



डॉ बी आर अम्बेडकर नेशनल इंस्टीट्यूट ऑफ टेक्नोलॉजी, जालंधर
Dr. B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY, JALANDHAR
Department of Chemical Engineering

FIST sponsored project

The department was funded for Rs. 144 lakhs for FIST programme (Fund for Improvement of S&T Infrastructure in higher educational institute under DST, GOI) from 2016. (Ongoing)

Sponsored Research Projects

S. No.	Name(s) of the investigator	Title of Project	Name of Funding Agency	Amount, Lakhs	Year of Approval	Year of Completion
1.	Dr. D. Giribabu	Development of smart MR materials	SERB , Department of Science & Technology, New Delhi	40	2022	2025
2.	Dr JK Ratan and Dr NN Pandhare	Color reduction of effluent coming out of ETP of Dyeing Unit	M/s Trident Ltd	6.85	2022	2024
3.	Dr. Shashikant Yadav	Use of waste biomass for the development of edible coating	DSIR under PRISM support	2.0	Jan, 2022	Ongoing
4.	Dr. Amit D. Saran	Colloidal quantum dots as enhancers in photocatalytic hydrogen generator	SERB-DST New Delhi	28.31	Dec, 2021	Ongoing
5.	Dr L. K Awasthi, Dr Nikhil, Dr Sumer, Dr	Establishment of Science Technology and Innovation (STI) Hub for Empowerment of SC/ST	DST, New Delhi	249.0	2020-23	Ongoing

	Anjireddy, Dr Nonita, Dr Anee Mohanty					
6.	Dr. Raj Kumar Arya	Drying of Polymer – Polymer – Solvent Coatings: Experimental and Simulation Study	SERB-DST New Delhi	41.21	2017-21	2021
7.	Dr. Jatinder Kumar Ratan	Development and Evaluation of Self-cleaning Cement	JK Cement Ltd	20.0	2017	2020
8.	Dr. Sangeeta Garg, Dr. Jatinder Kumar Ratan, Dr. Rajeev Trehan	Studies on wet coating for railway coaches to reduce cycle time of processes	G. S. Industries, Jalandhar.	10.5	2019	2021
9.	Dr. M.K. Jha, Dr. P.P.S Cheema	Process Optimization of Upgraded Bio-chemical Treatment for Excess Sludge Minimization from Highly Polluted Industrial Wastewater.	Twinning Programme TEQIP-III	11.85	2019	2020
10.	Dr. H A Makroo, Dr. Abida Jabeen, IUST Kashmir Dr. Shashikant Yadav, NIT Jalandhar Dr. Bethania Brochier, Brazil	Moderate Electric Field and Pressure Assisted Extraction (MEFPAE) of Colorants from Food Waste	NPIU, MHRD	14.09	2019	2020
11.	Dr. Shailendra Bajpai	Development of Integrated Membrane Process for the removal of hazardous chromium	Emkay Techno Chem,	1.0	2018	2020

		from synthetic tannery effluent	Gaziabad			
12.	Dr. Ajay Bansal Dr. Renu Gupta Mr Vikash Kumar	Performance Evaluation of Dye Sensitized Solar Cell fabricated with ZnS modified TiO ₂ photoanode	NCPRE, IIT Bombay		2019	2020
13.	Dr. Anjireddy Bhavanam Dr. Deepak Sahu	Catalytic Co-pyrolysis studies of biomass and plastics in producing bio-fuels and value added products	TEQIP-III NIT Jalandhar	2.00	2019	2020
14.	Dr. Poonam Gera and Dr. Anji Reddy Bhavanam	Preparation of activated carbon from biomass and its absorption studies for water and air pollutants removal	TEQIP-III NIT Jalandhar	0.44	2019	2019
15.	Dr. Renu Gupta	Synthesis and Characterization of Doped Zinc Oxide Nanoparticles for Degradation of Chlorophenol	TEQIP-III NIT Jalandhar	0.50	2019	2019
16.	Dr. Shailendra Bajpai	Study on lead removal and model development for spiral wound nanofiltration membrane	TEQIP-III NIT Jalandhar	0.50	2019	2019
17.	Dr. Shashikant Yadav	Recovery of Sucrose from Bagasse	TEQIP-III NIT Jalandhar	1.0	2019	2021
18.	Dr. Anurag Kumar Tiwari	Passive mixing in microfluidic devices	TEQIP-III NIT Jalandhar	1.00	2018	2021
19.	Dr. Nitin Naresh Pandhare	Development of novel catalysts system for the conversion of glycerol	TEQIP-III NIT Jalandhar	1.00	2018	2021
20.	Dr. Renu Gupta, D. Poonam Gera	Preparation of Cement Composites using Waste Biomass Ash	TEQIP-III NIT Jalandhar	0.22	2018	2018
21.	Dr. Sangeeta	Green synthesis of iron oxide	TEQIP-III	0.20	2018	2018

