IFET/PRI/CIR/2023-2024   Date: 10/07/2023

CIRCULAR

Sub: Faculty Research projects- Allocation of seed funds- Reg

      I am pleased to inform that our college trust has planned to sanction SEED fund for the faculty in order to facilitate research-oriented projects for the academic year 2023-24. The details of the allocation of funds for the departments are enclosed. To utilize the funds effectively, HOD's are requested to identify deserving students and faculty with worthy project.

After completion of the projects HOD's should,

    i.   Submit a detailed completion report of projects with expenditure details

    ii.   Arrange to publish technical papers in National/International journals and conference.

    iii.   Take steps to apply for patents.

PRINCIPAL 10/7/2023

Copy to:

All HOD's for staff circulation/VP/Asst Manager/Notice Board/File.

CIRCULAR

IFET/PRI/CIR/2023-24   Date: 18/07/2023

The following faculties are requested to scrutinize the best projects for the academic year (2023-24) to avail the SEED funding sponsored by our Indo French Educational Trust and submit the details on or before 30/07/2023.

S.NO	STAFF NAME	DEPARTMENT	DESIGNATION
1.	Dr. B.Elizabath Caroline	ECE	Professor
2.	Dr. U.Palani	ECE	Professor
3.	Dr. P.Pugazhendiran	EEE	Professor
4.	Dr. P.Kanimozhi	CSE	Professor
5.	Dr. M.Margarat	ECE	Professor
6.	Dr. J.Vidhya	ECE	Associate Professor
7.	Dr. M.Saravanan	ECE	Professor
8.	Dr. B.Elamvazhudi	MECH	Associate Professor
9.	Dr. T.Ananthkumar	CSE	Associate Professor
10.	Dr. K.Ganesabalamurugan	MECH	Associate Professor

PRINCIPAL 18/7/2023

Submitted to the Principal

The following project proposals are received from various department for scrutiny to provide seed money from the Indo French Educational Trust.

S.No	Faculty Name	Dept	Project Title
1.	Mrs. D.Vasanthi	ECE	ESP32 Based directional valve control system with Real-time weather integration
2.	Mrs. K.Bhuvaneswari	ECE	Revolutionizing transportation with gyroscopic self-balancing technology.
3.	Mrs. Ranjitha	ECE	Surveillance robot using ESP32 camera module for defence application
4.	Mrs. S.Shalini	ECE	Inteligent fire detection system using Arm processor LPC2148 implementation
5.	Dr.B.Elizabath Caroline	ECE	Mechatronic design and Robust control of an Artificial ventilator in response to Covid-19 pandamic.
6.	Dr. M.Margarat	ECE	Design of PHCSOA based all-optical multiplexer and parameter optimization using practical swarm optimization algorithm.
7.	Mrs.A.Devi	ECE	Eduhub-A comprehensive online college management system in python Django integrated with Nanonet OCR.
8.	Dr.B.Elizabath Caroline	ECE	Design of folded dipole antenna for Indigenous monitoring receiver.
9.	Dr. M.Saravanan	ECE	IOT- Enabled cold storage system with real-time image processing for intelligent monitoring of fruits.
10.	Mrs. A.Inbavalli	CSE	Assessing metrics using Lora technology for real landslide monitoring within IOT framework
11.	Mrs. S.Chandhini	CSE	Centralized street light monitoring system using IOT
12.	Dr. T.Ananthkumar	CSE	Enhancing cargo safety and efficiency with IOT- Enables monitoring and dynamic load management.
13.	Mrs. K.Kalaiselvi	CSE	Harnessing the power of machine learning in IOT-driven agriculture to categorize micronutrients and supercharge crop productivity.
14.	Ms. R.ShyamalaDevi	CSE	IOT based accident detection rescue system.
15.	Mr. A.Balachandar	CSE	Smart NODEMCU based office automation security system using IOT.
16.	Mrs. S.Nithyabharathi	CSE	Marine border surveillance using RSSI for enhanced alert system
17.	Mrs. S.Sudha	CSE	Bluetooth control voice sensing and hand gesture Robot

