

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

ತಿದಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿಕವಾದ ರಾಜ್ಯ ವಿಶ್ವದಿದ್ಯಾಲಯ) 'ಜ್ಞಾನ ಸಂಗಮ', ಬೆಳಗಾವಿ - ೫೯೦ ರಂದ ಕರ್ನಾಟಕ ರಾಜ್ಯ

Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VIV Act, 1994) "Jnana Sangama", Belagavi-590 018, Karnataka State, India

Prof. A. S. Deshpande B.E., M. Tech., Ph.D. REGISTRAR

Phone: (0831) 2498100 Fax: (0831) 2405467

Ref: VTU/Aca./A4/2021-22/ 263/13

2 0 SEP 2021

To.

The Principal, PES Institute of Technology & Management, NH-206, Sagar Road, Shivamogga-577204.

Sir.

Sub: Sanction of Financial Assistance for 2020-21 to the Innovative Project of UG Final Year students of your Institution..reg. Ref: No.VTU/BGM/PS/2021-22/545, dated 06.05.2021

With reference to the above subject, please find herewith a D.D Bearing No 643486, dated 09.09.2021 of Rs. 30,000/- (Rupees Thirty Thousand Only) towards the sanction of financial assistance to the selected Innovative projects of UG final year students of BE / B.Tech.

Further, you are hereby informed to distribute the amount to the concerned students and get an acknowledgement for the same.

Original copy of the acknowledgements should be submitted to the undersigned on or before 30th September 2021.

Encl: as above

PES Institute of Technology & Management
NH 206, Sagar Road, SHIVAMOGOMETRICANO. 470

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- offer toolest, ist, mit
- so toolest, ist, mit

Department.....

Date of inward Entered. 28/09/2021 Sign of the Principal.



Visvesvaraya Technological University "JnanaSangama" Belagavi: 590018

Karnataka, India. Tele: 0831-2498225 ,2405454

VTU Sponsored Student Project Proposal Format

01	Academic Year:	2020-2021			
02	Semester:	8TH			
03	Name of the College:	PES INSTITUTE OF SHIVAMOGGA	PES INSTITUTE OF TECHNOLOGY AND MANAGEMENT, SHIVAMOGGA		
04	Branch:	ELECTRICAL AND	ELECTRONICS		
05	Project Title:	ADVANCED AGRICULTURAL CONTROLLING AND MONITORING OF GREENHOUSE USING LI-FI TECHNOLOGY			
06	Project Discipline:	AGRICULTURE			
07	Principal	Name:	DR. CHAITHANYA KUMAR		
		Contact No:	9845346072		
		Email id:	principal_pesitm@pes.edu		
08	HOD	Name:	DR.OM PRAKASH YADAV		
		Contact No:	8966000053		
		Email id:	hodee@pestrust.edu.in		
09	Project Guide	Name:	MR. MANJUNATH PRABHU P		
		Contact No:	9663762777		
		Email id:	manjunathprabhu@pestrust.edu.in		
10	Project Co-Guide(if	Name:	•••		
	any)	Contact No:	••••		
		Email id:	***		

VTU Sponsored Student Project Proposal Format

PES Institute of Technology & Management

NH 206, Sagar Road, SHIVAMOGGA-577 204. HOD

PESITM, SHIVAMOGGA-577 204

11	Project Committee	Name:	Dr. Basavarajappa Y H
	coordinator	Contact No:	9242851012
	(Identified by the college):	Email id:	hodme@pestrust.edu.in

12		Name of project	team Members
	1 .Group leader	and Member	
	Name: BHARGAV B SHAI		Am
	USN No. 4PM17EE013		
	Contact No:6362416743		to con-
	Email id: bhargavshanubhog@gmail.com		
	2.Member		18 ct. State 8x Marine 1 8
	Name: APOORVA J R		
	USN No.:4PM17EE009		(35)
	Contact No:7337875345		1300
	Email id: apoorvajr1972@gmail.com		
	3 .Member		
	Name: MEGHANA S		
	USN No:4PM17EE024		
	Contact No: 9110806783		
	Email id: meghnamegha0610@gmail.com		N. F.
	4.Member		
	Name: PRAJVAL S R		
	USN No:4PM17EE033		
	Contact No: 9632388847		
	Email id: prajwalsr27@gmail.com		- Committee
	USN No		
	Contact No:		
	Email id:		
13	Processing Fee	Bank name : NA	
	Details	Branch : NA	HOD DOOR STEEL

