

## 7.2 Best Practices

7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

S. No.	Content	Page No.
1.	Best Practice-01	01
2.	Best Practice-02	19
3.	Best Practice-03	27

**Best Practice-01**  
**Pedagogical Approaches**  
**using IT/ICT tools**

## Best Practice 1

### Pedagogical Approaches using IT/ICT tools

#### A. THINK PAIR SHARE METHOD

##### Chemistry Lab

##### 1. Objectives of the Practice

In chemistry lab an effective cooperative learning strategy is applied to encourage student engagement, to promote collaboration, and to deepen understanding of key concepts.

The Chemistry Department has advance infrastructural ambience for teaching and learning with the special focus on practical's where student performance is evaluated with well-defined procedures. The curriculum is made more interesting by extending it to the applied aspects wherever possible like, ground water analysis using Instrumental Analytical Techniques. The practical's are also taken as a means to bring about changes in the attitude of the students by inculcating values in them.

##### 2. The context

Faculty have to prepare a series of experiments and questions for students to answer at the viva voce/ discussion sessions

Encourage students to participate and also efforts to overcome fear in students while presenting their topic.

After performing a titration experiment, students need to analyse their data (e.g., the volume of titrant used).

- **Think:** Students independently calculate the concentration of the unknown solution based on their titration data.
- **Pair:** They work with a partner to compare results and ensure their calculations match, discussing any discrepancies.
- **Share:** Pairs share their methods and conclusions with the class, and the teacher leads a discussion on common sources of error in titration and how to improve accuracy.

##### 3. Evidence of the Success





### **Problems encountered and resources required**

Lab sessions are often time-limited, and activities like "Think, Pair, Share" may take longer than expected, especially if discussions are extensive or if students need more time to process and compare their ideas.

Some students may be disengaged or reluctant to participate in the activity, which can hinder the effectiveness of the "Pair" or "Share" stages.

Ensured that students understand the value of the activity. Encouraged participation by creating a safe, inclusive environment where all ideas are respected.

**Best Practice 1**  
**Pedagogical Approaches using IT/ICT tools**  
**B. CAREER VISION APPROACH**

**National Science Day Celebration on "Role of Machine Learning in Materials Design"**

**National Science Day Celebration**

**Date:** February 28, 2024

**Location:** Block-IV, Seminar Hall

**Organized by:** Muffakham Jah College of Engineering and Technology

*Introduction*

On National Science Day 2024, an event was held to explore the **Role of Machine Learning (ML) in Materials Design**, highlighting the intersection of ML and materials science. The event aimed to inspire participants about the transformative potential of ML in materials development, fostering innovation across industries such as energy, electronics, and healthcare.

*Event Highlights*

**Keynote Speakers:**

- **Dr. Mr. Ravindranadh Bobbili**, Scientist-E, DMRL, Hyderabad discussed "**Machine Learning for Accelerated Materials Discovery**", explaining how ML is used to identify new materials quickly.
- **Prof. Mahipal Singh Rawat**, shared insights on "**AI and Materials Science: Real-World Applications**", showcasing ML's application in solar energy, battery tech, and sustainable materials.

**Panel Discussion:**

Experts from academia and industry discussed challenges and future trends in using ML for materials design, highlighting its role in predicting material behaviors and optimizing properties.

**Workshops:**

- "**ML Algorithms for Material Prediction**": Hands-on training in using ML to predict material properties.
- "**AI-Driven Materials Discovery**": Participants learned how to apply data analytics and ML to discover new materials.

**Networking Session:**

Attendees had the opportunity to connect with industry professionals and academic researchers, discussing career paths and collaborative projects.

## *Impact and Outcomes*

- **Increased Awareness:** Participants learned about ML's significant role in materials science and its applications across industries.
- **Career Inspiration:** Students were inspired to explore careers at the intersection of ML and materials science.
- **Skill Development:** Workshops provided practical skills in ML tools and techniques for materials design.
- **Industry-Academic Collaboration:** The event encouraged deeper collaboration between academic institutions and industry, fostering new research opportunities.

## *Feedback*

Participants expressed positive feedback, particularly appreciating the educational value of the workshops and the relevance of the discussions. Networking opportunities were also highlighted as beneficial for career growth.

## *Conclusion*

The event successfully showcased the role of machine learning in revolutionizing materials science. It inspired future researchers and professionals, promoted innovation, and highlighted the need for continued collaboration between academia and industry. The celebration reinforced the importance of ML in addressing global challenges and advancing technological progress.







**Best Practice 1**  
**Pedagogical Approaches using IT/ICT tools**  
**B. CAREER VISION APPROACH**

**A two-day workshop on "The Art of Effective Communication: Mastering Soft Skills and Interpersonal Skills for Success". on 11&12 July, 2023 in the seminar Hall, Block IV from 11:00-1:00pm**

**Objective:** With a career vision approach the department of English aimed at equipping students of MJCET with necessary soft skills and interview skills that would result in widening employability scope in the long run.

**DAY 1**

**Date:** 11th July 2023

**Time:** 11:00 am to 1:00 pm

**Venue:** Seminar Hall, Block 4

**Introduction:**

On the 11th of July 2023, the workshop focused on "The Art of Effective Communication: Mastering Soft Skills and Interpersonal Skills for Success". It was conducted at Seminar Hall, Block 4. The workshop aimed to provide participants with practical strategies to effectively manage their time and set meaningful goals. The event featured Mr. Irfan Mohammad Khan, a renowned expert in the field of time management, as the guest speaker.

**Event Overview:**

The workshop commenced with a warm welcome to all the participants, followed by a brief introduction to the topic by Dr. Syeda Farha Shah. The students seeking personal development, showed great enthusiasm and eagerness to learn from the esteemed speaker.

**Keynote Speech:**

Mr. Irfan Mohammad Khan began his keynote speech on time management skills and goal setting promptly at 11:15 am. With his vast experience and in-depth knowledge, he engaged the students by presenting compelling insights and practical tips. His presentation covered the following key points:

1. **Understanding the Value of Time:** Mr. Khan emphasized the importance of recognizing time as a valuable resource and the need to manage it effectively to achieve personal and professional success.
2. **Setting SMART Goals:** He explained the concept of setting Specific, Measurable, Achievable, Relevant, and Time-bound (SMART) goals. Participants were guided on how to create goals that are clear, actionable, and aligned with their aspirations.



3. **Prioritization and Time Allocation:** The speaker provided strategies for prioritizing tasks, avoiding procrastination, and allocating time efficiently. He stressed the significance of identifying and focusing on high-priority activities that contribute to long-term objectives.

4. **Effective Planning Techniques:** Mr. Khan shared practical techniques for planning and organizing daily, weekly, and monthly schedules. He highlighted the benefits of using productivity tools and demonstrated how participants could adopt time management systems that work best for them.

### **Interactive Session and Q&A:**

After the keynote speech, an interactive session commenced, allowing participants to engage with Mr. Khan and seek clarifications on specific aspects of time management and goal setting. The Q&A session proved to be highly valuable, as students raised thought-provoking questions, shared personal experiences, and gained further insights from the expert's responses.

### **Conclusion:**

In the final segment of the workshop, the facilitator summarized the key takeaways from the session, emphasizing the importance of implementing the strategies discussed. Students were encouraged to reflect on their current practices, set actionable goals, and develop personalized time management plans.

### **Feedback:**

The workshop received positive feedback from the participants, who expressed their satisfaction with the event's organization, content, and the expertise of Mr. Irfan Mohammad Khan. Students highlighted the practicality of the strategies shared and felt inspired to apply them in their personal and professional lives. Overall, the workshop proved to be an insightful and enriching experience for all participants.

### **Conclusion:**

The day-1 of the workshop was a resounding success. Students gained valuable insights, practical strategies, and inspiration to improve their time management skills and set meaningful goals. The event served as a catalyst for personal and professional growth, empowering participants to take charge of their time and work towards achieving their aspirations.

## **DAY 2**

**12<sup>th</sup> July, 2023**

On the second day the speakers were Ms. Bhavana Rao Director , LIVE Forever Academy and Mr D.V.Naveen Solomon ,ICF ACC Certified coach

The students from B.E. 3<sup>rd</sup> year comprised the audience.

Nearly 120 students of third year from all the branches participated in the two-day workshop. The stage was shared by Ms Bhavana Rao and Mr D.V.Naveen Solomon, who explained the job domains, hiring process, packages that companies offer, and importance of job interview.

Ms Bhavana delivered an informative session for all the students as they got to learn the job interview skills like teamwork, professionalism, research, problem-solving, and many others. The Job Interview Skills session was fruitful for the students and will definitely prove to be productive in the future.

Mr D.V.Naveen Solomon gave an understanding on how the interview happens using one of the techniques- role-play. insights of art and techniques of handling the personal interviews. He advised the students to evaluate themselves through SWOT Analysis every week and bring newspaper reading to practice. At the end, there was a Mock Interview session that gave students an idea of the sample questions that can be expected during a job interview.



Dr. Gitashri Mukherjee, coordinator, English Section thanked the guest speakers and the students for their participation.

Overall, it happened to be an interactive session with immense learning, thereby enhancing our knowledge and skills in regard to placement purposes. Feedback was taken from the students. The workshop was aimed to enhance and improve students' skills regarding job interviews and preparing resume.







## Best Practice 1

### Pedagogical Approaches using IT/ICT tools

#### C. BLENDED LEARNING

##### Title of the Practice:

**Blended Learning through Google Classroom for Accessing Study Materials, Assignments, and Quizzes**

##### Objectives of the Practice:

1. **Enhance Accessibility:** Provide students with easy access to study materials, books, assignments, and quizzes through Google Classroom, ensuring they can learn anytime and anywhere.
2. **Promote Flexibility in Learning:** Allow students to learn at their own pace, reinforcing concepts through self-directed study, quizzes, and assignments that are available on mobile devices.
3. **Encourage Continuous Assessment:** Use quizzes and assignments posted on Google Classroom to facilitate ongoing student evaluation, providing timely feedback to guide learning.
4. **Foster Engagement and Collaboration:** Enable students to interact with peers and instructors through discussion forums, group assignments, and feedback on submitted work.

##### The Context:

The need for flexible, student-centered learning approaches has become increasingly important, especially in the context of modern education where access to technology is widespread. Recognizing this, the implementation of a **blended learning model** through Google Classroom was adopted to offer students the advantage of both traditional face-to-face instruction and the flexibility of online learning. This practice is designed to meet the learning needs of undergraduate students, particularly those who may struggle to attend regular in-person classes due to time constraints, distance, or other commitments.

