

## ABOUT THE INSTITUTION

Shri Madhwa Vadiraja Institute of Technology & Management (SMVITM), situated at Bantakal in Udupi district. The institute founded in the year 2010 by Shri Shri Vishwavallabha Theertha Swamiji of Shri Sode Vadiraja Mutt with the motto "Engineering your Career and Character with Care". Though SMVITM is the youngest institute in the region, its accomplishments are many. Accreditation with "A-Grade" by National Assessment and Accreditation Council (NAAC), accreditation to the undergraduate programs by the National Board of Accreditation (NBA) are the outstanding accomplishments of the institute in the recent years. The institute is well received by the general public for the excellent infrastructure, distinguished learner centric facilities and dedicated team of faculty and staff members.

## ABOUT THE DEPARTMENT

The department of Computer Science and Engineering is one among the much sought departments at SMVITM. The undergraduate program (B.E) offered by the department has been accredited by the National Board of Accreditation (NBA). The department has experienced and motivated faculty members contributing immensely to the overall development of the students. It is the custom of the department to host many national level events like Hackthosava, National International conferences, IOT and other learner centric events / activities to nurture the talents of students. The department also engaged in mentoring the students, organizing career guidance and value added programs throughout the years. The research culture has been induced through various research activities with the support of qualified and experienced faculty members. The department has state-of-the-art laboratories and excellent library facilities to meet the academic needs of students.

## DEPARTMENT VISION

"To be recognized as a center of excellence in the field of Computer Science and Engineering imparting holistic education catering the needs of the society."

## DEPARTMENT MISSION

- Impart knowledge by providing a healthy learning environment
- Encourage the zeal to be updated in technology front and abide by ethical and moral values
- Engage in result oriented research and innovation to cater the societal needs

## ABOUT THE PROGRAMME

The faculty development program (FDP) is devoted to addressing the need of technological developments in Data Science and its allied fields. Artificial intelligence (AI) aims to mimic human cognitive functions and has brought a paradigm shift in Health Sciences. It is powered by the increasing availability of healthcare data and the rapid progress of analytical techniques. In the coming years, AI has the potential to lower healthcare costs, identify more effective treatments, facilitate early detection and prevention of diseases, assist and replace repetitive and labor-intensive tasks. This FDP empowers the participants to understand sources of data generation, forms of data and aims to discuss the sequence, structure and functions with new technologies. This workshop is intended to provide an insight on health technology applications in various fields with hands-on experience. The aim of this proposed FDP is to create an awareness on the usage of analytics and importance of security in the healthcare domain. This will help participants learn the phenomenal research challenges and gaps to be addressed in the healthcare domain.



SMVITM



FIVE DAYS FACULTY DEVELOPMENT PROGRAMME

ON

**HEALTH CARE ANALYTICS**

**(09/01/2023 to 13/01/2023)**

Organized by

Department of  
Computer Science & Engineering  
in association with

Biomedical Engineering Society of India  
and  
Indian Society for Technical Education



**SHRI MADHWA VADIRAJA INSTITUTE OF  
TECHNOLOGY AND MANAGEMENT**

( A Unit of Shri Sode Vadiraja Mutt Education Trust®, Udupi )  
Accredited by NBA | Accredited by NAAC with 'A' Grade |  
Affiliated to VTU, Belagavi, Karnataka Vishwothama Nagar,  
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## PATRONS

Shri.Shri Vishwavallabha Theertha Swamiji  
President, Shri Sode Vadiraja Mutt  
Education Trust – Udupi

Shri. Rathnakumar  
Secretary, Shri Sode Vadiraja Mutt  
Education Trust – Udupi

## ADVISORY COMMITTEE

Dr. Thirumaleshwara Bhat, Principal

Dr. Ganesh Aithal, Vice Principal

Dr. Sudarshan Rao, Dean (Quality Assurance)

## CO-ORDINATOR

Dr. Soumya J Bhat, HOD, Dept. of CSE

## ORGANIZING COMMITTEE

Ms. Savitha Shenoy, Asst. Professor (Sr.),

Ms. Preethi M, Asst. Professor

Mr. Raghavendra I Hegde, Asst. Professor

Ms. Gowri T Bhat, Foreman.

## CONTACT DETAILS

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Assistant Professor (Sr.),  
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Assistant Professor,  
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Phone: +91 8861958628

## CONTENT OF THE FDP

- **DAY 1**
  - Medical Image Analysis
  - Machine learning basics to advanced
- **DAY 2**
  - Technology trends in Health care: Implanted sensor based drug delivery with a case study.
  - Covid-19 severity prediction using machine learning and explainable AI (Hands on)
- **DAY 3**
  - Interdisciplinary research prospects and funding opportunities
  - Data collection challenges and roadmap for paper writing
  - Data analytics and segmentation techniques
- **DAY 4**
  - Mini Project and Project Demo
- **DAY 5**
  - Technology meet well-being

## WHO CAN PARTICIPATE ?

- Faculty from Engineering Colleges.
- Faculty from Degree, Diploma and PU Colleges.
- Research scholars and Postgraduate students from any science stream.

## EARLY BIRD REGISTRATION

Registration fee of Rs.800/-

Early bird registration with discounted fee of Rs.600/-

Registration fee for Students : Rs. 300/-

## IMPORTANT DATES

EARLY BIRD REGISTRATION: 30.12.2022

LAST DATE FOR REGISTRATION: 05.01.2023

## RESOURCE PERSON

### Dr. Niranjana U C

President, Biomedical Engineering Society of India  
Dept. of BME, MIT, Manipal

### Ms. Suparna Shetty

Managing Director, Eterna Infotech

### Dr. Cifha Crecil Saldanha

Assistant Professor Senior Scale  
Dept of Biomedical Engg  
Manipal Institute of Technology  
MAHE, Manipal

### Dr. Sneha Nayak

Asst. Professor GD III  
Dept. of Biotechnology Engineering  
NMAM Institute of Technology  
NITTE (Deemed to be University)

### Mr. Abhishek S Rao

Asst. Professor GD III  
Dept. of Information Science & Engineering  
NMAM Institute of Technology  
NITTE (Deemed to be University)

### Mr. Krishnaraj Chadaga

Dept of Computer Science and Engg  
Research Scholar MIT, Manipal

## NOTE

FDP is in offline mode from 09<sup>th</sup> January to 13<sup>th</sup> January 2023.

## VENUE

Department of Computer Science and engineering  
SMVITM, Bantakal

## Payment details are as follows:

NAME: SHRI MADHWA VADIRAJA INSTITUTE OF  
TECHNOLOGY AND MANAGEMENT

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