


Number of students undertaking field projects / research projects / internships during the year

(i) 2021-2022: 36

(ii) 2022-2023: 10

Details for 2021-2022:

 <b>GAUHATI UNIVERSITY, ASSAM</b> <b>ATTENDANCE SHEET</b> <b>(Semester-4)</b>				
NAME OF EXAMINATION		: M.Sc. 4Sem		
CENTER OF EXAMINATION		: 826-Physics		
PAPER NAME		: Project/Dissertation		
PAPER CODE		: PHY4138		
DATE OF EXAMINATION		: 07.07.2022		
(To be filled by the Examination Center)				
REGULAR PAPER STUDENTS				
S.NO.	ROLL NO.	STUDENT NAME	FATHER NAME	SIGNATURE
1	PS-201-826-0012	ABHIJIT TALUKDAR	KUMUD TALUKDAR	<i>Abhijit Talukdar</i>
2	PS-201-826-0014	BEDANTA KUMAR DEKA	TOLAN CHANDRA DEKA	<i>Bedanta Kumar Deka</i>
3	PS-201-826-0017	CHUMURANJAN DUTTA	PISPA DUTTA	
4	PS-201-826-0018	DEBOJIT PAUL	RANJIT PAUL	<i>Debojit Paul</i>
5	PS-201-826-0019	DEEPSHEKHAR ROY	NITAI CHANDRA ROY	<i>Deepshekar Roy</i>
6	PS-201-826-0023	DIPANKAR RAY	NARENDRA NATH RAY	<i>Dipankar Ray</i>
7	PS-201-826-0025	INDRANEE CHANGMAI	LATE BIMAL CHANGMAI	<i>Indranee Changmai</i>
8	PS-201-826-0028	JITUMANI KALITA	PRATUL KALITA	<i>Jitumani Kalita</i>
9	PS-201-826-0029	JOYDEEP DAS	DIPAK KUMAR DAS	<i>Joydeep Das</i>
10	PS-201-826-0030	JOYSHREE BORAH	GOKUL CHANDRA BORAH	<i>Joyshree Borah</i>
11	PS-201-826-0032	JYOTISHITA CHOUDHURY	KANAK CHOUDHURY	
12	PS-201-826-0033	KANGKANA HAZARIKA	UMAKANTA HAZARIKA	<i>Kangkana Hazarika</i>
13	PS-201-826-0035	MEGHA CHOUDHURY	MUNINDRA CHOUDHURY	<i>Megha Choudhury</i>
14	PS-201-826-0036	NIKUMANI SARMAH	BIREN SARMAH	<i>Nikumani Sarma</i>
15	PS-201-826-0038	NIVAMANI RAJBONGSHI	DHIREN RAJBONGSHI	<i>Ni Kumani Rajbongshi</i>
16	PS-201-826-0039	PALLAB PATHAK	PRADIP KUMAR PATHAK	
17	PS-201-826-0043	PRASANTA KUMAR NATH	PHULENDRA KUMAR NATH	<i>Prasanta K. Nath</i>
18	PS-201-826-0044	SAGAR PAUL	PRADIP PAUL	<i>Sagar Paul</i>
19	PS-201-826-0046	SOMARPANA THAKURIA	KAMAL LOCHAN THAKURIA	

20	PS-201-826-0047	SAMIAT BISWAS	SANTANU BISWAS	<i>Samrat Biswas</i>
21	PS-201-826-0048	SANCHITA SARKAR	SAMBHU SARKAR	<i>Sanchita Sarkar</i>
22	PS-201-826-0050	SANJEEB CHOUHAN	JYOTISH CHOUHAN	<i>Sanjeeb Chouhan</i>
23	PS-201-826-0056	SUSHMITA DEB	SUJIT DEB	<i>Sushmita Deb</i>
24	PS-201-826-0058	TANIYA MONJARI SONOWAL	JAYANTA SONOWAL	<i>Taniya Monjari Sonowal</i>
25	PS-201-826-0061	ZAKIR HUSSAIN	JOYNAL ABE DIN	<i>Zakir Hussain</i>

No. of Present Candidate(s) \_\_\_\_\_

No. of Absent Candidate(s) \_\_\_\_\_

Name of the Invigilators

Signature

1. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

2. \_\_\_\_\_

Signature of Principal/office in-charge in  
(With Seal)

