Each Ph.D. student must, in consultation with his/her notional supervisor, will choose two subareas (from the list given below) for qualifying examinations.

Department	Research Sub-Area for conducting qualifying Examination
Biological Sciences	1. Environmental and Microbial Biotechnology 2. Parasitology and Vector Biology 3. Bioinformatics and Computational Biology 4. Plant Biotechnology 5. Human Diseases and Immunology 6. Biochemistry 7. Molecular Biology and r-DNA technology 8. Animal Biotechnology
Chemical Engineering	1. Transport Phenomena & Separation Processes 2. Chemical Reaction Engineering & Thermodynamics 3. Material Science and Engineering 4. Environmental Engineering 5. Energy and Process System Engineering 6. Petroleum and Petrochemical Engineering 7. Biochemical Engineering
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 Operations research" 7. Computer aided engineering 8. Automation, mechatronics and MEMS
Humanities & Social Sciences	1. Cultural Studies: Media and Communication, Film, Theatre 2. English Language, Literature and Linguistics 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. Public health and Environment Studies 9. Sociology
Pharmacy	1. Pharmaceutics and Pharmacokinetics 2. Pharmaceutical Chemistry, Natural Drugs and Phyto-Chemistry 3. Pharmacology and Toxicology

	4. Pharmaceutical Analysis and Quality Assurance
	5. Clinical Research and Clinical Pharmacy
	6. Pharmaceutical Biotechnology
Physics	1. Astrophysics & Cosmology
	2. Condensed matter physics
	3. Nonlinear science and Complex systems
	4. Nuclear & High energy physics
	5. Optics & spectroscopy
	6. Quantum physics
	7. Semiconductor physics
	8. Theoretical Physics
Eco & Fin	1. Macroeconomics
	2. Microeconomics and Industrial Economics
	3. Public Finance and Policy.
	4. International Economics
	5. Applied Econometrics and Quantitative Techniques in Economics and Finance.
	6. Corporate Finance
	7. Investment Analysis and Management
	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. Analysis
	3. Differential Equations and Applications'
	4. Discrete Mathematics
	5. Applied Statistics
	6. Operations Research
	7. Numerical Methods and Applications
	8. Cosmology and Relativity
Civil	1. 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 & Instrumentation	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
	8. Electronic materials, Devices and technology
	9. Digital Signal processing