##### The Practice:

- **Google Classroom as the Platform:** The practice utilizes Google Classroom as the primary platform for sharing educational resources, assignments, and quizzes. Google Classroom allows students to access course content, participate in discussions, submit assignments, and receive feedback, all in one central location.
- **Accessing Materials and Resources:** Instructors upload a wide variety of materials, including textbooks, lecture notes, reference books, videos, and other resources. These materials are accessible on mobile phones, ensuring that students can learn from any location and at any time.
- **Assignments and Quizzes:** Regular assignments and quizzes are posted on Google Classroom. These assessments provide opportunities for students to apply what they've learned, test their knowledge, and receive instant feedback. The quizzes are automatically graded, allowing students to track their progress.



- **Mobile Accessibility:** Google Classroom is fully optimized for mobile phones, meaning students can access the platform on-the-go. This flexibility allows students to learn during commutes, study breaks, or any other time, thus enhancing learning outside the traditional classroom setting.
- **Communication and Collaboration:** Through Google Classroom, students can interact with their peers and instructors via the “Stream” feature, where they can ask questions, provide answers, and discuss topics. Additionally, group assignments foster collaboration and peer-to-peer learning.

### **Evidence of Success:**

1. **Increased Student Engagement:** Monitoring usage and engagement analytics from Google Classroom shows a significant increase in student participation. Students are accessing course materials more regularly, completing assignments on time, and engaging with the learning content more actively.
2. **Improved Learning Outcomes:** The use of quizzes and regular assessments has led to better retention of knowledge. Many students have reported higher performance in both online and offline assessments, attributing their success to the flexibility and additional resources available through Google Classroom.
3. **Feedback from Students:** A survey conducted at the end of the semester showed that a large percentage of students felt more confident about the subjects due to the easy access to materials and the ability to learn at their own pace. They also appreciated the convenience of accessing learning resources through their mobile phones.
4. **Efficient Tracking and Feedback:** Teachers have reported that using Google Classroom has made it easier to track student progress and provide timely feedback. The automated grading system for quizzes reduces the time spent on manual grading and helps in identifying students who may need additional support.

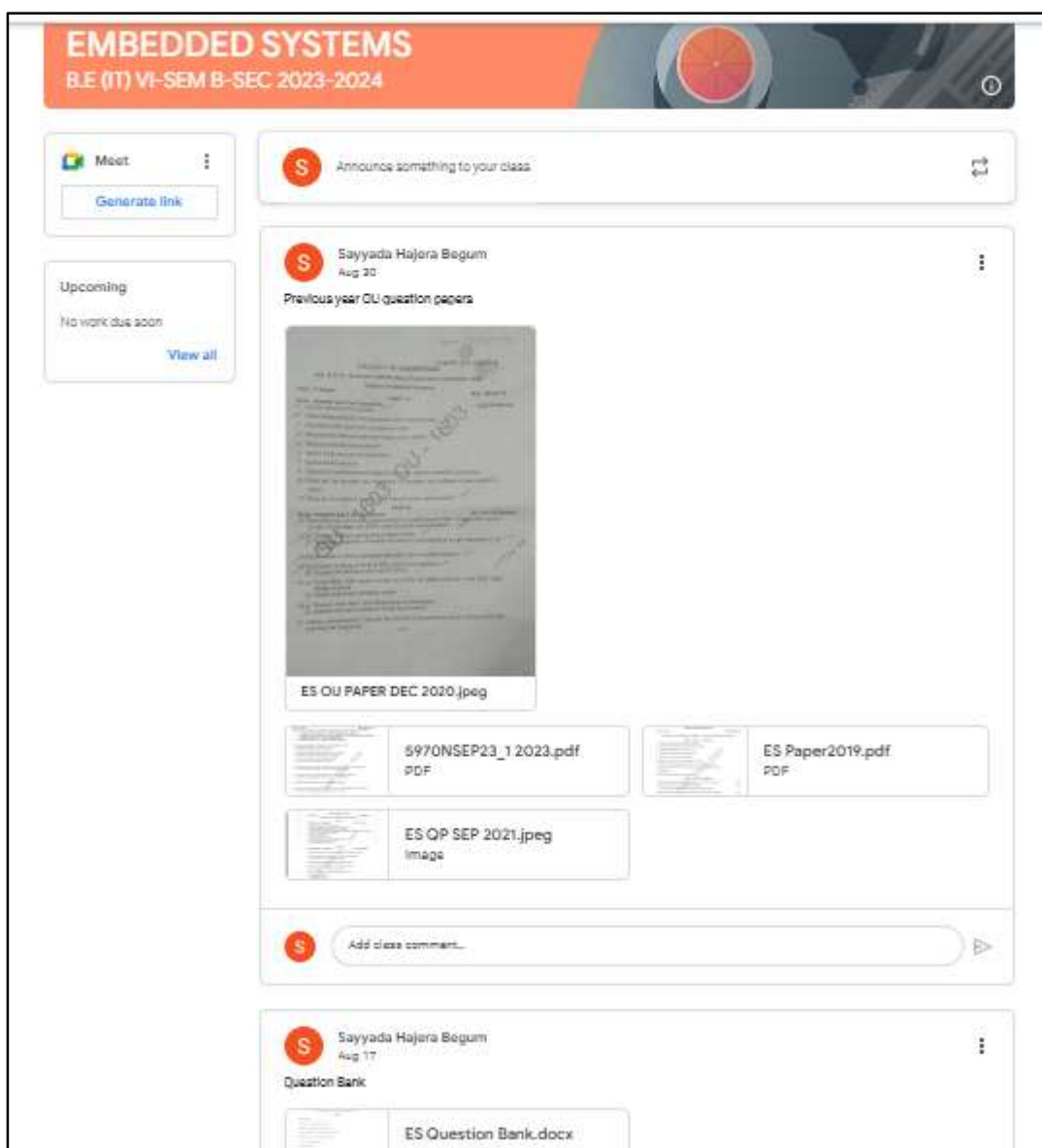
### **Problems Encountered:**

1. **Technical Issues:** Some students faced difficulties with internet connectivity or compatibility issues on certain mobile devices, which made it challenging for them to access course materials or submit assignments on time.
2. **Digital Literacy Gaps:** Not all students were equally familiar with using Google Classroom and other digital tools, which caused some confusion at the beginning. There were instances where students struggled to navigate the platform or submit their assignments correctly.
3. **Limited Interaction in Large Classes:** While Google Classroom enables communication, in larger classes, it became difficult to manage discussions effectively. Not all students participated equally in discussion threads or peer interactions.
4. **Dependence on Internet Access:** While Google Classroom is designed for mobile use, students who did not have reliable internet access at all times faced challenges in keeping up with the course content and assessments.

### **Resources Required:**

1. **Google Classroom Platform:** A fully functional Google Classroom setup with appropriate access for both instructors and students. Google Classroom is free, but requires training and continuous management to ensure optimal use.

2. **Smartphones and Internet Access:** Since the platform is optimized for mobile devices, students must have access to smartphones and reliable internet connections to make the most of the learning resources available.
3. **Training for Instructors and Students:** Both instructors and students need basic training in using Google Classroom effectively. This includes understanding how to upload materials, submit assignments, take quizzes, and engage in discussions.
4. **Ongoing Technical Support:** A dedicated support team or resources for troubleshooting technical issues and providing assistance to students and instructors in case of problems related to the platform, internet access, or mobile devices.
5. **Content Development Tools:** Instructors need access to digital content creation tools (e.g., video editing software, online survey tools) to create engaging and interactive learning materials. These tools help make the learning experience more interactive and diverse.



Classroom > EMBEDDED SYSTEMS  
B.E (IT) VI-SEM B-SEC 2023-2024

Stream **Classwork** People Grades

[+ Create](#)

All topics

## Quizzes

- Quiz-I Due Aug 17, 9:00 AM
- Quiz-II Due Aug 17, 9:00 AM
- QUIZ-III Due Aug 17, 9:00 AM
- QUIZ-IV Due Aug 17, 9:00 AM

Classroom > EMBEDDED SYSTEMS  
B.E (IT) VI-SEM B-SEC 2023-2024

Stream Classwork People **Grades**

	Aug 17 <a href="#">QUIZ-IV</a>	Aug 17 <a href="#">QUIZ-III</a>	Aug 17 <a href="#">Quiz-I</a>	Aug 17 <a href="#">QUIZ-V</a>	Aug 17 <a href="#">Quiz-II</a>
Sort by last name	out of 10	out of 10	out of 10	out of 9	out of 10
<b>Class average</b>	7.03	6.97	6.42	5.93	7.17
<b>S</b> SYEDA ASRA FATIMA 1604...	0 Missing	0 Missing	0 Missing	0 Missing	0 Missing
<b>I</b> ISRA SAYEEDA 1604217370...	9	9	7	7	9
<b>M</b> MARIAM SHAKEEL ALI 160...	9	9	7	7	9
<b>Y</b> YASMEEN MASARATH 160...	9	9	7	7	9
<b>T</b> TUBA FATIMA 1604217370...	8	8	10	9	9
<b>R</b> REVA REYAZ 160421737066	8	9	10	9	9
<b>S</b> SUBIYA SIDDIQUA 1604217...	9	9	9	9	9

## Best Practice 1

### Pedagogical Approaches using IT/ICT tools

#### D. EXPERIENTIAL LEARNING

As the students of the fourth year Mechanical have earlier studied Design and Manufacturing subjects, to enhance their skills in their subject, students approached to the concerned faculty and requested to provide some addition source which may help to understand the concept easily.

In this connection faculty has provided a Project topic which will be a core and a learning experience for the students.

**Subject:** Kinematics of Machines, Dynamics of Machines, Design of Machine Elements, Machine Design and Manufacturing Processes.