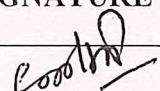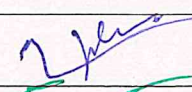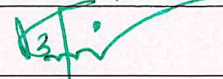| 18.	Mrs. K.Kalaiselvi	CSE	Coal mining monitoring system using LORA based wireless network with IOT
19.	Mrs. C.Manimegalai	CSE	Developing an WIFI module based smart device control system using IOT and Bluetooth technology
20.	Mrs. G.Leemaroselin	CSE	Real time on Chip machine learning base wearable behing the ear electroencephalogram device for emotion recognition.
21.	Mr. S.Senthilkumar	CIVIL	Experimental Investigation and study on saline water treatment in Kanthadu village
22.	Mr. N.Sivanantham	EEE	Hybrid forced air convection and illumination technique for fruits and vegetables preservation using solar dryer.
23.	Mrs. G.Anbarasi	EEE	Portable organic processing system using pulsed electric field.
24.	Ms.A.Eswari	EEE	Intelligent Battery management system chargers for EV
25.	Mr. V.Mohan	EEE	Charging of E-Vehicle using peltier module by utilizing the thermal energy of ice.
26.	Mrs. K.Elavarasi	IT	Carbon monitoring system using IOT
27.	Dr. R.Thendral	IT	Enhancing wellness and location monitoring for mountain climbers
28.	Dr. K.Sathyabama	IT	Facial expression enabled navigation system for the visually impaired people.
29.	Mr.M.Arunkumar	IT	Accessibility for the visually impaired object detection and OCR using machine learning.
30.	Mrs.K.Elavarasi	IT	E college system for visually challenged students.
31.	Mr. K.Kamalakannan	MECH	Production of Bio-oil from oil waste through thermal degradation process.
32.	Dr. B.Elamvazhudi	MECH	Improving the efficiency of solar panel by optimizing the design parameters.
33.	Mr. C.Manimaran	MECH	Improved lithium Sulphur battery performance by applying the solid electrolyte interface method.
34.	Mr. N.Sethuraman	MECH	Performance and emission analysis on CI engine using beta based zeolite as catalyst.
35.	Mr. R.Thamizhvel	MECH	Production of Bio-oil from health care plastic waste through thermal degradation system
36.	Mr. S.Vinodraj	MECH	An Experimental analysis and ANN based parameter optimization of the influence of P.Julifra blends on CI engine attibutes.
37.	Dr. K.Ganesabalamurugan	MECH	Stimulation on additive Manufacturing for Aluminum alloys

Based on the presentation and design aspects, the following projects are recommended to avail SEED fund for their successful completion of their projects.

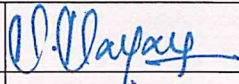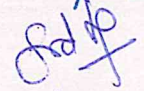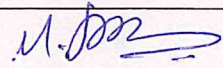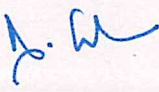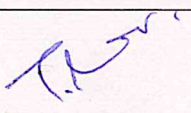| S.No	Faculty Name	Dept	Project Title
1.	Mrs. D.Vasanthi	ECE	ESP32 Based directional valve control system with Real-time weather integration
2.	Mrs. K.Bhuvaneswari	ECE	Revolutionizing transportation with gyroscopic self-balancing technology.
3.	Mrs. Ranjitha	ECE	Surveillance robot using ESP32 camera module for defence application
4.	Mrs.S.Shalini	ECE	Inteligent fire detection system using Arm processor LPC2148 implementation
5.	Dr.B.Elizabath Caroline	ECE	Mechatronic design and Robust control of an Artificial ventilator in response to Covid-19 pandamic.
6.	Dr. M.Saravanan	ECE	IOT- Enabled cold storage system with real-time image processing for intelligent monitoring of fruits.
7.	Mrs. A.Inbavalli	CSE	Assessing metrics using Lora technology for real landslide monitoring within IOT framework
8.	Mrs. S.Chandhini	CSE	Centralized street light monitoring system using IOT
9.	Dr. T.Ananthkumar	CSE	Enhancing cargo safety and efficiency with IOT- Enables monitoring and dynamic load management.
10.	Mrs. K.Kalaiselvi	CSE	Harnessing the power of machine learning in IOT-driven agriculture to categorize micronutrients and supercharge crop productivity.
11.	Ms. R.ShyamalaDevi	CSE	IOT based accident detection rescue system.
12.	Mr. A.Balachandar	CSE	Smart NODEMCU based office automation security system using IOT.
13.	Mrs. S.Nithyabharathi	CSE	Marine border surveillance using RSSI for enhanced alert system
14.	Mrs. S.Sudha	CSE	Bluetooth control voice sensing and hand guesture Robot
15.	Mrs. K.Kalaiselvi	CSE	Coal mining monitoring system using LORA based wireless network with IOT
16.	Mrs. C.Manimegalai	CSE	Developing an WIFI module based smart device control system using IOT and Bluetooth technology

