GEETHANJALI INSTITUTE OF SCIENCE AND TECHOLOGY::NELLORE

7.1.2- BEST PRACTICE II for the AY 2023-24

1.Title of the Practice – Research Incentive Scheme

2. Objectives of the Practice:

- To Enhance Knowledge of faculty.
- To Improve Job Related Skills.
- To meet the challenges posed by new developments in science and technology
- provide knowledge of various career options.
- Stimulating new ideas and innovative approaches in research
- Increasing the quantity and quality of research outputs
- Strengthening the overall research capacity of the organization or institution
- Helping researchers secure external grants and funding.

3. The Context:

- Designed to enhance research productivity and innovation within academic and research institutions.
- Often tied to government policies, institutional budgets, and private sector investments that prioritize research
- Aligns with broader institutional goals, such as improving global rankings, fostering collaboration, and addressing societal needs.
- May incorporate metrics to assess the quality and impact of research outputs, such as publications and patents.
- Reflects shifts in the research landscape towards more interdisciplinary and applied research efforts
- Focuses on attracting and retaining top researchers through recognition and rewards

4.The Practice:

- Defining who can participate, such as faculty, researchers, and students, and what types of research are eligible
- Establishing rewards that may include financial bonuses, grants, additional funding for projects, sabbaticals, or professional development opportunities.
- Implementing criteria to evaluate research output, such as the number of publications, citations, patents, or successful grant applications.

- Creating a transparent process for researchers to apply for incentives, which may include submitting proposals or progress reports.
- Forming committees or panels to review applications and assess the merit of research contributions.
- Providing researchers with constructive feedback to improve future proposals and enhance their research practices.
- Actively promoting the scheme within the institution to ensure researchers are aware of the opportunities available.

5.Successful outcomes:

- Higher volumes of publications, patents, and conference presentations, indicating enhanced productivity.
- Greater success in securing external grants and funding opportunities as a result of incentivized research efforts.
- Increased interdisciplinary and cross-institutional collaborations, leading to innovative projects and solutions.
- Research that translates into practical applications, addressing real-world challenges and benefiting communities.
- Improved rankings and visibility of the institution within the academic and research community.
- Enhanced professional development opportunities for researchers, leading to skill upgrades and career advancement.

6.Problems Encountered and resources required:

- Lack of knowledge on perquisite of programmer.
- Lack of time for practice session.
- Reliance on quantitative metrics may undermine of research, promoting quantity over substance.
- Each student has different goal to achieve.
- Incentives may encourage researchers to pursue projects that yield quick results, neglecting long-term, impactful research.
- Limited resources can constrain the scope and effectiveness of the incentive scheme.
- Researchers may not fully understand the scheme or how to navigate the application process.
- Established researchers may be resistant to new evaluation criteria or competitive environments.
- Perceived or actual unfairness in the distribution of incentives, leading to dissatisfaction among researchers

7.Resources required for – Skill development due to online training programmes

- Equipment's and kits.
- Internet and computers.
- Access to Devices
- Reliable Internet Connectivity
- Learning Management System
- Content Development
- Subject Matter Experts
- Clear Communication Channels

List of faculty benefited from Research Incentive Scheme

S. No.	Name of the Faculty	Title	Amount (in Rs.)
Research Paper Publication			
1	Dr. U. Penchalaiah (ECE)	Deep learning based condition monitoring of road traffic for enhanced transportation routing (SCI)	4000/-
2	Dr. P. Kumar Babu (ME)	Fuzzy logic based power optimizer for solar photovoltaic power systems (Scopus)	2400/-
3	Mr. D. Pavan Kumar (CE)	Pavement design using bituminous surface course with recycled aggregates (Scopus)	6000/-
4	Smt. G. Nilima (ME) Dr. N. Padma Sravya (ME)	Mechanical Characterization and Optimization of friction stir welding on Aa6061 (UGC)	1500/-
5	Mr. Y. Murali Krishna (ME)	Static and dynamic frequency analysis of four wheeled car muffler system by using finite element (UGC)	1500/-
6	Dr. P. Chakrapani Smt. D. Suma Lalitha	The financial impact of social media marketing: A case study of technology startups (Scopus)	6000/-
7	Ms. B. Poojitha (CSE) Dr. P. Babu (CSE) Dr. N. Sai Sindhuri (CSE)	A Model effective on predictive modelling for early disease detection using machine learning (Scopus)	6000/-
8	Dr. T. Ravi Kumar (EEE) Dr. T.N.V.L.N Kumar (EEE) Dr. S. Sridhar (EEE) Mr. D. Murali (EEE)	A Multilevel Inverter with generalised high gain for use in small solar power systems (Scopus)	6000/-
Book Publication			
9	Dr. P. Kumar Babu (ME)	Fundamentals of Fluid Mechanics	10000/-
10	Dr. R. Rajani (CSE) Dr. V. Gayatri (CSE) Dr. N. Sai Sindhuri (CSE) Dr. P. Babu (CSE)	Introduction to Internet of Things and its applications	10000/-

Patent			
11	Dr. P. Babu (CSE)	Internet of Things equipment digital identity management system and method based on block chain	1000/-
NPTEL Certification			
12	Mr. G. Suresh (ECE)	Introduction to Internet of Things	1000/-
13	Mr. A. Vinay Kumar (EEE)	Introduction to Internet of Things	1000/-
14	Mr. N. Prasad (EEE)	Introduction to Internet of Things	1000/-
15	Mr. D. Murali (EEE)	Introduction to Internet of Things	1000/-
16	Mr. G. Seenaiah (EEE)	Introduction to Internet of Things	1000/-
17	Smt. G. Vasundhara (EEE)	Introduction to Internet of Things	1000/-
18	Mr. D. Ramesh (CSE)	Introduction to Internet of Things	1000/-
19	Smt. Sk. Haseena (ECE)	Analog Circuits	1000/-
20	Dr. V. Gayatri (CSE)	Programming in JAVA	1000/-
21	Smt. V. Bharathi (CSE)	Cloud Computing	1000/-
22	Mr. D. Pavan Kumar (CE)	Research Methodology	1000/-
23	Smt. G. Nilima (ME)	Introduction to Programming in C	1000/-
Total			66,400/-