

JAWAHARLAL NEHRU COLLEGE : BOKO
DEPARTMENT OF MATHEMATICS
Under DBT STAR Status

Academic Year 2021-22

The programmes run in this department are

1. H.S. (Under Assam Higher Secondary Education Council)
2. B.A./B.Sc. CBCS course (Honourse/Major and General) (Under Gauhati University)
3. M.A./M.Sc. CBCS course in Mathematics (Under Gauhati University)

The seat capacities for BA/B.Sc. 1st semester (Honours) and M.Sc. were 40 and 20 respectively but due to post covid condition the seats are increased to 50 & 30 in UG (Hon) & PG respectively.

The number of applicants for admission to B.Sc. 1st Semester and M.Sc. 1st semester and the number of enrolled students in this academic year are

Class/Course	Total Seat	No. of applicants
B.A./B.Sc. 1 st Sem-Honours	40	65
B.A./B.Sc. 1 st Sem-General	50	-
M.A./M.Sc. 1 st Sem	30	64

List of Students

First Year – Honours

Sl No	Class Roll No	Name	Sl No	Class Roll No	Name
1	3	Krishanka kalita	26	64	Sabbir hussain
2	4	Nikita chetry	27	68	Ashraful hussain
3	5	Devid tamuly	28	70	Bhargab kalita
4	7	Himangshu kalita	29	74	Shoriful uddin
5	9	Kaberi das	30	75	Koushik kalita
6	10	Deepu kumar rabha	31	82	Bhaimon rabha
7	14	Najir ali	32	83	Dibakar kalita
8	16	Pradip sarma	33	87	Samiksha rabha
9	17	Inzamamul hoque	34	89	Mintu rabha
10	19	Pranami kalita	35	90	Kalparanjan tulsary
11	20	Rahul malo	36	94	Nipa rabha
12	22	Uddhab ray	37	95	Ani rabha
13	24	Nekib ahmed	38	101	Himangshu kalita
14	27	Kaushik patowary	39	116	Najmin sultana
15	30	Ashish boro	40	118	Moidul islam
16	31	Priyanka rabha	41	121	Jayanta biswas
17	33	Sahajalal hoque	42	123	Bitupan rabha
18	34	Mrinmoy saloi	43	124	Sanidul hussain
19	36	Jupitara kalita	44	126	Rahul das
20	38	Dibakar rabha	45	138	Afjal ali
21	39	Nikita kalita	46	141	Ripan medhi
22	44	Nayanmani rangder	47	149	Manash talukdar
23	50	Navajyoti das	48	152	Pampi rabha
24	56	Lipika barman	49	157	Hiramoni das
25	58	Himashri das	50	159	Parinita choudhury

Second Year – Honours

Sl No	Class Roll No	Name		Sl No	Class Roll No	Name
1	1	Abhijit Kaibarta		19	113	Tafikur Rahman
2	2	Hriday Krishna Rabha		20	117	Ripa Das
3	6	Mohidul Islam		21	118	Bibhushan Kanti Barman
4	7	Suman Kumar Das		22	119	Aminul Khan
5	14	Arif Ali		23	124	Afjal Hoque
6	21	Rakesh Mandal		24	135	Bikram Rabha
7	27	Chiranjit Mandal		25	136	Linkan Das
8	59	Sanjib Biswas		26	157	Inamul Hoque
9	63	Vengkatesh Prasad Rabha		27	170	Sanju Das
10	69	Dipankar Deka		28	182	Himu Kalita
11	78	Kanjit Boro		29	185	Ranjita Choudhury
12	80	Moromi Ray		30	187	Trishnamoni Kalita
13	87	Jonmoni Das		31	197	Sunifa Begum
14	95	Jiban Chetry		32	198	Md Rakib Ali
15	96	Basanta Kumar Das		33	201	Chinmoy Kalita
16	97	Dipak Chetry		34	212	Arup Jyoti Patgiri
17	99	Pradanya Boro		35	219	Rabin Das
18	102	Ratul Sarkar				

Third Year – Honours

Sl No	Class Roll No	Name		Sl No	Class Roll No	Name
1	3	Mampa Ray		14	77	Bhabesh kumar Das
2	6	Chiranjit Baroi		15	99	Bhaiolina Choudhury
3	8	Sanjib kumar Das		16	105	Bhitali Choudhury
4	17	Baharul Islam		17	120	Sobison Rabha
5	18	Foridul Islam		18	123	Saurav Das
6	36	Jahanur Islam		19	129	Rejina Sultana
7	37	Rakesh Saha		20	134	Wahab Ali
8	38	Baser Uddin		21	135	Dilip Mandal
9	41	Pranab Nath		22	141	Ajabul Hoque
10	69	Rahul Das		23	144	Ashamoni Rabha
11	70	Jagdish Das		24	147	Ratul Das
12	71	Subrata Rabha		25	151	Lalmia Ahmed
13	73	Himasri Basumatary		26	165	Akshay Boro

M.Sc.