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		DD number with date : NA	
		OR	
		Cheque no with date :	
14	Scope /	Objectives of the project is	
	Objectives of the project:	1. To improve products quality, as well as maintain a sustainable agriculture by collecting real-time data from the environment.	
		2. To create water saving irrigation technology for agriculture and security for the crops.	
		3. To make a remote control tasks like spraying, weeding, moisture sensing.	
		4. To implement technology in agriculture as a social concern.	
15	Methodology of work: (Including diagram, flow chart and design calculations)	Irrigation system that consists of a distributed wireless network of soil moisture temperature sensors deployed in plant root zones. Each sensor node involved a soil probe, a temperature probe, a microcontroller for data acquisition. The microcontroller the automated activation of irrigation when the threshold values of soil moisture temperature are reached. The microcontroller sends data to the computer via Li-Fi trans The receiver unit also has a duplex communication link using Light Fidelity technology is a new technology in optical wireless communication. The Internet connection allows t inspection in real time on a website, where the soil-moisture and temperature level graphically displayed through an application interface and stored in a database server access also enables direct programming of scheduled irrigation schemes and trigger the receiver according to the crop growth and season management.	
		BLOCK DIAGRAM	
		POWER SYSTEM Relay	
		Temperature Sensor A AURDUINO UNO Water Pump	
		Moisture Sensor Li-Fi tranceiver	
		Fig 1:Block Diagram of Irrigation System-Transmitter system	

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Princip**al**

PES Institute of Yechnology & Management NH 206, Sagar Road, SHIVAMOGGA-577 204.

		LI-FI Tranceiver Max 232 Computer
		Fig 2:Block Diagram of Irrigation System-Receiver system
16	Expected Outcome of the project:	 Good quality of agriculture crops can be obtained and agriculture can be sust for longer period. Water can be saved more and crops can be protected well. Agriculture can be made easier than the conventional method.
17	Application of the project:	1)Security 2)Cellular communication 3)Augmented reality 4)Underwater communication
18	Budget details with Materials required:	a) Materials / Consumables =5500.00 b) Labour=1000 c) Miscellaneous =1000.00 Total =7500.00
19	Date of commencement of the Project:	26/12/2020
20	Probable date of completion of the project:	26/07/2021

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FESITM, SHIVANSOLASTY 201

PES Institute of iccanology & Management NH 296, Sagar Road, SHIVAMOGGA-577 204.

21	Duration of project work:	8 MONTHS
22	Pert chart for complanned activities	pletion of the project in said duration as per:

Sl.No	Activities Planned	1 Month/ Week	2 Month/ Week	3 Month/ Week	4 Month/ Week	5 Month/ Week	6 Month/ Week
01	Literature review						
02	Planning/ Designing						
03	Assembly/ Fabrication work						A CONTRACTOR OF THE CONTRACTOR
04	Final Testing						
05	Result & Calculation/Conclusion						
06	Preparation of Report & Submission			×			

HOD Dept. of EEE
PESITM, SHIVAMCGGA-577 204

VTU Sponsored Student Project Proposal Format

Principal

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DECLARATION BY THE STUDENTS

We, the project group members hereby declare that the details enclosed in the project proposal are true and correct to the best of our knowledge. We undertake to inform VTU, of any changes there in the project title, students name will be intimated immediately. In case, any of the above information is found to be false or untrue or misleading, we are aware that we may be held liable for it.

We are aware that the project group has to exhibit / demonstrate the project for evaluation in the VTU Regional centre and for exhibition at VTU, Belagavi. If the project group fails to attend the evaluation in Regional centre and for Exhibition in VTUBelagavi, the sponsored project amount will be returned back to VTU immediately

We also hereby, enclose the endorsement form to VTU, Belagavi.