Students:

Name	Roll No:
1. Mohammad Ilyas	1604-20-736-301
2. Aslam Khan	1604-20-736-303
3. Mohammed Zainul Abideen	1604-20-736-304

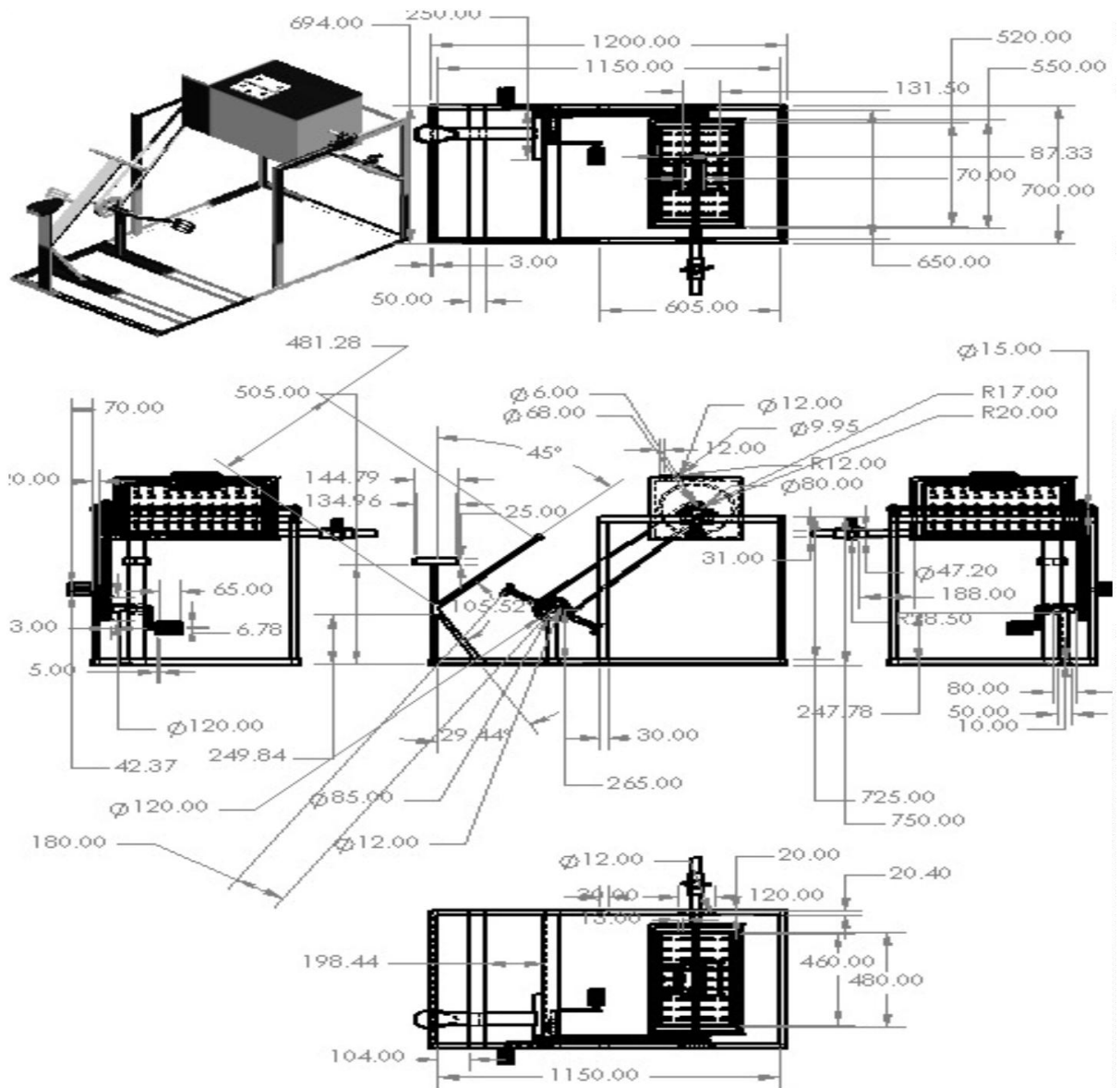
**Title of the paper: DESIGN AND FABRICATION OF PEDAL AND POWERED WASHING MACHINE**

#### **ABSTRACT:**

In recent decades, hand washing clothes has been time-consuming and physically demanding, prompting the development of electric washing machines. However, due to high costs, many people, especially in rural India where 60% of the population lives in poverty, cannot afford them. To address this, a pedal-operated washing machine was designed to provide an affordable, electricity-free alternative for washing clothes. The machine uses readily available, low-cost components like outer and inner drums, a shaft, frame, bearings, pedal arrangement, and a chain and sprocket setup. The project aimed to evaluate its performance by fabricating a prototype with

both washing and rinsing mechanisms. The results from the experimental data highlight its effectiveness in rural areas with unreliable electricity, offering a cost-effective solution for cleaning clothes.

**DESIGN:**





## **FABRICATION:**



## **CONCLUSION:**

The results of the study, including performance analysis of various washing machine models and the factors contributing to deviations. Ten models were evaluated to predict washing machine behaviour, with design elements such as geometry also considered. Initially, a model with 0.25 kW power and 750 rpm was selected, and the effects of varying power and speed were analysed. It was found that the model with 333.33 rpm performed best in terms of power. The behaviour of the washing machine was tested on a fabricated prototype corresponding to the optimal model, and challenges like pulley balancing were addressed with effective solutions. The experimental data provides valuable insights into the washing machine's performance, particularly for rural areas without electricity. Additionally, the study explored the cleaning time for clothes of different weights.

**Best Practice-02**  
**Students Projects catering**  
**societal needs**

## Best Practice 2

### STUDENTS PROJECTS CATERING SOCIETAL NEEDS

As the students of the fourth year Mechanical have earlier studied Thermal and refrigeration subjects, to enhance their skills in their subject, students approached to the concerned faculty and requested to provide some addition source which may help to understand the concept easily.

In this connection faculty has provided a Project topic which will be a core and a learning experience for the students.

**Subject:** Thermodynamics, Applied Thermodynamics, Heat transfer and Refrigeration & Air Conditioning.

Students:

<b>Name</b>	<b>Roll No:</b>
<b>1. Mohammad Furqhan Ahmed</b>	<b>1604-20-736-021</b>
<b>2. Mohd Aleemuddin</b>	<b>1604-20-736-025</b>
<b>3. Syed Umair Ahmed</b>	<b>1604-20-736-059</b>

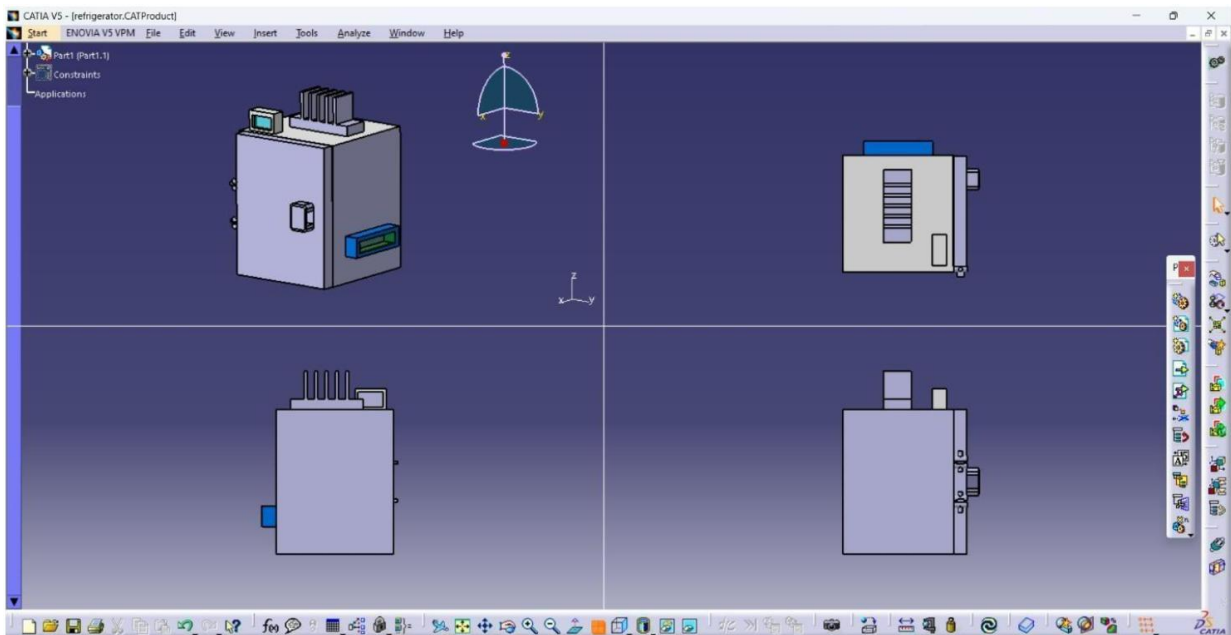
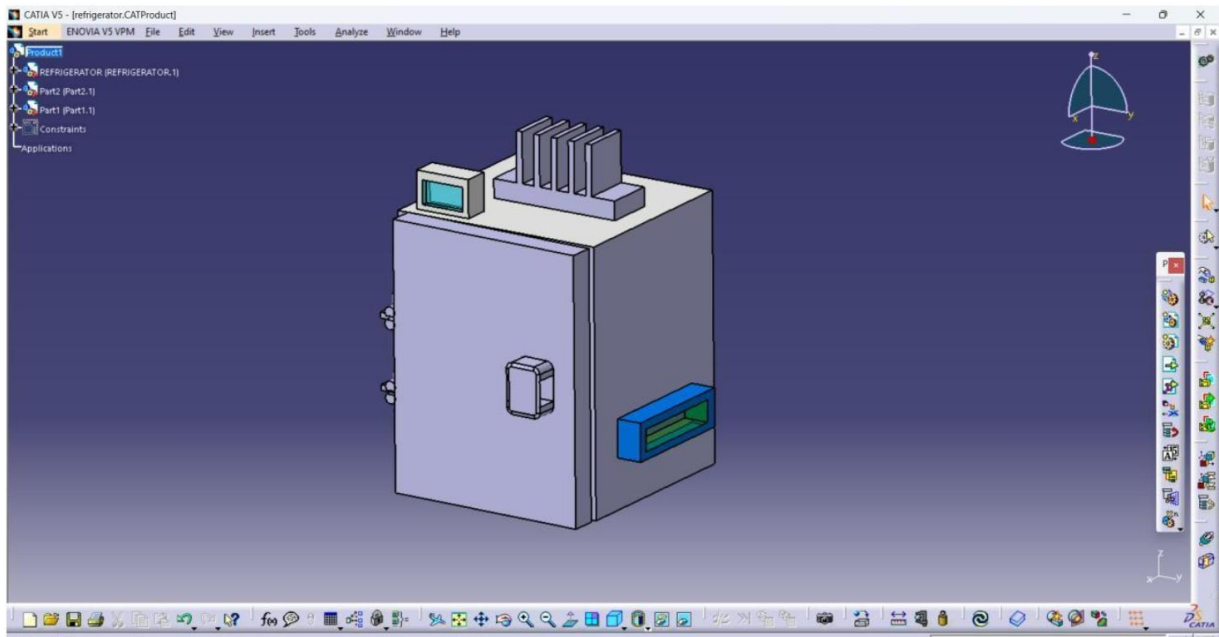
**Title of the paper: DESIGN AND FABRICATION OF PORTABLE SOLAR REFRIGERATOR.**