M.Sc. First Year			M.Sc. 2nd Year	
Sl No	Name		Sl No	Name
1	Nibha moni halo		1	Mrinal Sharma
2	Debashree saikia		2	Dhruba Jyoti Nath
3	Jesmima aktar		3	Sahida Khatun
4	Rimpy das		4	Pulakita Das
5	Aminul miah		5	Masud Hussain
6	Bibhuranjan goswami		6	Mominur Rahman
7	Mainamati das		7	Barenya Borkakoti
8	Neeta moni halo		8	Barnali Ray
9	Ashish dey		9	Shahirul Islam
10	Geetanjali das		10	Najnin Sultana

11	Shamsul huda	11	Rajita Sultana
12	Himusmita mudoi	12	Manshi Nandi
13	Kritartha kashyap	13	Jebolina Gogoi
14	Hirak jyoti haloi	14	Hiramba Rani Khakhalary
15	Sashanka rabha	15	Barnish Doley
16	Pranjit chakrabarty	16	Mrinal Doley
17	Wasim ali mannaf	17	Momi Kalita
18	Bornisha hazarika	18	Jenifa Sultana
19	Sohidul islam	19	Sabina Yesmin
20	Munmi kalita	20	Lipitara Sarma
21	Taslima ahmed	21	Sanowar Hussain
22	Ananya shilpi	22	Rupjyoti Das
23	Jyotirmoy barman	23	Niha Gogoi
24	Rupak raymedhi	24	Ritismita Kalita
25	Hemanta patgiri	25	Hirak Jyoti Nath
26	Mausumi begum	26	Brajen Kumar
27	Sikhamoni das	27	Chiranjit Hajong
28	Bivuti bhushan medhi	28	Ratan Barman
29	Pratik saha	29	Dhiru Das
30	Ankita kalita		

Infrastructure facilities of the Department:

- Class rooms – 04
- Computer Lab – 01 (with 20 desktops)
- Departmental Library – 01 (with 300 text and reference books)
- Interactive smart Board – 01
- Online UPS - 01
- Teacher's common room – 01
- Aqua guard for drinking water – 01
- Toilet – 02
- Wall magazine – 01

Faculty Strength:

Permanent Faculties

Sl. No	Name	Qualification	Designation	Special Papers	Period of Service
01	Dr. Dhiraj Kr Das	M.Sc. Ph.D, PGDCA	Asso. Prof.	Relativity	From Aug, 91
02	vacant				
03	Dr. Alok Das	M.Sc. Ph.D	Asso. Prof	Fluid Dynamics	From Nov, 96
04	Dr. Dipankar Sarma	M.Sc. Ph.D, B.Ed.PGDHRM	Asso. Prof.	Algebra, Topology	From Dec, 97

Temporary fulltime faculties

Sl. No	Name	Qualification	Designation	Special Papers	Period of Service
01	Mr. Dipu Moni Nath	M.Sc.	Asstt Professor	F Analysis. Algebra	From Nov,18
02	Mr. Naba Kalita	M.Sc.	Asstt Professor	Relativity, Numerical A.	From Sep, 19
03	Nayanmani Mazumder	M.Sc.	Asstt Professor	Space Dynamics	From Jan,21
04	Nabin Daimary	M.Sc.	Asstt Professor	Analysis, Comp	From Sep,21
05	Richa Kumari	M.Sc.	Asstt Professor	Machanics	From Nov,21 to Jan, 22
06	Mouchumi Boro	M.Sc.	Asstt Professor	Mechanics	From May,22

Mentor – Mentee Group Table:

