

Course Details for UG Common 1st Year Curriculum of UG Programs
(except Architecture and Pharmacy)
Faculty of Engineering & Technology,
Jadavpur University
(to be ratified in E.C. and Court Council)

Course code	BS/MTH/T111
Category	Basic Science Course
Course title	Mathematics I (To be followed in Semester I)
Scheme and Credits	L-T-P*: 3-1-0; Credits: 4.0; Semester – I
Pre-requisites (if any)	

* Contact hours per week; L – Lecture hour, T – Tutorial hour, P – Practical hour.

Syllabus

Differential Calculus (Functions of one Variable):

[7L+3T]

Rolle's theorem, Cauchy's mean value theorem (Lagrange's mean value theorem as a special case), Taylors and Maclaurin's theorems with remainders, indeterminate forms, concavity and convexity of a curve, points of inflexion, asymptotes and curvature.

Differential Calculus (Functions of several variables):

[9L+4T]

Limit, continuity and differentiability of functions of several variables, partial derivatives and their geometrical interpretation, differentials, derivatives of composite and implicit functions, derivatives of higher order and their commutativity, Euler's theorem on homogeneous functions, harmonic functions, Taylor's expansion of functions of several variables, maxima and minima of functions of several variables - Lagrange's method of multipliers.

Abstract Algebra:

[7L+3T]

Groups.; subgroups; permutation groups; cyclic groups; Lagrange's Theorem on finite groups; Homomorphisms of groups; normal subgroups; quotient groups; Isomorphism theorems; Rings; subrings; Integral domains; Fields; subfields; Finite fields; Prime fields.

Linear Algebra:

[9L+4T]

Vector spaces over the real field. Linearly dependent and independent vectors. Subspaces, basis and dimension. Matrix and Determinant; Inverse of a square matrix; Elementary row and column operations; Echelon form; Rank of a matrix; Solution of system of linear equations; Cramer's rule; Matrix inversion method. Characteristic equations; Eigenvalues and Eigenvectors; Cayley-Hamilton theorem.

Books:

1. T. M. Apostol, Calculus, Volumes I and II.
2. G. B. Thomas and R. L. Finney, Calculus, 9th Ed., Pearson Education, Delhi, 2005.
3. H. Anton, I. Bivens and S. Davis, Calculus, 7th Ed. John Wiley and Sons (Asia) P. Ltd., Singapore, 2002.
4. Joseph A. Gallian, Contemporary Abstract Algebra, 4th Ed., Narosa Publishing House, New Delhi.
5. I. N. Herstein, Topics in Algebra, Wiley Eastern Limited, India, 1975.
6. D. S. Malik, John M. Mordeson and M. K. Sen, Fundamentals of Abstract Algebra.
7. Stephan H. Friedberg, Arnold J. Insel, Lawrence E. Spence, Linear Algebra, 4th Ed., Prentice-Hall of India Pvt. Ltd., New Delhi, 2004.
8. Kenneth Hoffman, Ray Alden Kunze, Linear Algebra, 2nd Ed., Prentice Hall of India Pvt. Ltd.
9. E. Marsden, A. J. Tromba and A. Weinstein, Basic Multivariable Calculus, Springer (SIE), Indian reprint, 2005.
10. James Stewart, Multivariable Calculus, Concepts and Contexts, 2nd Ed., Brooks/Cole, Thomson Learning, USA, 2001.
11. Shanti Narayan & P. K. Mittal, Course of Mathematical analysis, S Chand, New Delhi., 2016, ISBN 978-81-219-0472-8.
12. S. C. Malik & Savita Arora, Mathematical Analysis, 5th Ed., New Age International, New Delhi, 2017, ISBN 978-93-85923-86-9.
13. M. K. Sen, S. Ghosh & P. Mukhopadhyay, Topics in Abstract Algebra, Universites Press (India) Pvt. Ltd., Hyderabad, 2006.

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