#### **ABSTRACT:**

In response to the growing global warming issue, particularly the depletion of the ozone layer caused by CFCs from appliances like refrigerators and ACs, this project focused on designing an eco-friendly and affordable solution: a mini solar-powered refrigerator. The system uses a 12V, 10W solar panel to charge a 12V, 1.2Ah lead-acid battery, which powers a Peltier thermoelectric device to generate cooling. The fridge operates in cool mode, with a digital display to show the voltage. Designed using CATIA 3D modeling software, the refrigerator achieved an initial cooling temperature of 36.3°C, reaching 18.6°C in 20 minutes, with an average cooling rate of 0.885°C per minute. The battery powered the fridge for 3.5 hours when fully charged, with

insulation maintaining the temperature thereafter. The system's average COP was 0.5, which, though lower than traditional systems, is suitable for small-scale, portable solar-powered refrigeration. This project successfully created an eco-friendly, efficient, and affordable refrigerator.

## **DESIGN:**



## **CALCULATION:**

The refrigeration chamber of (TER:  $14.5 \times 14.5 \times 18.5\text{cm}^3$ )

Given specification of Peltier module (TEC-12706) from datasheet is:

Seebeck coefficient (S) = 0.01229 V/k

Module thermal conductance (K) = 0.1815 W/k

Module resistance (R) =  $4\Omega$

Current (I) = 5A

Number of thermal couples = 127

Temperature at hot side T =  $68^\circ\text{C}$

We know, the general forms of heat absorption and heat rejection is presented as

- Heat absorption ( $Q_L$ ) and Heat rejection ( $Q_h$ ) Temperature at cold side  $T_c = 17^\circ\text{C}$

$$\Delta T = (T_h - T_c) = (68 - 17) = 51^\circ\text{C}$$

$$Q_L = [S I T_c - 1/2 I^2 R - k (T_h - T_c)] \quad (-) \text{ sign for heat rejection.}$$

$$Q_h = [S I T_h + 1/2 I^2 R - k (T_h - T_c)]$$

$$Q_L = [0.01229 \times 5 \times 17 - 1/2 \times 5^2 \times 4 - 0.1815 (68 - 17)] = 58.21185 \text{ J}$$

$$Q_h = [0.01229 \times 5 \times 17 + 1/2 \times 5^2 \times 4 - 0.1815 (68 - 17)] = 41.788 \text{ J}$$

$$Q_h - Q_c$$

$$= S I (T_h - T_c) + I^2 R$$

$$= 0.01229 \times 5 (68 - 17) + 5^2 \times 4 = 103.13395 \text{ J}$$

The Coefficient of Performance (COP) is obtained by the following empirical equation.

$$\text{COP} = Q_c / Q_h - Q_c$$

$$= 58.21185 / 103.13395 = 0.564432$$

A COP of 0.5 is within the typical range for Peltier modules. It indicates that the system is functioning efficiently relative to the average performance of similar thermoelectric cooling setups. The acceptability of the COP also depends on the specific requirements and constraints of your application. For a portable solar refrigerator, a COP of 0.5 is quite acceptable, given the balance between portability, power consumption, and cooling performance. The COP for Peltier modules generally falls between 0.3 and 1.0, depending on various factors such as the temperature difference between the hot and cold sides, the efficiency of heat dissipation, and the overall design of the cooling system.



## **FABRICATION:**



## **CONCLUSION:**

The compressor-less solar refrigerator demonstrated impressive efficiency in cooling. It maintained an interior temperature of 18°C for 30 to 45 minutes with a constant power supply. The operation was silent, benefiting from the Peltier thermoelectric module, which eliminated noise. Initially, the refrigerator reached 36.3°C and cooled to 18.6°C within 20 minutes, with an average cooling rate of 0.885°C per minute. When empty, the cooling rate ranged from 0.8°C to 0.714°C per minute, and with a 1-liter bottle inside, it ranged from 0.6°C to 0.4°C per minute. A fully charged 12V, 7.5 Ah battery powered the fridge for 3.5 hours, after which the insulation maintained the temperature, causing a gradual rise. A solar charge controller prevented overcharging or short circuits. The system's average COP was 0.5, which is lower than traditional refrigeration systems but acceptable for small-scale, portable solar-powered refrigeration using thermoelectric modules.

# APJ ABDUL KALAM INNOVATION PROJECT AWARDS 2023

Conduct by Department of ECE

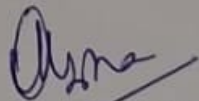
(Projects Presented on 7<sup>th</sup> July 2023)

The ECE Department and IEEE student Branch MJCET conducted “APJ Abdul Kalam Innovation Contest 2023” on 7 July 2023 and 27 students participated in the program. Dr. Abdul Khadeer, Professor in Electrical and Electronics Engineering (EEE) was the external judge and Dr. M Sabir Hussain, Associate Professor in ECED was the internal judge for the event.

As part of this program the innovation ideas are invited from the students and the BEST INNOVATIVE IDEA will be awarded a cash prize. This is in keeping with the vision of the ECE department, which facilitates research and innovation in the field of ECE. The department also encourages research based projects and THE THREE BEST final year projects which are innovative and have originally been awarded as the part of this “APJ Abdul Kalam Innovation DAY”, the participation certificates given to all participants in the contest. Prof Mahipal Singh Rawat, Principal MJCET and Dr. Ayesha Naaz, Professor and Head, ECED present the prizes to the winners. The details of winner list as Follows.

## Winners List

Prizes	Title of Project	Name of Students	Cash Prize
I	Kinematical Autonomous Four Legged Bot	Mohammed Mustaqeem Khan and Mohammed Asim Khan	Rs 3500.00
II	SCARA	Mohammed Sohail and Mohammed Anus	Rs 2500.00
III	Speech Emotion Recognition using Deep Learning	Syed Anas Naseer and Mohd Ayub	Rs 1500.00

  
Head, ECED.

# Muffakham Jah College of Engineering and Technology

Department of Electronics and Communication Engineering



## APJ ABDUL KALAM INNOVATION CONTEST -2023

This certificate is awarded to Mr /Ms \_\_\_\_\_

for the Project Title \_\_\_\_\_

for his/her participation in the "Dr.ABDUL KALAM INNOVATIVE PROJECT AWARD  
2023" held on 7th July 2023, in department of Electronics and Communication  
Engineering.

\_\_\_\_\_  
**Dr. Mahipal Singh Rawat**

Principal of MJCET

\_\_\_\_\_  
*Dr. Ayesha Naaz*

**Dr Ayesha Naaz**

Head of ECE Department



# APJ Abdul kalam innovation Contest - 2023

## List of Projects enrolled

Date	Title	Team	Guide
① 7/2/2023 15:35:37	Static Timing Analysis (STA) on a processor using 45nm technology	1. Mohammed Abdul Khadeer [1604-19-735-305] 2. Syed Waqaruddin [1604-19-735-010] 3. G Priyanka [1604-19-735-301]	Mohammed Abdul Raheem
② 7/2/2023 20:19:55	Speech Emotion Recognition	Syed Anas Naseer 1604-19-735-083 Mohd Ayub 1604-19-735-090	Dr. Sabir
③ 7/3/2023 12:17:45	RIS BASED UAV ASSISTED THz COMMUNICATION SYSTEM	Ahmed Farzeen Uddin- 1604-19-735-013 Md Arbaaz Ahmed- 1604-19-735-035 Md Muqeteuddin Soheb- 1604-19-735-036	Mrs Nazeerunnisa
④ 7/3/2023 15:26:59	SCARA	Mohammed Sohail : 160419735017, Abdul Rahman:160419735041 <i>Mohammed Anas (160419735017)</i>	hakeem Aijaz
⑤ 7/3/2023 19:50:26	Smart Farming using IOT & AIML	1) Rasheed Khan 1604-19-735-104 2) Irfan baig 1604-19-735-087 3) mohd wasi uddin ansari 1604-19-735-102	Mr.k.Sasidhar
⑥ 7/4/2023 10:38:31	IoT based health monitoring system for comatose	Saba fathima (1604-19-735-063) Yasmeen tanzil (1604-19-735-066)	Dr.M.A Raheem
⑦ 7/4/2023 20:07:22	Solar wireless electric vehicle charging system	1.Mohd waseem (1604-19-75-042). 2.Syed rizwan Ali siraj (1604-19-735-048). 3.syed amair (1604-19-735-049)	Maliha Naaz
⑧ 7/4/2023 23:22:47	Mobile phone operated agricultural vehicle(AgriBot)	Fasiha farheen(1604-19-735-306),Arsheen begum(1604-19-735-304),Mohammed yousuf (1604-19-735-029)	Miss maliha naaz

⑨ 1 Kinemtical -Autonomous  
Four legged Bot

Mohd Mustaeen Khan (1604-19-735-076),  
Mohammed Asim Khan (1604-19-735-077)

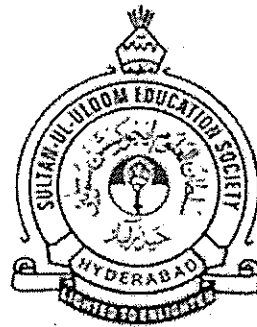
Mrs. Suchanitha

# **Best Practice-03**

## **Faculty Incentive Scheme**



REVISED



V 3.0

SULTAN-UL-ULOOM EDUCATION SOCIETY

**SULTAN-UL-ULOOM EDUCATION SOCIETY**

**FACULTY INCENTIVE SCHEME  
IMPLEMENTATION GUIDELINES**

**V 3.0**

**October 30, 2024**

## CONTENTS

1	Contents	1
2	Preface	2
3	Streams of implementation	3
4	The process of implementation of Stream – 1 incentives	4
5	The process of implementation of Stream – 2 incentives	5
6	Guidelines	6
7	Annexure I: Listing of incentives under Stream – 1	15
8	Annexure II: Listing of incentives under Stream – 2	16
9	Annexure III: Format for notifying the stream – 1 incentives availed by HoI	19
10	Annexure –IV Occasion for presentation of Stream – 2 Awards	21
11	Annexure V: Certificate sample for Stream – 2 Awards	23

## PREFACE

The Board of Governors of Sultan-UI-Uloom Education Society approved the Faculty Incentive Scheme in its meeting held on 28-08-2021, which was subsequently notified to all the constituent institutions through the Circular dated 28-10-2021. A committee has been constituted vide Order No. 487/SUES/2021/556 dated 18-11-2021 for the appraisal and recommendation of applications received from the faculty members of the constituent institutions of SUES.