Mentor Teacher	Class		
	B.Sc. 1 st year	B.Sc. 2 nd Year	B.Sc. 3 rd Year
Dr. D. K. Das	Krishanka kalita Himangshu kalita Najir ali Pranami kalita Nekib ahmed Priyanka rabha Jupitara kalita Nayanmani rangder Himashri das Bhargab kalita Bhaimon rabha Mintu rabha Ani rabha Moidul islam Sanidul hussain Ripan medhi Hiramoni das	Abhijit Kaibarta Suman Kumar Das Chiranjit Mandal Dipankar Deka Jonmoni Das Dipak Chetry Tafikur Rahman Aminul Khan Linkan Das Himu Kalita Sunifa Begum Arup Jyoti Patgiri	Mampa Ray Baharul Islam Rakash Saha Rahul Das Himasri Basumatary Bhiolina Choudhury Saurav Das Dilip Mandal Ratul Das
Dr. A. Das	Nikita chetry Kaberi das Pradip sharma Rahul malo Kaushik patowary Sahajalal hoque Dibakar rabha Nabajyoti das Sabbir hussain Shoriful uddin Dibakar kalita Kalparanjan tulsary Himangshu kalita Jayanta biswas Rahul das Manash talukdar Parinita choudhury	Hriday Krishna Rabha Arif Ali Sanjib Biswas Kanjit Boro Jiban Chetry Pradanya Boro Ripa Das Afjal Hoque Inamul Hoque Ranjita Choudhury Md Rakib Ali Rabin Das	Chiranjit Baroi Foridul Islam Baser Uddin Jagdish Das Bhabesh Kumar Das Bhitali Choudhury Rejina Sultana Ajabul Hoque Lalmia Ahmed
Dr. D. Sarma	Devid tamuly Dipu kumar rabha Injamul hoque Ashish boro Mrinmoy saloi Nikita kalita Lipika barman Ashraful hussain Koushik kalita Samiksha rabha Nipa rabha Najmin sultana Bitupan rabha Afjal ali Pampi rabha	Mohidul Islam Rakash Mandal Vengkatesh Prasad Rabha Moromi Ray Bsanta Kumar Das Ratul Sarkar Bibhushan Kanti Barman Bikram Rabha Sanju Das Trishnamoni Kalita Chinmoy Kalita	Sanjib Kumar Das Jahanur Islam Pranab Nath Subrata Rabha Sanjay Khataniar Sobison Rabha Wahab Ali Ashamoni Rabha Akshay Boro

Papers Taught in the department

B.A./B.Sc Honours Course

Semester	Paper 1	Paper II	Paper III	Paper IV
1 st Semester	Calculus(including practical)	Algebra		
2 nd Semester	Real Analysis	Differential Equations (including practical)		
3 rd Semester	Theory of Real Functions	Group Theory-I	Analytical Geometry	<u>SEC</u> - Computer Algebra
4 th Semester	Multivariate Calculus	Numerical Methods (including practical)	Ring Theory	<u>SEC</u> - R-Programming
5 th Semester	Riemann Integration and Metric spaces	Linear Algebra	<u>DSE</u> -Number Theory	<u>DSE</u> -C-programming
6 th Semester	Complex Analysis	Partial Differential Equations (including practical)	<u>DSE</u> -Hydromechanics	<u>DSE</u> - Rigid Dynamics

B.A./B.Sc Generic/Regular Course

Semester	Paper 1		Semester	Paper 1		Semester	Paper 1	Paper II
1 st Semester	Calculus		3 rd Semester	Differential Equations		5 th Semester	Number Theory	SEC- Combinatorics and Graph Theory
2 nd Semester	Algebra		4 th Semester	Real Analysis		6 th Semester	Numerical Analysis	SEC- LaTeX and HTML

M.A./M.Sc Course

Class/Paper	Paper I	Paper II	Paper III	Paper IV	Paper V
1 st Sem	Algebra	Mathematical Methods	Mechanics and Tensors	Real Analysis and Lebesgue Measure	Numerical Analysis
2 nd Sem	Complex Analysis	Topology	Functional Analysis	Number Theory	Differential Equations
3 rd Sem	Continuum Mechanics and Hydrodynamics	Special Theory of Relativity	Computer programming in C	Special Functions and Partial Diff Equations	Project
4 th Sem	Space Dynamics	Dynamical Systems and Fractal Geometry	Fluid Dynamics	General Theory of Relativity and Cosmology	

Record of Departmental Activities of the session :

Programme- 1

Online Lecture Series- Some Topics in Functional Analysis

Date: 30th June to 3rd July, 2021

Topic: 1: Some Aspects of Dual Spaces

2: A Study on Reflexive Normed Spaces

3: Separability in Normed Spaces and Related Properties

Resource Person: Dr. Nilakshi Goswami, Associate Prof. Dept. of Mathematics, Gauhati University.

