पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.)

दूरभाष : 0771–2262802 (अकादमिक),0771–2262540 (कुलसचिव),फैक्स–0771–2262818, 2262607, ई–मेलः academicprsu3@gmail.com

क्रमांक 1417 /अका./पाठ्यक्रम/2025 रायपुर, दिनांक :29/07/2025

प्रति,

प्राचार्य
संबद्ध समस्त महाविद्यालय
पं.रविशंकर शुक्ल विश्वविद्यालय
रायपुर

विषय :– **स्नातक स्तर B.A./B.Sc. Part-III के पाठ्यक्रम में गणित विषय के Optional-I चार प्रश्न पत्रों के प्रकाशन के संबंध में।**

संदर्भ :– विश्वविद्यालय का पत्र क्रमांक 1276/अका./2025, दिनांक 10.07.2025

––00––

शिक्षा सत्र 2025–26 बी.ए./बी.एस.सी. भाग–तीन के पाठ्यक्रम गणित विषय के Optional-I के **निम्नलिखित चार प्रश्न–पत्रों के पाठ्यक्रम संलग्न कर प्रेषित किए जा रहे हैं :–**

Math-5T Optional I (Any One)

1. Mechanics
2. Numerical Methods
3. Linear Algebra
4. Integral Transforms and Fourier Analysis

आपसे अनुरोध है कि इसे यथा स्थान समाहित कर B.A./B.Sc. Part-III के शिक्षकों एवं छात्रों को अवगत कराते हुए अध्ययन–अध्यापन कार्य संपन्न करावें।

संलग्न :– उपरोक्तानुसार

भवदीय,

उप कुलसचिव (अका.)

पृ. क्रमांक 1418 /अका./पाठ्यक्रम/2025 रायपुर, दिनांक :29/07/2025

प्रतिलिपि :–

1. उप–कुलसचिव परीक्षा/सहायक कुलसचिव गोपनीय विभाग
2. प्रभारी अधिकारी, नामांकन/उपाधि प्रकोष्ठ, कम्प्यूटर सेंटर गोपनीय/विकास विभाग
3. संचालक, आई.क्यू.ए.सी. सेल/अधिष्ठाता, छात्र कल्याण
4. संचालक, महाविद्यालय विकास परिषद
5. संचालक, भारतीय राष्ट्रीय उपभोक्ता सहकारी संघ मर्यादित, 320AD इंदिरा नगर, स्पीकर हाउस के सामने, कांके रोड, रांची
6. कुलपति जी के सचिव/कुलसचिव के निज सहायक, पं.रविशंकर शुक्ल विश्वविद्यालय, रायपुर को सूचनार्थ अग्रेषित।

कक्ष अधिकारी (अका.)

Scheme of B. Sc. Mathematics

B.A

Year	Course Code	Subject Name	Theory/ Practical	Total Credit	Total Marks	
					Max	Min
First year	MATH-1T	Calculus	Theory	4	50	33
	MATH-2T	Algebra	Theory	4	50	
	MATH-1P **(Any One)**	Lab 1 : Calculus and Algebra	Practical	2	50	17
		Project 1 : History of Mathematicians	Project	2	50	17
Second year	MATH-3T	Differential Equations	Theory	4	50	33
	MATH-4T	Real Analysis	Theory	4	50	
	MATH-2P **(Any One)**	Lab 2 : Differential Equations and Real Analysis	Practical	2	50	17
		Project 2 : History of Mathematicians	Project	2	50	17
Third year	MATH-5T **Optional I (Any One)**	Mechanics	Theory	4	50	33
		Numerical Methods	Theory	4	50	
		Linear Algebra	Theory	4	50	
		Integral Transforms and Fourier Analysis	Theory	4	50	
	MATH-6T **Optional II (Any One)**	Discrete Mathematics	Theory	4	50	
		Tensors and Differential Geometry	Theory	4	50	
		Number Theory	Theory	4	50	
		Probability and Statistics	Theory	4	50	
	MATH-3P **(Any One)**	Lab 3 : Mathematics Paper 1 and Paper 2	Practical	2	50	17
		Project 3 : History of Mathematicians	Project	2	50	17

Note: There shall be four extra credits in all the years of under graduation for internship/apprenticeship. The certificate of extra credits would be provided by the concern university and is not mandatory.

