

PhD Qualifying Areas

Academic Research (Ph. D. Programme) Division

Birla Institute of Technology and Science, Pilani

Aug 2014

Ph D Qualifying subareas of all departments

Department	Ph D QE subarea
Biological Sciences	Environmental and Microbial Biotechnology
2.0.08.00.00.000	Parasitology and Vector Biology
	Bioinformatics and Computational Biology
	4. Plant Biotechnology
	5. Cancer Biology and Chronic Diseases
	6. Biochemistry & Biophysics
	7. Molecular Biology & Immunology
	8. Animal Biotechnology
Chemical Engineering	Transport Phenomena & Separation Processes
Chemical Engineering	Chemical Reaction Engineering & Thermodynamics
	Material Science and Engineering
	Environmental Engineering
	Energy and Process System Engineering
	6. Petroleum and Petrochemical Engineering
	7. Biochemical Engineering
CC/IC	
CS/IS	1. AI, Machine Learning & Data Mining
	2. Computer Architecture, Embedded Systems & Robotics
	3. Databases & Data Warehousing
	4. High Performance & Distributed Computing
	5. Image Processing & Multimedia
	6. Networking & Mobile Computing
	7. Algorithms Theoretical Computer Science
Management	1. Finance & Accounting
	2. Marketing
	3. Organizational Behavior & Human Resource Management
	4. Operations Management & Decision Science
	5. Information Technology & Technology Management
	6. Strategy & Entrepreneurship
Mechanical	1. Design engineering
	2. Thermal engineering
	3. Fluid engineering
	4. Manufacturing engineering & management
	5. Material science and engineering
	6. Industrial engineering and management
	7. Computer aided engineering
Humanities & Social	Cultural Studies: Media and Communication, Film, Theatre
Sciences	2. English Language and Literature
	3. Philosophy: Indian Philosophy and Ethics
	4. Education
	5. History and Politics
	6. Psychology: Research Methodology, Positive Psychology
	7. Public Administration and Development Studies
	8. Environment Studies
Pharmacy	1. Pharmaceutics and Pharmacokinetics
	2. Pharmaceutical Chemistry, Natural Drugs and Phyto-Chemistry
	3. Pharmacology and Toxicology
	Pharmaceutical Analysis and Quality Assurance
	5. Clinical Research and Clinical Pharmacy

	6. Pharmaceutical Biotechnology
Physics	Astrophysics & Cosmology
i ilysics	2. Condensed matter physics
	3. Nonlinear science and Complex systems
	Nuclear & High energy physics
	5. Optics & spectroscopy
	6. Quantum physics
	7. Semiconductor physics
	8. Theoretical Physics
Eco & Fin	1. Macroeconomics
ECO & FIII	Microeconomics and Industrial Economics
	Public Finance and Policy. International Economics
	5. Applied Econometrics and Quantitative Techniques in Economics and Finance.
	6. Corporate Finance
	7. Investment Analysis and Management
al	8. Financial Economics and Financial Engineering.
Chemistry	1. Organic Chemistry
	2. Inorganic Chemistry
	3. Physical Chemistry
	4. Analytical Chemistry
	5. Theoretical and Computational Chemistry
Maths	1. Algebra
	2. Differential Equations
	3. Discrete Mathematics
	4. Applied Statistics
	5. Operations Research
	6. Numerical Methods and Applications
	7. Cosmology and Relativity
Civil	Structural Engineering
	2. Transportation Engineering
	3. Environmental Engineering
	4. Water Resources Engineering
	5. Geotechnical Engineering
	6. Geomatics Engineering
	7. Infrastructure Planning & Design
	8. Applied Mechanics
EEE & Instru.	1. Instrumentation & Control
	2. Communication Engg, networks
	3. RF, Microwave, Antenna design & Wireless systems
	4. Power systems & Electrical Engineering, Renewable energy, smart grids.
	5. Power electronics and drives
	6. Embedded systems
	7. Micro/Nano electronics
	Electronic materials, Devices and technology
	9. Digital Signal processing