Target Group: PG Mathematics students

No. of students : 29

Online Links for Google Class Room and Meet:

<https://classroom.google.com/c/MzY4NzA4OTEzNjE4?cjc=7hma4o6>

<https://meet.google.com/xiz-ycoc-zxu>

<https://meet.google.com/sbn-nvra-xry>

<https://meet.google.com/tng-fhrt-mrn>

<https://chat.whatsapp.com/B6n5gZJmLJn7wQCQiF5F9D>

Programme- 3:

Lecture Series- Topology

Date: 7th to 11th August, 2021

Resource Person: Dr. Santanu Acharyee, Dept. of Mathematics, Gauhati University.

Target Group: PG Mathematics students

Programme- 4:

Workshop on SageMath : An Open Source Free Software (For UG Students)

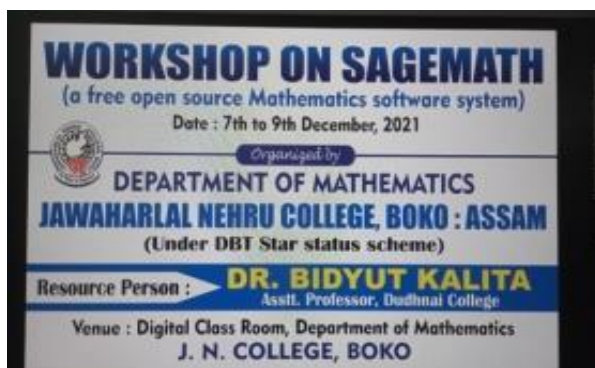
Organized by Mathematics Dept. under DBT Star Status Scheme

Date : 07 – 09th December, 2021

Total No of Participants : 54 students.

Resource Person : Dr. Bidyut Kalita, Assistant Professor of Dudhnai College

Some moments of the event:





Programme- 5:

Celebration of National Mathematics Day-2021

A day long programme Organized by Department of Mathematics, under DBT Star Status Scheme which includes a talk on 'Life and Works of Ramanujan' delivered by Dr. Dhira Kumar Das, a spot writing competition on 'Mathematics in everyday life' and an interesting Quiz competition on mathematics conducted by Dr. Dipankar Sarma.

Date : 22nd December, 2021

Venue: K K H seminar hall, J N College.

No of Participants: 200 (including school and college students).

Photos:



Programme- 6:

EXPERT TALK AND INTERACTIVE SESSION

On Differential Equations as a Tool for Modelling of Physical Problems

An Inter Departmental Event Organized by Department of Mathematics, J. N. College
Under DBT Star Status Scheme.

Date: 30th December, 2021

Resource Person : Prof. Swaroop Nandan Bora, former HoD, Dept Math, I.I.T. Guwahati
Ms. Shiba Kandpal, Research Scholar, I.I.T. Guwahati
Ms. Shilpi Jain, Research Scholar, I.I.T. Guwahati

Participants: Teachers different departments and students of UG (5th Sem) and PG

No. of participants : 78

Some moments:



Programme- 7:

Workshop on Competitive Examination in Mathematics : With special interest to NET/SLET/GATE/Ph.D. Entrance

Date: 03-04 January, 2022

No. of Participants: 76 M.Sc. students/research Scholars from J. N. College, Gauhati University and Bhattadeb University.

Venue: Day1: J.N. College & Day 2 : Online

Resource Person : Dr. Hemen Dutta, Dept of Math, Gauhati University.

Some Moments of the Programme :



Programme- 8:

International Day of Mathematics (Pi Day)

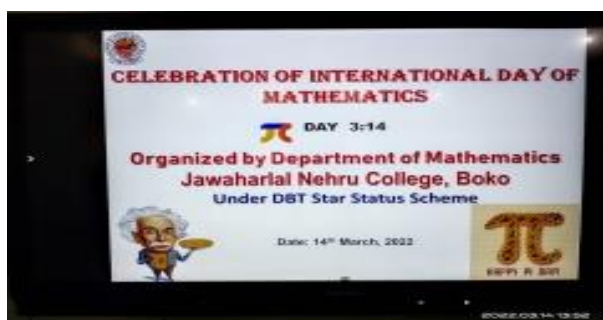
Date: 14-03-2022

No. of Participants :

Venue: Department of Mathematics, J. N. College.