**Enrolled in internship during 01/07/2022 to 30/06/2022**

Sl. No.	Name	Institute	Date of Admission
1	Nasir Ahmed	Dr. B. Borooah Cancer Institute, Guwahati, Assam	06.12.2021
2	Madhurima Bordoloi	Dr. B. Borooah Cancer Institute, Guwahati, Assam	06.12.2021
3	Rajshekhar Agnivaishya	Mahamana Pandit Madan Mohan Malviya Cancer Centre, Varanasi, UP	01.01.2022
4	Ujjal Deka	Mahamana Pandit Madan Mohan Malviya Cancer Centre, Varanasi, UP	01.01.2022
5	Apurba Sarma	Homi Bhabha Cancer Hospital & Research Centre, Visakhapatnam, Andhra Pradesh	01.01.2022
6	Kiran Joshi	Tata Memorial Hospital, Mumbai, Maharashtra	01.01.2022
7	Kaustav Moni Kalita	Tata Memorial Hospital, Mumbai, Maharashtra	01.01.2022
8	Jyotsna Saikia	State Cancer Institute, Guwahati, Assam	01.01.2022
9	Bhakti Deb Nath	Homi Bhabha Cancer Hospital & Research Centre, Visakhapatnam, Andhra Pradesh	01.01.2022
10	Ritupan Gogoi	Homi Bhabha Cancer Hospital, Sangrur, Punjab	01.01.2022

*Simanta Hazarika*

(Dr. Simanta Hazarika)

Co-ordinator

Course: M.Sc. in Radiological Physics, Department of Physics, Gauhati University

15/12/22  
Assistant Professor  
Department of Physics  
Gauhati University

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Extraction of parameters of black hole metrics within and outside  
general relativity through the Galactic Centre black hole (Sgr  
A\*) shadow



Summer Project Report 2022

Under the supervision of  
**Dr. Sanjeev Kalita**  
Assistant Professor, Department of Physics  
Gauhati University

Submitted by  
Pranjali Bhattacharjee  
Birla Institute Of Technology, Mesra, Ranchi

Internship carried out at the:  
Department of Physics, Gauhati University, Guwahati, 781014  
July 2022

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Department of Physics  
Gauhati University  
Guwahati - 781 014  
Assam :: INDIA



Web: <https://gauhati.ac.in>

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Reference no.....

Date: 30/07/2022


**CERTIFICATE OF COMPLETION OF INTERNSHIP**

It is hereby to certify that Pranjali Bhattacharjee, student of Department of Physics, Birla Institute of Technology, Mesra, Ranchi who just completed the 8<sup>th</sup> semester of her Integrated MSc program, has carried out a summer research internship on the study "Extraction of parameters of black hole metrics within and outside general relativity through the Galactic Centre black hole (Sgr A\*) shadow" at Department of Physics, Gauhati University during 20<sup>th</sup> June - 30<sup>th</sup> July, 2022. With her immense dedication, perseverance, commitment and interest to explore new things in current trend of the field, she has successfully completed the internship and submitted a scientific report to the Department of Physics, Gauhati University after delivering a research colloquium on 30<sup>th</sup> July, 2022 in front of Astronomy & Astrophysics community. She could satisfactorily present her significant findings and defend her talk.

  
Dr. Sanjeev Kalita  
Internship guide  
Assistant Professor  
Department of Physics  
Gauhati University  
Department of Physics, Gauhati University, Guwahati-781014, Assam

Department of Physics  
Gauhati University  
Guwahati-781014  
Assam : India

Details for 2022-2023:

 <b>GAUHATI UNIVERSITY, ASSAM</b> <b>ATTENDANCE SHEET</b> <b>(Semester-4)</b>	
NAME OF EXAMINATION	: M.Sc. ,4Sem
CENTER OF EXAMINATION	: 826-Physics
PAPER NAME	: Project/Dissertation
PAPER CODE	: PHY4136
DATE OF EXAMINATION	: 2023
(To be filled by the Examination Center)	

**REGULAR PAPER STUDENTS**

S.NO.	ROLL NO.	STUDENT NAME	FATHER NAME	SIGNATURE
1	PS-211-826-0001	AALOK DAS	ANJAN DAS	<i>Aalok Das</i>
2	PS-211-826-0005	ALI HASAN SHEIKH	IMAN ALI SHEIKH	<i>Ali Hasan Sheikh</i>
3	PS-211-826-0010	BARASHA DEKA	PRAFULLA DEKA	<i>Barasha Deka</i>
4	PS-211-826-0014	BISWAJIT DEY	BHUSAN CHANDRA DEY	<i>Biswajit Dey</i>
5	PS-211-826-0017	DIBASH PLABAN KALITA	MANORANJAN KALITA	<i>Dibash P. Kalita</i>
6	PS-211-826-0023	ISHAN PATOWARY	BHUBANESWAR PATOWARY	<i>Ishan Patowary</i>
7	PS-211-826-0033	MRIGANKA SANDILYA	GAJEN SARMAH	<i>Mriganka Sandilya</i>
8	PS-211-826-0035	NIHA THAKURIA	MATILAL THAKURIA	<i>Niha Thakuria</i>
9	PS-211-826-0047	SEHJAL KHANDELWAL	RAJESH KHANDELWAL	<i>Sehjal Khandelwal</i>
10	PS-211-826-0053	TANMAY DEV	AKAN CHANDRA KARMAKAR	<i>Tanmay Dev</i>