17.	Mrs. G.Leemaroselin	CSE	Real time on Chip machine learning base wearable behing the ear electroencephalogram device for emotion recognition.
18.	Mr. S.Senthilkumar	CIVIL	Experimental Investigation and study on saline water treatment in Kanthadu village
19.	Mr. N.Sivanantham	EEE	Hybrid forced air convection and illumination technique for fruits and vegetables preservation using solar dryer.
20.	Mrs. G.Anbarasi	EEE	Portable organic processing system using pulsed electric field.
21.	Mrs. K.Elavarasi	IT	Carbon monitoring system using IOT
22.	Dr. R.Thendral	IT	Enhancing wellness and location monitoring for mountain climbers
23.	Dr. K.Sathyabama	IT	Facial expression enabled navigation system for the visually impaired people.
24.	Mr. K.Kamalakannan	MECH	Production of Bio-oil from oil waste through thermal degradation process.
25.	Dr. B.Elamvazhudi	MECH	Improving the efficiency of solar panel by optimizing the design parameters.
26.	Mr. C.Manimaran	MECH	Improved lithium Sulphur battery performance by applying the solid electrolyte interface method.
27.	Mr.R.Thamizhvel	MECH	Production of Bio-oil from health care plastic waste through thermal degradation system
28.	Mr. S.Vinodraj	MECH	An Experimental analysis and ANN based parameter optimization of the influence of P.Julifra blends on CI engine attributes.
29.	Dr. K.Ganesabalamurugan	MECH	Stimulation on additive Manufacturing for Aluminum alloys

RECOMMENDED BY

S.NO	STAFF NAME	DEPARTMENT	DESIGNATION	SIGNATURE
1.	Dr. B.Elizabath Caroline	ECE	Professor	
2.	Dr. U.Palani	ECE	Professor	
3.	Dr. P.Pugazhendiran	EEE	Professor	
4.	Dr. P.Kanimozhi	CSE	Professor	

5.	Dr. M.Margarat	ECE	Professor	
6.	Dr. J.Vidhya	ECE	Associate Professor	
7.	Dr. M.Saravanan	ECE	Professor	
8.	Dr. B.Elamvazhudi	MECH	Associate Professor	
9.	Dr. T.Ananthkumar	CSE	Associate Professor	
10.	Dr.K.Ganesabalamurugan	MECH	Associate Professor	

PRINCIPAL 01/7/2023

Date:07/08/2023

Sub: Proposal for Seed money to faculty members for the Academic year 2023-24- Reg

Based on the recommendation of the selection panel, the following project proposals are selected for providing the seed money. We request the management to sanction the proposal amount to complete the projects successfully.

