



# AGNI 2024

A one day annual colloquium on  
**BREAKING BARRIERS IN  
SPACE TECHNOLOGY**

on **OCTOBER 26** (Saturday)

at **St. Joseph's College of Engineering  
and Technology, Palai (Autonomous)**

organised by

**Indian Society for Heat and Mass Transfer  
Regional Chapter, Trivandrum (ISHMT-RCT)**

in association with

**Department of Mechanical Engineering, SJ CET Palai**



**ST. JOSEPH'S**  
COLLEGE OF ENGINEERING  
AND TECHNOLOGY,  
- PALAI -  
AUTONOMOUS



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# SPACE EXHIBITION

by LPSC, ISRO

on OCTOBER 25 & 26, 2024

at

**St. Joseph's College of Engineering  
and Technology, Palai (Autonomous)**

organised by

**Department of Mechanical Engineering, SJCET Palai**

in association with

**Indian Society for Heat and Mass Transfer  
Regional chapter, Trivandrum**

**FREE &  
Open to all  
EXPO**

# One Day Annual Colloquium: **AGNI** 2024

The One-Day annual colloquium, organized by the Indian Society of Heat and Mass Transfer – Regional Chapter Trivandrum (ISHMT-RCT) in association with the Department of Mechanical Engineering, St. Joseph's College of Engineering and Technology, Palai, brings together experts, researchers, and students to explore advancements in space and thermal technologies. The colloquium will cover key topics such as:

- Satellite Propulsion
- Human Space-flight Program
- Human Space Program's Impact on Earthly Health
- Opportunities and Challenges in Space Technology

Join us for an inspiring exchange of knowledge and ideas that shape the future of aerospace and heat transfer. **Last date for Registration: 19 October 2024**

Register for **AGNI** 2024

## Chief Guest & Keynote Speakers



**Dr. V. Narayanan**  
**Director**

Liquid Propulsion Systems  
Centre (LPSC)  
Thiruvananthapuram



**Mr. R. Hutton**  
**Associate Director**

Liquid Propulsion Systems  
Centre (LPSC)  
Thiruvananthapuram



**Dr. G. Ayyappan**  
**Former Associate Director**

Vikram Sarabhai Space  
Centre (VSSC),  
Thiruvananthapuram



**Dr. Shine S. R.**  
**Professor**

Indian Institute of Space  
Science and Technology (IIST),  
Thiruvananthapuram

## ISHMT RCT

The Indian Society for Heat and Mass Transfer (ISHMT) has been acting as a nodal agency in India, stimulating researchers engaged in the areas of heat and mass transfer, and bringing them together for fruitful interactions and exchange of ideas. ISHMT Regional Chapter, Trivandrum (ISHMT-RCT) was formed by members of ISHMT located in and around Trivandrum, with jurisdiction within the limits of Kerala State and the neighbouring Kanyakumari and Tirunelveli districts in Tamil Nadu. The ISHMT-RCT chapter of St. Joseph's College of Engineering and Technology, Palai, was inaugurated on March 30, 2019.

# Space Exhibition (25 & 26 October, 2024)

The SPACE Exhibition by the Liquid Propulsion Systems Centre (LPSC), ISRO, at St. Joseph's College of Engineering and Technology (SJCET), Palai, offers an exciting opportunity to explore the world of space technology and propulsion systems. This exclusive exhibition showcases the cutting-edge innovations and technological advancements driving India's space missions.

Visitors will get a closer look at models and prototypes of India's rocket engines, cryogenic systems, and other propulsion technologies developed by LPSC. The exhibition highlights the role of propulsion in space exploration, with insights into ISRO's major missions such as Gaganyaan, Chandrayaan, and Mangalyaan.

**Space Exhibition is FREE and open to all.**

## SJCET Palai


St. Joseph's College of Engineering and Technology, Palai (Autonomous), established in 2002, is owned and managed by the Catholic Diocese of Palai. The college offers 9 undergraduate programs (B.Tech.), Integrated MCA and 6 postgraduate programs, including M.Tech., MCA, and MBA, all approved by AICTE. Additionally, the institution is a recognized Research Centre under APJ Abdul Kalam Technological University, offering both full-time and part-time Ph.D. programs.



## Dept. of Mechanical Engineering, SJCET Palai

The department of Mechanical Engineering started in 2002 along with the inception of college, has unique identity with:

- ▶ NBA accredited B. Tech Programme in Mechanical Engineering
- ▶ M. Tech Programme in Advanced Manufacturing and Production Management
- ▶ APJAKTU Research Centre in the fields of Manufacturing, Industrial and Thermal engineering
- ▶ Ongoing funded projects by various funding agencies such as AICTE, SERB, ANERT, CERD-APJAKTU and so on.



<b>Registration</b>	08:30 - 09:30
<b>Inaugural Session</b> Chief Guest: Dr. V. Narayanan (Director - LPSC)	09:30 - 10:15
<b>Session I</b> <b>Satellite Propulsion</b> Dr. V. Narayanan (Director, LPSC)	10:15 - 11:00
Tea Break	11:00 - 11:30
<b>Session II</b> <b>Human Space-flight Program</b> Mr. R. Hutton (AD, LPSC)	11:30 - 12:30
Lunch Break & Visit to Space Exhibition	12:30 - 13:45
<b>Session III</b> <b>Space Technology – Opportunities and Challenges</b> Dr. G. Ayyappan (Former AD, VSSC)	13:45 - 14:45
Tea Break	14:45 - 15:15
<b>Session IV</b> <b>Human Space Program for Earthly Health</b> Dr. Shine S. R. (Professor, IIST)	15:15 - 16:15
<b>Valedictory Function</b>	16:15 - 17:00

**Venue:** St. Francis Hall, SJ CET, Palai



## Organising Secretaries

**Dr. S. R. Shine** (President, ISHMT-RCT)

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**Dr. Rajesh Baby** (Dean (Academics-I), SJCT Palai)

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## Program Coordinators

### AGNI 2024 (26 October 2024)

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### SPACE EXHIBITION (25 & 26 October 2024)

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## Student Coordinators

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**Mr. Abin Biju**

**Mr. Rahul Omanakkuttan**

**Ms. Theresa James**

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 **Locate SJCT on  
Google Maps**

