

List of M.Sc. by Research / Ph.D. course work subjects that can be offered under  
Civil Engineering Group from 2009

Group I		Group II		Group III		Group IV	
Subject Code	Name of the subject	Subject Code	Name of the subject	Subject Code	Name of the subject	Subject Code	Name of the subject
09 CCS - 11	Mechanics of Deformable Bodies	09 CCS - 12	Computational Structural Mechanics	09 CCS - 13	Computational Structural Dynamics	09 CCS - 151	Composites and Smart – Materials
09 CCS - 141	Computer Aided Optimum Design of Structures	09 CCS - 241	Earthquake Resistant Design of structures	09 CCS - 251	Reliability Analysis and Reliability based Design of Structures	09 CHY - 23	GIS and Remote Sensing applications to Water Resources
09 CHY - 11	Applied Mathematics	09 CHY - 21	Water Resources Planning, Design & Management	09 CHY - 242	Closed conduit flow	09 CHY - 252	Environmental Management of Water Resources
09 CHY - 13	Advanced Hydraulics	09 CCT - 152	Structural Masonry	09 CCT - 153	Rehabilitation of Structures	09 CIS - 21	Finite Element Analysis
09CCT - 13	Advances in Construction Materials.	09 CCT - 21	Construction Economics and Finance	09 CHT - 153	Rural Roads	09 CHT - 253	Road Safety and Traffic Management
09 CCT - 241	Construction Quality and Safety	09 CHT - 241	Special problems in Road Construction	09 CIS - 141	Safety of Structures	09 CIS - 142	Numerical Methods in Mechanics & Engineering
09 CHT - 142	Applied	09 CGT - 143	Advanced	09 CIS - 152	Optimization	09 CIS - 153	Pre

	Statistics and Computational Methods		pavement design				Fabrication and Precast Structures
09 CIS - 12	Applied Elasticity Plasticity and Fracture Mechanics	09 GIT - 141	Photogrammetry, Geodesy and GPS	09 CGT - 151	Environmental geo-techniques	09 CGT - 252	Critical State Soil Mechanics
09 CIS - 251	Advanced Strength of Materials	09 CHY -22	Ground Water Hydrology	09 GIT - 241	Applications of Geo-informatics for Natural Resources Management	09 GIT - 12	Basics and Fundamentals of Remote Sensing
09 CGT - 142	Ground Improvement Techniques	09 CEE - 153	Energy & Environment	09 CIS - 151	Concrete Technology	09 GIT - 243	Advanced Digital Image Processing
09 MWR - 22	Water Shed Management	09 CEE - 21	Atmospheric Environmental Pollution and Control	09 CEE - 22	Industrial Wastewater Treatment	09 CEE - 143	Remote Sensing & GIS in Environmental Engineering
09 CEE - 13	Wastewater Treatment Engineering	09 CEE - 23	Ecology & Environmental Impact Assessment	09 CEE - 253	Occupational Safety & Health	09 CEE - 242	Hazardous Waste Management
09 CEE - 151	Transport Process and Modeling in Aquatic Systems					09 CEE - 252	Environmental Planning and Management