

# Department of Mathematics

LAXMINARAYAN COLLEGE, JHARSUGUDA

The background features a complex, layered design. At the top, there are several interlocking gears of various sizes, rendered in a dark, metallic blue color. Below the gears, a grid of lines is visible, containing various mathematical symbols, numbers, and binary code (0s and 1s). The overall aesthetic is technical and futuristic, with a color palette dominated by blues, greys, and oranges.

# *Exploring the Infinite Through Logic and Calculation*



# Vision of the Department:

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To be a leading center of excellence in mathematical education and research, fostering innovation, critical thinking, and interdisciplinary collaboration, while empowering students to solve complex problems and contribute to advancements in mathematics and related fields.

# Mission of the Department:

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MISSION

- To provide a rigorous and supportive educational environment that promotes a deep understanding of mathematical principles and their applications.
- To deliver high-quality instruction and prepare our students for diverse careers by developing their analytical and problem-solving skills.
- To foster a passion for mathematics and its relevance to solve real-world challenges through innovative teaching methods.



# Annual Calendar

Sl. No.	Subject	Date	
1.	Commencement of Classes +3 2 <sup>nd</sup> and 3 <sup>rd</sup> Year	As per the college notice	
2.	Commencement of Classes +3 1 <sup>st</sup> Year	1 <sup>st</sup> August 2024	
3.	Teachers' Meeting	On the Reopening Day after Summer Vacation/ within Regular Intervals	
4.	Induction of +3 1 <sup>st</sup> Year Students	September/October	
5.	Mentor Mentee Meetings for +3 1stYear, 2nd Year & 3rd Year	Last Saturday of Each Month	
6.	Parents-Teachers Meet of +3 1st Year,2nd Year & 3rd Year	November 2024	
		February 2025	
7.	Mid Semester Exams	1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> Semesters	By last week of October 2024
		2 <sup>nd</sup> , 4 <sup>th</sup> & 6 <sup>th</sup> Semesters	By first week of February 2025
	End Semester Exams	1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> Semesters	By first week of December 2024
		2 <sup>nd</sup> , 4 <sup>th</sup> & 6 <sup>th</sup> Semesters	By last week of April 2025
8.	Departmental Seminars	Every Saturday	
9.	Fibonacci Day	23 <sup>rd</sup> November 2024	
10.	National Mathematics Day	22 <sup>nd</sup> December 2024	
9.	E-day	7 <sup>th</sup> February 2025	
11.	Pi Day	14 <sup>th</sup> March 2025	
12.	World Math Day	23 <sup>rd</sup> March 2025	
13.	Intra department competitions	First week of December 2024	

# Rules and Regulations

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- Students should follow the rules and regulations of the college which can be found [here](#).
- Along with this a minimum of 75% attendance is required for appearing in the internal and university examinations.
- Students should inform and give application to the HOD/subject teacher for absence during the academic sessions.
- Students need to participate in Departmental Seminars.

# Courses Offered:

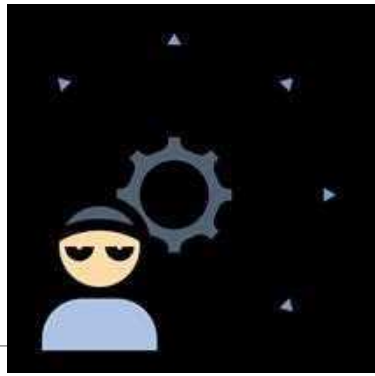
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- ❑ Under Graduate in Mathematics since 1969
- ❑ Post Graduate in Mathematics since 2024

# Program Outcome of B.Sc. Mathematics

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**PO1.** Articulate the methods of science and explain why current scientific knowledge is both contestable and testable by future inquiry.

**PO2.** Apply appropriate methods of research, investigation and design, to solve problem in science, mathematics, technology including the planning and conduct of a significant project problem or investigation.

**PO3.** Articulate the relationship between different science communities of practice, the international scope of science, mathematics, technology and engineering knowledge and methods and the contributions to their development that have been made by people with diverse perspectives, culture and backgrounds.

**PO4.** Students will express their own ideas as informed opinions, small projects, practical, research papers and understand how their own approach compares to variety of critical and theoretical approaches.





# Program Specific Outcome of B.Sc. Mathematics:

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**PSO1.** Develop deep interest in learning mathematics.

**PSO2.** Develop broad and balanced knowledge and understanding of definitions, concepts, principles and theorems.

**PSO3.** Familiarize the students with suitable tools of mathematical analysis to handle issues and problems in mathematics and related sciences.

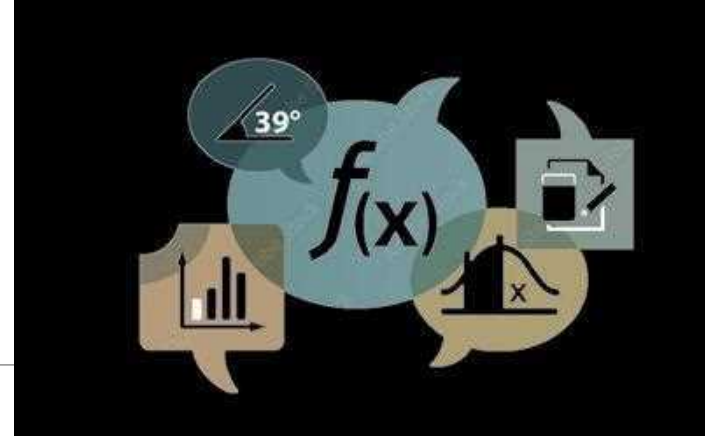
**PSO4.** Enhance the ability of learners to apply the knowledge and skills acquired by them during the programme to solve specific theoretical and applied problems in mathematics.

