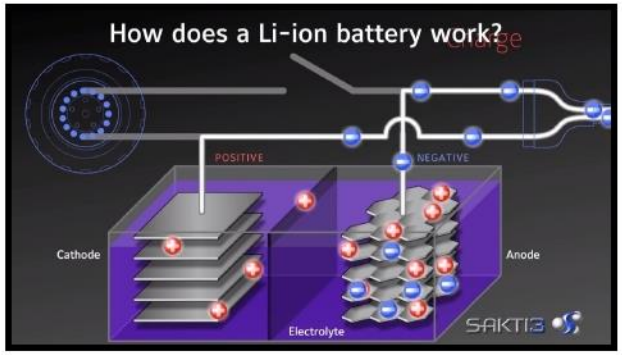
Topics	Resource Person
Introduction to hybrid and functionlized materials	Dr. Sureshkumar K Dr. Jyoti Roy
Advanced materials for Battery Applications	Dr. Ramakrishnappa T
Composite materials for energy and environmental applications	Dr.Bincy Rose Vergis Dr. Sudheer Kumar
Advance materials for Sensors & corrosion resistant applications	Dr. Jyoti C. Abbar Dr. Swetha G A
Hands out session for Nano materials and its applications.	
Hands out session for designing of anode materials for Li-ion battery applications.	
Hands on sessions on composite applications.	

Registration fees: 400 /-
Registration link: https://projects.bmsit.ac.in



Coordinator:
Dr. Jyoti Roy Choudhuri
Associate Professor
Department of Chemistry.
Mobile: 8296799794
Email: jyotiroy@bmsit.in

Institute Vision

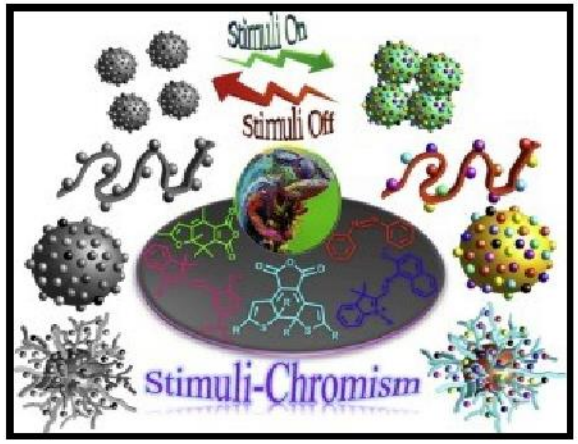
To emerge as one of the finest technical institutions of higher learning, to develop engineering professionals who are technically competent, ethical and environment friendly for the betterment of the society.

Institute Mission

Accomplish stimulating learning environment through high quality academic instruction, innovation and industry-institute interface.

Theme of the Open Course

This course provides a brief introduction to the chemistry of advanced materials. These materials having unique properties which make them suitable candidates towards technological improvement and thus can be used in various applications. Hybrid materials are emerging as a very potent and promising class of materials. The use of revolutionized techniques helps us to improve the methods of preparation of such materials with im- proved functionality. Hybrid materials have already shown a significant influence in the field of battery technology, in catalysis, in biomedical and various other technologies. The students of all engineering branches can find application of these materials in their field. Students of mechanical, electronics, electrical and civil engineering are most welcome to join this course.



BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

Yelahanka, Bengaluru-64

Open Course
On
Hybrid Materials for Smart Life Engineering Applications

Date: 12th -16th June, 2023

Venue: BSN Block, BMSIT&M

Organized by

Department of Chemistry
B M S Institute of Technology & Management
Doddaballapur Main Road, Avalahalli,
Yelahanka, Bengaluru- 560 064,
Karnataka.

Online Fee Payment Details:

1. Login into: https://bmsitm.gnums.in
2. Go to Menu Fee-> other Fee
3. Select the fee Head as Open Course fee and pay **Rs 400/-**.

Department of Chemistry

Course Schedule: "Nanostructured and Functionalized Materials for Engineering Applications"

12th June 2023 to 16th June 2023

Sl No.	Date	Topics covered	Break	Topics covered	Break	Topics covered	Assessment/feedback
		8:30 to 10:30 am	10:30 to 10:50 am	10:50 to 12:50 pm	12:50 to 1:50 pm	2:00 to 4:00 pm	4:00 pm to 4:30 pm
1	12.06.2023	Introduction to Hybrid Materials	TEA BREAK	Synthesis of Hybrid Materials	LUNCH BREAK	Advanced Materials for Battery Technology	Overall Feedback & Assessment
2	13.06.2023	Composite materials and its synthesis		Commercial applications of composites		Hands-on sessions on Material synthesis	Overall Feedback & Assessment
3	14.06.2023	Introduction to Corrosion and its driving factors		Application of green inhibitors on corrosion mitigation		Hands-on sessions on corrosion inhibitor applications	Overall Feedback & Assessment
4	15.06.2023	Introduction to Electrochemical Sensors		Hybrid Materials for Sensor Applications		Hands-on sessions on Material characterization	Overall Feedback & Assessment
5	16.06.2023	Introduction to Electrowetting		Electrowetting application in Optical Lenses		Quiz	Overall Feedback & Assessment

Instructions to the Participants:

1. Prerequisite: Students should have basic knowledge in Chemistry at the PU level.
2. For Hands-on sessions the student needs to carry the following to the lab:
    a. Lab coat
    b. Hand wash