudev Bar	VI	Gourchand Manna	Boomerang Nebula
4	Bipasa Dinda	VI	Debasish Das	Stephen Hawking Biblioghphy
5	Joydeb Jana	VI	Rupam Mal	Comet Hartley
6	Pritam Nanda	VI	Sourav Panda	Star Caught Swallowing a Planet
7	Rabin Roy	VI	Sourav Panda	Giant Planets around small stars
8	Subhasis Jana	VI	Arpita Das	Bright Galaxies You Can't See
9	Tiyasa Panda	VI	Gourchand Manna	Meteors
10	Ranjan Pramanik	VI	Rupam Mal	Exoplanets
11	Ranjit Sau	VI	Arpita Das	Black Hole Ate Too Much
12	Sayan Tripathy	VI	Debasish Das	Holography
13	Tapas Roy	VI	Rupam Mal	"Magnificent" Neutron Star Found

CELESTIAL 3.0
Year of publication: 2020

Inaugurated by: Dr. swapan Kumar Misra; Principal,
Convener: Wadut Shaikh (HOD, Department of Physics)
Member:

1. Gourchand Manna
2. Rupam Mal
3. Sourav Panda
4. Debasish Das
5. Arpita Das

Sl. No.	Student Name	SEMESTER	Name of Mentor	Title
1	Sk Abdul Rahim Ali	VI	Gourchand Manna	Black Body radiation
2	Sujit Singha	VI	Debasish Das	Black Hole

CELESTIAL 4.0

Year of publication: 2021

Inaugurated by: Dr. swapan Kumar Misra; Principal,
Convener: Dr. Wadut Shaikh (HOD, Department of Physics)
Member:

1. Gourchand Manna
2. Rupam Mal
3. Sourav Panda
4. Debasish Das
5. Arpita Das

Sl. No.	Student Name	SEMESTER	Name of Mentor	Title
1	Animesh Das	I	Gourchand Manna	Fundamental Forces
2	Subhadip Sasmal	I	Debasish Das	Young Experiment
3	Susabham Das	I	Dr. Wadut Shaikh	Gravitational Force
4	Sudipta Giri	I	Arpita Das	Black Body
5	Anusmriti Pradhan	I	Rumap Mal	Raman effect
6	Soumyadeep Kayet	I	Sourav Panda	Quarks Model
7	Subhadip Panda	I	Gourchand Manna	Carnot cycle
8	Krishnendu Sekhar Mondal	I	Rupam Mal	Steam engine

CELESTIAL 5.0
Year of publication: 2022

Inaugurated by: Dr. swapan Kumar Misra; Principal,
Convener: Dr. Wadut Shaikh (HOD, Department of Physics)
Member:


1. Gourchand Manna
2. Rupam Mal
3. Sourav Panda
4. Debasish Das
5. Arpita Das

Sl. No.	Student Name	SEMESTER	Name of Mentor	Title
1	SWARGAM BERA	VI	Rupam Mal	What is inside black holes?
2	ARUP MAITY	VI	Debasish Das	Man on the moon mission
3	SATYAPRIYA MONDAL	VI	Rupam Mal	Laws of Thermodynamics
4	SAYANTAN PRADHAN	VI	Arpita Das	Black Body
5	BANDANA PRADHAN	VI	Rumap Mal	Raman effect
6	SUBHADIP PRAMANIK	VI	Sourav Panda	An Intro of Dark Matter
7	SREYA DAS	VI	Gourchand Manna	Carnot cycle
8	SWAGATAM MAITY	VI	Dr. Wadut Shaikh	Blackbody Radiation
9	GOPAL BERA	VI	Dr. Wadut Shaikh	Plank distribution
10	SULEKHA MAITY	VI	Gourchand Manna	Radiation detector
11	TANMAY DAS	VI	Debasish Das	Shell Model

DEPARTMENT OF PHYSICS

WALL MAGAZINE


THE MILKY WAY GALAXY



RELATIVITY


Dark Matter

Our Brain Waves Can be Deciphered by Electrical Activity, Scientists Find




M O M.

