



Indian Academy of Sciences
Bangalore



Indian National Science Academy
New Delhi



The National Academy of Sciences
India, Allahabad

Science Academies' Refresher Course on “Interdisciplinary Cutting Edge Technologies in Science”



**Department of Computer Science and Engineering
BMS Institute of Technology & Management, Bengaluru**

25th March to 6th April 2024

Sponsored by

***Indian Academy of Sciences, Bengaluru
Indian National Science Academy, New Delhi
The National Academy of Sciences India, Allahabad***

A Refresher Course in Interdisciplinary Cutting Edge Technologies in Science will be held at the Department of Computer Science and Engineering, BMS Institute of Technology & Management (BMSIT&M), Bengaluru, from 25th March to 6th April 2024 for the benefit of faculty involved in teaching undergraduate and postgraduate courses. This course will address Artificial Intelligence (AI), Machine Learning, IoT, Cyber Security, Image Processing, Robust Database Query Processing, Hidden Database Query Extraction, Engineering opportunities and prospects in Biotechnology.

The course is sponsored by Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi and The National Academy of Sciences, India, Allahabad. It will be directed by Dr Vishwas Bapat, CSIR Emeritus Scientist and coordinated by Dr Bhuvaneshwari C M, Department of Computer Science and Engineering, BMS Institute of Technology & Management (BMSIT&M), Bengaluru. The topics and lecturers: includes Engineering opportunities and prospects in Biotechnology: Dr Vishwas Bapat (CSIR

Emeritus Scientist); Robust Database Query Processing and Hidden Database Query Extraction: Dr Jayant R Haritsa (IISC, Bangalore); Cyber Security: Mr Arjunit Chowdhury Reinforcement Learning: Dr Vinay Borkar (IIT, Mumbai); Open AI: Mr Ajinkya Lohakare (CTO and Founder of Ditto security); Image Processing: Dr Manesh B Kokare (Ph.D.IIT Kharagpur); Natural Language Processing: Dr Satwinder Singh(Central University, Punjab).

Applications are invited from teachers with experience in teaching undergraduate and postgraduate courses in Engineering. Motivated M. Tech and Ph.D Scholars may also apply. There will be 25 outstation and 10 local participants. Selected outstation participants will be provided with travel assistance (limited to two-tier A/C train fare), while all participants will be provided accommodation and local hospitality during the Course, in addition to the course material.

Interested applicants must submit their application ONLINE by clicking on the following link:

<https://forms.gle/hUPJPX8i3YfwU6Uw9>

A copy of the application form signed by the applicant should also be sent by Post to the Course Coordinator, at the address given below. In case of teachers, the form must also be signed and stamped by the Head of the applicant's institution stating that leave will be sanctioned if the applicant is selected for the Course. A recommendation letter from a teacher is essential for student applicants. Scanned copies of the duly signed documents sent by e-mail will also be accepted.

Course coordinator

Dr. Bhuvaneshwari C M.
e-mail: bcm@bmsit.in
Phone: +91 9449811522/ 8310211556.

Course Director

Dr. Vishwas Bapat
Emeritus Scientist

Last date for the receipt of applications: 19 March 2024
selected participants will be informed by: 21 March 2024