GOUR MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

ACCREDITED BY NAAC (3rd cycle) B++

Dr. Rakesh Sarkar, Ph.D.
Head
Email id: mathgourcollege@gmail.com

P.O.-Mangalbari, Dist.-Malda, PIN-732142(W.B.)
Phone: 03512-260547; Fax: 03512-260547
Webite: www.gourmaha.ac.in

Memo No: GM/MATH/0021/26 Date: 19.11.2026

NOTICE-21

Subject: Submission of Mathematics (Minor) Assignment – Semester-V

- All students of **Mathematics as Minor in Semester V** are hereby informed that they must submit their assignment within **30.11.2026**

Submission Guidelines:

- **Last Date: 30.11.2026**
- **Cover Page (**Must Include**):**
  - Student's Name
  - Roll Number
  - Course Name (**Mathematics Minor – Semester-V**)
  - College
  - Assignment Title
- **Required Pages:**
  - Title Page
  - Content Page
  - Acknowledgment Page
  - Main Content (at least 12 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:** Dr. Rakesh Sarkar

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

(Dr. Rakesh Sarkar)
HoD
Department of Mathematics,
Gour Mahavidyalaya,
Mangalbari, Malda.

Head of the Deptt.
Deptt. of Mathematics
Gour Mahavidyalaya
Mangalbari, Malda.

GOUR MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

ACCREDITED BY NAAC (3rd cycle) B++

Dr. Rakesh Sarkar, Ph.D.
Head
Email id: mathgourcollege@gmail.com

P.O.-Mangalbari, Dist.-Malda, PIN-732142(W.B.)
Phone: 03512-260547; Fax: 03512-260547
Webite: www.gourmaha.ac.in

GOUR MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

Assignment 5th Semester Minor 2026-27

Sl.No.	Name	Topic
1	Abdur Rahim	Basic Concepts, Modelling, Geometric Meaning of $y' = f(x, y)$, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation, Homogeneous ODEs
2	Abhijit Jha	Clairaut's form, Singular Solution, Existence and Uniqueness Theorem for Initial Value Problems (Application Only), Orthogonal Trajectories.
3	Aditi Chanda	Homogeneous Linear ODEs of Second Order, Homogeneous Linear ODEs with Constant Coefficients
4	Aditya Sarkar	Formation of partial differential equations, Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations
5	Aniket Lala	Differential Operators, Euler-Cauchy Equations, Existence and Uniqueness of Solutions, Wronskian, Nonhomogeneous ODEs, Solution by Variation of Parameters.
6	Aniket Pal	Concept of linear and non-linear partial differential equations, Solution partial differential equations of first order, Lagrange's method, Charpit's method.
7	Anjali Karmakar	Formation of partial differential equations, Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations
8	Anwesha Das	Basic Concepts, Modelling, Geometric Meaning of $y' = f(x, y)$, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation, Homogeneous ODEs
9	Aritra Gupta	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)
10	Atanu Singua	Short Impulses, Dirac's Delta Function, Partial Fractions, Convolution, Differentiation and Integration of Transforms, Inverse Laplace Transform. Applications of Laplace Transforms in Solving ODEs with Constant and Variable Coefficients.
11	Ayush Mondal	Formation of partial differential equations, Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations
12	Biman Pal	Clairaut's form, Singular Solution, Existence and Uniqueness Theorem for Initial Value Problems (Application Only), Orthogonal Trajectories.
13	Biswajit Chowdhury	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)
14	Debapriyo Ghosh	Concept of linear and non-linear partial differential equations, Solution partial differential equations of first order, Lagrange's method, Charpit's method.

GOUR MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

ACCREDITED BY NAAC (3rd cycle) B++

Dr. Rakesh Sarkar, Ph.D.
Head
Email id: mathgourcollege@gmail.com

P.O.-Mangalbari, Dist.-Malda, PIN-732142(W.B.)
Phone: 03512-260547; Fax: 03512-260547
Webite: www.gourmaha.ac.in