Group Discussion on 'Mathematics Unites'

Some Moments of the Programme :





Class Routine :

Department of Mathematics Jawaharlal Nehru College, Boko Session: 2021-2022							
Day/Time	9.00-10.00	10.11.00	11.00-12.00	12.00-1.00	1.00-2.00	2.00-3.00	3.00-4.00
MON	S1(H) M-1 DS S3(R) Dept NM	H2 N-20 DD S5(H) Dept AD PG1 NB1 DN PG3 NB2 RK	H1 N-01 DS S5(H) Dept DN PG1 NB1 ND PG3 NB2 NM	S3(H) M-1 AD PG3 NB2 NK	S5(H) Dept DS PG1 NB1 NM	S1(H) Dept AD S5(H) Dept DD S5(R) Dept ND PG1 NB1 RK PG3 NB2 NM	S3(H) Dept DN PG1 NB1 DD PG3 NB2 AD
TUE	S1(H) M-1 AD	H1 N-01 NK S1(R) Dept ND S5(H) M-1 DD PG1 NB1 DS PG3 NB2 NM	S3(R) Dept NK S5(H) M-1 AD PG1 NB1 DN PG3 NB2 NM	S1(H) Dept DD S3(H) M-1 DN PG1 NB1 RK PG3 NB2 AD	S3(H) Dept DS S5(H) M-1 ND	H2 N-20 DD S3 (SEC) M-1 AD S5(H) M-1 DN PG1 NB1 NK PG3 NB2 RK	S5(R) (SEC) M-1 DN PG1 NB1 NM PG3 NB2 RK
WED	H1 N-01 DS S3(H) M-1 DN	S5(H) M-1 ND PG1 NB1 NM PG3 NB2 DD	S5(H) M-1 AD PG1 NB1 RK PG3 NB2 NK	S3(H) M-1 DS S5(R) Dept ND PG1 NB1 DD PG3 NB2 NM	H2 N-20 NK S1(H) M-1 DS S1(R) N-10 ND S3(H) M-1 AD S5(H) M-1 DD	S1(H) Dept NM S5(H) M-1 DN PG1 NB1 NK PG3 NB2 RK S1(H/Pr) AD	S3(R) Dept NM PG1 NB1 DN PG3 NB2 ND S1(H/Pr) AD
THU	S3(H) Dept DS	S1(H) M-1 DS S5(H) Dept AD PG1 NB1 NK PG3 NB2 RK	H2 N-20 DD S5(H) M-1 DN PG1 NB1 AD PG3 NB2 NM	S3(R) Dept NM S5(H) M-1 DS PG1 NB1 RK PG3 NB2 NK	S1(H) M-1 DD S3(H) M-1 AD	H1 N-01 DD S1(H) M-1 NM S5(H) Dept ND PG1 NB1 DN PG3 NB2 AD	PG1 NB1 DS PG3 NB2 ND
FRI	S1(H) M-1 AD S3(R) Dept RK	S1(H) Dept DS S5(H) M-1 ND PG1 NB1 RK PG3 NB2 DD	S1(R) Dept DN S5(H) M-1 DS PG1 NB1 AD PG3 NB2 NM	S3(H) M-1 DD PG1 NB1 ND PG3 NB2 NK	H1 N-01 DS S3(H) Dept AD S5(H) M-1 DD	H2 N-20 NK S3 (SEC) M-1 AD S5(H) M-1 DN PG1 NB1 NM PG3 NB2 RK	H2 N-20 DD PG1 NB1 DN PG3 NB2 RK Practical
SAT	S3(H) M-1 DS S5(R) Dept ND	S5(H) DD PG1 NB1 DN PG3 NB2 NK	H1 N-01 DS S5(H) M-1 AD PG1 NB1 NK PG3 NB2 RK	S1(H) Dept DD S3(H) M-1 DN PG1 NB1 AD	S1(R) Dept RK S5(H) M-1 DN PG3 NB2 NM	H2 M-16 DD S1(H) M-1 AD S5(H) Dept ND PG1 NB1 RK PG3 NB2 NM	S5(R) (SEC) DN PG1 NB1 DS PG3 NB2 DD

Date: 11th November, 2021

HOD
Dept. of Mathematics
J.N. College, Boko

Record of Students progressing to higher education after completing B.Sc. Exam.

Sl No	Name of the Student	Course	Institution
1	Chiranjit Baroi	M.Sc. in Mathematics	J.N. College
2	Baharul Islam	M.Sc. in Mathematics	A.V. College
3	Bholina Choudhury	M.Sc. in Mathematics	Assam University
4	Regina Ahmed	M.Sc. in Mathematics	J.N. College
5	Lalmia Ahmed	M.Sc. in Mathematics	A.V. College

(Dhiraj Kr. Das)
HoD, Mathematics