**PSO5.** Provide students with knowledge and skills enabling them to undertake further studies in mathematics and its allied areas on multiple disciplines concerned with mathematics.

**PSO6.** Encourage the students to develop a range of generic skills helpful in employment, internships and social activities.

# Course Outcome of B.Sc. Mathematics:

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The detailed course outcome of B.Sc. Mathematics can be found [here](#).

# Syllabus

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- Our Institution is affiliated under Sambalpur University, Jyoti Vihar, Burla, Sambalpur, Odisha.
- The syllabus for B.Sc. Mathematics is the one approved by Sambalpur University which can be found [here](#).
- The syllabus for M.Sc. Mathematics is the one approved by Sambalpur University which can be found [here](#).

# Faculties:

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[Mrs. Prajnya  
Parimita Patel](#)



[Miss Netrakanti  
Naik](#)



[Dr. Uddhaba  
Biswal](#)



[Mr. Sahil Rishmilya  
Pradhan](#)



# Mrs. Prajnya Parimita Patel



## Educational Qualifications:

Graduation	Integrated B.Sc. B.Ed. with Mathematics Major	Regional Institute of Education, Bhubaneswar, Odisha-751022	2015
Post Graduation	M.Sc. in Mathematics and Computing	IIT (ISM) Dhanbad, Jharkhand-826004	2017

# Courses assigned in this Session (odd Semester)

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- Core-II, Introduction to Algebra and Number Theory, 1<sup>st</sup> year, 1<sup>st</sup> Semester, B.Sc. Mathematics
- Core-V, Theory of real Functions, 2<sup>nd</sup> year, 3<sup>rd</sup> Semester, B.Sc. Mathematics
- DSE-II, Probability and Statistics, 3<sup>rd</sup> Year, 5<sup>th</sup> Semester, B.Sc. Mathematics
- MAT- C -414, TOPOLOGY, 1<sup>st</sup> Year, 1<sup>st</sup> Semester, M.Sc. Mathematics

# (National/ International) Seminars/ Webinars/ Workshops/ FDP/ Orientation/ Refresher/ Conferences attended:

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- ✓ Induction Training Program at Berhampur University, from 6th January to 19th January 2020.
- ✓ International Conference on advances in Mathematics and computing-2020 at VSSUT, Burla, from 7th February to 8th February 2020.
- ✓ Refresher course in Mathematics by Ramanujan College, Delhi, from 16th March to 30th March 2021.
- ✓ Teacher Training/ Orientation Programme (Mathematics) at IISc Challekere Campus, Bangalore, from 19th November to 29th November 2021.
- ✓ Faculty Development program on National Education Policy and its impact on Higher Education by Kalinga University on 16th December 2023.
- ✓ Teacher Enrichment workshop on Partial Differential Equations by KJ Somaiya College of Science and Commerce Mumbai, from 15th January to 20th January 2024.
- ✓ NEP 2020 Orientation and Sensitization Programme under MM-TTP of UGC organized by Regional Institute of Education, Mysore from 27<sup>th</sup> August to 4<sup>th</sup> September 2024.

# Publication:

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1. Das, Amrita, Abhishek Kumar Singh, **Prajnya Parimita Patel**, Kshitish Ch Mistri, and Amares Chattopadhyay. "Reflection and refraction of plane waves at the loosely bonded common interface of piezoelectric fibre-reinforced and fibre-reinforced composite media." *Ultrasonics* 94 (2019): 131-144.



# Miss Netrakanti Naik



Name of the Exam/degree	Passing Year	Council/ Board/ University	Subject Details	Division/Grade
B. Sc.	2018	Rama Devi Women's University, Bhubaneswar	Mathematics Hons.	1 <sup>st</sup>
M. Sc.	2020	Utkal University, Bhubaneswar	Mathematics Hons.	1 <sup>st</sup>
CSIR-UGC NET(JRF)	2021	University Grant Commission	Mathematics	121(AIR)

# Courses assigned in this Session (odd Semester)

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- Core-I, Calculus and Analytical Geometry, 1<sup>st</sup> year, 1<sup>st</sup> Semester, B.Sc. Mathematics
- Core-VII, Partial Differential Equations and System of ODEs, 2<sup>nd</sup> year, 3<sup>rd</sup> Semester, B.Sc. Mathematics
- DSC-XI, Multivariate Calculus, 3<sup>rd</sup> Year, 5<sup>th</sup> Semester, B.Sc. Mathematics
- MAT- C -413 ALGEBRA-1, 1<sup>st</sup> Year, 1<sup>st</sup> Semester, M.Sc. Mathematics

# Extra-Curricular Work Experience

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- ❖ Working as +2 Associate Officer in-charge, L.N College, Jharsuguda
- ❖ Worked as admission team member of +2 section, L.N College, Jharsuguda
- ❖ Associate member in +2 Academic Bursar, L.N College Jharsuguda
- ❖ Coding of +2 CHSE answer scripts
- ❖ Working as Scholarship member of +3, L.N College, Jharsuguda

# Workshop/FDP Attended

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1. Online Faculty Development Programme on 'Mastering the Art of Using I.C.T In Teaching Pedagogies' held on 7<sup>th</sup> November 2023.

