



Research Themes Approved by 10th BASR



Research Themes

Approved Research Themes	TOPICAL THEMES	No of Students
Computational Mathematics and its applications Group Members: 1. Dr Naila Rafiq And Her students	Development of Iterative Techniques for solving nonlinear Equations	05
	Approximation techniques for definite integrals	
	Development of Finite element and Finite difference methods for solving ODE's and PDE's	
	Construction of iterative methods for solving large system of linear equations.	
	Optimization techniques for scientific problems	



Research Themes

Approved Research Themes	TOPICAL THEMES	No of Students
Applied Mathematics and its applications Group Members: 1. Dr Anum Naseem 2. Dr Asia Anjum 3. Dr Hadia Tariq 4. Dr Muhammad Mohsin	Numerical Study of Newtonian/Non-Newtonian fluid flow problems using similarity transformations.	04
	Analytical/Numerical investigation of Heat and Mass transfer in fluid flow.	
	Symmetries and conservation laws of dynamical systems.	
	Asymptotical and Numerical Analyses of Liquid Jets	



Research Themes

Approved Research Themes	TOPICAL THEMES	No of Students
Pure Mathematics and its applications Group Members: 1. Dr Safyan Ahmad	Role of Commutative Algebra in Computer Security and Cryptography	00
	On Crossroads of Graph Theory and Chemistry	
	Data Compression techniques using Coding Theory	
	Algorithm Complexity and Computational Algebra	