



IFET COLLEGE OF ENGINEERING
(An Autonomous Institution)

GANGARAMPALAYAM, VILLUPURAM-605 108.

POLICY FOR SANCTION OF SEED MONEY

1. Seed money is provided by the Trust to faculty members to initiate and complete the project works and it is informed through circular every year.
2. Faculty members are requested to submit proposals to get the seed money.
3. All proposals will be scrutinized by a committee consisting of senior professors.
4. The selected proposals are submitted to the Chairman of the Trust for approval.
5. After approval, the trust will release funds to faculty members.
6. After completion of projects faculty members should,
 - a. Submit a detailed completion report of the projects with expenditure details.
 - b. Arrange to publish technical papers in national/international journals and conferences.
 - c. Take steps to apply for patents.
 - d. The unspent amount is to be remitted back to the trust.

CHAIRMAN,
IFET College of Engineering,
(An Autonomous Institution)
IFET Nagar, **GANGARAMPALAYAM,**
Villupuram District, 605 108.

IFET COLLEGE OF ENGINEERING
(An Autonomous Institution)

IFET/PRI/CIR/2022-23

Date: 04/04/2022

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 2022-23. The details of the allocation of funds for the departments are enclosed. To utilize the funds effectively, HoD's are requested to identify deserving 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 04/04/2022

Copy to:

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

IFET COLLEGE OF ENGINEERING
(An Autonomous Institution)

CIRCULAR

IFET/PRI/CIR/2022-23

Date: 15/04/2022

The following faculties are requested to scrutinize the best projects for the academic year (2022-2023) to avail the SEED funding sponsored by our Indo French Educational Trust and submit the details on or before 30/04/2022.

| S.NO | STAFF NAME | DEPARTMENT | DESIGNATION |
|------|---------------------------|------------|---------------------|
| 1 | Dr. B.Elizabeth 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 | Associate Professor |
| 8 | Dr. R. Senthil Kumaran | ECE | Associate Professor |
| 9 | Dr. T. Ananth kumar | CSE | Assistant Professor |
| 10 | Dr. K. Ganesa Balamurugan | MECH | Associate Professor |


PRINCIPAL 15/04/2022

IFET COLLEGE OF ENGINEERING
(An Autonomous Institution)

Submitted to the Principal

Date: 28.04.2022

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

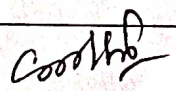



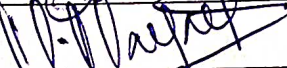

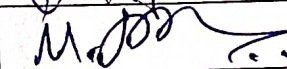
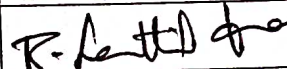