15	Debopriya Das	Homogeneous Linear ODEs of Second Order, Homogeneous Linear ODEs with Constant Coefficients
16	Dhanan Rajbansi	Basic Concepts, Modelling, Geometric Meaning of $y' = f(x, y)$, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation, Homogeneous ODEs
17	Dipanita Pramanik	Short Impulses, Dirac's Delta Function, Partial Fractions, Convolution, Differentiation and Integration of Transforms, Inverse Laplace Transform. Applications of Laplace Transforms in Solving ODEs with Constant and Variable Coefficients.
18	Gourab Sikdar	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)
19	Jaykishor Mandal	Differential Operators, Euler-Cauchy Equations, Existence and Uniqueness of Solutions, Wronskian, Nonhomogeneous ODEs, Solution by Variation of Parameters.
20	Jit Paul	Short Impulses, Dirac's Delta Function, Partial Fractions, Convolution, Differentiation and Integration of Transforms, Inverse Laplace Transform. Applications of Laplace Transforms in Solving ODEs with Constant and Variable Coefficients.
21	Joy Barman	Clairaut's form, Singular Solution, Existence and Uniqueness Theorem for Initial Value Problems (Application Only), Orthogonal Trajectories.
22	Kiranmoy Das	Concept of linear and non-linear partial differential equations, Solution partial differential equations of first order, Lagrange's method, Charpit's method.
23	Kishan Rana Ghosh	Homogeneous Linear ODEs of Second Order, Homogeneous Linear ODEs with Constant Coefficients
24	Md. Makseder Kafee	Fourier Transforms: Fourier Sine and Cosine Transforms, Forced Oscillations, Inverse Fourier Transform, Applica-tions of Fourier Transforms in Solving ODEs with Constant and Variable Coefficients.
25	Md. Naim Akhtar	Basic Concepts, Modelling, Geometric Meaning of $y' = f(x, y)$, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation, Homogeneous ODEs
26	Mihir Ranjan Pal	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)
27	Mijanur Rahaman	Formation of partial differential equations, Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations
28	Plaban Mandal	Fourier Transforms: Fourier Sine and Cosine Transforms, Forced Oscillations, Inverse Fourier Transform, Applica-tions of Fourier Transforms in Solving ODEs with Constant and Variable Coefficients.
29	Pratap Balo	Clairaut's form, Singular Solution, Existence and Uniqueness Theorem for Initial Value Problems (Application Only), Orthogonal Trajectories.
30	Pratik Biswas	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)

Head of the Deptt.
Deptt. of Mathematics
Gour Mahavidyalaya
Mangalbari, Malda.

Dr. Rakesh Sarkar, Ph.D.
Head
Email id: mathgourcollege@gmail.com



P.O.-Mangalbari, Dist.-Malda, PIN-732142(W.B.)
Phone: 03512-260547; Fax: 03512-260547
Website: www.gourmaha.ac.in

31	Pritam Paul	Concept of linear and non-linear partial differential equations, Solution partial differential equations of first order, Lagrange's method, Charpit's method.
32	Priyangshu Chowdhury	Differential Operators, Euler-Cauchy Equations, Existence and Uniqueness of Solutions, Wronskian, Nonhomogeneous ODEs, Solution by Variation of Parameters.
33	Puja Haldar	Fourier Transforms: Fourier Sine and Cosine Transforms, Forced Oscillations, Inverse Fourier Transform, Applica-tions of Fourier Transforms in Solving ODEs with Constant and Variable Coefficients.
34	Puskar Dutta	Basic Concepts, Modelling, Geometric Meaning of $y' = f(x, y)$, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation, Homogeneous ODEs
35	Raj Sarkar	Short Impulses, Dirac's Delta Function, Partial Fractions, Convolution, Differentiation and Integration of Transforms, Inverse Laplace Transform. Applications of Laplace Transforms in Solving ODEs with Constant and Variable Coefficients.
36	Ranip Rousan	Formation of partial differential equations, Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations
37	Rishika Saha	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)
38	Ritam Das	Homogeneous Linear ODEs of Second Order, Homogeneous Linear ODEs with Constant Coefficients
39	Riya Singha	Fourier Transforms: Fourier Sine and Cosine Transforms, Forced Oscillations, Inverse Fourier Transform, Applica-tions of Fourier Transforms in Solving ODEs with Constant and Variable Coefficients.
40	Rony Saha	Clairaut's form, Singular Solution, Existence and Uniqueness Theorem for Initial Value Problems (Application Only), Orthogonal Trajectories.
41	Sanjoy Halder	Short Impulses, Dirac's Delta Function, Partial Fractions, Convolution, Differentiation and Integration of Transforms, Inverse Laplace Transform. Applications of Laplace Transforms in Solving ODEs with Constant and Variable Coefficients.
42	Sanjukta Ghosh	Concept of linear and non-linear partial differential equations, Solution partial differential equations of first order, Lagrange's method, Charpit's method.
43	Sauvik Seth	Basic Concepts, Modelling, Geometric Meaning of $y' = f(x, y)$, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation, Homogeneous ODEs
44	Sayeeda Rejwana	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)
45	Sharmistha Sharma	Formation of partial differential equations, Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations
46	Shrabon Paul	Fourier Transforms: Fourier Sine and Cosine Transforms, Forced Oscillations, Inverse Fourier Transform, Applica-tions of Fourier Transforms in Solving ODEs with Constant and Variable Coefficients.

Head of the Deptt.
Deptt. of Mathematics
Gour Mahavidyalaya
Mangalbari, Malda.