Sultan-UI-Uloom Education Society has always been supportive of programs for faculty development. It has been liberal in sponsoring the faculty members for qualification improvement, participation in conferences, seminars, FDPs, online courses, paper publications, R & D projects etc., paving the way for continuous development of their professional profile. The Faculty Incentive Scheme is a major step in this direction, which goes beyond sponsorship and introduces the concept of awards for excellence in academic performance by the faculty members.

Implementation Guidelines v1.0 was published in December 2021 followed by Implementation Guidelines v2.0 in February, 2022. The latest Implementation Guidelines v3.0 have been published after incorporating amendments to the criteria of publications, presentations in conferences and patents. Prizes won for presentations in conferences and seminars has been added as a new criteria. In view of the amendments to publication of books, the format for book review has been withdrawn.

This document has been developed for the Heads of the Institutions of the constituent colleges of Sultan-UI-Uloom Education Society to help them in implementation of the Faculty Incentive Scheme. It is hoped that the faculty members of all the constituent institutions will avail the incentives to the fullest extent and strengthen the narrative of faculty development at SUES.

October 30, 2024

  
Zafar Javeed  
Hon. Secretary  
SUES

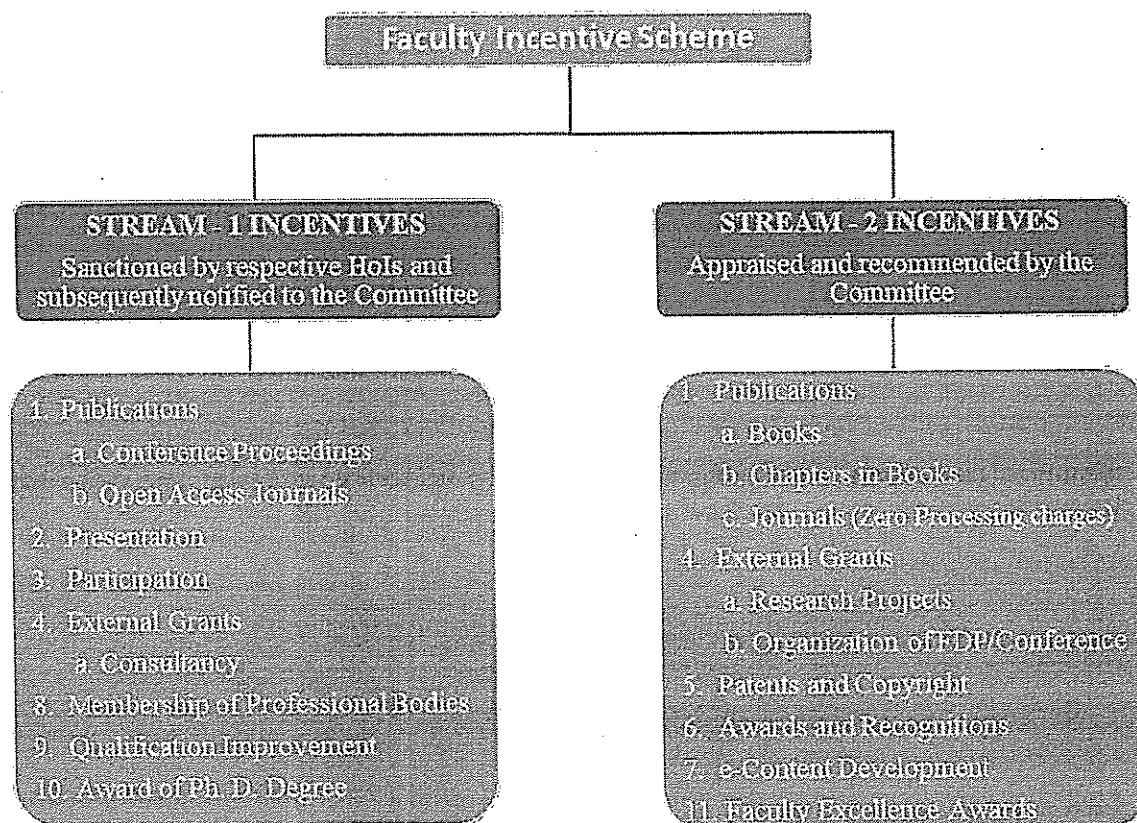
## SULTAN UL ULOOM EDUCATION SOCIETY IMPLEMENTATION GUIDELINES FACULTY INCENTIVE SCHEME

The following shall be the broad guidelines for implementation of the Faculty Incentive Scheme approved by the BoG of SUES, in its meeting held on 28-08-2021 and subsequently notified by the Hon. Secretary through the Circular dated 28-10-2021.

The faculty incentive scheme committee (hence forth referred to as ‘The Committee’) constituted by the Hon. Secretary vide Order No. 487/SUES/2021/556 dated 18-11-2021 shall be responsible to appraise and recommend all the applications received from faculty members of constituent institutions of SUES.

For administrative convenience and timely disbursal of non-award incentives, the scheme shall be implemented by dividing it into two streams:

- i. Stream - 1: Incentives sanctioned by the HoI and later notified to the Committee.
- ii. Stream - 2: Incentives recommended by the Committee



## THE PROCESS

### Stream – 1

1. The Head of the Institution (HoI) is empowered to accord administrative sanction to the incentives listed under stream-1. The detailed list of incentives covered under stream-1 is attached as Annexure I of this document.
2. Financial sanction shall be sought from the Hon. Secretary by submitting the requisition form and checklist.
3. While sanctioning the incentives given in Annexure I, the HoI shall comply with the guidelines given in this document.
4. Application for availing the incentive under Stream I shall be processed by the HoI as and when received.
5. On the 15<sup>th</sup> of every month (or the next working day if 15<sup>th</sup> happens to be a public holiday), the HoI shall submit the list of faculty members who have availed incentives under Stream I to the office of the Hon. Secretary.
6. The proforma for submission of the list of faculty members who have availed incentives under Stream I is given in Annexure III.
7. The committee shall place the list on record during its meeting in the last week of every month.

## THE PROCESS

### Stream - 2

**Claim for an award shall be entertained up to six months form the date of eligibility**

1. The Faculty Incentive Scheme Committee formed by Hon. Sec., SUES shall appraise and recommend sanction of incentives listed under stream - 2. The detailed list of the incentives covered under stream - 2 is attached as Annexure II of this document.
2. The committee shall meet in the last week of every month and process the accumulated applications from various institutions.
3. The cut-off date for inclusion of application in any current month shall be 15<sup>th</sup> of that month or the next working day if 15<sup>th</sup> happens to be a public holiday.
4. While recommending sanctioning of the incentives given in Annexure II, the Committee shall comply with the guidelines given in this document.
5. The minutes of the recommendations shall be forwarded to respective HoIs after endorsement of the Hon. Secretary, SUES.
6. The HoIs shall notify the awardees after receiving the copy of the endorsed minutes of the recommendations.
7. Financial sanction for the awards shall be sought from the Hon. Secretary by submitting the requisition form and checklist
8. The occasion for presentation of the award shall be as given in Annexure IV.
9. All awardees shall be presented with a certificate along with the incentive amount. A sample certificate is presented in Annexure V.

**GUIDELINES**

SULTAN UL ULOOM EDUCATION SOCIETY FACULTY INCENTIVE SCHEME																		
S. No.	Incentive for	Category	Sub-category	Prerequisite	Incentive Amount (Rs.)	Remarks												
CC - SUES stands for Constituent College of Sultan UI Uloom Education Society																		
1	Publication	Books	Sole author	All forms of books published by any publication house	Award of Rs. 5000	Per book												
			i. The author shall submit a printed copy of the published book for perusal of the FIS committee members. The copy of the book shall be returned to the author after the FIS committee meeting. ii. The various forms (models) of publishing could be mainstream publishing in which hard copies are produced in large print runs, on-line publishing, self-publishing, print-to-order publishing, hybrid publishing, vanity publishing etc. iii. The publisher may be international, national, local or even footloose.															
			With co-author(s)	All forms of books published by any publication house	Award of Rs. 5000 to be shared equally among a maximum of 3 authors	Award split equally per author and awarded to authors from CC-SUES												
i. Eligibility criteria shall be same as prescribed for sole author ii. In case of more than three authors only the first three authors shall share the award. iii. The award amount shall be shared as follows:																		
<table border="1"> <thead> <tr> <th># of Authors</th> <th>Authors from CC-SUES</th> <th>Authors from outside</th> <th>Distribution of award amount</th> </tr> </thead> <tbody> <tr> <td>1 / 2 / 3</td> <td>1 / 2 / 3</td> <td>NIL</td> <td>The author(s) shall receive full, half or 1/3<sup>rd</sup> of the award amount respectively.</td> </tr> <tr> <td>2 / 3 / 3</td> <td>1 / 1 / 2</td> <td>1 / 2 / 1</td> <td>CC-SUES author(s) shall receive ½, 1/3<sup>rd</sup> or share equally 2/3<sup>rd</sup> of the award amount respectively.</td> </tr> </tbody> </table>							# of Authors	Authors from CC-SUES	Authors from outside	Distribution of award amount	1 / 2 / 3	1 / 2 / 3	NIL	The author(s) shall receive full, half or 1/3 <sup>rd</sup> of the award amount respectively.	2 / 3 / 3	1 / 1 / 2	1 / 2 / 1	CC-SUES author(s) shall receive ½, 1/3 <sup>rd</sup> or share equally 2/3 <sup>rd</sup> of the award amount respectively.
# of Authors	Authors from CC-SUES	Authors from outside	Distribution of award amount															
1 / 2 / 3	1 / 2 / 3	NIL	The author(s) shall receive full, half or 1/3 <sup>rd</sup> of the award amount respectively.															
2 / 3 / 3	1 / 1 / 2	1 / 2 / 1	CC-SUES author(s) shall receive ½, 1/3 <sup>rd</sup> or share equally 2/3 <sup>rd</sup> of the award amount respectively.															