# Flg Offr Dr. Uddhaba Biswal



## ■ Educational Qualifications- Ph.D., M.SC, CSIR-JRF, GATE

Name of the Exam/degree	Passing Year	Council/ Board/ University	Subject Details	Division/Grade
B. Sc.	2014	Rajendra (Auto.) College, Balangir (Now Rajendra University)	Mathematics Hons.	1 <sup>st</sup>
M. Sc.	2016	Pondicherry University	Mathematics Hons.	1 <sup>st</sup>
Ph. D.	2023	National Institute of Technology, Rourkela	Computational Fluid Dynamics, Uncertainty Modelling	
CSIR-JRF	2016	CSIR-HRDG, New Delhi	Mathematics	74 (AIR)
GATE	2017	GATE	Mathematics	149 (AIR)

# Courses assigned in this Session (odd Semester)

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- Core-VI, Group Theory-I, 2<sup>nd</sup> year, 3<sup>rd</sup> Semester, B.Sc. Mathematics
- DSC-XII, Linear Algebra, 3<sup>rd</sup> Year, 5<sup>th</sup> Semester, B.Sc. Mathematics
- MAT- C-411 REAL ANALYSIS, 1<sup>st</sup> Year, 1<sup>st</sup> Semester, M.Sc. Mathematics
- MAT- C-412 COMPLEX ANALYSIS, 1<sup>st</sup> Year, 1<sup>st</sup> Semester, M.Sc. Mathematics

# Publications

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## Journal Papers

1. **Biswal, U., Chakraverty, S. and Ojha, B. K.** (2019), “Natural convection of non-Newtonian nanofluid flow between two vertical parallel plates”, ***International Journal of Numerical Methods for Heat & Fluid Flow***, Vol. 29 No. 6, pp. 1984-2008. <https://doi.org/10.1108/HFF-06-2018-0302>.
2. **Biswal, U., Chakraverty, S. and Ojha, B. K.**, 2020. Natural convection of nanofluid flow between two vertical flat plates with imprecise parameter. ***Coupled systems mechanics***, 9(3), pp.219-235.
3. **Biswal, U., Chakraverty, S., Ojha, B. K. and Hussein, A.K.**, (2021), “Numerical simulation of magnetohydrodynamics nanofluid flow in a semi-porous channel with a new approach in the least square method”, ***International Communications in Heat and Mass Transfer***, 121, p.105085. <https://doi.org/10.1016/j.icheatmasstransfer.2020.105085>.
4. **Biswal, U., Chakraverty, S. and Ojha, B. K.**, (2021), “Application of homotopy perturbation method in inverse analysis of Jeffery–Hamel flow problem”, ***European Journal of Mechanics-B/Fluids***, 86, pp.107-112. <https://doi.org/10.1016/j.euromechflu.2020.12.004>.
5. **Biswal, U., Chakraverty, S., Ojha, B. K. and Hussein, A. K.**, 2021. Study of Jeffery-Hamel flow problem for nanofluid with fuzzy volume fraction using double parametric based Adomian decomposition method. ***International Communications in Heat and Mass Transfer***, 126, p.105435.
6. **Biswal, U. and Chakraverty, S.**, 2022. Investigation of Jeffery-Hamel flow for nanofluid in the presence of magnetic field by a new approach in the optimal homotopy analysis method. ***Journal of Applied and Computational Mechanics***, 8(1), pp.48-59.

# Publications Cont...

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7. Mebarek-Oudina, F., Laouira, H., Hussein, A.K., Omri, M., Abderrahmane, A., Kolsi, L. and **Biswal, U.**, 2022. Mixed convection inside a duct with an open trapezoidal cavity equipped with two discrete heat sources and moving walls. *Mathematics*, 10(6), p.929.
8. Younis, O., Alizadeh, M., Kadhim Hussein, A., Ali, B., **Biswal, U.** and Hasani Malekshah, E., 2022. Mhd natural convection and radiation over a flame in a partially heated semicircular cavity filled with a nanofluid. *Mathematics*, 10(8), p.1347.
9. Sannad, M., Hussein, A.K., Abidi, A., Homod, R.Z., **Biswal, U.**, Ali, B., Kolsi, L. and Younis, O., 2022. Numerical study of MHD natural convection inside a cubical cavity loaded with copper-water nanofluid by using a non-homogeneous dynamic mathematical model. *Mathematics*, 10(12), p.2072.
10. **Biswal, U.**, Chakraverty, S. and Ojha, B.K., 2022. Forward and Inverse Problems Related to Nanofluid Flow Between Nonparallel Planes in Uncertain Environment. *Journal of Computational and Nonlinear Dynamics*, 17(8), p.081002.
11. **Biswal, U.**, Chakraverty, S., Ojha, B.K. and Hussein, A.K., 2022. Numerical investigation on nanofluid flow between two inclined stretchable walls by Optimal Homotopy Analysis Method. *Journal of Computational Science*, 63, p.101759.
12. Laidoudi, H., Hussein, A.K., Mahdi, A.B., Younis, O., Malekshah, E.H., Togun, H. and **Biswal, U.**, 2022. Numerical Investigation of Buoyancy-driven Flow in a Crescent-shaped Enclosure. *Jordan Journal of Mechanical & Industrial Engineering*, 16(4).
13. Hussein, A.K., Rashid, F.L., Abed, A.M., Al-Khaleel, M., Togun, H., Ali, B., Akkurt, N., Malekshah, E.H., **Biswal, U.**, Al-Obaidi, M.A. and Younis, O., 2022. Inverted solar stills: A comprehensive review of designs, mathematical models, performance, and modern combinations. *Sustainability*, 14(21), p.13766.



