

DEPARTMENT OF CHEMISTRY, INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Availability of PhD positions in various research laboratories of the department for Autumn Semester 2019-20:

Name of Faculty	RESEARCH AREA	MHRD	NET-JRF/ INSPIRE
INORGANIC CHEMISTRY			
Dheeraj Kumar	High Energy Density Materials, Main Group Chemistry, Organometallic Chemistry, Agents Defeat Weapons	YES	YES
Kalyan Kumar Sadhu	Bionanotechnology and interfaces	NO	YES
M. Sankar	Synthesis and studies of porphyrins	YES	YES
MATERIALS CHEMISTRY			
Tapas Mandal	Development of multifunctional oxides in the perovskite family, Soft-chemistry route to new oxides with diverse properties	YES	YES
Paritosh Mohanty	Materials Chemistry, Nanoporous Materials, Capture and utilization of carbon dioxide, Heterogeneous Catalysis	YES	YES
Raj Kumar Dutta	Materials for energy applications	NO	YES
ORGANIC CHEMISTRY			
Naseem Ahmed	Organic Synthesis and Medicinal chemistry	YES	YES
Debasis Banerjee	Metal-Catalyzed C-H Bond Activation, Organic Synthesis & Catalysis, Enantioselective Catalysis, Organofluorine Chemistry and Heterogeneous Catalysis for Sustainable Organic Synthesis	NO	YES
Anuj Sharma	Multicomponent reactions, photocatalytic and electrochemical reactions for C-H activation	YES	YES
R. K. Peddiniti	Organic Synthesis/ Asymmetric Synthesis	YES	YES
K. R. Justin Thomas	Organic Material Synthesis	YES	YES
PHYSICAL CHEMISTRY			
Pallavi Debnath	Theoretical Physical Chemistry, Statistical Mechanics of soft condensed mater systems, Polymer dynamics	YES	YES
Puneet Gupta	Application of Computational Chemistry and Quantum Chemistry in Catalysis, Reaction Mechanisms & In-silico Catalyst Design	YES	YES
Ravindra Pandey	Spectroscopy, Nonlinear optics, Proteins at Interfaces, Charge transfer at Organic Heterojunction Interface	YES	YES
C. N. Ramachandran	Computational Chemistry, Molecular Modeling and Simulations, Quantum Chemistry	YES	YES