S. No.	Incentive for	Category	Sub-category	Prerequisite	Incentive Amount (Rs.)	Remarks		
1	Publications	Books	Editor(s)	All forms of books / Conference Proceedings / Handbooks etc.	Award of 10000 shared equally among a maximum of 3 editors	Award split equally per editor and awarded to editors from CC-SUES		
			i. Eligibility criteria for edited books / conference proceedings and handbooks shall be same as prescribed for sole author of books. ii. The award amount shall be shared as follows: iii. In case of multiple editors, the award shall be divided equally among the editors and the share of only CC-SUES faculty members shall be released.					
			# of editors	Editors from CC-SUES	Editors from outside	Distribution of award amount		
			1 / 2 / 3	1 / 2 / 3	NIL	The editor(s) shall receive full, half or 1/3 <sup>rd</sup> of the award amount respectively.		
			2 / 3 / 3	1 / 1 / 2	1 / 2 / 1	CC-SUES editor(s) shall receive ½, 1/3 <sup>rd</sup> or share equally 2/3 <sup>rd</sup> of the award amount respectively.		
			Subsequent editions	Already published books	Award of Rs. 5000	Award split per book among authors of CC-SUES		
			The author(s) shall submit the proof of a new edition in the form of a letter from the publisher. Reprint does not constitute new edition.					
			First author of chapter in a book or edited volume	All forms of books / edited volumes published by any publication house	Award of 2500	per chapter		
			i. The author shall submit a printed copy of the published book, for perusal of the FIS committee members. The copy of the book shall be returned to the author after the FIS committee meeting. ii. In case of more than one author, when all authors are from CC-SUES, the first author shall be the recipient of the award iii. IN case of co-authors from non-CC-SUES institutions, the first CC-SUES author shall be the recipient of the award.					

1	Publications	Conference Proceedings	Conference Within India	First Author WoS / Scopus / ICI / UGC CARE / PubMed/ERIC/ DOAJ/IEEE Xplore / Taylor & Francis	Publication charges of 5000 per paper	Maximum of 3 papers per annum per author
			If the proceedings of a prestigious conference are not covered in the approved list, the HoI may request its inclusion with the approval of the Hon. Secretary			
			Conference Abroad	First Author WoS/ Scopus/ ICI/ UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor & Francis	Publication charges of 10000	Maximum of 3 papers per annum per author
		If the proceedings of a prestigious conference are not covered in the approved list, the HoI may request its inclusion with the approval of the Hon. Secretary				
		Journals (zero processing charges)	First Author of CC-SUES	Published in WoS/ Scopus/ ICI/ UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor & Francis / EBBSCO / JGATE	Award of 7500	No annual limit
			i. If a prestigious journal is not covered in the approved list, the HoI may request its inclusion with the approval of the Hon. Secretary. ii. In case of sole author, he / she shall be the first author. iii. In case of more than one author, when all authors are from CC-SUES, the first author shall be the recipient of the award. iv. In case of co-authors from non-CC-SUES institutions, the first CC-SUES author shall be the recipient of the award.			
		Open Access Journals	First Author	Journal listed in DOAJ, Springer Nature, Taylor and Francis online, Wiley, JSTOR, Elsevier etc.	Publication charges of 10000	Maximum of 3 papers per annum per author
i. If a prestigious journal is not covered in the approved list, the HoI may request its inclusion with the approval of the Hon. Secretary. ii. The publication cost or 'article processing charges (APC)', incurred in excess of the maximum limit stated above shall be borne by the author.						

2	Presentation	Conference	Oral Presentation or Poster Presentation in Conference within India	Organized by Institutions of National Importance notified by MoE-GoI, Deemed Universities / National Law Universities / reputed educational Institutions / private sector organizations	Participation cum publication charges of 2500	Maximum of 3 papers per annum per author
			The HoI shall sponsor faculty member to a conference only if his/her services in the institution can be spared.			
3	Participation	Conferences/ Seminars/ Workshops/ FDPs	Organized in India	Organized by Institutions of National Importance notified by MoE-GoI/Public Universities / National Law Universities / IPE / Governmental organisations / Deemed Universities	Participation charges of 5000	maximum per annum for 1 or multiple
			The HoI shall sponsor faculty member to a conference / Seminar / Workshop / FDP only if his/her services in the institution can be spared			
4	External Grants	Research Projects	Sponsored	GoI / State Government / Universities / Industries / Corporate Bodies / International Organizations	Award of 2% of the received grant for projects over 1 lakh with minimum of 5000 and maximum of 50000	To be Shared with co-investigator(s) of CC- SUES
		The criterion is self-explanatory				
		Organization of FDP/ Conference	National	GoI / State Government / Universities / Industries / Corporate Bodies/ International Organisations	Award of 2500	To be awarded to convener / coordinator
The criterion is self-explanatory						

4	External Grants	Organization of FDP / Conference	International	Recognized International Professional Bodies	Award of 5000	To be awarded to convener / coordinator
			The criterion is self-explanatory			
		Consultancy	Intellectual	Analysis, Design & Estimation / proof checking etc.	Institution: Faculty 20:80	To be shared with co-workers
			The distribution shall be from the balance amount after paying expenses, GST and other taxes, if any.			
5	Patents	Indian (Applicant CC - SUES)	Published	Full Processing fees paid by SUES	Award of 2000	Shared equally by inventors belonging to CC - SUES, limited to a maximum of three inventors per patent
				The criterion is self-explanatory		
			Registered	Design	Award of 10000	
				The criterion is self-explanatory		
Granted	Utility		Award of 25000			
	The criterion is self-explanatory					
International (Applicant CC - SUES)	Published	Full Processing fees paid by SUES	Award of 2000	Shared equally by inventors belonging to CC - SUES, limited to a maximum of three inventors per patent		
		The criterion is self-explanatory				
	Registered	Design	Award of 5000			
		The criterion is self-explanatory				
	Granted	Innovation	Award of 10000			
		The criterion is self-explanatory				
Granted	Utility	Award of 20000				
	The criterion is self-explanatory					

		Applied by Individual (Indian/International)	Granted	Design/ Innovation/ Utility Processing fees borne by applicant	Award of 5000	To be shared equally among SUES Inventors		
					i. The award amount shall be divided equally amongst all the listed inventors. ii. Non-CC-SUES inventors are not eligible to receive the award share.			
		Technology Transfer	Patent in the name of Institution	Product / Design	Award of 15% of the pay-off / licencing fees / royalty	To be shared by the technology transfer team	i. The award shall be given only when the minimum pay-off / licencing fee / royalty received is Rs.100000/- ii. The minimum award amount shall be Rs.25000/-	
	Copyright	Applied by CC-SUES	Ownership	Full Processing fees paid by SUES	Award of 5000	To be shared equally by all	The criterion is self-explanatory	
		Applied by Individual	Ownership	Processing fees borne by applicant	Award of 2500	To be shared equally by all	i. The award amount shall be divided equally amongst all the listed inventors. ii. Non-CC-SUES inventors are not eligible to receive the award share.	
6	Awards and Recognitions	Academic / Research / Societal Contribution		GoI, State Government, Institutions of National Importance notified by MoE-GoI, Public Universities, Nationally or Internationally recognized profession bodies like but not limited to IE(I), IEEE, ACM, CSI etc.	Award of 5000	Per awardee	The criterion is self-explanatory	

6	Awards and Recognitions	Best Paper Award	Published in Journal	First Author WoS/ Scopus/ ICI/ UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor & Francis	Award of 5000	For first author
				If a prestigious journal is not covered in the approved list, the HoI may request its inclusion with the approval of the Hon. Secretary.		
		Best Paper Award	Published in Conference Proceedings	First Author WoS/ Scopus/ ICI/ UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor & Francis	Award of 2000	For first author
				If the proceedings of a prestigious conference are not covered in the approved list, the HoI may request its inclusion with the approval of the Hon. Secretary		
		Merit Award in NPTEL FDP Course	Elite + Gold + Topper 1% / 2% / 5%	>= 90%	Award of 2000	
			Elite + Silver + Topper 1% / 2% / 5%	75-89%	Award of 1500	
			Topper 1% / 2% / 5%		Award of 1000	
Merit Award in ATAL FDP / ARPIT Refresher Course		>= 80% Marks	Award of 1000			
	The faculty member shall submit the relevant NPTEL certificate					
7	Prizes	For paper presentation	Oral / Poster Presentation in Conference / Seminar	Organized by Institutions of National Importance notified by MoE-GoI, Deemed Universities / National Law Universities / reputed educational Institutions / private sector organizations	Award pf Rs. 1000 for I prize and Rs. 500 for II prize	To be awarded to the certificate holder
The criteria is self-explanatory						

8	e-Content Development	Compilation of a Complete Course		NPTEL/ SWAYAM/ /NMEICT/ e- PG-Pathshala/ CEC (Under Graduate)/ Recognised MOOCs platform/ Institutional LMS	10000	To be shared among all content developers of CC-SUES	
		Compilation of a Module in a Course		NPTEL/ SWAYAM/ /NMEICT/ e- PG-Pathshala/ CEC (Under Graduate)/ Recognised MOOCs platform/ Institutional LMS	2000	To be shared among all content developers of CC-SUES	
		Translation of a Course to Urdu		NPTEL/ SWAYAM/ /NMEICT/ e- PG-Pathshala/ CEC (Under Graduate)/ Recognised MOOCs platform/ Institutional LMS	7500	To be shared among all translators of CC - SUES	



				NPTEL/ SWAYAM/ /NMEICT/ e- PG-Pathshala/ CEC (Under Graduate)/ Recognised MOOCs platform/ Institutional LMS	5000	To be shared among all translators of CC - SUES
		Translation of a Course to any Indian Language		i. The faculty member shall submit the appointment / assignment letter from relevant authority  ii. The faculty member shall submit the completion certificate from relevant authority		
				IEEE, SAE, ACM, ICI, AIMA, AIMS, HMA, HRD Network, SMS, SHRM, IFA etc.	Full Annual Subscription	To be given to required number of faculty as per chapter norms
		To Sustain Professional Chapter		The criterion is self-explanatory		
9	Membership of Professional Bodies			Applicant should have completed two years of service	Membership fee 5000	Maximum limit & restricted to any one professional body
		Individual	Life Membership paid once in the career	The criterion is self-explanatory		
				On award of first PhD degree by a university recognized by UGC	Incentive to be sanctioned by the Service Matters Committee of SUES	
10	Qualification Improvement	PhD		i. Faculty members who acquire Ph. D. degree while being in service of SUES are eligible for this incentive.  ii. The HoI shall forward the recommendation for grant of incentive to the Hon. Secretary, SUES.  iii. Faculty member has to submit a copy of the Provisional certificate.		

