

Faculty of Natural Sciences

The Faculty of Natural Sciences (FNS) offers postgraduate and Ph.D. Programmes in Chemistry, Physics and Mathematics. FNS also support Faculty of Engineering and Technology for First year Engineering Chemistry and Faculty of Life and Allied Health Sciences up to third semesters.

**Departments of Chemistry is
Organizing a Technical Talk on**

Tailoring the Properties of Nanomaterials for Photocatalysis



Dr. Sakar Mohan
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Dr. Sakar Mohan is working as an associate professor in CNMS, Jain University. His research interests focus on nanomaterials and photocatalysis. He obtained PhD from University of Madras, completed Post-doctoral studies in University of Madras and Laval University, Canada. He completed various research projects from DST, SERB, VGST etc. Dr. Sakar published more than 152 research articles, 2 patents, 3 edited books, 21 book chapters and many more. He has more than 4590 citations, the h-index is 39 and i10 index is 93. Dr. Sakar is a distinguished researcher in the field of material science with various national and international level awards.

Abstract: This talk explores the critical role of nanoscale features such as high surface area, quantum confinement, and tunable band structures in enhancing light absorption, charge separation, and surface reactivity. Emphasis will be placed on various nanostructured semiconductors, heterojunction architectures, and surface engineering strategies that boost photocatalytic efficiency. Case studies, characterization techniques, and structure–property–function relationships will be discussed to illustrate their performance. The talk concludes with insights into current challenges, sustainable synthesis, and the future outlook for nanomaterials-based photocatalysis in real-world applications.

Date: 27/06/2025

Time: 10.30 AM

Off line venue: A 204, RTC Peenya,

[Join the meeting now](#) (Online)

Meeting ID: 440 381 276 110 0

Passcode: qu2Ab3wb

Programme Coordinators:

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