यशवंतराव चव्हाण शिक्षण प्रसारक मंडळाचे

दादासाहेब दिगंबर शंकर पाटील

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YASHWANTRAO CHAVAN SHIKSHAN PRASARAK MANDAL'S

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DEPARTMENT OF MATHEMATICS					
Course Specific Outcomes					
Class	Subject	Learning Outcome			
F. Y. BSc -I	Matrix Algebra	 understand concepts on matrix operations and rank of the matrix. understand use of matrix for solving the system of linear equations. understand basic knowledge of the eigen values and eigen vectors. apply Cayley-Hamilton theorem to find the inverse of the matrix. know the matrix transformation and its applications in rotation, reflection, translation 			
F. Y. BSc -I	Calculus	 understand basic concepts on limits and continuity. understand use of differentiations in various theorems. know the Mean value theorems and its applications. make the applications of Taylor's, Maclaurin's theorem. know the applications of calculus understand basic concepts on limits and continuity. understand use of differentiations in various theorems. know the Mean value theorems and its applications. understand basic concepts on limits and continuity. understand use of differentiations in various theorems. know the Mean value theorems and its applications. make the applications of Taylor's, Maclaurin's theorem. know the applications of Calculus 			
F. Y. BSc -I	Co-ordinate Geometry	 Students can visualize geometrical concepts and draw two dimensional figures and can find their standard forms by shifting and rotation of axes. Students also can draw three dimensional figures and their equations particularly Sphere, Cone and Cylinder 			
F. Y. BSc -II	Ordinary Differential Equation	 understand basic concepts in differential equations. understand method of solving differential equations understand use of differential equations in various fields. 			
F. Y. BSc -II	Theory of Equation	 Students can find out roots of any equation of degree less than or equal to five. Theory of equations is highly useful in various subjects like algebra, linear algebra, calculus, ordinary and partial differential equations etc. 			



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F. Y. BSc -II		 understand basic concepts on Laplace and Inverse Laplace transforms.
	Laplace	2. Understand convolution theorem.
	Transformation	3. understand use of Laplace transform in solving Differential
		Equations.
S. Y. BSc -III		1. limit and continuity of functions of several variables
		2. fundamental concepts of multivariable Calculus.
		3. series expansion of functions.
	Calculus of	4. extreme points of function and their maximum, minimum
	Several	values at those points.
	Variables	5. meaning of definite integral as limit as sums.
		6. how to solve double and triple integration and use them to
		find area by double integration and volume by triple
		integration.
		1. understand group and their types which is one of the
		building blocks of pure and applied mathematics.
S. Y. BSc -III		2. understand Lagarnge, Euler and Fermat theorem
	Group Theory	3. understand concept of automorphism of groups
		4. understand concepts of homomorphism and isomorphism
		5. understand basic properties of rings and their types such as
		integral domain and field.
		1. Uses of the language of set theory, designing issues in
		different subjects of mathematics
		2. understand the issues associated with different types of
		finite and infinite sets via countable uncountable sets
		3. knowledge of the concepts and methods of
	Set theory and	mathematical logic, set theory, relation calculus, and
S. Y. BSc -III	logic	concepts concerning functions which are included in the
		fundamentals of various disciplines of mathematics
		4. understanding the role of propositional and predicate
		calculus
		5. able to provide the logical mathematical reasoning,
		formulate theorems and definitions
		1. The course is aimed to introduce the theory for functions of
S. Y. BSc -IV		complex variables
		2. Students will understand the concept of analytic function
	Complex	3. Students will understand the Cauchy Riemann Equations
	Variables	4. Students will understand harmonic functions
		5. Students will understand complex integrations
		6. Students will understand calculus of residues.
		7. Students will acquire the skill of contour integrations.
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S. Y. BSc -IV	Differential Equation	 Students will aware of formation of differential equations and their solutions Students will understand the concept of Lipschitz condition Students will understand method of variation of parameters for second order L.D.E. Students will understand simultaneous linear differential equations and method of their solutions Students will understand Pfaffian differential equations and method of their solutions Students will understand difference equations and their solutions
S. Y. BSC -IV	Vector Algebra	 understand scalar and vector products understand vector valued functions and their limits and continuity and use them to estimate velocity and acceleration of partials. Calculate the curl and divergence of a vector field. Set up and evaluate line integrals of functions along curves.