# Publications Cont...

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14. Younis, O., Hussein, A.K., Attia, M.E.H., Rashid, F.L., Kolsi, L., **Biswal, U.**, Abderrahmane, A., Mourad, A. and Alazzam, A., 2022. Hemispherical solar still: Recent advances and development. *Energy Reports*, 8, pp.8236-8258.
15. Hussein, A.K., Hussein, A.A.R.A., Abidi, A., Basem, A., Rashid, F.L., HAMIDA, M.B.B., **Biswal, U.**, Ali, B. and Abdulameer, S.F., 2023. Opposing Mixed Convection in an Open Parallelogram Cavity with the Horizontal Channel: Effects of the Heat Source Length and Location. *Journal of Advanced Research in Numerical Heat Transfer*, 14(1), pp.118-135.
16. Alizadeh, M., Fazlollahtabar, A., Hussein, A.K., Ameen, H.A., Ganji, D.D., **Biswal, U.** and Ali, B., 2023. Effect of thermal radiation and magnetic field on heat transfer of SWCNT/water nanofluid inside a partially heated hexagonal cavity. *Korean Journal of Chemical Engineering*, pp.1-17.
17. Hussein, A.K., Rashid, F.L., Togun, H., Sultan, H.S., Homod, R.Z., Sadeq, A.M., Attia, M.E.H., Ali, B., **Biswal, U.**, Rout, S.K. and Abdulkadhim, A.H., 2024. A review of design parameters, advancement, challenges, and mathematical modeling of asphalt solar collectors. *Journal of Thermal Analysis and Calorimetry*, 149(1), pp.41-61.
18. Attia, M.E.H., Hussein, A.K., Rashid, F.L., Ali, B., Saggai, S., **Biswal, U.**, Rout, S.K., Abdulameer, S.F. and Barik, D., 2024. Use of Electrolysis to Produce H<sub>2</sub> from Natural and Modified Water. *Energy Technology*, 12(1), p.2300918.
19. Kadhim Hussein, A., Pakdee, W., Bechir Ben Hamida, M., Ali, B., Lafta Rashid, F., **Biswal, U.** and S Alhassan, M., 2024. MHD mixed convection flow of alumina-water nanofluid into a lid-driven cavity with different patterns of wavy sidewalls. *Journal of Computational Applied Mechanics*, 55(1), pp.92-112.
20. Togun, H., Homod, R.Z., Aljibori, H.S.S., Abed, A.M., Alias, H., Hussein, A.K., **Biswal, U.**, Al-Thamir, M., Mahdi, J.M., Mohammed, H.I. and Ahmadi, G., 2024. Al<sub>2</sub>O<sub>3</sub>-Cu hybrid nanofluid flow and heat transfer characteristics in the duct with various triangular rib configurations. *Journal of Thermal Analysis and Calorimetry*, pp.1-14.

# Book and Book Chapters

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## Book

1. Chakraverty, S. and **Biswal, U.**, 2022. *Modeling and simulation of nanofluid flow problems*. **Springer Nature**.

## Book Chapters

1. **Biswal, U.**, Chakraverty, S. and Ojha, B.K., 2020. Natural convection of non-Newtonian nanofluid flow between two vertical parallel plates in uncertain environment. In *Recent Trends in Wave Mechanics and Vibrations* (pp. 295-309). **Springer**, Singapore.
2. Karunakar, P., **Biswal, U.** and Chakraverty, S., 2020. Fluid Dynamics Problems in Uncertain Environment. *Mathematical Methods in Interdisciplinary Sciences*, pp.125-144, **Wiley**.
3. **Biswal, U.**, Chakraverty, S. and Ojha, B.K., 2021. Natural convection in a nanofluid flow. In *New Paradigms in Computational Modeling and Its Applications* (pp. 57-70). **Elsevier**.
4. **Biswal, U.**, Chakraverty, S. and Ojha, B.K., 2021. Vibration of a cantilever beam immersed in a fluid with uncertain parameters. In *Modeling and Computation in Vibration Problems, Volume 2: Soft computing and uncertainty* (pp. 15-1). Bristol, UK: **IOP Publishing**.
5. Hussein, A.K., Kolsi, L., Attia, M.E.H., Younis, O., **Biswal, U.**, Ali, H.M., Ali, B., Hashemian, M., Mallikarjuna, B. and Nikbakhti, R., 2022. Nanoscience and its role in the future of solar stills. In *Industrial Applications of Nanocrystals* (pp. 427-440). **Elsevier**.

# Conferences

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1. **Biswal, U., Chakraverty, S., and Ojha, B. K., 2018.** Natural convection of non-Newtonian nanofluid flow between two vertical parallel plates in uncertain environment, **8<sup>th</sup> National Conference on Wave Mechanics and Vibrations, NIT Rourkela, Odisha, India.**
2. **Biswal, U., Chakraverty, S., and Ojha, B. K., 2019.** Inverse Analysis of Jeffery-Hamel Flow Problem, **National Conference on Modeling Analysis & Simulation, IIT (ISM), Dhanbad, Jharkhand, India.**
3. **Biswal, U., Chakraverty, S., and Ojha, B. K.,** Nanofluid flow between two plates in uncertain environment, **International Conference on Mathematical Modelling, Applied Analysis and Computation-2022 (ICMMAAC-22),** dated 4-6 August, 2022, JECRC University, Jaipur (Raj.), India.

