

Accepted Proposals for Student Innovative Projects 2022 - '23

Physics/Electronics

NO	Name of the applicant	Programme	Mobile No	Email id	Name of the project Guide	Title of proposal	Revised budget as per the suggestion by the committee (Rupees)
1	Akshay Mukund Borkar	M Sc Physics	7218307870	akshay.borkar512@gmail.com	Dr Manesh Chandran	Development Of G-C ₃ N ₄ Based hetero structures for /water separation	90,000
2	Rohit Vikas	M Sc Physics	8130989376	rohit_m210080ph@nitc.ac.in	Dr M K Ravi Varma	A visible wide band integrating nephelometer: a climate-tech instrument to steady radiative forcing	80,000
3	1) Kartikya Kulkarni 2) S Likhith 3) Melvin Manoj 4) Tabin Mathew Saji	B Tech ECE	9113838324	likhith_b201299c@nitc.ac.in	Dr Dhanaraj K J Dr Harikrishna M	Image recognition based traffic data logger	1,40,000
4	Neelima M	B Tech Engg Physics	9207493543	neelima_b190895ep@nitc.ac.in	Dr Aji A Anappara Dr Raghunath C V	Design and development of self-powered broad band photodetector arrays for UV-visible-NIR wavelengths	80,000
<u>Material Science/Chemistry</u>							
5	Radika Malhotra	M Tech Chemical Engineering	9467715608	radhika_m210196c@nitc.ac.in	Dr Noel Jacob K	Development of Novel high-flux TFN member for water recovery using forward osmosis	1,25,000
6	1) Sarath Hari 2) Amit Jacob 3) Shaiteeqe Rahman	B Tech Chemical Engineering	7034481749	sarath_b190186ch@nitc.ac.in	Dr Vineesh Ravi	Synthesis, modelling of CNT synthesis and its	50,000

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	4) Deavadath Varma					application in direct methanol fuel cell	
7	Ashish Kumar Samal	M Sc Chemistry	8606356775	ashish_m210618cy@nitc.ac.in	Dr Anuj A Vargese	Design, synthesis and characterization of bridged tetrazole based energetic materials	85,000
8	1) Kethavanth Pavan Kumar 2) Prahart Boppana 3) Paargavi M Selvan 4) Kolachana N L S S S Sruthi	B Tech Chemical Engineering	9959105298	paargavi_b190874ch@nitc.ac.in	Dr G Praveen Kumar	Synthesis of novel catalyst for the conversion of biomass to aviation fuel	90,000
9	Parithosh Dey	M Sc Chemistry	9434930951	parithosh_m210290ey@nitc.ac.in	Dr Janardhan Banothu	Benzimidazole-thiophene hybrids: synthesis, characterization and evaluation of human multi toll like receptor (TLR) agonistic activity	90,000
10	1) G Veena Naidu 2) Thota Balaji Sriram 3) Manish Kumar	B Tech Chemical Engineering	7367082640	manish_b191187ch@nitc.ac.in	Dr Panneerselvam Ranganathan	Co2 conversion to olefins by hydrogenation process using red mud catalyst	90,000
11	1) Abhijith B Mohan 2) Aneena P Benny 3) Ardra S K	B Tech Material Science	7034194991	abhijith_b190169mt@nitc.ac.in	Dr Soney Varghese	Development of metamaterial/polymer composite material for bathroom flooring applications	95,000
12	1) Katakamsetty Sai Shubhankar 2) Pataskar Manasi Ashutosh 3) Mmohammed Farshad C K	B Tech Chemical Engineering	7331141345	saisubhankar_b191130ch@nitc.ac.in	Dr G Unnikrishnan Dr Lily Alen Varghese	Design of PLA/EVA blend system with nano composites through electro spinning and solution casting for biomedical applications	86,700





13	Ajay Prasad J	M Sc Chemistry	7708923206	ajayprasad1999@gmail.com	Dr Chinna Ayya Swamy P	Fine-tuning of solid-state emissive properties of benzothiadiazole bridged phenothiazine-cyanostilbene fluorophore for OLED applications	85,000
14	Arnold Tharun Thomas	M Sc Chemistry	8921534754	arnoldtharun@gnail.com	Dr Muniyandi Sankaralingam	Selective C-H functionalisation using nickel (II) complexes of pincer type tridentate ligands	90,000
15	1) Ayush Gupta 2) Aman Goyal 3) Abhishek Kakad 4) Baacha Adithya	B Tech Chemical Engineering	8529744807	ayush_b200486@nitc.ac.in	Dr Susmita Das	Solar photocatalytic degradation of pharmaceutical waste by TiO ₂ Based nanocomposite synthesized by electrochemical method	1,20,000
16	Nihindas K P	M Tech Mechanical Engineering	7592924672	nihin_m210162@nitc.ac.in	Dr K Sekar	Synthesis of bio-resins and effect of bio-fillers on curing kinetics, mechanical, thermal, and visco-elastics properties of its epoxy blends and composites system	74,500
17	1) Advait Prem 2) Joel Biju 3) Jofin Jose 4) Jose Tom Veltom	B Tech Chemical Engineering	7306391694	joel_b190032@nitc.ac.in	Dr Aparna K	Multifunctional environmental catalysis for energy applications and emerging pollutant mitigation	1,00,000
18	1) Rahuldas K M 2) Piyush Bhatce 3) Sharun S	B Tech Chemical Engineering	8111987263	rahuldas_b19074@nitc.ac.in	Dr M Yogesh Kumar	Process development for sustainable manufacturing of	65,000