GOUR MAHAVIDYALAYA

DEPARTMENT OF MATHEMATICS

ACCREDITED BY NAAC (3rd cycle) B++

Dr. Rakesh Sarkar, Ph.D.
Head
Email id: mathgourcollege@gmail.com

P.O.-Mangalbari, Dist.-Malda, PIN-732142(W.B.)
Phone: 03512-260547; Fax: 03512-260547
Webite: www.gourmaha.ac.in

47	Shreyosi Mandal	Differential Operators, Euler-Cauchy Equations, Existence and Uniqueness of Solutions, Wronskian, Nonhomogeneous ODEs, Solution by Variation of Parameters.
48	Snehargho Ghosh	Fourier Transforms: Fourier Sine and Cosine Transforms, Forced Oscillations, Inverse Fourier Transform, Applica-tions of Fourier Transforms in Solving ODEs with Constant and Variable Coefficients.
49	Somnath Bhowmik	Clairaut's form, Singular Solution, Existence and Uniqueness Theorem for Initial Value Problems (Application Only), Orthogonal Trajectories.
50	Soumojit Das	Fourier Transforms: Fourier Sine and Cosine Transforms, Forced Oscillations, Inverse Fourier Transform, Applica-tions of Fourier Transforms in Solving ODEs with Constant and Variable Coefficients.
51	Soumojit Kumar Deb	Concept of linear and non-linear partial differential equations, Solution partial differential equations of first order, Lagrange's method, Charpit's method.
52	Souvik Pramanik	Differential Operators, Euler-Cauchy Equations, Existence and Uniqueness of Solutions, Wronskian, Nonhomogeneous ODEs, Solution by Variation of Parameters.
53	Srijit Pramanick	Short Impulses, Dirac's Delta Function, Partial Fractions, Convolution, Differentiation and Integration of Transforms, Inverse Laplace Transform. Applications of Laplace Transforms in Solving ODEs with Constant and Variable Coefficients.
54	Srishti Dey	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)
55	Subhajit Paul	Basic Concepts, Modelling, Geometric Meaning of $y' = f(x, y)$, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation, Homogeneous ODEs
56	Subhankar Roy	Formation of partial differential equations, Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations
57	Sudip Kumar Adhikari	Differential Operators, Euler-Cauchy Equations, Existence and Uniqueness of Solutions, Wronskian, Nonhomogeneous ODEs, Solution by Variation of Parameters.
58	Sudipta Basak	Fourier Transforms: Fourier Sine and Cosine Transforms, Forced Oscillations, Inverse Fourier Transform, Applica-tions of Fourier Transforms in Solving ODEs with Constant and Variable Coefficients.
59	Suman Das	Clairaut's form, Singular Solution, Existence and Uniqueness Theorem for Initial Value Problems (Application Only), Orthogonal Trajectories.
60	Suman Ghosh	Short Impulses, Dirac's Delta Function, Partial Fractions, Convolution, Differentiation and Integration of Transforms, Inverse Laplace Transform. Applications of Laplace Transforms in Solving ODEs with Constant and Variable Coefficients.
61	Suman Mandal	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)
62	Supriya Mandal	Homogeneous Linear ODEs of Second Order, Homogeneous Linear ODEs with Constant Coefficients

Head of the Dept.
Deptt. of Mathematics
Gour Mahavidyalaya
Mangalbari, Malda.

Dr. Rakesh Sarkar, Ph.D.
Head
Email id: mathgourcollege@gmail.com



P.O.-Mangalbari, Dist.-Malda, PIN-732142(W.B.)
Phone: 03512-260547; Fax: 03512-260547
Webite: www.gourmaha.ac.in

63	Sutapa Tarafder	Fourier Transforms: Fourier Sine and Cosine Transforms, Forced Oscillations, Inverse Fourier Transform, Applica-tions of Fourier Transforms in Solving ODEs with Constant and Variable Coefficients.
64	Swadhin Chowdhury	Formation of partial differential equations, Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations
65	Tabassum Parvin	Basic Concepts, Modelling, Geometric Meaning of $y' = f(x, y)$, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation, Homogeneous ODEs
66	Tamanna Parvin	Concept of linear and non-linear partial differential equations, Solution partial differential equations of first order, Lagrange's method, Charpit's method.
67	Tushi Sarkar	Differential Operators, Euler-Cauchy Equations, Existence and Uniqueness of Solutions, Wronskian, Nonhomogeneous ODEs, Solution by Variation of Parameters.
68	Wahed Anwar	Short Impulses, Dirac's Delta Function, Partial Fractions, Convolution, Differentiation and Integration of Transforms, Inverse Laplace Transform. Applications of Laplace Transforms in Solving ODEs with Constant and Variable Coefficients.
69	Arman Mandal	Clairaut's form, Singular Solution, Existence and Uniqueness Theorem for Initial Value Problems (Application Only), Orthogonal Trajectories.
70	Rakibul Islam	Laplace Transform: Linearity, Applications of First Shifting Theorem (s-Shifting), Transforms of Derivatives and Integrals, Unit Step Function (Heaviside Function), Applications of Second Shifting Theorem (t-Shifting)
71	Sudipta Roy	Basic Concepts, Modelling, Geometric Meaning of $y' = f(x, y)$, Exact ODEs, Integrating Factors, Linear ODEs, Bernoulli Equation, Homogeneous ODEs
72	Sajal Sarkar	Formation of partial differential equations, Order and degree of partial differential equations, Concept of linear and non-linear partial differential equations

Head of the Deptt.
Deptt. of Mathematics
Gour Mahavidyalaya
Mangalbari, Malda.