# Mr. Sahil Rishmilya Pradhan



Course	Institution	Passing Year	Division
B.Sc. (Mathematics)	Laxminarayan College, Jharsuguda	2021	2 <sup>nd</sup>
Intermediate	Laxminarayan College, Jharsuguda	2017	3 <sup>rd</sup>
10 <sup>th</sup>	Debadihi High School, Jharsuguda	2015	1 <sup>st</sup>

# Courses assigned in this Session (odd Semester)

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- Practical, Core-VII, Partial Differential equation and system of ODEs, 1<sup>st</sup> year, 1<sup>st</sup> Semester, B.Sc. Mathematics
- MAT- C -415, MATLAB, 1<sup>st</sup> Year, 1<sup>st</sup> Semester, PG Mathematics
- MAT- C -416 PROGRAMMING LABORATORY-I (MATLAB), 1<sup>st</sup> Year, 1<sup>st</sup> Semester, PG Mathematics



+3 1<sup>st</sup> Year

11



+3 2<sup>nd</sup> Year

13



+3 3<sup>rd</sup> Year

16

← Student Strength for the session 2024-25 →

# Teaching Methodology:

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1. **Active Learning:** Engage students with activities like problem solving sessions, group work etc. that require them to actively apply concepts.
2. **Inquiry-Based Learning:** Encourage students to explore mathematical concepts through questions and investigations which fosters critical thinking and allows students to develop their problem-solving skills independently.
3. **Flip Classroom:** Provide lecture materials and readings as homework, and use class time for interactive problem-solving and discussions which allows students to engage with the material at their own pace and use class time more effectively.
4. **Technology Integration:** Utilize mathematical software like MATLAB, Mathematica, online tools like GeoGebra, Desmos, WolframAlpha, and educational apps to visualize concepts, simulate problems, and enhance learning.
5. **Conceptual Understanding:** Focus on building a strong conceptual foundation rather than just procedural skills. Encourage students to understand the "why" behind mathematical processes and theorems.
6. **Collaborative Learning:** Facilitate group work where students can collaborate on solving problems, discuss different approaches, and learn from each other. Peer interactions can enhance understanding and provide different perspectives.
7. **Encourage Mathematical Communication:** Promote the practice of explaining mathematical ideas, reasoning, and solutions both orally and in writing. This helps students articulate their understanding and improves their ability to reason mathematically.

# Result Analysis of session 2023-24:

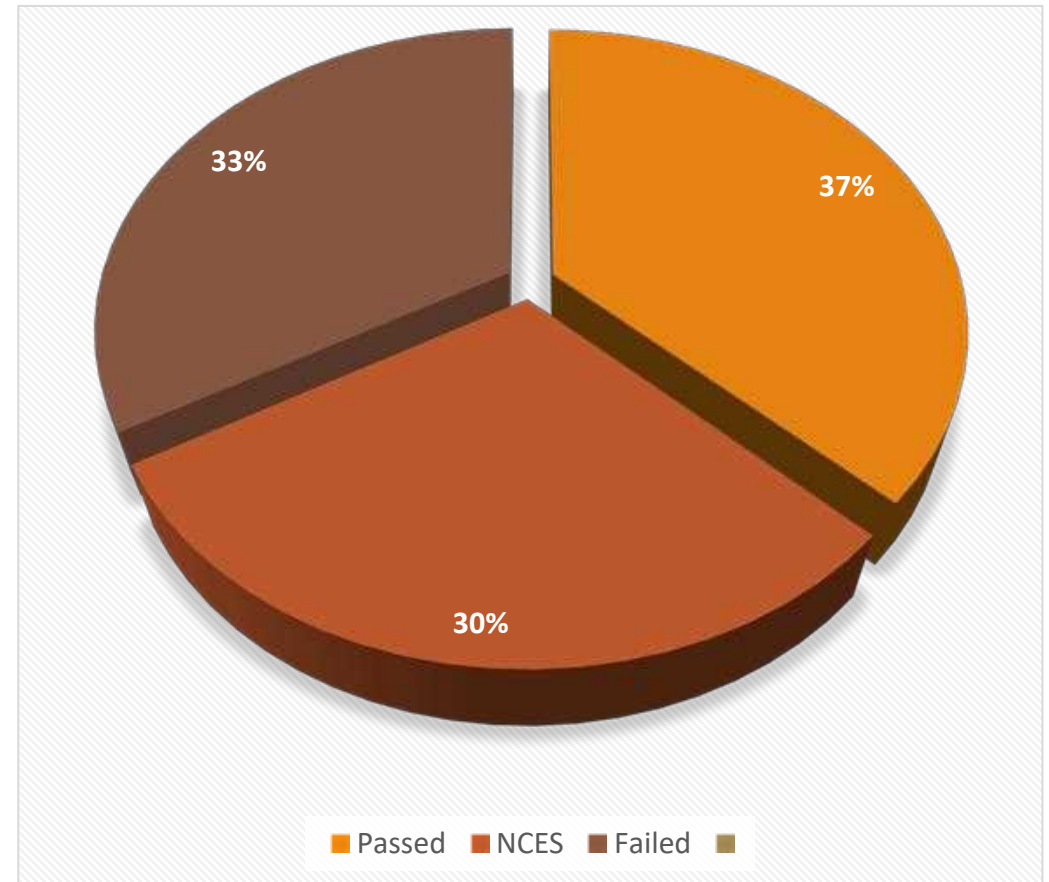
Number of Students appeared- 27 (Reg-17, Ex-Reg-10)

Number of Students Passed-10

- First Class Honours with Distinction -3
- First Class Honours -4
- Second Class Honours -3