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4) Robin Kumar Patel

biomimetic bio cement
bricks reinforced with
plant based natural fibers

Civil Engineering

1) Kulala Jayasankar
Naveen
2) Mantripragada Sai
Surya Vamsi
3) R Hari Krishnan

B Tech CE

9494015989

saisuryavamsi_b1
90680cc@nitc.ac.
in

Dr Hillol Chakravarty

Development of durable
artificial aggregates
using waste material
from thermal power
plants

70,000

Job J John

M Tech Water
Resources
Engineering

9605658130

jobjohn16@gmail
l.com

Dr S K Pramada

GRACE data
assimilation for
groundwater storage
variation and link with
land use/land cover
changes

80,000

1) Akshay B R
2) Anagha Ashok
3) Kanyaparvathi S

B Tech CE

7306142794

anagha_b190177c
e@nitc.ac.in

Dr M Sivakumar

Design of E block

55,000

Akhilesh K K

M Tech Civil
Engineering

9544481463
7

akhilesh_m21006
7ce@nitc.ac.in

Dr Robin Davis P

Design of a new steel
reinforced concrete RC
beam column joint and
its seismic performance

89,850

1) Illuri Acksa
2) Nasrin Sakkir Ali
3) Sukanya L
4) Swathi

B Tech EEE

9961470149

swathi_b191057c
e@nitc.ac.in

Dr V Karthikeyan

Wireless soil quality
assessment unit

68,000

Computer/Automation/Electrical

1) Podety Pramodh
2) Santo Jacob Koshy
3) Kadagala Shiva
Kumar
4) Puligundla Gnana
Prakash

B Tech
CSE/ME/ECE/
ME

9182017440

podety_b200852c
s@nitc.ac.in

Dr Devendra K Yadav

Optimising courier
services using public
transportation

9,31,000

25	Smita Sadhukhan	M Tech Electrical Engineering	6291328097	smita_m210271ec @nitc.ac.in	Dr S Kanagalakshmi	Smart controller for non linear system using iterative learning control guided deep reinforcement learning	89,000
26	Eldho Naveen Jose	M Tech High Voltage Engineering	9496423154	eldho_m210144e c@nitc.ac.in	Dr Sindhu T K	Development of a water purifier based on non thermal plasma	44,500
Biomedical							
27	Mithun Manog	M Tech Nano Technology	9496025742	mithun_m210167 mt@nitc.ac.in	Dr Lakshmi V Nair	Point of care diagnostic device for the early screening of cancer	52,000
28	1) Srijith Padmesh 2) Steve Sunil Puthuran 3) Ahninaav Geethan 4) Claret Thanikkal	B Tech ECE	7594023304	srijith_b190482ec @nitc.ac.in	Dr Lintu Rajan	Tactile sensing and classification using machine learning for robot assisted surgeries	11,000
Mechanical Engineering							
29	1) Ananadhakrishnan 2) Geethu Paulson 3) Gokul V Gopal	B Tech ME	7907090728	anandakrishnan_b 201095mc@nitc.a c.in	Dr T J S Jothi	Automated tap closing mechanism	35,100
30	1) Pranceetha Dinesh 2) Divya Rajikumar 3) Gopikrishnan Surendran Menon 4) Vimal Joshy	B Tech ME	8304948312	pranceetha_b1912 81mc@nitc.ac.in	Dr Ashesh Saha	Vibration energy harvesting from simply supported cantilever beam using piezoelectric materials	45,000
31	Vishnu Chandran	M Tech Mechanical Engineering	96333399601	vishnuchandran31 6@gmail.com	Dr Rohinikumar B	Design and analysis of a thermochemical energy storage system for agricultural product drying during off sunshine hours	90,000

