

Teaching Plan for the Academic Session 2025-2026

Name of the Teacher: Utpala Bhaskar

Department of Mathematics, J.B. College (Autonomous)

Class/ Semester	Code & Title of the Paper Allotted (Credit)	Method of Teaching	Teaching Material	Unit	Topics	Period / Hours Required	Remarks / Books
UG 1st Sem	MTHMJ-011	Lecture, Discussion , problem solving	Chalk & Talk, Notes	Unit I, II	Properties and solution of Polynomial Equations Matrix: rank , characteristic equation , solution of system of equation	L-23 T-07	Higher Algebra, Das and Maity Matrix Algebra , Shanti Narayan
UG 1st Sem	MTHMI- 011	Lecture, Discussion problem solving	Chalk & Talk, Notes	Unit I, II	Properties and solution of Polynomial Equations Matrix: rank , characteristic equation , solution of system of equation	L-23 T-07	Higher Algebra, Das and Maity Matrix Algebra , Shanti Narayan
UG 2nd Sem	MTHMJ-021	Lecture, Discussion , problem solving	Chalk & Talk, Notes	V	Differential Equation	L-8 T-2	ODE and PDE, M. D. Raisinghania
UG 2nd Sem	MTHMI- 021	Lecture, Discussion , problem solving	Chalk & Talk, Notes	V	Differential Equation	L-8 T-2	ODE and PDE, M. D. Raisinghania
UG 3rd Sem	MTHMJ- 031- Differential Equation I	Lecture, Discussion , problem solving	Chalk & Talk,	I	Differential Equation	L-8 T-2	ODE and PDE, M. D. Raisinghania
UG 4th Sem	MTHMJ- 041- Multivariate Calculus	Lecture, Discussion , problem solving	Chalk & Talk, Notes, pdf	I, II, III, IV	Multivariate Calculus	L-45 T-15	Calculus, G. B. Thomas & R.L. Finney,

UG 5th Sem	MTHMJ-051 PDE and system of ODE	Lecture, Discussion, problem solving	Board, Notes, Books	I, II	Ordinary Differential Equation	L-23 T-07	Differential equation, S.L.Ross
UG 6th Sem	MTHMJ-061 Metric space and complex analysis	Lecture, Discussion, problem solving	Board, Notes, Textbooks	III, IV, V	Differentiation and integration of complex function and related theorem	L-23 T-07	Theory and problem of complex variable, M.R.Spiegel
PG 2nd Sem	PMTHD-201(A): Fuzzy Sets & Systems (4)	Lecture, Discussion	Chalk & Talk, Problem Solving	I, II	Fuzzy Sets, Fuzzy relation & Fuzzy Graphs	36	Fuzzy set theory Book: Klir & Yuan, H. J. Zimmermann,
PG 3rd Sem	PMTHC-303: Numerical Analysis (4)	Lecture, Discussion	Board, Exercises, Notes	I, II	Direct and Iterative methods	36	Numerical Analysis Book: Gerald & Wheatley, Jain <i>et al.</i>
PG 4th Sem	PMTHC-403: Mathematical Methods (4)	Lecture, Discussion	Chalk & Talk, Notes, Problem Solving	I, III	Calculus of variations, Non-linear Programming Problem	36	CoV Book: A.S. Gupta, NLPP Book: Swarup <i>et al.</i>