Part A: Introduction				
Program: Degree Course		Class: B. A. / B.Sc. Part III	Year: 2022	Session:2024-2025
1	Course Code	Paper – MATH – 5T(I)		
2	Course Title	Mechanics		
3	Course Type	Theory		
4	Pre-requisite (if any)	No		
5	Course Learning Outcome (CLO)	**This Course will enable the students to:** • Familiarize with subject matter, which has been the single centre, to which were drawn mathematicians, physicists, astronomers and engineers together. • Understand necessary conditions for the equilibrium of particles acted upon by various forces and learn the principle of virtual work for a system of coplanar forces acting on a particle. • Determine the centre of gravity of materialistic systems and discuss the equilibrium of a uniform cable hanging freely under its own weight. • Deal with the kinematics and kinetics of the rectilinear and planar motions of a particle including the constrained oscillatory motions of particle. • Learn that a particle moving under a central force describes a plane curve and know the Kepler's laws of the planetary motions, which were deduced by him long beforethe mathematical theory given by Newton.		
6	Credit Value	4		
7	Total Marks	Maximum Marks : 50		Minimum Passing Marks : 17

Part B: Content of the Course Total Periods: 60		
Unit	Topics	No. of Periods
I	**Statics:** Coplanar forces, Couples, Moment of force and a couple about a point and a line, Equilibrium of a particle and of a system of particles; Work and potential energy, Principle of virtual work for a system of coplanar forces acting on a particle, Forces which can be omitted in forming the equations of virtual work.	12
II	**Centre of Gravity and Common Catenary:** Concepts of Centre of mass and Centre of gravity, Centre of gravity of an uniform arc, plane area and solids of revolution; Common catenary, Approximations of a catenary.	12
III	**Rectilinear Motion:** Simple harmonic motion and its geometrical representation, Motion under inverse square law, Motion in resisting media, Concept of terminal velocity, Motion of varying mass.	12
IV	**Motion in a Plane:** Kinematics and kinetics of motion, Expressions for velocity and acceleration in cartesian, polar and intrinsic coordinates; Motion in a vertical circle, projectile and cycloidal motion.	12
V	**Central Orbits:** Equation of motion under a central force, Differential equation of an orbit, (p, r) equation of an orbit, Apses and apsidal distances, Areal velocity, Characteristics of central orbits, Kepler's laws of planetary motion.	12

Part C - Learning Resource
Text Books, Reference Books: 1. R. S. Varma (1962). *A Text Book of Statics*. Pothishala Pvt. Ltd. 2. P.L. Srivastava (1964). *Elementary Dynamics*. Ram Narain Lal, Beni PrasadPublishers Allahabad. 3. J. L. Synge & B. A. Griffith (1949). *Principles of Mechanics*. McGraw-Hill. 4. S.L. Loney (2006). *An Elementary Treatise on the Dynamics of a Particle and ofRigid Bodies*. Read Books. 5. A. S. Ramsey (2009). *Statics*. Cambridge University Press. 6. A. S. Ramsey (2009). *Dynamics*. Cambridge University Press. **E-Resources** 1. Suggested Equivalent **online courses:** Web link NPTEL/ SWAYAM/ MOOCs 2. https://www.youtube.com/playlist?list=PLwdnzlV3ogoXUbQmP-T2gPhYXeEcxP6U8

Part D: Assessment and Evaluation	
Suggested Continuous Evaluation Methods:	
Maximum Marks:	50 Marks

Declaration

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Part A: Introduction				
Program: Degree Course		Class: B. A. / B.Sc. Part III	Year: 2022	Session:2024-2025
1	Course Code	Paper – MATH – 5T(II)		
2	Course Title	Numerical Methods		
3	Course Type	Theory		
4	Pre-requisite (if any)	No		
5	Course Learning Outcome (CLO)	**This Course will enable the students to:** • Obtain numerical solutions of algebraic and transcendental equations. • Find numerical solutions of system of linear equations and to check the accuracy ofthe solutions. • Learn about various interpolating and extrapolating methods to find numericalsolutions. • Solve initial and boundary value problems in differential equations using numericalmethods. • Apply various numerical methods in real life problems.		
6	Credit Value	4		
7	Total Marks	Maximum Marks : 50	Minimum Passing Marks : ...	

