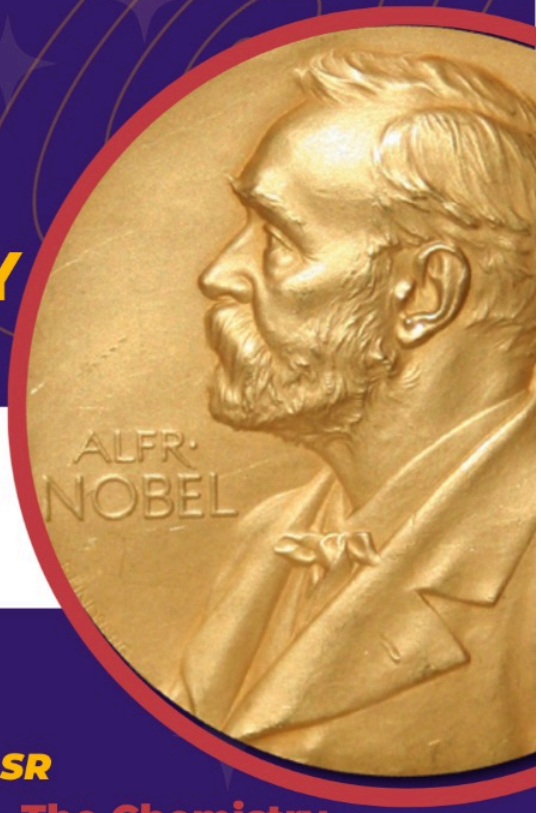
RAMAIAH UNIVERSITY OF APPLIED SCIENCES

INSTITUTION'S INNOVATION COUNCIL (Ministry of Education Initiative)

Faculty of Natural Sciences (FNS) &
Faculty of Life and Allied Health Sciences (FLAHS)

THE 2025 NOBEL PRIZE IN CHEMISTRY

Celebrating the Spirit of Scientific Excellence



VENUE

A206, RAMAIAH TECHNOLOGY CAMPUS,
DATE: 21/11/2025

KEYNOTE SPEAKER

Dr. Tapas Kumar Maji, FASc, FTWAS

Professor, Chemistry and Physics of Materials Unit, JNCASR

Title: Metal-Organic Frameworks (MOFs): The Material, The Chemistry & The Legacy

The **2025 Nobel Prize in Chemistry** marks a remarkable recognition of **Metal-Organic Frameworks (MOFs)** — crystalline, porous materials that have revolutionized materials science and chemistry. Built from the coordination driven assembly of metal ions or clusters with organic linkers, MOFs embody the concept of reticular chemistry, enabling the rational design of frameworks with **unprecedented structural and functional diversity.**

This talk will trace the **journey of MOFs**—from the pioneering discoveries by P**rofessors Robson, Kitagawa, and Yaghi**, to their roles in addressing global challenges such as **CO_2 capture and conversion, green hydrogen production, water harvesting and purification, and targeted drug delivery.**