HOLOGRAPHY



Stephen Hawking's Holography



COSMIC EXPANSION



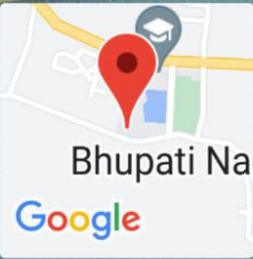
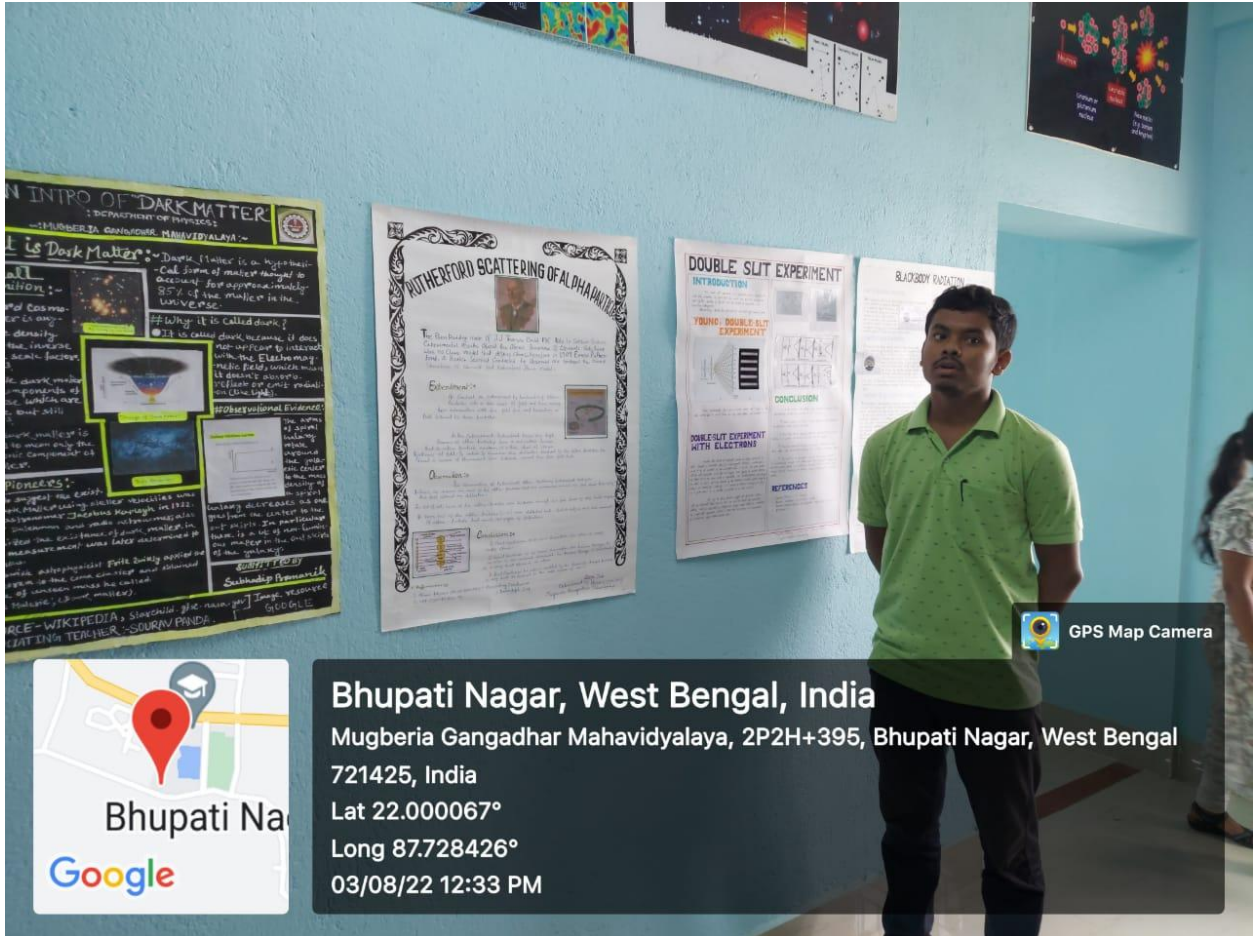




GPS Map Camera



Bhupati Nagar, West Bengal, India
Mugberia Gangadhar Mahavidyalaya, 2P2H+395, Bhupati Nagar, West Bengal
721425, India
Lat 22.000306°
Long 87.72847°
03/08/22 12:44 PM



Bhupati Nagar, West Bengal, India


Mugberia Gangadhar Mahavidyalaya, 2P2H+395, Bhupati Nagar, West Bengal
721425, India

Lat 22.000067°

Long 87.728426°

03/08/22 12:33 PM

GPS Map Camera



Stephen Hawking's Biography

Alma mater :- University of Oxford (BA), University of Cambridge (PhD)

Other academic Advisors :- Robert Oppenheimer

Residing Place :- Westminster Abbey, Westminster, London

Theory :- Properties of expanding Universes (1982)

Hawking was the first to set out a theory of cosmology, explaining a union of the general theory of relativity and quantum mechanics, the space-time curvature of the many world interpretation of quantum mechanics.

A Brief History of Time :- From the Big Bang to Black Holes is a popular science book on cosmology by British physicist Stephen Hawking. The Universe in a Nutshell, The Grand Design, The Shape of Space, The Universe in a Flash, and The Universe Next Time are other books by Hawking.

Bipasha Dinda
(3rd sem.)

Here's where things get a little trippy. Before it was a TV show, the Big Bang theory was an important explanation for the origin of our universe. Basically, the universe started as an explosion. Debris (planets, stars, etc) was flung around in all directions, driven by the enormous energy of the blast. Because all of this debris is so heavy, we would expect this explosion to slow down after a while.

Here's the catch: it hasn't slowed down at all. In fact, the universe is expanding faster over time. This is as crazy as if you threw a ball that kept getting faster and faster, never falling back to the ground. The prevailing explanation for this is that force exerted by dark matter and energy is propelling cosmic expansion.

The expansion of the universe is the increase of the distance between two distant parts of the universe with time. It is an intrinsic expansion where by the scale of space itself changes. The universe does not expand "into anything" and does not require space to exist "outside" it. Technically, neither space nor objects in space move. Instead it is the metric governing the size and geometry of spacetime itself that changes in scale. Although light and objects within spacetime cannot travel faster than the speed of light, this limitation does not restrict the metric itself.



COSMIC EXPANSION

Arpita Pradhan
(3rd Year)