S.No	Faculty Name	Dept	Title of the Project	Amount(Rs)
1.	Mrs. D.Vasanthi	ECE	ESP32 Based directional valve control system with Real- time weather integration	21,000.00
2.	Mrs. K.Bhuvaneswari	ECE	Revolutionizing transportation with gyroscopic self-balancing technology.	11,000.00
3.	Mrs. Ranjitha	ECE	Surveillance robot using ESP32 camera module for defence application	16,000.00
4.	Mrs. S.Shalini	ECE	Intelligent fire detection* system using Arm processor LPC2148 implementation	16,000.00
5.	Dr.B.Elizabath Caroline	ECE	Mechatronic design and Robust control of an Artificial ventilator in response to Covid-19 pandemic.	14,000.00
6.	Dr. M.Saravanan	ECE	IOT- Enabled cold storage system with real-time image processing for intelligent monitoring of fruits.	17,000.00
7.	Mrs. A.Inbavalli	CSE	Assessing metrics using Lora technology for real landslide monitoring within IOT framework	15,000.00
8.	Mrs. S.Chandhini	CSE	Centralized street light monitoring system using IOT	13,000.00
9.	Dr. T.Ananthkumar	CSE	Enhancing cargo safety and efficiency with IOT-Enables monitoring and dynamic load management.	17,000.00
10.	Mrs. K.Kalaiselvi	CSE	Harnessing the power of machine learning in IOT-driven agriculture to categorize micronutrients and supercharge crop productivity.	14,000.00
11.	Ms. R.ShyamalaDevi	CSE	IOT based accident detection rescue system.	13,000.00
12.	Mr. A.Balachandar	CSE	Smart NODEMCU based office automation security system using IOT.	11,000.00
13.	Mrs. S.Nithyabharathi	CSE	Marine border surveillance using RSSI for enhanced alert system	16,000.00
14.	Mrs. S.Sudha	CSE	Bluetooth control voice sensing and hand guesture Robot	11,000.00

15.	Mrs. K.Kalaiselvi	CSE	Coal mining monitoring system using LORA based wireless network with IOT	11,000.00
16.	Mrs. C.Manimegalai	CSE	Developing an WIFI module based smart device control system using IOT and Bluetooth technology	11,000.00
17.	Mrs. G.Leemaroselin	CSE	Real time on Chip machine learning base wearable behing the ear electroencephalogram device for emotion recognition.	12,000.00
18.	Mr. S.Senthilkumar	CIVIL	Experimental Investigation and study on saline water treatment in Kanthadu village	22,000.00
19.	Mr. N.Sivanantham	EEE	Hybrid forced air convection and illumination technique for fruits and vegetables preservation using solar dryer.	24,000.00
20.	Mrs. G.Anbarasi	EEE	Portable organic processing system using pulsed electric field.	22,000.00
21.	Mrs. K.Elavarasi	IT	Carbon monitoring system using IOT	22,000.00
22.	Dr. R.Thendral	IT	Enhancing wellness and location monitoring for mountain climbers	21,000.00
23.	Dr. K.Sathyabama	IT	Facial expression enabled navigation system for the visually impaired people.	22,000.00
24.	Mr. K.Kamalakannan	MECH	Production of Bio-oil from oil waste through thermal degradation process.	22,000.00
25.	Dr.B.Elamvazhudi	MECH	Improving the efficiency of solar panel by optimizing the design parameters.	23,000.00
26.	Mr.C.Manimaran	MECH	Improved lithium Sulphur battery performance by applying the solid electrolyte interface method.	21,000.00
27.	Mr.R.Thamizhvel	MECH	Production of Bio-oil from health care plastic waste through thermal degradation system	22,000.00
28.	Mr.S.Vinodraj	MECH	An Experimental analysis and ANN based parameter optimization of the influence of P.Julifra blends on CI engine attributes.	21,000.00
29.	Dr.K.Ganesabalamurugan	MECH	Stimulation on additive Manufacturing for Aluminum alloys	21,000.00
			TOTAL	**5,02,000.00**

After completion of the projects, Faculty should

i.   Submit a detailed completion report of projects with expenditure details
ii.   Arrange to publish technical papers in National/International journals and conference.
iii. Take steps to apply for patents.
iv.   The Unspent amount is to be remitted back to the trust.

Submitted to the chairman for approval

PRINCIPAL 05/7/2024

Date: 06/05/2024

Sub: Completion of projects with seed money grant- Reg

       With reference to the circular dated on 07.08.23 seed money of Rs- 5,02,000/-was sanctioned for 29 projects. The projects have been successfully completed. The list of projects with the actual amount spent is given below. The total amount of **Rs-4,86,946/-** is spent by the students. We kindly request you to release the amount at the earliest.

