

(b) Project available for Joint Ph.D. Programme with IIT-Guwahati for the session 2025-26 in the following Departments/Schools:

Department/ School	Project Title No.	Project Title	Supervisor (IIT- BHU)	Supervisor (IIT-Guwahati)
Architecture Planning and Design	1	Developing Frugal Engineering Design Tool and Methods for Low Carbon-built Environment	Dr. E.V.S. Kiran Kumar Donthu	Dr. Pankaj Upadhyay
Biomedical Engineering	1	Development and Evaluation of a Vision-based System for Accurate Estimation of Human Skeletal Kinematics	Dr. Bhrigu Kumar Lakhar	Dr. Debanga Raj Neog
Chemical Engineering and Technology	1	Investigation of Solid Flow in a Sidewall Pneumatic Nozzle Assisted Gas-Solid Fluidized Bed at Elevated Temperature	Prof. Rajesh Kumar Upadhyay	Prof. Pankaj Tiwari
	2	Extraction of Aviation Fuel from Lignin	Dr. Jyoti Prasad Chakraborty	Prof. Pankaj Kalita
	3	Effects of Hydrodynamics of Various Reactors on BAFs Production	Dr. Jyoti Prasad Chakraborty	Prof. Nanda Kishore
	4	Resonance Driven Flows in Viscoelastic Fluids	Dr. Dinesh Bhagavatula	Prof. Dipankar Bandopadhyay
Chemistry	1	Synthetic Ion-channel for Single-molecule Protein Transport Across Lipid Bilayer	Dr. Prabhat Tripathi	Prof. Debasis Manna
	2	Development of Self-Supported Metal-Organic Framework Electrodes for Electrochemical Hydrogen Evolution at Industrial Seale Current Density	Dr. Arindam Indra	Dr. Shyam P. Biswas
Civil Engineering	1	Seismic Behaviour of Buildings with Varying Superstructural and Substructural Systems Considering Soil-Structure Interaction Effects	Dr. Vishwajit Anand	Dr. Arindam Dey
Computer Science and Engineering	1	Intelligent Internet of Medical Things for Remote Health Monitoring	Dr. Ajay Pratap	Prof. Ramarapalli Venkatesh
Electrical Engineering	1	Resilience-Oriented Operation of Multi-Energy Vector Multi-Microgrids Considering Peer to Peer Energy Transactions	Dr. Avirup Maulik	Dr. Sanjib Ganguly
Materials Science and Technology	1	Studies on Magnetoelectric Sensors	Prof. Chandana Rath	Prof. Perumal Alagarsamy
Mechanical Engineering	1	Experimental and Numerical Study of Liquid Jet and Sheet Breakup	Dr. Anubhav Sinha	Prof. Amaresh Dalal
	2	Investigation of Liquid Flows in Flexible Micro-channels	Dr. Binita Pathak	Dr. Pranab M. Mondal
	3.	Additive Manufacturing of Ceramic Part for Defence and Medical Applications	Prof. Santosh Kumar	Prof. U.S. Dixit