BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT

DEPARTMENT OF ISE

Presents

5 DAYS OPEN COURSE PROGRAM ON

" SOFT COMPUTING USING MACHINE LEARNING TECHNIQUES TO BUILD AI APPLICATIONS"

JUNE 12 - 16 2023

In Association with

Impavid Technologies

Organizing Chair: Dr. PUSHPA S K

ABOUT THE INSTITUTE

In view of the growing demand for technical education and with the goal of establishing a premier technical education on par with international standards, a new technical institution by name 'BMS Institute of Technology and Management' was established in 2002. Currently, BMSIT&M offers eight UG, three PG programs and Ph.D./M.Sc. (Engg.) in ten disciplines. BMSIT&M considers research to be of equal importance as academics for the betterment of an institution. Research culture has been embraced well by the faculty members and research scholars at BMSIT&M.

ABOUT THE DEPARTMENT

The Department of Information Science and Engineering started in the Year 2010 with an approved intake of 60 and Enhanced to 240 from the academic year 2023-24. The Department has qualified and professionally dedicated faculty members practising OBE in the academic deliverables. The faculties have published research articles in various National, International Conferences and Journals. The department has modern laboratories to serve the teaching and research needs of the students as well as faculty members. The Department has been organizing conferences, workshops, expert lectures and student centric activities to encourage students to instil lifelong learning. Few of our students are working for consultancy projects along with few faculty members. The staffs are encouraged to attend the 10 days internship to bridge the gap between the academics and industry. The department has admirable research ambience.

ABOUT THE COURSE

In today's context automation has become pervasive in all the aspects of technical domains. To impart the system requirement & accordingly meet the expectations without much human intervention Machine learning. These deep learning models flow into a constant feedback loop with machine learning processes to continuously improve the AI algorithms.

COURSE OBEJCTIVE

- To Understand the Fundamentals of ML
- To Apply Deep Learning Algorithms for problem solving
- To Design AI application using modern tool
- To Analyze the AI applications based on scenarios

TARGET AUDIENCE

All Students of BMSIT&M.
Note: Students to follow BYOD (Bring Your Own Device)

COURSE MATERIAL

Hand-outs of presentation as soft copy, installation and usage of software tools will be provided to all students. Participation certificate will be given to all students after completion of assessment and feedback.

COURSE CONTENT

- Fundamentals of Machine Learning
- Perspective issues in ML
- Decision tree models
- Perceptron's & backtracking models
- Bayesian & Instant Learning
- Artificial Neural Networks
- Reinforcement learning
- Hands-on session ML models & real time demos

REGISTRATION LINK :

https://projects.bmsit.ac.in

REGISTRATION 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/-

VENUE DETAILS: lab block CR – 201.

FACULTY COORDINATORS

Dr. Rakesh N,
Assoc. Prof., Dept. of ISE
n_rakesh@bmsit.in
91-8277623664

STUDENT COORDINATORS

Mr.Krishna Gupta
E09@bmsit.in
91-7803024843

Ms. Mimansa Mishra
E18@bmsit.in
91-8197788456

Department of ISE
Course Schedule: "SOFT COMPUTING USING MACHINE LEARNING TECHNIQUES TO BUILD AI APPLICATIONS"

12th June 2023 to 16th June 2023

Sl No.	Date	Topics covered		Topics covered		Topics covered	Assessment and 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 to 4:30 pm
1	12.06.2023	Fundamentals of Machine Learning Dr. N . Rakesh Associate Professor, Dept. of ISE	TEA BREAK	Perspective and Issues in Machine Learning Dr. Pradeep K. R. Asst.Professor – Dept. of AI & ML	LUNCH BREAK	Sample models hands-on session Dr. Anil Kumar Asst.Professor – Dept. of ISE	Quiz & Feedback
2	13.06.2023	Concept Learning of Machine Learning Dr. Karthik S. A. Asst.Professor – Dept. of ISE		Decision Tree Learning models & hands-on Dr. B. Vamshi Krishna Associate Professor, Dept. of CSE – MIT,Bengaluru		DTL models Hands-on session contd. Dr. B. Vamshi Krishna Associate Professor, Dept. of CSE – MIT,Bengaluru	Quiz & Feedback
3	14.06.2023	Artificial Neural Networks Dr. Shoba M. Associate Professor, Dept. of ISE		Perceptron's, Backpropagation algorithm & hands-on Dr. Mohan B. A. Asst.Professor – Dept. of ISE		Bayesian Learning & Hands-on Dr. Kalaivani Y. S. Asst.Professor – Dept. of ISE	Quiz & Feedback
4	15.06.2023	Instance-Based Learning Mr. Goutam R. & team CEO - Impavid Technologies		IBL models hands-on Mr. Goutam R. & team CEO - Impavid Technologies		Reinforcement Learning & Hands-on Mr. Goutam R. & team CEO - Impavid Technologies	Quiz & Feedback
5	16.06.2023	Real-time examples projects demo Mr. Goutam R. & team CEO - Impavid Technologies		Projects demo hands-on contd. Mr. Goutam R. & team CEO - Impavid Technologies		Valedictory Function	Overall Feedback & Assessment