

GOUR MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

ACCREDITED BY NAAC (3rd cycle) B⁺⁺

Dr. Rakesh Sarkar, Ph.D.

Head

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Memo No: GM/MATH/0005/25

Date: 12.02.2025

NOTICE-5

Subject: Submission of Mathematics (Minor) Assignment – Semester I

All students who have opted for **Mathematics as Minor in Semester I** are hereby informed that they must submit their assignment by **27th February 2025**.

Submission Guidelines:

- **Last Date:** 27th February 2025
- **Cover Page** (Must Include):
 - Student's Name
 - Roll Number
 - Course Name (**Mathematics Minor – Semester I**)
 - College
 - Assignment Title
- **Required Pages:**
 - Title Page
 - Content Page
 - Acknowledgment Page
 - Main Content (at least 15 pages)
 - Reference Page
- **Assignment Topic:** Assigned individually by the faculty. Each student must complete their own assigned topic.
- **Mode of Submission:** Submit hard copy
- **Submit To:** Department of Mathematics

Late submissions will not be accepted. Ensure that your assignment is well-organized, properly formatted, and complete before submission.

For any queries, contact Department of Mathematics.

(Dr. Rakesh Sarkar)

HoD

Department of Mathematics,
Gour Mahavidyalaya,
Mangalbari, Malda.

Head of the Deptt.
Deptt. of Mathematics
Gour Mahavidyalaya
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Student Group List with Topics

Group	Names	Topic
Group 1	Snehargho Ghosh, Aditya Sarkar, Arman Mandal, Md. Makseder Kafee, Ritam Das, Joy Barman, Sajal Sarkar, Srijit Pramanick, Sudip Kumar Adhikari, Soumojit Kumar Deb, Ayush Mondal	Complex Number: De Moivre's theorem and its applications. Exponential, Sine, Cosine and Logarithm function, definition of a^z ($a \neq 0$) Inverse circular and hyperbolic functions.
Group 2	Pritam Paul, Raj Sarkar, Sanjukta Ghosh, Dipanita Pramanik, Baisakhi Paul, Kishika Saha, Sayfeda Rejwana, Sutapa Tarafder, Rachana Saha, Subhajit Paul, Sudipta Roy	Inequality: Simple applications of inequality involving $AM \geq GM \geq HM$, m-th power inequality, CauchySchwarz inequality.
Group 3	Soumojit Das, Pratik Biswas, Abhijit Jha, Sanjoy Halder, Aniket Pal, Kishan Rana Ghosh, Sharmistha Sharma, Debopriya Das, Jaykishor Mandal, Wahed Anwar, Abdul Faruk, Riya Singha	Polynomials with real coefficients. Fundamental theorem of Algebra (Statement only), Nature of roots of an equation (surd or complex roots occur in pairs), Existence of real roots, Descartes's rule of signs and application of intermediate value theorem
Group 4	Mijanur Rahaman, Abdur Rahim, Md. Naim Akhtar, Jit Paul, Plaban Mandal, Suman Mandal, Sauvik Seth, Biman Pal, Ranip Rousan, Kiranmoy Das, Tamanna Parvin	Relation between roots and coefficients, symmetric function of roots, Cardan's method of a cubic equation
Group 5	Puja Haldar, Shifa Khatun, Pratap Balo, Dhanan Rajbansi, Srin Farha, Supriya Mandal, Shreyost Mandal, Srishti Dey, Tabassum Parvin, Ananya Ghosh, Anjali Karmakar	Transformation of Rectangular axes. Translation, Rotation and its combinations, Pair of straight lines, Condition that the general equation in second degree may represent two straight lines, Point of intersection of two intersecting lines, Angles between two straight lines, Equation of bisectors, Equation of two

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		lines joining the origin to the points in which a line meet a conic,
Group 6	Subhankar Roy, Suman Das, Akash Basak, Tanmay Mandal, Jeet Paswan, Gourab Sikdar, Mohit Biswas, Rony Saha, Atanu Singua, Aditi Chanda, Swadhin Chowdhury	Condition that the general equation in second degree may represent two straight lines, Point of intersection of two intersecting lines, Angles between two straight lines, Equation of bisectors, Equation of two lines joining the origin to the points in which a line meet a conic, Tangents and Normals, Poles and Polars.
Group 7	Hanif SK, Biswajit Chowdhury, Barshan Sarkar, Abu Hassan, Suman Ghosh, Anwesha Das, Agniv Sarkar, Susma Ghosh, Sudipta Basak, Debapriyo Ghosh, Golam Anawar, Shahnawaj Ahammed	Three dimensional coordinate system, Straight line, Direction Cosine, Problems on Straight Lines, Equation of plane and elementary properties,
Group 8	Aniket Lala, Souvik Pramanik, Tushi Sarkar, Rakibul Islam, Shrabon Paul, Mihir Ranjan Pal, Somnath Bhowmik, Puskar Dutta, Aritra Gupta, Priyangshu Chowdhury, Animesh Rajbanshi, Mustafijur Rahaman	Three dimensional coordinate system, Sphere and its tangent plane, Right circular cone and cylinder.

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