

IIT KHARAGPUR - UNIVERSITY OF MANCHESTER DUAL PH.D. PROGRAME LIST OF APPROVED PROJECTS 2021

Sl. #	Lead Supervisor IIT Kharagpur	Email (Lead Supervisor, IIT Kharagpur)	Department	Lead Supervisor University of Manchester	Email (Lead Supervisor, U. of Manchester)	Department	Topic
1	Prof. Nikhil Singha	nks8888@yahoo.com	Rubber Technology	Prof William Parnell	william.parnell@manchester.ac.uk	Mathematics	Multi-scale design of novel self-healing polymer-matrix syntactic foam composites.
2	Prof Prasanta Kumar Das	pkd@mech.iitkgp.ac.in	Mechanical Engineering	Dr Amir Keshmiri	a.keshmiri@manchester.ac.uk	Mechanical, Aeronautical and Civil Engineering	Hydrodynamics of prosthetic mechanical heart valves.
3	Prof A R Mohanty	amohanty@mech.iitkgp.ac.in	Mechanical Engineering	Prof Jyoti K Sinha	joyt.sinha@manchester.ac.uk	Mechanical, Aeronautical and Civil Engineering	Vibration control of flexible component machining
4	Prof A R Mohanty	amohanty@mech.iitkgp.ac.in	Mechanical Engineering	Prof Jyoti K Sinha	joyt.sinha@manchester.ac.uk	Mechanical, Aeronautical and Civil Engineering	Improving Manufacturing through multi-sensors based Condition Monitoring
5	Dr. Abhijit Mukherjee	amukh2@gmail.com	Geology & Geophysics	Prof David Polya	david.polya@manchester.ac.uk	Earth & Environmental Sciences	Groundwater Quality & Water Security in India
6	Prof Kumar Biradha	kbiradha@yahoo.com	Chemistry	Dr Aurora J. Cruz-Cabeza	aurora.cruzabeza@manchester.ac.uk	Chemical Engineering & Analytical Science	Crystal Engineering and Crystallisation
7	Dr Siddhartha Roy	siddhartha@metal.iitkgp.ac.in	Metallurgical and Materials Engineering	Prof Phil Withers	p.j.withers@manchester.ac.uk	Materials	Development of novel metal/ceramic composites via laser assisted additive manufacturing processing for advanced surface engineering applications
8	Dr Ganesh Venkataraman	ganesh.v@chem.iitkgp.ac.in	Chemistry	Prof Michael Greaney	michael.greaney@manchester.ac.uk	Chemistry	Transition-metal catalyzed difunctionalization of Arynes and Cyclic Alkynes
9	Dr Chandra Sekhar Tiwary	chandra.tiwary@metal.iitkgp.ac.in	Metallurgical and Materials Engineering	Prof Rahul Nair	rahul@manchester.ac.uk	Chemical Engineering & Analytical Science	Synthesis of graphene and graphene-based composites using agriculture waste for desalination
10	Dr Swagata Dasgupta	swagata@chem.iitkgp.ac.in	Chemistry	Prof Aline Miller	aline.miller@manchester.ac.uk	Chemical Engineering & Analytical Science	Using waste products to sustainably produce peptide hydrogels for health care applications
11	Prof PVS N Murthy	pvsnm@maths.iitkgp.ac.in	Mathematics	Prof Jitesh SB Gajjar	jitesh.gajjar@manchester.ac.uk	Mathematics	Mathematical modelling of solute transport in particulate flows
12	Prof Pratim Kumar Chattaraj	pkc@chem.iitkgp.ac.in	Chemistry	Prof Paul Popelier	pla@manchester.ac.uk	Chemistry	Computational Chemistry

13	Dr Nilanjan Das Chakladar	ndaschakladar@mech.iitkgp.ac.in	Mechanical Engineering	Prof Prasad Potluri	prasad.potluri@manchester.ac.uk	Materials	Modelling of void formation in composites during resin infusion across different compaction levels
14	Dr Sumanthra Mandal	sumantra.mandal@metal.iitkgp.ac.in	Metallurgical and Materials Engineering	Dr Pratheek Shanthraj	pratheek.shanthraj@manchester.ac.uk	Materials	Microstructural effects on environmentally assisted cracking in model 7xxx alloys
15	Dr Prasanta Kumar Guha	pkguha@ece.iitkgp.ac.in	Electronics and Electrical Communications Engineering	Dr Subhasish Chakraborty	s.chakraborty@manchester.ac.uk	Electrical and Electronic Engineering	Nano-material based tunable quantum terahertz opto-plasmonic smart sensing chips
16	Dr. Anirban Dhar	anirban@civil.iitkgp.ac.in	Civil Engineering	Dr Andrea Bottacin-Busolin	andrea.bottacinbusolin@manchester.ac.uk	Mechanical, Aeronautical and Civil Engineering	Model-based decision-making for integrated catchment management
17	Prof Pinaki Sar	psar@bt.iitkgp.ac.in	Biotechnology	Prof Jon Lloyd	jon.lloyd@manchester.ac.uk	Earth & Environmental Sciences	Microbial cycling of arsenic in aquifers