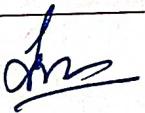
| S.No | Faculty Name | Dept | Project Title |
|------|---------------------|-------|---|
| 1 | Dr. Pugazhendiran P | EEE | Design and implementation of Solar based smart Notice board |
| 2 | Mr. Sivanandham N | EEE | Design and Implementation of closed loop three level ZVS Controlled Resonance Converter |
| 3 | Mrs. Vimala P | EEE | PV based combination of interleaved single I/P multi output converter |
| 4 | Mrs. Revathy R | EEE | Battery Management System for Electric Vehicle |
| 5 | Mr. Rampradesh T | EEE | Fault Detection in Electric system using Drone – Part II |
| 6 | Mrs Prokodi N | CIVIL | Bio electricity production from grape waste using microbial fuel cell |
| 7 | Ms. Pavithra K | CIVIL | Finite element modelling & analysis of beam with Self Consolidating Concrete (SCC) using ANSYS |
| 8 | Mr. Senthilkumar S | CIVIL | Structural investigation on aggregates by waste glass |
| 9 | Ms. Priyanka P | CIVIL | Experimental study on pollution adsorbing wall panels |
| 10 | Mrs. Suganthi. J | IT | Implementation of real time surveillance system for aquaculture farming using cloud |
| 11 | Mrs. Libina M | IT | Evacuation system for clogging-free and shortest- safe path using IOT devices |
| 12 | Mrs Jayachitra J | IT | Automated hybrid Emergency medical service |
| 13 | Mr. Arunkumar M | IT | Enhanced network stability and reliability using Software-Defined Technology |
| 14 | Mrs. Kavitha C | IT | Traffic sign detection and Automatic voice guidelines to the driver using Raspberry PI |
| 15 | Mrs. Elavarasi K | IT | Preventing privacy leakage in cloud service with weighted majority algorithm in personal information |
| 16 | Mr. Sagadevan K | ECE | IOT based smart irrigation system techniques |
| 17 | Mrs. Keerthiga K | ECE | Online Bus Booking System using ASP.net |
| 18 | Mr. Jayakumar A | ECE | Automated Surveillance robot using raspberry PI |
| 19 | Mrs.Gomathi R | ECE | The Energy Efficient Internet of Things Networking Using IRS and WPT |
| 20 | Mrs. Premalatha G | ECE | Implementation of Bluetooth based advanced child rescue system from an open bore well in real time scenario |
| 21 | Mr. Ganesh M | MECH | Experimental investigation of performance and emission characteristics of diesel engine fuelled by grape seed oil with a nano-additives |
| 22 | Mr. Sakthivel M | MECH | Design and development of a sodium ion solid state battery |
| 23 | Mr. Kulothungan S | MECH | Study of micro beam machining in super alloy C276 |
| 24 | Mr. Thamizhvel M | MECH | Potential use of ceramic and granites waste in AJM |
| 25 | Mr. Sethuraman N | MECH | Emission reduction in CI engine using $FeCl_2$ and $MgCl_2$ -beta zeolite coated catalytic converter |


| | | | |
|----|----------------------|------|---|
| 26 | Mr.Venkatakrishnan R | MECH | Effect of surface treatment on Hemp fiber reinforced polymer matrix composites |
| 27 | Mr. Jayakumar D | CSE | Facial mask detection for automatic attendance system using Artificial intelligence |
| 28 | Mr.Balachandar A | CSE | Energy efficiency in wireless sensor network using redfox optimization algorithm |
| 29 | Mrs. Leema Roselin G | CSE | Certificate digitalisation using Hyper Ledger Fabric Blockchain Technology |
| 30 | Mr. Raguraman D | CSE | Poverty prediction from satellite imagery using faster R - CNN |
| 31 | Mr. Ramkumar M.O | CSE | Machine learning approaches for customer attrition prediction and analysis |
| 32 | Mr. Parthiban R | CSE | Crop recommendation based on Indian Agriculture using Machine Learning |

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 | Dr.Pugazhendiran P | EEE | Design and implementation of Solar based smart Notice board |
| 2 | Mrs. Vimala P | EEE | PV based combination of interleaved single I/P multi output converter |
| 3 | Mr.Rampradesh T | EEE | Fault Detection in Electric system using Drone – Part II |
| 4 | Mrs Prokodi N | CIVIL | Bio electricity production from grape waste using microbial fuel cell |
| 5 | Ms. Priyanka P | CIVIL | Experimental study on pollution adsorbing wall panels |
| 6 | Mrs. Suganthi. J | IT | Implementation of real time surveillance system for aquaculture farming using cloud |
| 7 | Mrs Jayachitra J | IT | Automated hybrid Emergency medical service |
| 8 | Mrs. Kavitha C | IT | Traffic sign detection and Automatic voice guidelines to the driver using Raspberry PI |
| 9 | Mr. Sagadevan K | ECE | IOT based smart irrigation system techniques |
| 10 | Mr. Jayakumar A | ECE | Automated Surveillance robot using raspberry PI |
| 11 | Mrs. Premlatha G | ECE | Implementation of Bluetooth based advanced child rescue system from an open bore well in real time scenario |
| 12 | Mr. Sakthivel M | MECH | Design and development of an sodium ion solid state battery |
| 13 | Mr.R.Thamizhvel | MECH | Potential use of ceramic and granites waste in AJM |
| 14 | Mr.R.Venkatakrishnan | MECH | Effect of surface treatment on Hemp fiber reinforced polymer matrix composites |
| 15 | Mr.Balachandar A | CSE | Energy efficiency in wireless sensor network using redfox optimization algorithm |
| 16 | Mr. Raguraman D | CSE | Poverty prediction from satellite imagery using faster R - CNN |
| 17 | Mr. Ramkumar M.O | CSE | Machine learning approaches for customer attrition prediction and analysis |