	Garg	nanoparticle and characterization using various techniques"	NIT Jalandhar			
22.	Dr. Sangeeta Garg Dr. Deepak Sahu	Experimental studies on fire behaviour inside the confined area	TEQIP-III NIT Jalandhar	0.37	2018	2019
23.	Dr. Shailendra Bajpai	Modelling and Simulation of Spiral Wound Nanofiltration Membrane	TEQIP-III NIT Jalandhar	0.40	2018	2018
24.	Dr. Shashikant Yadav Dr. Amit D Saran	Development of starch/cellulose based coating on fresh vegetables/fruits using waste biomass	TEQIP-III NIT Jalandhar	2.0	2018	2020
25.	PI for Mass Transfer Lab	Conduct of UG practical examination as a Special chance by Hon'ble supreme court of India	AICTE Special examination	0.08	2018	2018
26.	Dr. Jatinder Kumar Dr Ajay Bansal	TiO ₂ Photocatalysis in Cementitious System	TEQIP-II NIT Jalandhar	0.20	2017	2018
27.	Dr. S Bajpai Dr. Sangeeta Garg	Study on Arsenic removal from aqueous solution using spiral wound membrane module"	TEQIP-II NIT Jalandhar	0.45	2017	2018
28.	Dr. S. Bajpai Dr Neetu Divya	Study on lead removal and model development for spiral wound Nano filtration membrane	TEQIP-II NIT Jalandhar	0.50	2017	2018
29.	Dr. Sangeeta Garg Dr S Bajpai	Studies on properties of cellulosic nanofibrils, starch nanocrystals and blend films	TEQIP-II NIT Jalandhar,	0.50	2017	2018

		for packaging applications				
30.	Dr. Poonam Gera	Conversion of waste biomass to biofuels, biochemicals by Hydrolysis technique	TEQIP-II NIT Jalandhar	0.5	2016	2017
31.	Dr. Renu Gupta Dr. Sangeeta Garg	Synthesis and Characterization of Catalyzed for Decomposition of 4-NP	TEQIP-II NIT Jalandhar,	0.48	2016	2017
32.	Dr. Renu Gupta Dr. Ajay Bansal	Studies on the Fabrication of Dye-Sensitized Solar Cell	TEQIP-II NIT Jalandhar	0.36	2016	2017
33.	Dr. Renu Gupta Dr. Ajay Bansal	Effect of Surface Tension and Foaming on Mass Transfer in packed Bed Reactor	TEQIP-II NIT Jalandhar,	0.42	2016	2017

Consultancy Projects

S. No.	Name(s) of the investigator	Title of Project	Name of Funding Agency	Amount, Lakhs	Year of Approval	Year of Completion
1.	Dr. Jatinder Kumar Ratan	Hydrogeological Study of the Area in the Vicinity of SEL Manufacturing Company Ltd, Nawashahar, Punjab" sponsored by	SEL Manufacturing Company Ltd.	17.11	22-09-2020	Ongoing
2.	Dr. Jatinder Kumar Ratan	Environmental audit of Ms Trident Ltd (Towel Division), Barnala" sponsored by PPCB.	Punjab Pollution Control Board	7.257	Jan, 2021	June 2021
3.	Dr. Jatinder Kumar Ratan	Ash Auditing	GVK Powers Ltd	1.18	2019	2020
4.	Dr. S Bajpai	Analysis of Drinking water	Guru Nanak national Collegiate Sr Sec School (Boys), Jalandhar	0.047	2019	2019
5.	Dr. Sangeeta Garg	Test report of drinking water	Guru Nanak National Collegiate Sr. Secondary School, Jalandhar	0.05	2019	2019
6.	Dr. Ajay Bansal Dr. S Bajpai	Vetting of O and M Draft Tender Document of CETP Leather Complex Jalandhar	Punjab Leather Complex Jalandhar	5.80	2018	2018
7.	Dr. S Bajpai, Dr. Ajay Bansal	Testing of Bricks	Onkar Builders, Phagwara	0.035	2018	2018
8.	Dr. S Bajpai; Dr Ajay Bansal	Analysis of bio-briquettes in the Bomb calorimeter	Beant college of Engineering and Technology, Gurdaspur	0.059	2018	2018