INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

DUNDIGAL – 500 043, HYDERABAD

CALL FOR STUDENT INNOVATIVE PROJECT PROPOSALS

IARE, ventured into launching and implementing a programme called **STUDENT INNOVATIVE PROJECT PROGRAMME (SIPP)** for providing financial and academic support from the students of B.Tech VI Semester Engineering project works.

Objectives:

1. Creativity of students applied to solve development problems of people using Science and Technology.
2. Enrich collegiate education through finding solutions to real life problems.
3. Improve understanding and develop methodology of solving complex issues.

IARE has identified the following Thrust Areas for the student's project proposal:

1. Mechanisms / machines for Waste disposal / treatment technologies - Conventional / Alternative, Drainage cleaning, Weed removal in lakes, Waste processing technologies, Cleaning mechanisms for high-rise buildings.
2. Repair and Retrofit Structures using FRP systems.
3. High Temperature behavior of Concrete, Steel and Masonry
4. Use of pond ash as replacement to sand in Mortars.
5. Demolished masonry wastes for building blocks or sand replacement.
6. Partially pre-cast roofing systems.
7. Eco-friendly concrete, use of synthetic sand for concrete.
8. Micro Air Vehicle.
9. Material processing and Aerospace materials.
10. Smart technology for physically challenged / agriculture / farming.
11. Wireless driven technology for water supply, irrigation, safety, finance / power aspects, etc.
12. Control techniques for gaseous pollutants.
13. Hybrid vehicles, Hydrogen as an auto fuel, Weight reduction in vehicles.
14. Greenhouse gas mitigation.
15. Application of Electrostatics, Electrostatic Hazards.
16. Cyber Physical Systems (CPS) and Designs for Anti-thefts in ATMs
17. Solar thermal energy devices, solar photo-voltaic packages for domestic applications.
18. Renewable energy / Energy conservation aspects / Energy Efficient Smart systems.
19. Self powered electronics.
20. Health monitoring systems.
21. Low power embedded system.
22. New Technologies for protection against fire damage.
23. Use of IOT
24. Any other innovative area.

The project team (batch) can have up to a maximum of **THREE / FOUR** students. The team should submit the hardcopy of the project proposal in the prescribed SIPP format only (available in Intellect CMS Login – Bulletin Board), duly signed by their Project Guide and Head of the Department **to Dean, Science and Technology Park (STSP)** on or before **10 May, 2019**. **Project proposals submitted after this date will not be entertained for funding.**

For more details if any please contact:

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