Number of students with NCES-8

Number of Students Failed-9



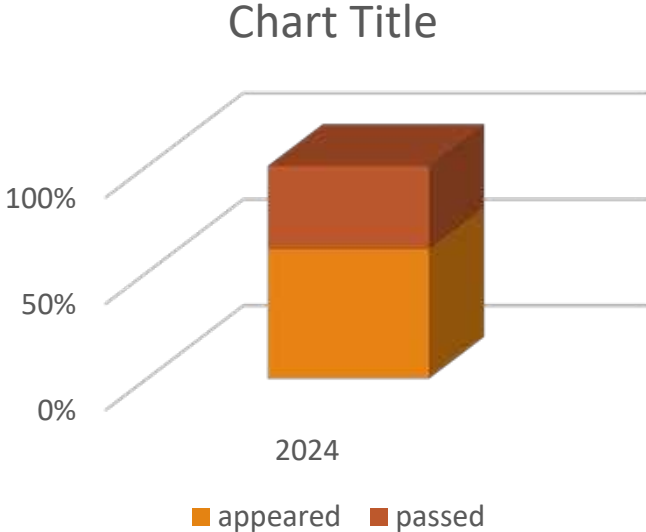


# Result Analysis of session 2023-24 (Regular)

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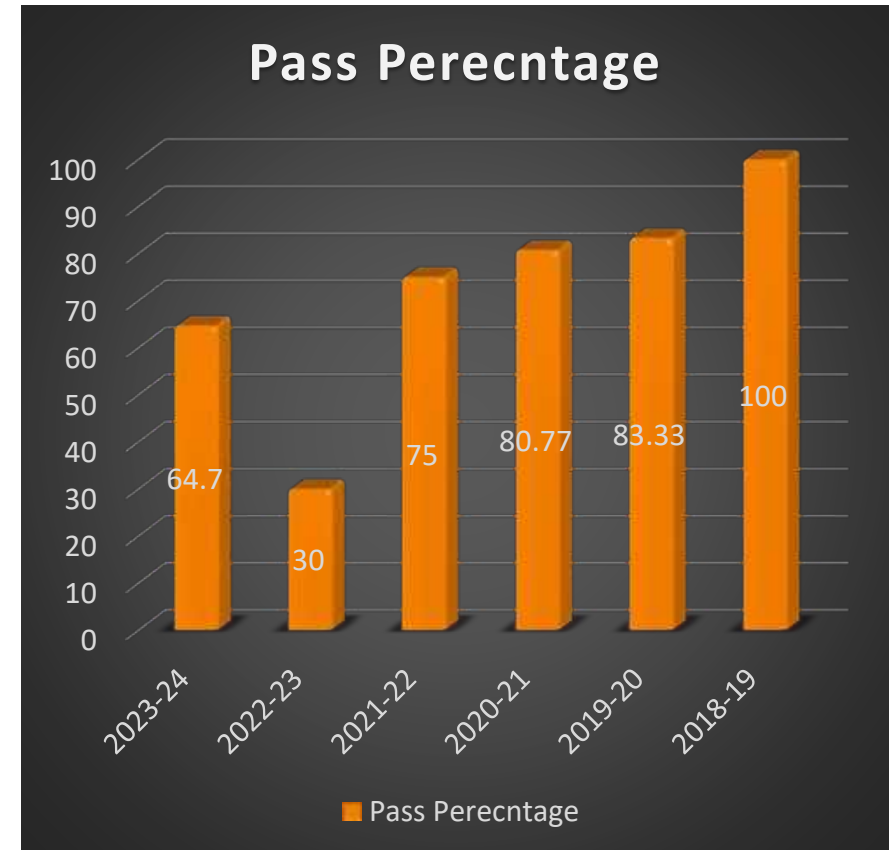
Number of Students appeared- 17

Number of Students Passed-11



# Result Analysis of last 5 Sessions

Session	Number of Students appeared	Number of Students Passed	Pass Percentage
2023-24	17	11	64.70
2022-23	20	06	30.00
2021-22	16	12	75.00
2020-21	26	21	80.77
2019-20	24	20	83.33
2018-19	21	21	100.00



# Achievers:

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Satyajit Satpathy  
CUET: PG Mathematics 2024  
CPET: PG Mathematics 2024



Bhabani Shankar Kabi  
CUET: PG Mathematics 2024  
CPET: PG Mathematics 2024



Mamina Patel  
CUET: PG Mathematics 2024  
CPET: PG Mathematics 2024



Harishankar Sahu  
CPET: PG Mathematics 2024



Harekrushna Sahu  
CPET: PG Mathematics 2024

# Student participation

*Bhabani Shankar Kabi* and *Mamina Patel* have participated in “**Summer outreach programme in mathematics-2024**” from May 20- June 08, 2024 at **National Institute of Science and Research Bhubaneswar**.



Prominent  
Alumni



Anshu Ranjan Singh Deo, 2019-2022 Batch,  
Pursuing M.Sc. Mathematics at IIT  
Ragpur



Dr. Subhashree Patel, 2011-14 Batch,  
Assistant professor, KIIT Bhubaneswar



Shri Narasingha Panigrahi, Retired  
Reader in Mathematics, Laxminarayan  
college, Jharsuguda



Anil Lukeswar Kharsel, 2011-2014 Batch,  
Communication Technician in Indian Air  
force, Jaisalmer, Rajasthan

# Value added course

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- Type setting in LaTeX : 2023-24.
- It aims at enhancing the documentation skills of the students by using LaTeX.
- A total of 15 students have participated and completed the course.