		<b>Certificate Course</b>		<b>NPTEL/ Other Recognised Courses</b>	<b>Examination Fee</b>	
				The faculty member should submit the proof of payment of examination fee to claim reimbursement from the HoI.		
11	<b>Research Supervision</b>	<b>Award of Ph. D. degree</b>		<b>Research scholar may be from Research Centres of CC - SUES or any other University</b>	<b>Award of 5000</b>	
			The Research Supervisor should submit the press note of the university showing the name of the candidate, name of the supervisor, title of thesis and date of award of Ph. D. degree.			
12	<b>Faculty Excellence Awards</b>	<b>Overall Performance</b>		<b>Criteria as per Excellence Award Committee Recommendation*</b>	<b>Award of 10000</b>	
	*Award to be based on the score of Academic Parameters from SUES Annual Performance Appraisal and total of the rewards received in S. No. 1 to 9 of Faculty Incentive Scheme. A committee shall be constituted to recommend suitable implementation policy for the excellence award.					
	This incentive shall be implemented after formulation of the guidelines for 'Faculty Excellence Awards'					

## ANNEXURE – I

SULTAN UL ULOOM EDUCATION SOCIETY FACULTY INCENTIVE SCHEME STREAM - I						
S. No.	Incentive for	Category	subcategory	Prerequisite	Incentive Amount (Rs)	Remarks
<b>CC - SUES stands for Constituent College of Sultan UI Uloom Education Society</b>						
1	Publication	Conference Proceedings	Conference Within India	First Author WoS / Scopus / ICI / UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor Francis	Publication charges of 5000 per paper	Maximum of 3 papers per annum per author
			Conference Abroad	First Author WoS / Scopus / ICI / UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor Francis	Publication charges of 10000	Maximum of 3 papers per annum per author
		Open Access Journals	First Author WoS / Scopus / ICI / UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor Francis	Publication charges of 10000	Maximum of 3 papers per annum per author	
2	Presentation	Conference	Conference within India	Organized by Institutions of National Importance notified by MoE-Gol, Deemed Universities / National Law Universities / reputed educational Institutions / private sector organizations	Participation cum publication charges of 2500	Maximum of 3 papers per annum per author
3	Participation	Conferences/ Seminars/ Workshops/ FDPs	Organized in India	Organized by Institutions of National Importance notified by MoE-Gol/Public Universities / National Law Universities / IPE / Governmental organisations / Deemed Universities	Participation charges of 5000	maximum per annum for 1 or multiple
4	External Grants	Consultancy	Intellectual	Analysis, Design & Estimation / proof checking etc.	Institution : Faculty 20:80	To be shared with co-workers
			Utilizing Institutional Infrastructure	Research based or experiment / testing based projects	Institution: Faculty 40:60	To be shared with co-workers
8	Membership of Professional Bodies	To Sustain Professional Chapter		IEEE, SAE, ACM, ICI, AIMA, AIMS, HMA, HRD Network, SMS, SHRM, IFA etc.	Full Annual Subscription	To be given to required number of faculty as per chapter norms
		Individual	Life Membership paid once in the career	Applicant should have completed two years of service	Membership fee 5000	Maximum limit & restricted to any one professional body
9	Qualification Improvement	PhD		On award of first PhD degree by a university recognized by UGC	Incentive to be sanctioned by the Service Matters Committee of SUES	
		Certificate Course		NPTEL/ Other Recognised Courses	Examination Fee	
10	Research Supervision	Award of Ph. D. degree		Research scholar may be from Research Centers of CC - SUES or any other University	Award of 5000	

## ANNEXURE – II

SULTAN UL ULOOM EDUCATION SOCIETY FACULTY INCENTIVE SCHEME STREAM II						
S. No.	Incentive for	Category	subcategory	Prerequisite	Incentive Amount (Rs)	Remarks
<b>CC - SUES stands for Constituent College of Sultan UI Uloom Education Society</b>						
1	Publication	Books	Sole author	All forms of books published by any publication house	Award of Rs. 5000	Per book
			With co-author(s)	All forms of books published by any publication house	Award of Rs. 5000 to be shared equally among a maximum of 3 authors	Award split equally per author and awarded to authors from CC-SUES
			Editor(s)	All forms of books / Conference Proceedings / Handbooks etc.	Award of 10000 shared equally among a maximum of 3 editors	Award split equally per editor and awarded to editors from CC-SUES
			Subsequent editions	Already published books	Award of Rs. 5000	Award split per book among authors of CC-SUES
		Chapters in Books	First author of chapter in a book or edited volume	All forms of books / edited volumes published by any publication house	Award of 2500	per chapter
		Journals (zero processing charges)	First Author of CC-SUES	Published in WoS/ Scopus/ ICI/ UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor & Francis	Award of 7500	No annual limit
4	External Grants	Research Projects	Sponsored	Gol / State Government / Universities / Industries / Corporate Bodies / International Organisations	Award of 2% of the received grant for projects over 1 lakh with minimum of 5000 and maximum of 50000	To be Shared with co-investigator (s) of CC- SUES
		Organization of FDP/ Conference	National	Gol / State Government / Universities / Industries / Corporate Bodies/ International Organisations	Award of 2500	To be awarded to convener / coordinator
			International	Recognised International Professional Bodies	Award of 5000	To be awarded to convener / coordinator
5	Patents	Indian (Applicant CC - SUES)	Published	Full Processing fees paid by SUES	Award of 2000	Shared equally by inventors belonging to CC - SUES, limited to a maximum of three inventors per patent
			Registered	Design	Award of 10000	
			Granted	Utility	Award of 25000	

Faculty Incentive Scheme - Implementation Guidelines v3.0

		International (Applicant CC - SUES)	Published	Full Processing fees paid by SUES	Award of 2000	Shared equally by inventors belonging to CC - SUES, limited to a maximum of three inventors per patent	
			Registered	Design	Award of 5000		
			Granted	Innovation	Award of 10000		
			Granted	Utility	Award of 20000		
		Applied by Individual (Indian / International)	Granted	Design/ Innovation/ Utility Processing fees borne by applicant	Award of 5000	To be shared equally among SUES Inventors	
	Technology Transfer	Patent in the name of Institution	Design / Product	Award of 15% of the pay-off / licencing fees / royalty	To be shared by the technology transfer team		
	Copyright	Applied by SUES	Ownership	Full Processing fees paid by SUES	Award of 5000	To be shared equally by all	
		Applied by Individual	Ownership	Processing fees borne by applicant	Award of 2500	To be shared equally by all	
	6	Awards and Recognitions	Academic / Research / Societal Contribution		Gov, State Government, Institutions of National Importance notified by MoE-Gov, Public Universities, Nationally or Internationally recognized profession bodies like but not limited to IE(I), IEEE, ACM, CSI etc.	Award of 5000	Per-awardee
			Best Paper Award	Published in Journal	First Author WoS/ Scopus/ ICI/ UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor & Francis	Award of 5000	For first author
Best Paper Award			Published in Conference Proceedings	First Author WoS/ Scopus/ ICI/ UGC CARE / PubMed/ ERIC/ DOAJ/ IEEE Xplore / Taylor & Francis	Award of 2000	For first author	
Merit Award in NPTEL FDP Course			Elite + Gold + Topper 1% / 2% / 5%	Topper with $\geq 90\%$	Award of 2000		
			Elite + Silver + Topper 1% / 2% / 5%	75-89%	Award of 1500		
			Topper 1% / 2% / 5%		Award of 1000		
Merit Award in ATAL FDP / ARPIT Refresher Course				$\geq 80\%$ Marks	Award of 1000		

7	Prizes	For paper presentation	Oral / Poster Presentation in Conference / Seminar	Organized by Institutions of National Importance notified by MoE-Gol, Deemed Universities / National Law Universities / reputed educational Institutions / private sector organizations	Award of Rs. 1000 for I prize and Rs. 500 for II prize	To be awarded to the certificate holder
8	e-Content Development	Compilation of a Complete Course		NPTEL/ SWAYAM/ /NMEICT/ e-PG-Pathshala/ CEC (Under Graduate)/ Recognised MOOCs platform/ Institutional LMS	10000	To be shared among all content developers of CC-SUES
		Compilation of a Module in a Course		NPTEL/ SWAYAM/ /NMEICT/ e-PG-Pathshala/ CEC (Under Graduate)/ Recognised MOOCs platform/ Institutional LMS	2000	To be shared among all content developers of CC-SUES
		Translation of a Course to Urdu		NPTEL/ SWAYAM/ /NMEICT/ e-PG-Pathshala/ CEC (Under Graduate)/ Recognised MOOCs platform/ Institutional LMS	7500	To be shared among all translators of CC - SUES
		Translation of a Course to any Indian Language		NPTEL/ SWAYAM/ /NMEICT/ e-PG-Pathshala/ CEC (Under Graduate)/ Recognised MOOCs platform/ Institutional LMS	5000	To be shared among all translators of CC - SUES
11	Faculty Excellence Awards	Overall Performance		Criteria as per Excellence Award Committee Recommendations*	Award of 10000	



**ANNEXURE – III**  
**SULTAN UL ULOOM EDUCATION SOCIETY**  
**STATEMENT OF STREAM – 1 INCENTIVES SANCTIONED BY HoI**

Name of the Constituent Institution :

Statement Submission Date :

**NOTE:**

- i. All the criteria may not be applicable in all the months for an Institution. Hence only the relevant criteria may be filled.

