

National Institute of Technology Calicut

Office of Dean (R & C)

Funding Scheme for UG/PG Students to Carry Out Innovative Projects Application Format - 2021

1	 Maximum 4 students for B. Tech/B. Arch students Individual projects for PG students 	Roll No	Branch of study	Mobile Number & email id	
	POOLA ROHITH	B180712ME	MECHANICAL	9441120187 rohith18p@gmail.com	
	AKONDI SAI MANOJ	B180161ME	MECHANICAL	6303364524 manojakondi25@gmail. com	
	MAMIDI THEJONATH	B180129ME	MECHANICAL	9441214164 tejonathg21@gmail.com	
	KURAGANTI VEDANTHAM	B180473ME	MECHANICAL	9381222285 vedantham_b180473me @nitc.ac.in	
2	Name of the project leader (one of the students shall be the project leader)	POOLA ROHITH			
	Mobile Number & email id	9441120187			
		rohith18p@gmail.com			
	Name of FA/PC	Dr. Ashesh Saha			
3	Title of the project proposal	Robot Based Automation for Vertical Farming			

Expected outcome of the project-point wise (details shall be given in attached proposal)	 Fully automated robotic system for vertical farming. Automation of planting, watering, inspection, conditioning and harvesting of crops. Patents for the innovation or publishing of SCI Journal. 		
Deliverables - research paper in SCI journal or patent/copyright of novel idea to be filed or a novel product to be commercialized or technology transfer	Patents / Research paper in SCI journal		
Total fund requested (Rs)	100000		
Name of guide(s)	Students from different depts. or doing interdisciplinary projects can provide guides from appropriate discipline.		
Name of guide(s)/co-guide	Dept.	Mobile No & email id	
Dr. A P Sudheer	Mechanical	9961450987 apsudheer@nitc.ac.in	
Dr. K Sekar	Mechanical	9746562695 sekar@nitc.ac.in	
Significance of the proposed project (details shall be given in attached proposal)	Implementation of vertical farming and Hydroponics which are the future of agriculture. Automating the Vertical farming by robot-based system and artificial intelligence has wide impact and greater advantages and flexibilities than the conventional farming.		
	point wise (details shall be given in attached proposal) Deliverables - research paper in SCI journal or patent/copyright of novel idea to be filed or a novel product to be commercialized or technology transfer Total fund requested (Rs) Name of guide(s) Name of guide(s)/co-guide Dr. A P Sudheer Dr. K Sekar Significance of the proposed project (details shall be given in	point wise (details shall be given in attached proposal) Deliverables - research paper in SCI journal or patent/copyright of novel idea to be filed or a novel product to be commercialized or technology transfer Total fund requested (Rs) Name of guide(s) Name of guide(s) Dept. Dr. A P Sudheer Dr. K Sekar Mechanical Significance of the proposed project (details shall be given in attached proposal) I mplementation are the future of by robot-based impact and green are selected and green are the future of by robot-based impact and green are selected and selected are selected and green are the future of by robot-based impact and green are selected and selected are selected and selected are selected as a select	

9	Expected time required for completion of project (attach semester wise targets)	10 months (until 31-MAR-2022)	 Finalizing the project details and idea. Complete design and development of CAD model. Simulation and analysis EIGHTH SEMESTER Prototype fabrication and assembly. Complete control and automation.
10	Split-up of Budget in Rs	Stage 1 (first six months)	Stage 2 (remaining period)
	Software packages	-	-
	Minor equipment *	-	-
	Consumables		17000
	Contingencies	-	20000
	Others if any		
	Mechanical Components Electronic components	-	10000 53000
	Total		100000

(Give details of all the students sequentially in the case of a group. For a group with students from different departments, recommendation from the concerned head of department of all students shall be obtained)

- Name & Signature of the applicant(s):
 - 1. POOLA ROHITH

P. Rowith.

2. AKONDI SAI MANOJ

A Sai Marioj

3. MAMIDI TEJONATH

M.TL

4. KURAGANTI VEDANTHAM

K. Vedestram

• Name & Signature of project guide(s): I/we have gone through the proposal and guidelines.

Dr. SUDHEER A. P.

• Recommendation from the Head of the Department:

Dr. JOSE MATHEW

Notes:

- (1) A detailed proposal must be attached along with this application giving the objectives, significance of the work, expected outcomes, literature review (including patent search), methodology and work plan, budget with justifications and any other relevant information in support of the proposal
- (2) The aim of this funding scheme is to promote research culture in UG students and accordingly through the research, they shall develop an innovative product. This can also lead to commercialization and start-up or patenting the novelty. Minimum an SCI journal publication shall come from the project. The financial assistance will be provided to carry out the related activities (to meet the expenses related to fabrication/assembly charges, consumables and contingency). * minor equipment /tools may be permitted, if very specific and essential. No major equipment is permitted under this scheme.