Part B: Content of the Course Total Periods: 60		
Unit	Topics	No. of Periods
I	**Numerical methods for solving algebraic and transcendental equations:** Round-off error and computer arithmetic, Local and global truncation errors, Algorithms and convergence; Bisection method, false position method, fixed point iteration method, Newton's method and secant method for solving equations.	12
II	**Numerical Methods for Solving Linear Systems:** Partial and scaled partial pivoting, LU decomposition and its applications, Thomas method for tridiagonal systems; Gauss-Jacobi, Gauss-Seidel and successive over-relaxation (SOR) methods.	12
III	**Interpolation**: Lagrange and Newton interpolations, Piecewise linear interpolation, Cubic spline interpolation, Finite difference	12

	operators, Gregory-Newton forward and backward difference interpolations.	
IV	**Numerical Differentiation and Integration:** First order and higher order approximation for first derivative, Approximation for second derivative; Numerical integration: Trapezoidal rule, Simpson's rule and its error analysis, Bulirsch-Stoer extrapolation methods, Richardson extrapolation.	12
V	**Initial and Boundary Value Problems of Differential Equations:** Euler's method, Runge-Kuttamethods, Higher order one step method, Multi-step methods; Finite difference method, Shooting method, Real life examples: Google search engine, 1D and 2D simulations, Weather forecasting.	12

Part C - Learning Resource
Text Books and Reference Books: 1. Brian Bradie , *A Friendly Introduction to Numerical Analysis.* Pearson. 2006 2. C. F. Gerald & P. O. Wheatley. *Applied Numerical Analysis* (7th edition),Pearson Education, India. 2008 3. M.K. Jain, S. R. K. Iyengar & R. K. Jain. *Numerical Methods for Scientificand Engineering Computation* (6th edition). New Age International Publishers. 2012 4. Robert J. Schilling & Sandra L. Harris. *Applied Numerical Methods forEngineers Using* MATLAB *and* C. Thomson-Brooks/Cole.1999 **E- Resources:** 1. Suggested Equivalent **online courses:** Web link NPTEL/ SWAYAM/ MOOCs 2. https://www.youtube.com/watch?v=pOtnzAXlXv1&list=PL3pGy4HtqwD0CWdFuygdF-gk0ORk5EFZg

Part D: Assessment and Evaluation	
Suggested Continuous Evaluation Methods:	
Maximum Marks:	50 Marks

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Part A: Introduction				
Program: Degree Course		Class: B. A. / B.Sc. Part III	Year: 2022	Session:2024-2025
1	Course Code	Paper – MATH – 5T(III)		
2	Course Title	Linear Algebra		
3	Course Type	Theory		
4	Pre-requisite (if any)	No		
5	Course Learning Outcome (CLO)	**This Course will enable the students to:** • Learn about properties of linear transformation and isomorphism theorems. • Understand the concept of polynomials and their prime factorization. • Find canonical form of linear transformations. • Obtain various variants of diagonalisation of linear transformations. • Apply Cauchy-Schwarz inequality for deriving metric on inner product spaces and obtain orthonormal basis using Gram-Schmidt orthogonalisation.		
6	Credit Value	4		
7	Total Marks	Maximum Marks : 50	Minimum Passing Marks :	

Part B: Content of the Course Total Periods: 60		
Unit	Topics	No. of Periods
I	**Properties of Linear Transformation:** Vector spaces, Linearly independent and dependent sets, Bases and dimension, Linear transformation, Linear functional, Dual spaces and second dual space, Transpose of linear transformation, Algebra of linear transformations, Isomorphism theorems.	12

II	**Polynomials:** Algebras, The algebra of polynomials, Lagrange interpolation, Vandermonde matrix, Polynomial ideals, Taylor's formula, The prime factorization of a polynomial, Algebraically closed fields.	12
III	**Elementary Cannonical Forms:** Determinant functions, Characteristic values of a linear transformation, Cayley-Hamilton theorem for linear transformations, Annihilating polynomials, Invariant subspaces, Minimaland characteristic polynomials.	12
IV	**Diagonalisation and Jordan Cannonical Form:** Diagonalisability of linear transformations, Direct sum decomposition, Invariant direct sums, The primary decomposition theorem, Triangular form, Jordan canonical form, trace and transpose.	12
V	**Inner Product Spaces:** Definition and examples of inner product space, orthogonality, Cauchy-Schwarz inequality, Gram-Schmidt orthogonalisation, Diagonalisation of symmetric matrices, Hermitian, Unitaryand normal operators.	12

