<div align="center">**BEST PRACTICE – 1**</div>

1. **Title of the Practice:KLNCE-Honeywell Technology Solutions (HTS) Remote Project Mentorship**

2. **Objectives of the Practice:**
    The main objective of this **HTS Remote Project Mentorship** are to develop the necessary skills and knowledge of the students to solve real time problems.

3. **Context:**
    First time in KLNCE, HTS launched remote Project mentorship program at our KLNCE – HTS Sentience lab from July 2018. HTS and KLNCE mentors for their sincere and continuous guidance to our students to find solution and solve the problems in effective way. HTS mentors to support and clarify the doubts through online as well as scheduled reviews in HTS and KLNCE venues.

4. **Practice:**
    For this program, Every year15 students were scrutinized by KLNCE and HTS experts from department of IT, CSE & ECE .These students are given problem statements in the areas are latest cutting edge technologies like Natural Language Processing, Data Work Flow, Chat Bot using Machine Language & Image Processing. All the problem statements are real time projects from HTS, these projects enable the student to get exposed into the industry related use.

5. **Evidence of Success:**
    As outcome of this program both student and faculty mentors exposed and gain the following benefits.
    - Industry Exposure – Student & Staff
    - Industrial Related Problems
    - Frequent Interaction with HTS experts
    - Internships to the students
    - Opportunity to work on cutting edge technologies

6. **Problems encountered and resources required**
Training for faculty members are needed on cutting edge technologies

7. **Outcome:**
    From the institute point of view we observed that, there are lot of transformation happened in our student interns of technical and personal attitude, now these students are good / improvement in the following skills.
    - Design thinking ability
    - Approach to the problems.
    - Problem Solving skills
    - Continuous and lifelong learning
    - Exposed in cutting edge technology
    - Confidence building

<div align="center">Value added course on UAV conducted by Honeywell Technologies and Solutions, Madurai

Academic Year 2022-2023</div>

Sl. No	Name of the Student	Register Number	Programme	Semester
1	GAYATHRE RANGA SRI R	910620105017	Dept of IT	V
2	KARTHIYAYINI T G	910620105031	Dept of IT	V
3	MAHALAKSHMI T G	910620105038	Dept of IT	V
4	PONKALPANA P	910620105051	Dept of IT	V
5	UMA MAHESWARI R	910620105082	Dept of IT	V
6	SUBASRI M	910620105076	Dept of IT	V
7	HARINI S	910620105021	Dept of IT	V
8	SUPRAJA R B	910620105078	Dept of IT	V
9	KRITHIGAVARSHINI AK	910620105035	Dept of IT	V

10	NAZEEHA SHERIN S	910620105047	Dept of IT	V
11	MONIKKA A	910620105042	Dept of IT	V
12	KANAGA LAKSHMI M	910620105028	Dept of IT	V
13	NEELARAM J S	910620105048	Dept of IT	V
14	KARTHIKEYAN V G	910620105030	Dept of IT	V
15	KRISHNA KUMAR M	910620105033	Dept of IT	V

BEST PRACTICE – 2

1. **Title of the Practice:** Research Promotion Through QCARD (Quality Circle– Advanced Research And Development)

2. **Objectives of the Practice:**

QC-ARD of KLNCE aims to create and develop innovative research among community of academicians which in turn to give frontline practice to student's community in the arena of research. KLNCE believes that acquiring research practices and bringing out new cutting edge technologies among academicians improves the student betterment towards research. QC-ARD as a best practice emphasizes and set goals for faculty members by enabling them to discover new ideas which ultimately brand them as a knowledge contributor.

3. **Context:**

KLNCE is situated in a remote area from town and thus it is indeed necessary to provide research infrastructure for both faculty members and students within the college environment. It is need of the day to compete with competitive research world and thus QC-ARD motivates faculty members to develop innovative projects with the help of seed funding sponsored by management of KLNCE. Proactive faculty members of the institution get involved and acquire knowledge on research from quality research programs organized by QC-ARD. QC-ARD act as a stepping stone for young researchers to face outside world with state-of-the-art knowledge.

4. **Practice:**

The convener of QC-ARD convenes frequent meetings among members to convey research oriented activities such as project proposals, quality publications and workshops. QC-ARD as a Research forum motivates domain experts within the college to deliver their area of focus among faculty members which may be an initiative for multidisciplinary projects. The practice of submitting proposals in a prescribed format and completion report is cultivated among faculty members. Patent filing of innovative ideas are also educated to all.
The best practices of QC-QRD are,
1. Motivating faculty members for preparing proposals for sponsored research from industries/Govt. /Research Agencies.
2. Conducting Seminars/Workshops/Faculty Development Programs in advanced research topics.
3. Enabling faculty members towards quality publications in international journals and patent filing of innovative ideas.
4. Motivating faculty members to act as reviewers in reputed journals.

5. **Evidence of Success:**

This forum has conspicuous outcome in developing research culture in education environment. Research proposal writing and its number have been increased among faculty members from inception. Faculty members use the proof of concept for filing patents. Many of the faculty members improved their quality publications in various international journals. Research supervisors of KLNCE Research Centre motivate their research scholars for quality publication in reputed journals.

6. **Problems encountered and resources required**

    Advanced Research equipments are needed to conduct experiments.

7. **Outcome:**

    The selected projects through this cell are submitted to get fund from external agencies. This research promotion cell mainly focuses to provide technical solutions for societal problems in the field of Agriculture, Communication & Medical with latest technology.

INTERNAL FUNDED PROJECTS

2022 – 2023

S. No	PI	Co-PI	Title	Dept.	Amount (Rs)
1	Mr. D. Pravin Kumar, ASP / CSE	Mr. M. Arul Selvan AP / CSE	Shop Smarter	CSE	59,000/-
2	Dr. R. Karthick, ASP / CSE	Dr. R. Lakshmi, ASP / CSE	Intelligent helmet violation system	CSE	39,600/-
3	Mrs. S. Venkatalakshmi, AP / CSE Mrs. V. Karpagam, AP / CSE	Dr. S. Miruna Joe Amali, Prof. & Head/CSE Mrs. R. Kirubahari, AP / CSE Mrs. G. Rajeswari, AP / CSE	Automatic Traffic Congestion control system	CSE	23,200/-
4	Dr. V. Kejalakshmi, Prof. & HOD / ECE	Ms. L. Meenakshi, AP / ECE Ms. R. Pavithra, AP / ECE Ms. C. Sasirekha, AP / ECE	Automatic Food Dispenser	ECE	40,000/-
5	Dr. R. Jeyanthi, Prof. /ECE	Dr. P. Karpagavalli, ASP / ECE Mrs. R. Thilagavathy, AP (Sr. Gr.) / ECE Mrs. S. Indumathi, AP / ECE	IoT Based Smart Poultry Form	ECE	37,500/-
6	Dr. T. R. Muthu, ASP / ECE Dr. B. Buvaneswari, ASP / ECE		Smart Shopping Cart	ECE	13,100/-