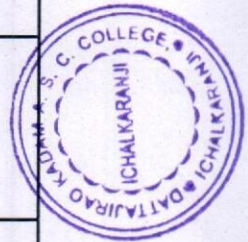


DATTAJIRAO KADAM ARTS, SCIENCE AND COMMERCE COLLEGE, ICHALKARANJI
DEPARTMENT OF MATHEMATICS

Details of Cross Cutting Issues relevant with Gender Awareness, Environmental Awareness, Professional Ethics and Human Values

Name of the Course	Title of Paper	Sem.	Name of the Unit	Details of Cross Cutting Issues relevant with				Human Values
				Gender Awareness	Environmental Awareness	Professional Ethics	Human Values	
B.Sc.-II	Real Analysis-I	III	Functions And Countable sets			1. Rigor and Accuracy 2. Acknowledging contribution	1. Intellectual Humility 2. Perseverance and Perfectionism	
			The Real Numbers			1. Precision and Honesty 2. Respect for foundation	1. Curiosity and Wonder 2. Attention to Detail	
			Matrices			1. Clarity and transparency 2. Accountability for errors	1. Organizational Skills and Orderliness 2. Problem solving and Creativity	
	Algebra-I	III	Eigen value and Eigen Vector , Caley -Hamilton Theorem			1. Accurate eigen calculation 2. Proper acknowledgment	1. Appreciate eigen application 2. Beauty of Maths structure	
			Sequence Of Real Numbers			1. Accuracy and Reliability 2. Clarity and transparency	1. Patience and Persistence 2. Analytical Thinking	
	Real Analysis-II	IV	Infinite Series			1. Rigor and Accuracy 2. Acknowledging Limitations	1. Tenacity and Resilience 2. Intellectual Curiosity	
			Groups			1. Objectivity and Impartiality 2. Crediting Original Work	1. Collaboration and Teamwork 2. Logical reasoning and creativity	
			Normal Subgroup			1. Accuracy and Precision 2. Respect for precedents	1. Critical thinking and analysis 2. Perseverance and diligence	



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					Gender Awareness	Environmental Awareness	Professional Ethics	Human Values	
1	B.Sc.-I	Calculus	I	Limit, Continuity and Differentiability			1. Honesty in Results 2. Meticulousness in Calculation	1. Perseverance in Understanding 2. Perfectionism in Reasoning	
				Mean Value Theorems, Successive Differentiation, Expansions of functions			1. Objectivity in Application 2. Thoroughness in Verification	1. Creativity in Problem-Solving 2. Attention to Detail	
		Differential Equation			1. Accuracy in Modeling 2. Reliability in Solutions	1. Logical Thinking 2. Analytical Mindset			
		Linear differential equations with constant coefficients			1. Consistency in Application 2. Clarity in Presentation	1. Methodical Approach 2. Intellectual Honesty			
		Multivariable calculus	II	Partial differentiation			1. Rigor in Computation 2. Transparency in Methods	1. Curiosity in Exploration 2. Precision in Reasoning	
				Extreme values and Jacobian			1. Objectivity in Optimization 2. Accountability in Calculation	1. Insightfulness in Analysis 2. Meticulousness in Verification	
		Basic Algebra		Functions, divisibility and congruence			1. Accuracy in Representation 2. Consistency in Application	1. Logical Reasoning 2. Attention to Detail	
				complex numbers			1. Precision in Calculation 2. Honesty in Representation	1. Imagination in Problem-Solving 2. Analytical Thinking	




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Details of Cross Cutting Issues relevant with Gender Awareness, Environmental Awareness, Professional Ethics and Human Values

Sr. No.	Name of the Course	Title of Paper	Sem.	Name of the Unit	Details of Cross Cutting Issues relevant with			
					Gender Awareness	Environmental Awareness	Professional Ethics	Human Values
1	B.Sc.- III	Mathematical Analysis	V	Reimann Integration			1. Rigor and Justification 2. Acknowledging Assumption	1. Attention to Detail and Patience 2. Understanding and insight
				Improper integral and Fourier transform			1. Rigor 2. Acknowledging Assumption	1. Attention to Detail 2. Understanding
				Groups and rings			1. Accuracy in Proofs 2. Crediting original work	1. Logical reasoning and insight 2. Collaboration and Communication
				Polynomial ring and unique Factorization domain			1. Precision in definition 2. Honesty in Attribution	1. Appreciation for structure 2. Preseverance in proof-finding
				Sequence Of Real Numb			1. Intellectual property in math research 2. Responsible maths modelling	1. Diversity in maths education 2. Beauty of mathematical concept
				Infinite Series			1. Rigor in convergence test 2. Transperency in Approximation	1. Patience and persistence 2. Curiosity and exploration
				Laplace and inverse of Laplace transform			1. Proper citation in Laplace transform 2. Responsible application	1. Appreciation 2. Reasoning beauty
				Fourier Transformation			1. Accurate data representation 2. Responsible technique use	1. Appreciate Fourier contribution 2. Mathematics transformative power



2	B.Sc.- III	Metric Space	VI	Limit in metric space				1. Accuracy in definition 2. Clarity in proof presentation	1. Attention to detail 2. Understanding and Intuition
				Connectedness, compactness and completeness				1. Rigor In proof Constuction 2. Acknowledging Countere Examples	1. Persistence in problem-Solving 2. Appreciation for Mathematical Structure
				Vector space				1. Accuracy 2. Proper Citation of theprems	1. Analytical Thinking 2. Creativity in Problem Solving
				Eigen value and eigen vector				1. Precision in Eigenvalue 2. Honesty in Representing	1. Curiosity 2. Preservation in Solving Eigen value problems
				Analytic function and complex integration				1. Rigor 2. Accuracy in complex integration	1. Imagination inn visualising in cmplex number 2. Beauty of Complex number
				Sequence, series and residue calculus				1. Rigor 2. Accuracy	1. Imagination 2. Tenacity
				Mathematical logic				1. Avoid logical fallacies 2. Proper attribution	1. Logic in critical thinking 2. Beauty of logical reasoning
				Graphs and trees				1. Accurate graph modelling 2. proper citation	1. Appreciate connectivity 2. Beauty of tree structure



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