Part C - Learning Resource

Text Books, Reference Books,

1. I. M. Gel'fand. *Lectures on Linear Algebra.* Dover Publications. 1989
2. Kenneth Hoffman & Ray Kunze. *Linear Algebra* (2nd edition). Prentice-Hall. 2015
3. Nathan Jacobson. *Basic Algebra* I (2nd edition). Dover Publications. 2009
4. Nathan Jacobson *Basic Algebra* II (2nd edition). Dover Publications. 2009.
5. Serge Lang *Introduction to Linear Algebra* (2nd edition). Springer India. 2005.
6. Gilbert Strang. *Linear Algebra and its Applications* (2nd edition). Elsevier. 2014

E- Resources:

1. Suggested Equivalent **online courses:** Web link NPTEL/ SWAYAM/ MOOCs
2. https://www.youtube.com/watch?v=9h_Q-R6sXbM&list=PL7oBzLzHZ1wXQvQ938Wg1-soq09GywgOw

Part D: Assessment and Evaluation	
Suggested Continuous Evaluation Methods:	
Maximum Marks:	50 Marks

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Part A: Introduction				
Program: Degree Course		Class: B. A. / B.Sc. Part III	Year: 2022	Session:2024-2025
1	Course Code	Paper – MATH – 5T(IV)		
2	Course Title	Integral Transforms and Fourier Analysis		
3	Course Type	Theory		
4	Pre-requisite (if any)	No		
5	Course Learning Outcome (CLO)	**This Course will enable the students to:** • Know about piecewise continuous functions, Dirac delta function, Laplace transformsand its properties. • Solve ordinary differential equations using Laplace transforms. • Explain Parseval's identity, Plancherel's theorem and applications of Fourier transforms to boundary value problems. • Learn Fourier series, Bessel's inequality, term by term differentiation and integrationof Fourier series.		
6	Credit Value	4		
7	Total Marks	Maximum Marks : 50	Minimum Passing Marks :	

Part B: Content of the Course Total Periods: 60		
Unit	Topics	No. of Periods
I	**Laplace Transforms:** Integral transform, Kernel of an integral transform, Reduction of integral transform into Laplace transform, Linearity, Existence theorem, Laplace transforms of derivatives and integrals, Shifting theorems, Change of scale property, Laplace transforms of periodic functions, Dirac's delta function.	12
II	**Further Properties of Laplace Transforms and Applications:** Differentiation and integration of transforms, Convolution theorem, Integral equations, Inverse Laplace transform, Lerch's theorem, Linearity property of inverse Laplace transform, Translations theorems of inverse Laplace transform, Inverse	12

	transform of derivatives, Applications of Laplace transform in obtaining solutions of ordinary differential equations and integral equations.	
III	**Fourier Transforms:** Fourier and inverse Fourier transforms, Fourier sine and cosine transforms, Inverse Fourier sine and cosine transforms, Linearity property, Change of scale property, Shifting property, Modulation theorem, Relation between Fourier and Laplace transforms.	12
IV	**Solution of Equations by Fourier Transforms :** Solution of integral equation by Fourier sine and cosine transforms, Convolution theorem for Fourier transform, Parseval's identity for Fourier transform, Plancherel's theorem, Fourier transform of derivatives, Applications of infinite Fourier transforms to boundary value problems, Finite Fourier transform, Inversion formula for finite Fourier transforms.	12
V	**Fourier Series:** Fourier cosine and sine series, Fourier series, Differentiation and integration of Fourier series, Absolute and uniform convergence of Fourier series, Bessel's inequality, The complex formof Fourier series.	**12**

Part C - Learning Resource

Text Books, Reference Books:

1. James Ward Brown & Ruel V. Churchill. *Fourier Series and Boundary Value Problems*. McGraw-Hill Education. 2011
2. Charles K. Chui. *An Introduction to Wavelets*. Academic Press 1992
3. Erwin Kreyszig. *Advanced Engineering Mathematics* (10th edition). Wiley. 2011
4. Walter Rudin. *Fourier Analysis on Groups*. Dover Publications. 2017
5. A. Zygmund. *Trigonometric Series* (3rd edition). Cambridge University Press. 2002

Other Resources:

1. Suggested Equivalent **online courses:** Web link NPTEL/ SWAYAM/ MOOCs
2. https://www.youtube.com/watch?v=FGjMZ1uMRrs&list=PLhSp9OSVmeyJ5N-JUEZj7uS6IAT9a79nD

Part D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks: 50 Marks

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