S.No	Faculty Name	Dept	Title of the Project	Amount(Rs)
1.	Mrs. D.Vasanthi	ECE	ESP32 Based directional valve control system with Real- time weather integration	20,719.00
2.	Mrs. K.Bhuvaneswari	ECE	Revolutionizing transportation with gyroscopic self-balancing technology.	10,710.00
3.	Mrs. Ranjitha	ECE	Surveillance robot using ESP32 camera module for defence application	15,535.00
4.	Mrs. S.Shalini	ECE	Intelligent fire detection system using Arm processor LPC2148 implementation	15,500.00
5.	Dr.B.Elizabath Caroline	ECE	Mechatronic design and Robust control of an Artificial ventilator in response to Covid-19 pandemic.	13,700.00
6.	Dr. M.Saravanan	ECE	IOT- Enabled cold storage system with real-time image processing for intelligent monitoring of fruits.	16,300.00
7.	Mrs. A.Inbavalli	CSE	Assessing metrics using Lora technology for real landslide monitoring within IOT framework	14,450.00
8.	Mrs. S.Chandhini	CSE	Centralized street light monitoring system using IOT	12,450.00
9.	Dr. T.Ananthkumar	CSE	Enhancing cargo safety and efficiency with IOT-Enables monitoring and dynamic load management.	16,290.00
10.	Mrs. K.Kalaiselvi	CSE	Harnessing the power of machine learning in IOT-driven agriculture to categorize micronutrients and supercharge crop productivity.	13,360.00
11.	Ms. R.ShyamalaDevi	CSE	IOT based accident detection rescue system.	12,130.00
12.	Mr. A.Balachandar	CSE	Smart NODEMCU based office automation security system using IOT.	10,245.00
13.	Mrs. S.Nithyabharathi	CSE	Marine border surveillance using RSSI for enhanced alert system	15,610.00
14.	Mrs. S.Sudha	CSE	Bluetooth control voice sensing and hand guesture Robot	10,720.00
15.	Mrs. K.Kalaiselvi	CSE	Coal mining monitoring system using LORA based wireless network with IOT	10,898.00

16.	Mrs. C.Manimegalai	CSE	Developing an WIFI module based smart device control system using IOT and Bluetooth technology	10,050.00
17.	Mrs. G.Leemaroselin	CSE	Real time on Chip machine learning base wearable behing the ear electroencephalogram device for emotion recognition.	11,749.00
18.	Mr. S.Senthilkumar	CIVIL	Experimental Investigation and study on saline water treatment in Kanthadu village	21,500.00
19.	Mr. N.Sivanantham	EEE	Hybrid forced air convection and illumination technique for fruits and vegetables preservation using solar dryer.	23,050.00
20.	Mrs. G.Anbarasi	EEE	Portable organic processing system using pulsed electric field.	21,100.00
21.	Mrs. K.Elavarasi	IT	Carbon monitoring system using IOT	21,400.00
22.	Dr. R.Thendral	IT	Enhancing wellness and location monitoring for mountain climbers	20,400.00
23.	Dr. K.Sathyabama	IT	Facial expression enabled navigation system for the visually impaired people.	21,500.00
24.	Mr. K.Kamalakannan	MECH	Production of Bio-oil from oil waste through thermal degradation process.	21,500.00
25.	Dr.B.Elamvazhudi	MECH	Improving the efficiency of solar panel by optimizing the design parameters.	22,010.00
26.	Mr.C.Manimaran	MECH	Improved lithium Sulphur battery performance by applying the solid electrolyte interface method.	21,000.00
27.	Mr.R.Thamizhvel	MECH	Production of Bio-oil from health care plastic waste through thermal degradation system	21,500.00
28.	Mr.S.Vinodraj	MECH	An Experimental analysis and ANN based parameter optimization of the influence of P.Julifra blends on CI engine attributes.	20,870.00
29.	Dr.K.Ganesabalamurugan	MECH	Stimulation on additive Manufacturing for Aluminum alloys	20,700.00
			TOTAL	**4,86,946.00**

After completion of the projects, Faculty should

v.   Submit a detailed completion report of projects with expenditure details
vi. Arrange to publish technical papers in National/International journals and conference.
vii. Take steps to apply for patents.
viii. The Unspent amount is to be remitted back to the trust.

Submitted to the chairman for approval

PRINCIPAL 05/7/202