RECOMMENDED BY

| S.NO | STAFF NAME | DEPARTMENT | DESIGNATION | SIGNATURE |
|------|---------------------------|------------|---------------------|--|
| 1 | Dr. B.Elizabeth 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 | Associate Professor |  |
| 8 | Dr. R. Senthil Kumaran | ECE | Associate Professor |  |
| 9 | Dr. T. Ananth kumar | CSE | Assistant Professor |  |
| 10 | Dr. K. Ganesa Balamurugan | MECH | Associate Professor |  |


PRINCIPAL



IFET COLLEGE OF ENGINEERING
(An Autonomous Institution)
GANGARAMPALAYAM, VILLUPURAM-605 108.

Date: 04/05/2022

Sub: Provision of seed money to faculty members for the academic year 2022 -23.

Based on the recommendation of the Selection Panel, the following project proposals are selected for providing the seed money.

| S.NO | FACULTY NAME | DEPT | TITLE OF THE PROJECT | AMOUNT (Rs.) |
|------|----------------------|-------|---|--------------|
| 1 | Dr.Pugazhendiran P | EEE | Design and implementation of Solar based smart Notice board | 21,500.00 |
| 2 | Mrs. Vimala P | EEE | PV based combination of interleaved single I/P multi output converter | 21,500.00 |
| 3 | Mr.Rampradesh T | EEE | Fault Detection in Electric system using Drone – Part II | 22,010.00 |
| 4 | Mrs Prokodi N | CIVIL | Bio electricity production from grape waste using microbial fuel cell | 28,375.00 |
| 5 | Ms. Priyanka P | CIVIL | Experimental study on pollution adsorbing wall panels | 23,000.00 |
| 6 | Mrs. Suganthi. J | IT | Implementation of real time surveillance system for aquaculture farming using cloud | 20,105.00 |
| 7 | Mrs Jayachitra J | IT | Automated hybrid Emergency medical service | 20,870.00 |
| 8 | Mrs. Kavitha C | IT | Traffic sign detection and Automatic voice guidelines to the driver using Raspberry PI | 20,875.00 |
| 9 | Mr. Sagadevan K | ECE | IOT based smart irrigation system techniques | 22,394.00 |
| 10 | Mr. Jayakumar A | ECE | Automated Surveillance robot using raspberry PI | 23,400.00 |
| 11 | Mrs. Premlatha G | ECE | Implementation of Bluetooth based advanced child rescue system from an open bore well in real time scenario | 24,075.00 |
| 12 | Mr. Sakthivel M | MECH | Design and development of an sodium ion solid state battery | 22,950.00 |
| 13 | Mr.R.Thamizhvel | MECH | Potential use of ceramic and granites waste in AJM | 21,550.00 |
| 14 | Mr.R.Venkatakrishnan | MECH | Effect of surface treatment on Hemp fiber reinforced polymer matrix composites | 21,400.00 |

| | | | | |
|--------------|-------------------|-----|--|--------------------|
| 15 | Mr. Balachandar A | CSE | Energy efficiency in wireless sensor network using redfox optimization algorithm | 21,000.00 |
| 16 | Mr. Raguraman D | CSE | Poverty prediction from satellite imagery using faster R - CNN | 20,425.00 |
| 17 | Mr. Ramkumar M.O | CSE | Machine learning approaches for customer attrition prediction and analysis | 20,700.00 |
| TOTAL | | | | 3,76,129.00 |

After Completion of the projects, Faculty should

1. Submit a detailed completion report of the projects with expenditure details.
2. Arrange to publish technical papers in national/international journals and conferences.
3. Take steps to apply for patents.
4. The unspent amount is to be remitted back to the trust.

Submitted to the chairman for approval

G. S. Sathyan
05/05/2022
PRINCIPAL

[Signature]