# Events organized by Department



Fibonacci Day  
23<sup>rd</sup> November 2023

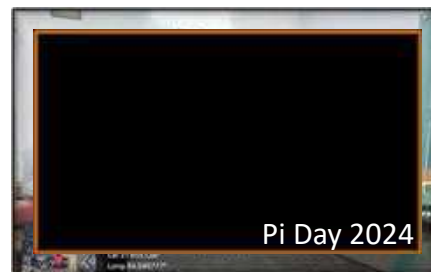
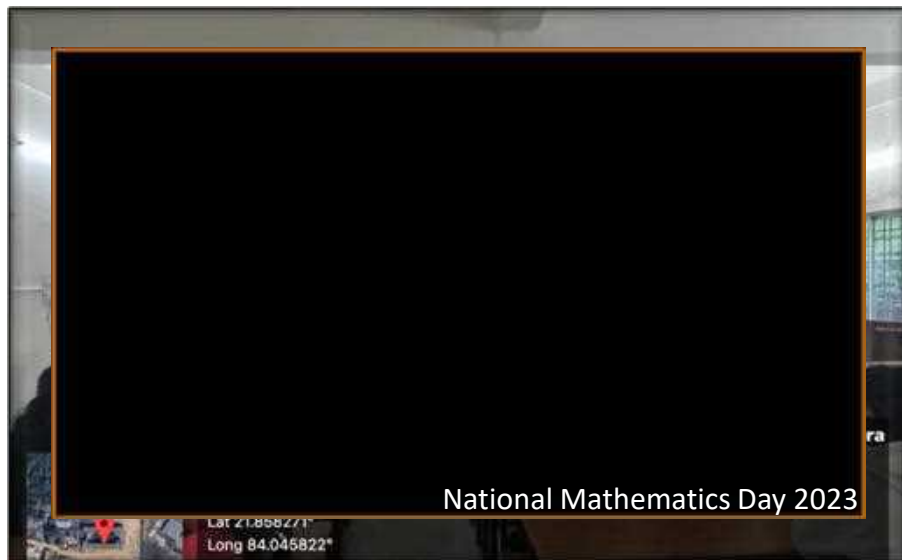


National Mathematics Day  
22<sup>nd</sup> December 2023



Pi Day  
15<sup>th</sup> March 2024

# Events organized by Department





# Parent Teacher Meetings(PTMs):

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Two Parent Teacher Meetings on 8<sup>th</sup> November 2023 and 10<sup>th</sup> February 024 have been conducted during the session .

- An average of 6 parents ( 5 in 1<sup>st</sup> one and 7 in 2<sup>nd</sup> one) attended this meeting.
- Interaction between Parents, Teachers was done.
- A discussion on student's performance, discipline in college and attendance percentage was discussed with the parents.
- One parent was happy with the way the department was conducting meetings in each semester.
- One parent also enquired what kind of placement arrangements are done for their ward.
- Academic Calendar was shared with the parents.
- Feedback and suggestions from the parents were noted for future improvement and holistic development.



PTM held on 8<sup>th</sup>  
November 2023.

Meeting between Parents  
and staff members  
followed by meeting  
between Parents Teachers  
and students.

# Departmental Seminars

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- Departmental Seminars are held frequently by the Students and Staff Members of our department.
- Seminar by students has helped the students
  - To Gain Confidence.
  - Encouragement and Motivation.
  - Helps in Research.
  - To Enhance soft Skills.
  - Helps in Better Understanding of Theoretical Concepts.
  - To Learn a new Perspective.





# Departmental Seminars

# Extension Activities:

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- ❖ Study tour has been organized by our department on 13<sup>th</sup> February 2024 to Planetarium, Sambalpur.
- ❖ All the students of +3 final year have participated and benefitted.



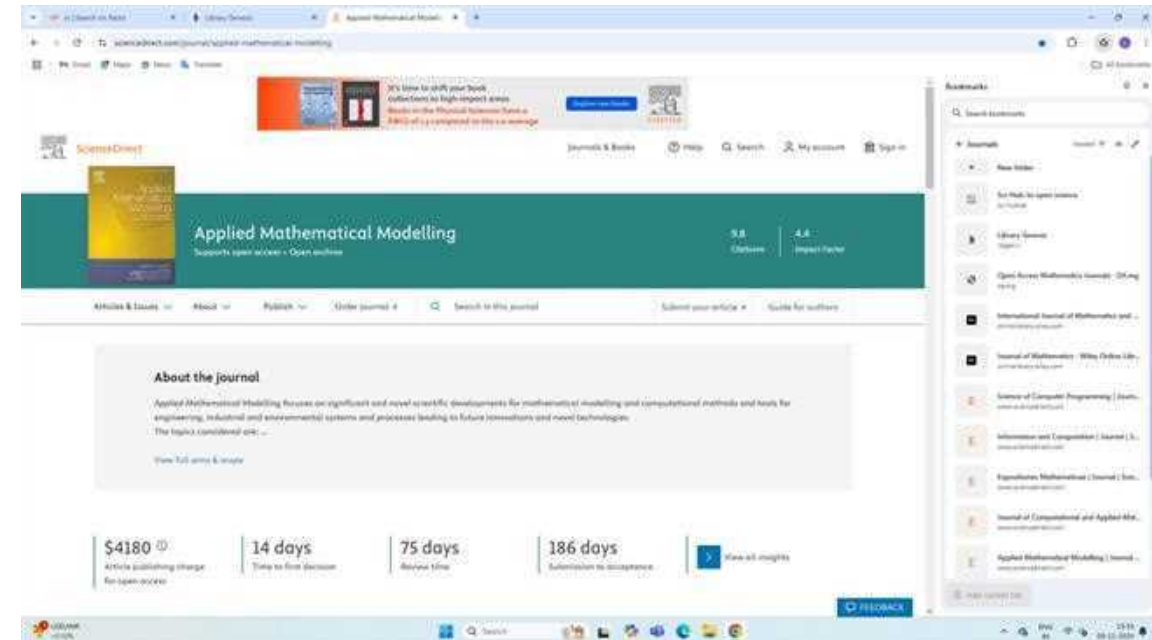
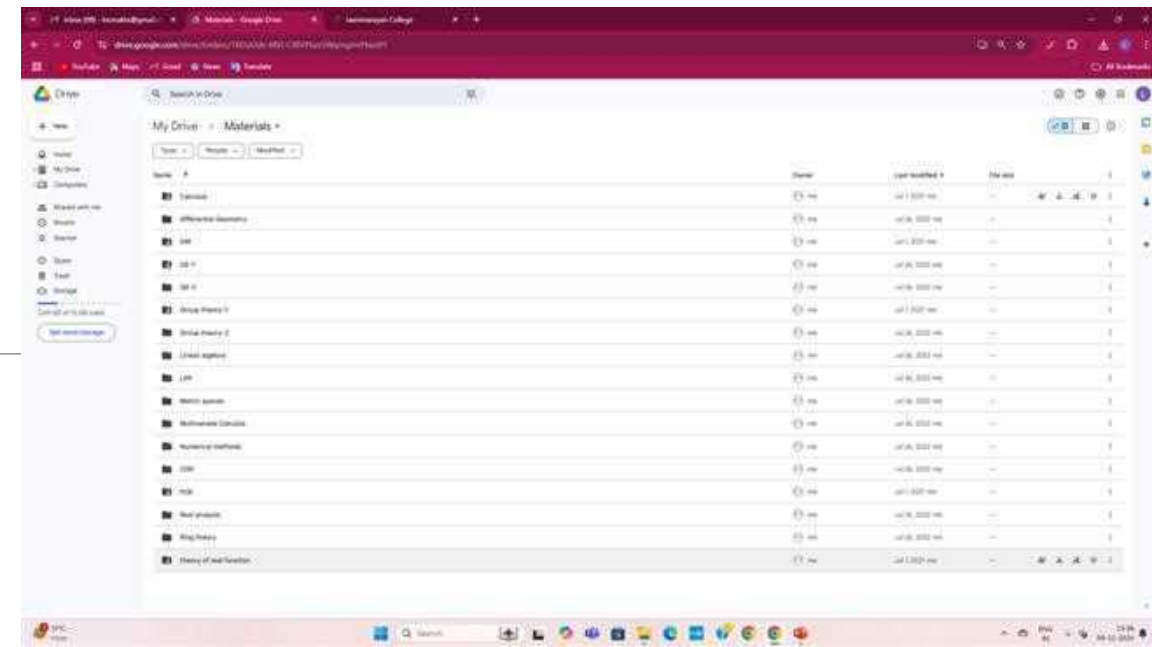
# Departmental Library

