

Collaborative Research Projects 2019-20

S. No.	Name of Project	Name of Faculty from IIT Indore	Department	Name of Faculty from Other TEQIP Institute	Department	Name of TEQIP Institute	Fund Allocated by TEQIP -III
1.	Computational Approaches for Computing Binding free Energies of Drugs to various subtype of HIV-1 Protease.	Dr. Parimal Kar	BSBE	Prof. Neha Kawathekar,	Pharmacy	SGSITS Indore	1.25 Lakh
2.	Evaluation of herbal medicines on micro-organisms	Dr. Hem Chandra Jha	BSBE	Dr. Mamta Baunthiyal	Biotechnology	GB Pant Engineering College, Ghurdauri	1.25 Lakh
3.	Urban Heat Island, its effect and mitigation strategies in highly urbanize city -Delhi, India.	Dr. Manish Kumar Goyal	Civil	Chetan Sharma	Civil	MITS Gwalior	1.25 Lakh
4.	Assessment of Progressive collapse of steel truss railways bridges.	Dr. Guru Prakash	Civil	Vipin Kumar Tiwari	Civil	JEC Jabalpur	1.25 Lakh
5.	Assessment of Combined Effect Of Landslides Due To Rainfall And Earthquake At Mandi District (H.P)	Dr Neelima Satyam	Civil	Vivek Chauhan	Civil	JNGEC Sundernagar	1.25 Lakh
6.	Performance Improvement of Clay Using Fly Ash and Rock Quarry	Dr. Lalit Borana	Civil	Dr.Malaya Chetia	Civil	Assam Engineering College, Assam	1.25 Lakh

7.	Non-Linear Finite Element Analysis of Concrete Damage Due to Impact Loading	Dr. Abhishek Rajput	Civil	Vivek Vishwakarma	Civil	JEC, Jabalpur	1.25 Lakh
8.	Design and Fabrication of Metalogics as biosensors	Prof. Suman Mukhopadhyay	Chemistry	Prof. Nitin Sapre	Chemistry	SGSITS, Indore	1.25 Lakh
9.	Development of a Deep Learning Based algorithm for retrieval of water vapour from GNSS/NavIC	Dr. Saurabh Das	DAASE	Souvik Majumder	Radio Physics & Electronics	Institute of Radio Physics & Electronics, University of Calcutta.	1.25 Lakh
10.	Modelling and Control of Grid Integrated Photovoltaic Supply System	Dr. Amod C. Umrikar	Electrical Engineering	Dr. Shailendra Kumar Sharma	Electrical Engineering	SGSITS, Indore	1.25 Lakh
11.	Study of Sampling theorem on local field and its application	Dr. Niraj Kumar Shukla	Mathematics	Dr. Saurabh Chandra Maury	Applied Mathematics and Computational Science	SGSITS, Indore	1.25 Lakh
12.	Asymptotic Analysis of the surface wave field in an irregular boundary surface semi-infinite medium	Dr. Santanu Manna	Mathematics	Dr. Priyanka Tomer	Mathematics	SGSITS, Indore	2.5 Lakh
13.	Rayleigh wave propagation under various effective boundary layers.	Dr. Santanu Manna	Mathematics	Dr. Anjana Pradhan Ghorai	Mathematics	BITS Mesra	
14.	Representation Theorems for some Structures Inherited from Rough Set Theory	Dr. Md. Aquil Khan	Mathematics	Mohammed Wasid	Mathematics	Govt. Engineering College, Bharatpur	1.25 Lakh
15.	Personalized Healthcare Recommender	Dr. M. Tanveer	Mathematics	Mr. Mohammed Wasid & Mr.	CSE	Govt. Engineering	1.25 Lakh

				Twaseef Ayoub Sheikh		College, Bharatpur & Baba Ghulam Shah Badshah University, Rajouri, Jammu & Kashmir	
16.	Predicting Brain Disorders using multi-model Neuroimaging Biomarkers	Dr. M. Tanveer	Mathematics	Mr. Mohammed Wasid & Mr. Twaseef Ayoub Sheikh	CSE	Govt. Engineering College, Bharatpur & Baba Ghulam Shah Badshah University, Rajouri, Jammu & Kashmir	1.25 Lakh
17.	Development of Large to Selective area laser assisted shock peening (LSP) for rotating parts	Dr. I.A. Palani	Mechanical Engineering	Dr. Ashok Ahulkar	Mechanical Engineering	SGSITS, Indore	1.25 Lakh
18.	Investing of Diesel-Methanol CI engine Combustion for LTC Technology	Dr. Devendra Deshmukha	Mechanical Engineering	Dr. S.K. Dhakad	Mechanical Engineering	SATI Vidisha	1.25 Lakh
19.	Rotor fault identification	Prof. Anand Parey	Mechanical Engineering	Dr. Manoj Chouksey	Mechanical Engineering	SGSITS, Indore	1.25 Lakh
20.	Energy Materials	Dr. Parasharam M. Shirage	MEMS	Prof. P.S. Patil	Dean of Science	Shivaji University, Kolhapur	2.5 Lakh
21.	Material Characterization Techniques	Dr. Parasharam M. Shirage	MEMS	Dr. N Annapurna	Chemistry	A U College of Engineering Andhra University	

22.	Fabrication and Characterization of Electrochromic Electrodes and Devices for Heat Shielding Application	Dr. Rajesh Kumar	Physics	Dr. Krishna Dayal Shukla	ECE	Ujjain Engineering College, Ujjain	1.25 Lakh
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