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32	1) Rithin M R 2) Kollu Sai Teja 3) Rutuvisha R K 4) Sreeroop S K	B Tech ME	9446645557	rithin_b190040m@nitc.ac.in	Dr Jagadeesha T Dr G Varaprasad	Design development, and testing of innovative variable valve technology using MR fluid damper for engine valve	1,01,500
33	1) Saddala Reddy Tharun 2) Loyad Joseph Losan 3) Murti Ram Chandra Reddy 4) Jithin Vijayakumar	B Tech ME	8086249162	loyad_b190090m@nitc.ac.in	Dr Jagadeesha T Dr G Varaprasad	Innovative MR Clutch for efficient torque transmission in four wheelers	1,01,000
34	1) Neeti Ujwal Karthikeya 2) Gunta Neeharika 3) Chollangi Lakshmi Narayana 4) Gummula Harish	B Tech ME	79899007553	harish_b190545m@nitc.ac.in	Dr Vineesh K P	Development of ultrasonic shot peening setup for surface attrition treatment	90,000
35	1) Somnu Bala Upendra Reddy 2) Muhammed Basil V 3) Najath T 4) Pulapakura Apuroop	B Tech ME	9562842335		Dr A P Sudheer	Development of novel fully actuated multi rotor UAV FOR smart farming	1,10,000
36	1) Amirul Haqe 2) Abdussameeu Kozhikkattil 3) Erin Jossy 4) Rajat Rajat	B Tech ME	8113833358	amirul_b190599m@nitc.ac.in	Dr A P Sudheer	Design fabrication and control of egg collection mechanism to assist indoor free-range poultry farming	1,04,850
37	Adarsh E	M Tech Energy engineering and management	9495882300	adarsh_m210159me@nitc.ac.in	Dr Sujith Kumar C S	High-efficient multi-stage interfacial evaporation assisted desalination system	55,200



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38	Sandhyavandanam Phaneendra	M Tech Mechanical Engineering	9704449502	sandhyavandanam_m210242@nitc.ac.in	Dr Jayadeep U B	Design and fabrication of a compressive experimental setup to demonstrate the stress stiffening effect	30,000
39	1) Santo Jacob Koshy 2) Abhinand D A 3) Anshid T 4) S R Debasish	B Tech ME	9497518662	santo_b190227@nitc.ac.in	Dr A P Sudheer	RUTALAC-Rubber tapping machine with mobile base	85,000
40	1) Abel C Dixon 2) Tarala Trilokesh 3) Ajin J 4) Devaiah John	B Tech Engg Physics/EEE/C HE/ Engg Physics	9074056134	abelcheruvathoor@gmail.com	Dr A.P Sudheer Dr Theja Reddy Vakamalla Dr M Surya Prakash Dr Maneesh Chandran	Development of automated grafting set up among solanaceae species of vegetable	97,500

Chemical/Thermal Engineering

41	1) Abhishhek C R 2) Abhishna A P 3) Adithya Suresh 4) Archalakhmi S	B Tech CHE	8921983687	abhishhek_b190242eh@nitc.ac.in	Dr S Bhuvaneshwari	Design of advanced coagulation reactor for dairy waste water treatment for MILMA plant Kunnammangalam	82,000
42	Gokul Dev P M	M Tech Chemical	8547461181	gokuldev_m210135sch@nitc.ac.in	Dr S Bhuvaneshwari	Fabrication and scaling up of cost-effective electrochemical reactor for heavy metal removal from industrial effluent using waste-derived activated carbon	90,000
43	Atul A P	M Tech Mechanical Engineering	9446469631	atulrtrgchu@gmail.com	Dr Rohini Kumar B	Thermal management of lithium-ion battery using variable thermal conductivity method	90,175
44	1) Madan Lal Salvi 2) Abhishhek Raj	B Tech CHE	8877909531	abhishhek_b190310ch@nitc.ac.in		Biogas production analysis and storage	90,000

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	3) Shubham Denwal 4) Abhishek Chahar							
45	1) Artin Zacharias 2) Jacob Thomas 3) Morcha Divya 4) Banoth Adhvaita Nayak	B Tech CHE	9745890864	thomasjacobb849@gmail.com	Dr V Sivasubramanian	Design of combined bioremediation and advanced oxidation process (AOP) for removal of heavy metals from waste water	60,000	
46	1) Niharika R M 2) B Harikrishna 3) Vishnu D Anand 4) Yedla Ajay Kumar	B Tech CHE	7012004966	niharika_b191134@nitc.ac.in	Dr Haribabu K	To develop of a Real time scaled up MFC system for kitchen wastewater treatment and simultaneous power generation	90,000	
TOTAL								45,73,875/-

Recommended for approval of
The Director please

~~A~~ 28/10/22
Cham (C1E1)

SMUVA
25/10/2022
Dr. Muppa SJ

Prasanna
25.10.2022
Director PR

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Proposals Recommended for Seed Funding

NO	Name of the applicant	Programme	Mobile No	Email id	Name of the project Guide	Title of proposal	Revised budget as per the suggestion by the committee (Rupees)
1	Vinay Reddy Kammakattu	Mechanical Engineering B Tech ME	9440401665	kammakattu b211021me@nitc.ac.in	Dr Mini Mol Menampambath	Multipurpose herbal detoxifying solution for gravity based water purifiers	35,000
2	1) Binshadh Basheer U 2) Sunil Kumar 3) Joseph Nirmal 4) Midhun T R	B Tech CSE/CSE/CSE /CHD	7306878580	binshadh b210517cs@nitc.ac.in	Dr Kumaravel S	Development of institute vehicle location identification system for students	35,000
TOTAL							70,000/-

Recommended for the approval of the Director.

S. Murugesu
25/10/2022
Dr. Muga S.T.

25/10/22
Charm (C151)

Revised
25/10/2022
Dr. Basheer U.