SL.No	Name of the Student	Signature with date
01	BHARGAV B SHANUBHOG	Bragas
02	PRAJVAL S R	Prajol S.R
03	APOORVA J R	Apoorua. J.R.
04	MEGHANA S	Meghana.s

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An ISO 9001 : 2008 Certified Institute

Affiliated to Visvesvaraya Technological University, Belgaum Approved by AICTE, New Delhi Recognised by Govt. of Karnataka

Telephone: 08182-640733/640734 **Fax**: 08182-233797 E-mail: principal_pesitm@pes.edu 08182 - 640732 (Dire)

Website: pestrust.edu.in/pesitm

ENDORSEMENT

This is to certify that

- l] BHARGAV B SHANUBHOG
- 2] PRAJVAL S R
- 3] APOORVA J R
- 41 MEGHANA S

Are bonafide students of Department in Electrical and Electronics Engineering of our institution. If the project proposal submitted by these students under VTU Sponsored Student Project Proposal is selected by VTU, we will provide the required laboratory / Computer / infrastructure support in our college / Institution. Further we also take necessary steps that the project group will exhibit / demonstrate their project in the Regional centre and for exhibition at VTU, Belagavi. If the student group fails to attend the evaluation in Regional centre and exhibition at VTU Belagavi, the supported project amount will be returned back to VTU immediately.

Signature of Project Guide with date	Signature of HOD with Seal and date	Signature of the Principal with Seal and date
29/6/21	12 2 d oc 151	2040 2966
Name:Mr. Manjunath Prabhu P	Name: Dr.Om Prakash Yadav HOD Dept. of EEE ESITM, SHIVAMOGGA-577 201	Name: Dr. Chaire ip al PES Institute of Technology Supraganogement PES Institute of Technology Supraganogement NN-206, Sogor Road, SHIVAMOGGA-577 234.

VTU Sponsored Student Project Proposal Format

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Principal

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PES INSTITUTE OF TECHNOLOGY & MANAGEMENT

NH-206, Sagar Road, Shivamogga - 577204 DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Ref No/PESITM/EE/2021/0001

Date: 23rd June 2021

PROCEEDINGS OF THE COMMITTEE FOR SELECTION OF PROJECTS

The following are the minutes of meeting details which was held for the faculty members of the Electrical department in relation to the subject of "Financial Assistance for Innovative Projects for the Final Year under Graduate students for the year 2020 – 2021" on 23rd June 2021 at 10:15 am.

Place of Meeting: Seminar Hall.

Minutes of Meeting:

- The meeting has been started with the welcoming of all the committee members by the Institute Project Committee Coordinator under the chairmanship of the Principal, PESITM.
- Dr. Basavarajappa Y H; HOD/ME and Institute Project Committee Coordinator called this meeting in order to have an in depth discussion on the selection of innovative projects of the final year under graduate students to be sent to VTU for financial assistance.
- As per the requirements of the committee formation; two senior faculty members of the
 department Mr. Rudresha S J and Mr. Kiran Kumar G R were present in the meeting. All
 the modalities of selecting innovative projects from a group of all the final year under
 graduate students projects have been discussed in length by highlighting all the possible
 pro's and con's.
- At last, two projects have been unanimously finalized as the innovative projects to be sent to VTU for the financial assistance from the department level. The project title of the selected two projects are as follows:
 - 1) IOT Based Solar Powered Forest Fire Early Detection And Prevention With Anti-Smuggling System

2) Advanced Agricultural Controlling And Monitoring Of Greenhouse Using Li-Fi
Technology

3HIVATIOGG 4-577 20

Principal

PES Institute of Technology & Management NH 206, Sagar Road, SHIVAMOGGA-577 204.

HOD thanked all the committee members and concluded the meeting.

Dr. On prakash Yadav.

HOD / EEE

Dr. Basavarajappa Y. H. VTU Nominee (IPCC) Dr. Chaitanya Kumar M V
Principal, PESITM & Chairman (IPC) and PESITM & Chairman (IPC) and NH-206, Segar Road, SHIVAMOGGA-577 234

Copy to:

1. Mr. Rudresha S J (Member) -

2. Mr. Kiran Kumar G R (Member) - Color

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Principal

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