- Departmental library consists of Several reference books and text books.
- There are a total of 138 no of books are there.
- An issue register is maintained for the issue and return of the books by students.
- The students are allowed to keep the book for a month.
- Few students and stakeholders also donate books.



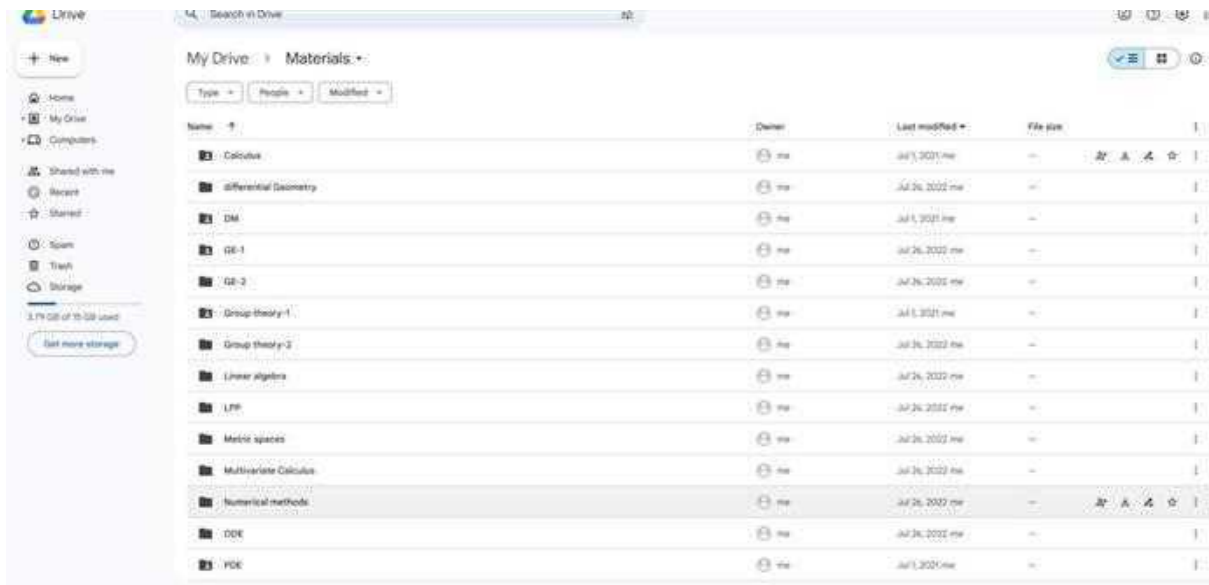
# e- Library

- Electronic copies of different books are available in the departmental computers for easy access of the students.
- Free journals and e-books are saved for students references.



# Use of Information and Communication Technology:-

- Licensed MATLAB software (student version) is used for practical.
- e-books and e- contents are made available to the students for references and further studies.
- Student seminars help students to develop ICT skills.



4U SOLUTIONS

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GSTN-21BAIPM2690B1Z4  
Email-4usolutionsindia@gmail.com



www.4uindia.com

To,  
Head of Department,Mathmathics,  
Laxminarayan College,Jharsuguda

Date-06.12.2023  
Ref-4US/2023/33

Please find the MATLAB Subscription Details:-

MATLAB Details:	
Product Name	MATLAB and Simulink Student Suite
Email-	Incmathsfirstyear@gmail.com
Licence No-	41197730
Licence Use For-	Student-Individual
Order number -	13324733
Date of Purchase-	04-12-2023

Authorized Signature





**THANK YOU**