

P.I.DEGREE COLLEGE, JUNAGARH

DEPARTMENT OF MATHEMATICS BOOKS

Core Paper-1

1. H.Anton, I. Bivens and S.Davis, Calculus
10th Ed. John Wiley and Sons (Asia) P.Ltd Singapore, 2002
2. Shanti Narayan, P.K., Mittal, Differential Calculus, S. Chand, 2014
3. Shanti Narayan, P.K.Mittal, Integral Calculus, S.Chand, 2014
4. James Stewart, Single Variable Calculus, Early Transcendentals, Cengage Learning , 2016
5. G.B. Thomas and R.L. Finney, 9th Ed. Person Education, Delhi 2005

Core Paper-2

1. Edgar G. Goodaire & Michael M.Parmenter, Discrete Mathematics with Graph Theory
2. Kenneth Rosen Discrete Mathematics and its applications Mc Graw Hill Education 7th edition.
3. V Krishna Murthy, V.P Mainra, J.L.Arora, An introduction to Linear Algebra
4. J.L. Mott. A. Kendel and T.P. Baker Discrete Mathematics for computer scientists & Mathematicians

Core Paper-3

1. R.G. Bartie and D.R. Sherbert, Introduction to Real Analysis
2. G.Das & S. Pattanayak, Fundamentals of Mathematical Analysis
3. S.C. Mallik and S.Arora- Mathematical Analysis
4. A.Kumar, S.Kumaresan, A basic course in real analysis
5. Brain S. Thomson, Andrew, M. Bruckner & Judith B. Bruckner, Elementary Real Analysis
6. Genald G. Bilodeau, Paul R. Thei, G.E. Keough, An introduction to analysis, Jones & Bartleett Second edition, 2010.

Core Paper-4

1. J. Sinha Roy and S. Padhy : A course of ordinary and partial differential equation
2. Belinda Barnes and Glenn R, Fulford, Mathematical Modeling with case studies, A differential Equation Approach using Maple & Matlab.
3. Simmons G.F. Differential equation
4. Martin Braun, Differential Equations & their application
5. S.L. Ross, Differential Equation
6. C.Y. Lin Theory & Examples of ordinary Differential Equation.

Core Paper-5

1. R. G. Bartie & D.R. Sherbert, Introduction to Real Analysis
2. G.Das & S. Pattanayak, Fundamentals of Mathematics Analysis
3. S.C. Malik and S. Arora, Mathematical analysis
4. A.Kumar, S. Kumaresan, A basic course in Real Analysis
5. K.A. Ross, Elementary Analysis, The theory of calculus, Undergraduate texts in Mathematics.
6. Charles G. Denlinger, Elements of real analysis

Core Paper-6

1. Joseph A. Gallian, Contemporary Abstract Algebra
2. John B. Fraleigh, A first course in Abstract Algebra
3. M. Artin, Abstract Algebra
4. Joseph J. Rotman, An introduction to the theory of Groups
5. J.N.Herstein, Topics in Algebra.

Core Paper-7

1. Tyn Myint-V and Lokenath Debnath, Linear Partial Differential Equation for scientists and Engineers
2. S.L. Ross, Differential Equations.
3. J. Sinha Roy and S. Padhy : A course of ordinary and partial differential equations
Kalyani Publishers
4. Marhta L. Abell, James. P Braselton, Differential equations with mathematical
5. Robert C. MC owen : Partial differential equations.
6. T.Amarnath : An elementary course in Partial differential equations.

Core Paper-8

1. M.K.Jain, S.R.K. Iyengar and R.K.Jain
Numerical methods for scientific and engineering computation
2. Michel Heath : Scientific computing : An introductory Survey
3. B.Brudio, A friendly introduction to Numerical Analysis.
4. Kendall E Atkinson : An introduction to numerical analysis
5. C.F. Gerald and P.O. Wheatly AP id Numerical Analysis
6. S.D. conte & S.de Boor : Elementary Numerical Analysis : An Algorithmic Approach

Core Paper-9

1. Satish Shirali & Hari Kishan Lo Vasudeva, Metric spaces
2. S. Kumaresan, Topology of Metric spaces.

Core Paper-10

1. Joseph A. Gallian, Contemporary Abstract Algebra
2. John. B. Fraleigh, A first course in Abstract Algebra
3. M. Artin Abstract Algebra

4. Joseph I. Rotman, An introduction to the theory of Groups
5. I.N. Herstein, Topics in Algebra

Core Paper-11

1. M.J. Strauss, G.L. Bradley and K.J. Smith Calculus
2. S.C.Mallik and Arora : Mathematical Analysis
3. G.B. Thomas and R.L. Finney, Calculus.
4. E. Marsden, A.J. Tromba and A. Weinstein, Basic Multivariable Calculus
5. James Stewart, Multi variable calculus, concepts and contexts.
6. S. Ghorpade, B.V. Limaye, Multivariable Calculus

Core Paper-12

1. Stephen H. Friedberg, Arnold J. Insel, Lawrence E. Spence, Linear Algebra
2. Rao A. R. and Bhim Sankaram Linear Algebra
3. Gilbert Strang, Linear Algebra and its applications.

Core Paper-13

1. Elias M. Stein & Romi Shakarchi, Complex Analysis.
2. G.F. Simmons, Introduction to Topology and Modern Analysis
3. Joseph Bak and Donald I : Newman, Complex analysis

4. Core Paper-14

1. John B. Fraleigh, A first course in Abstract Algebra
2. Joseph A. Gallian Contemporary Abstract Algebra
3. M.Artin, Abstract Algebra
4. David S. Dummit and Richard M. Foote Abstract Algebra
5. J.R. Durbin, Modern Algebra, John Wiley & Sons


Principal 5/12/22
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