<b>Publications – Conference Proceedings – Conference within India</b> (Attachment: Statement showing Title of publication and ID (ISBN, ISSN, doi, etc.))				
S. No.	Name of the Faculty Member	Title of the Conference	Dates of conference and place	Publisher of the proceedings
1				
2				
<b>Publications – Conference Proceedings – Conference Abroad</b> (Attachment: Statement showing Title of publication and ID (ISBN, ISSN, doi, etc.))				
S. No.	Name of the Faculty Member	Title of the Conference	Dates of conference and place	Name of the publisher
1				
2				
<b>Publications – Open Access Journals</b> (Attachment: Statement showing Title of publication and ID (ISBN, ISSN, doi, etc.))				
S. No.	Name of the Faculty Member	Name of the Journal	Date of publication	Name of the publisher
1				
2				
<b>Presentation – Conference – Conference within India</b> (Attachment: Statement showing Title of paper)				
S. No.	Name of the Faculty Member	Name of the Conference	Date of conference	Conference organizer
1				
2				
<b>Participation – Conferences / Seminars / Workshops / FDPs – Organized in India</b>				
S. No.	Name of the Faculty Members	Name of the event	Organized by	Date of participation

1				
2				
<b>External Grants – Consultancy – Utilizing Institutional Infrastructure</b>				
1				
2				
<b>Membership of Professional Bodies – To Sustain Professional Chapter</b>				
S. No.	Name of the faculty member	Department	Name of the professional body	Annual Membership fee paid
1				
2				
<b>Membership of Professional Bodies – Individual – Life Membership paid once in the career</b>				
S. No.	Name of the faculty member	Years of service in the institution	Name of the Professional body	Life Membership fee paid
1				
2				
<b>Qualification Improvement – PhD</b> (Attachment : Copy of the Provisional Certificate)				
S. No.	Name of the Faculty member	Name of the supervisor	University	Date of award of Ph. D. degree
1				
2				
<b>Qualification Improvement – Certificate Course</b> (Attachment : Copy of the e-certificate)				
S. No.	Name of the Faculty Member	Title of the Course	Course Offered by NPTEL/Others	Examination Fee Paid (Rs.)
1				
2				
<b>Research Supervision – Award of PhD degree</b> (Attachment: Copy of the Press-note of the University)				
S. No.	Name of the Faculty Member	Name of the Research Scholar	University	Date of award of Ph. D. degree
1				
2				

## ANNEXURE - IV


## OCCASIONS FOR PRESENTATION OF STREAM II INCENTIVE AWARDS

SULTAN UL ULOOM EDUCATION SOCIETY FACULTY INCENTIVE SCHEME STREAM II				
S. No.	Incentive for	Category	subcategory	Award to be given during
CC - SUES stands for Constituent College of Sultan UI Uloom Education Society				
1	Publication	Books	Sole author	College Day
			With co-author(s)	College Day
			Editor	Governing Council Meeting
			Subsequent editions	Faculty Meeting / Departmental Event
		Chapters in Books	Sole author in edited volumes	Faculty Meeting / Departmental Event
		Journals (Zero processing charges)		Governing Council Meeting
4	External Grants	Research Projects	Sponsored	College Day
		Organization of FDP/ Conference	National	Faculty Meeting / Departmental Event
			International	Governing Council Meeting
5	Patents	Indian (Applicant CC - SUES)	Published	Faculty Meeting / Departmental Event
			Design - Registered	College Day
			Utility - Granted	College Day
		International (Applicant CC - SUES)	Published	Faculty Meeting / Departmental Event
			Design - Registered	College Day
			Innovation - Granted	College Day
			Utility - Granted	College Day
		Applied by Individual (Indian / International)	Granted	Governing Council Meeting
		Technology Transfer	Patent in the name of Institution	College Day
		Copyright	Applied by SUES	Ownership
Applied by Individual	Ownership		Governing Council Meeting	
6	Awards and Recognitions	Academic / Research / Societal Contribution		College Day
		Best Paper Award	Published in Journal	Faculty Meeting / Departmental Event

		Best Paper Award	Published in Conference Proceedings	Faculty Meeting / Departmental Event
		Merit Award in NPTEL FDP Course	Topper+Elite+Gold Medal	Faculty Meeting / Departmental Event
		Merit Award in NPTEL FDP Course	Elite+Gold Medal	Faculty Meeting / Departmental Event
		Merit Award in ATAL FDP / ARPIT Refresher Course	Elite+Gold Medal	Faculty Meeting / Departmental Event
7	e-Content Development	Compilation of a Complete Course		Governing Council Meeting
		Compilation of a Module in a Course		Faculty Meeting / Departmental Event
		Translation of a Course to Urdu		Faculty Meeting / Departmental Event
		Translation of a Course to any Indian Language		Faculty Meeting / Departmental Event
11	Faculty Excellence Awards	Overall Performance		College Day

ANNEXURE – V

Certificate Sample for Stream – 2 Awards



**SULTAN-UL-ULOOM EDUCATION SOCIETY**  
Fostering Quality Education

**CERTIFICATE**  
**Faculty Incentive Scheme**

This is to certify that

**Dr. Mohammed Osman Farooqui**  
Associate Professor in Electrical Engineering Department  
Muffakham Jah College of Engineering and Technology

Has been awarded an amount of Rs. 7500/-  
for

Paper titled 'Improved weather forecasting with data mining techniques based on cloud computing' published in  
the open access 'Journal of Artificial Intelligence Research', 102 (2022) 151-165

Director / Principal  
Dated:

Hon. Secretary



1-4-2023 To 31/3/2024

Name	Designation	Membership	Membership	Individual	Top of membership P.T.S
Dr SYED ADIL	Asst. Prof. MED	Association of Engineers India	College R.O. Secret-	3260	
Dr Shabana Khanum	Asst. Prof.	Engineering Society of India (ESI)	• Rs. 1000/-		

Conference on BIG DATA & Communication Technologies

Rs. 5000/-

(SVRITHCON-23)

listed A unique Key Generation Transmission" hosted in

Recd development no advance Rs. 250/-

20/11/23

Rs. 250/-

Rs. 250/-

Rs. 250/-

Learning Applications (Online mode) Rs. 150/-

18/12/23 to 21/12/23.

Rs. 150/-

Rs. 150

Rs. 150

IEEE Asia Pacific Conference (APCCAS 2023) Rs. 5000/-

Conference on Sustainable Application (ICSCA) Rs. 5000/-

Nov 2023

IEEE India conference

Total 1,07,850/-

21) Syed Sabber Hussain ESE Professor  
Paper Present in International Virtual Reality, Information (SVRITHCON-2023) Paper Approach Medical Image Segmentation

22) 1. Dr. Viqueer Mohiuddin MED One week FDP on "Manufacturing Systems"

2. Professor

2. Dr. Mohd. Hasham-Ali MED

Asst. Prof.

3. Mr. E. M. Mughnuddin TUES

Asst. Prof.

4. Mr. Ahmad Abdel Hameem MED

Asst. Prof.

23) 1. Dr. Viqueer Mohiuddin MED One week FDP on Machine Learning for Mechanical Engineers

2. Dr. Md. Hasham-Ali MED

3. Mr. K. M. Mughnuddin MED

4. Mr. Ahmad Abdel Hameem MED

24) Mr. U. A. Rehman ECE Participate in the Conference on Smart and Systems

25) Mr. Saifude-Hameed Begum ITD Paper Present in the 2nd International Conference on Networks and Multi-Player Game Applications



7 Syeda Ambreen Khatun CSED  
 Assistant Professor  
 Paper published in International  
 Journal of Systems Vol 13, No 6, 2013  
 "A Linear Cost Prediction Method  
 for Dynamic Route Scheduling in  
 1-2-1-2-3. Under Open Access

8 Dr. Syed Shabbir Ahmad CSE  
 Professor  
 Research paper published in  
 Development with Security  
 framework for optimized

9 Prof. Abdul Mujeeb Mulla PhD  
 Professor  
 International Conference  
 on Numerical Optimization

10 Mr. Sayyada Nabeen CSE  
 Asst. Professor  
 Paper presented in conference  
 "Research work for anomaly  
 using Machine Learning"

Journal of Intelligent Engineering  
 Industrial Journal Paper titled  
 R. 10,000/- OAS

Based on Code Energy Computation  
 IJASET "Vol 10, 2013, 6, 15, 11, 2013.  
 Journal

Research Paper Article "Enhancing Agile  
 Integration: Introducing the Agile  
 Secure Software Development"  
 R. 10,000/- OAS

Attended at IIT Kanpur  
 in "E-SS & Security"  
 R. 29,500/- All Inclusive  
 5<sup>th</sup> to 7<sup>th</sup> Dec 2013

(10/12/14) Paper titled "4  
 Detection in Networks"  
 R. 5000/- Jan 2014



2024 -

28

Name Dept

1) Dr. V. Ch. Venkateswara Library Tira days National Library & Informatic

2) Dr. M. Mahmood Ali CSE Research paper accepted conference ICSC-2023 Indexed in Scopus Article Vision & ESP32

3) Dr. S. S. Slobban Ahmad CEE & paper published in a first author titled detection for breast

4) Dr. S. V. Anuradha (Marketing) Maths & Research paper published Applied Mathematical Journal paper titled Memo Effects on flow through porous

5) Dr. Kaleem Fatima ECE Supervised & Researched scholar have M.D not obtained 1. Salma Faizgi 2. Ganti Sravasthava 3. S. S. S. S. 4. Pratikha

6) Dr. Nagarajamma ECE Invited Attending Conference in EMC-5 Joint chapter Sr. Asst Professor

27

2025

Conference on Energy Technology & Re 2000/- 26<sup>th</sup> to 27<sup>th</sup> April 2024

at IEEE International Re. 5000/- 21-25 Dec 2023 - 27<sup>th</sup> to 28<sup>th</sup> Dec 2023 Re. 5000/- 13/1/24

AIP Conference Proceeding on Deep Learning based analysis cancer prognosis Re 5000/- 13/1/24

in International Journal of IAENG Scopus Indexed An Inclined NDA and Diffusive Radiative Viscerlastic Periodic Medium channel Re 10,000/- 6/1/24

Scholarship for Ph.D and successfully completed their their degree Re 20,000/- 9/1/24

111 research scholar from ECE Research Centre

MAPECON-24 Organised by MIT-SIBS-1 Re. 5000/- Dec 7-13, 24 Hyderabad Sponsored by IEEE HYO.