ABOUT THE INSTITUTION

Don Bosco Institute of Technology (DBIT) was established in 2001 as a part of Wayanamac Education Trust that envisions providing quality education in Engineering/Technology and Management studies. Presently, DBIT offers Under Graduate (UG) programs in eight domains that include Computer Science and Engineering, Information Science and Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Civil Engineering, Mechanical Engineering, Artificial Intelligence & Machine Learning, Artificial Intelligence & Data Science besides the Post Graduate (PG) program in Management studies titled Master of Business Administration. Ten departments including basic science departments have Research Centres that offer PhD programs. All UG, PG and Research programs (PhD) are affiliated to Visvesvaraya Technological University, Belagavi. All eligible UG programs of DBIT are accredited by NBA and the institution is NAAC accredited. The quality of education at the institution level is governed by IQAC (Internal Quality Assurance Cell) whose process framework percolates to the constituent departments in a graceful manner so as to enable build quality into the system from the grass root level.

ABOUT THE DEPARTMENT

Department of Civil Engineering was established in the year 2013.The department runs undergraduate program with an intake of 60 students and well qualified faculty members with industrial experience. The program is approved by AICTE, affiliated to VTU, Belagavi and Accredited by NBA. The department is focused towards growth and technology trends with well-furnished laboratories. An excellent academic and research environment is available for creative and productive work both for faculty as well as students. The department had been awarded as best student's chapter award by is Indian Concrete Institute Bengaluru centre and by ICI Headquarters consecutively three times (2020,2021&2022).

ORGANIZING COMMITTEE

CHIEF PATRON:

Shri. B Bylappa - President
Shri. P B Manjunath - Vice President
Shri. Raghav Bylappa - Secretary
Wayanamac Educational Trust,
Bengaluru

PATRON:

Dr. Nagabhushana B S , Principal

CONVENOR :

Dr. R.L.Ramesh - Professor & Head

Co-CONVENOR:

Prof.Kiran Nadgauda, Associate Professor

CO-ORDINATOR:

Dr.R.L.Ramesh
Professor & Head
Email: rameshrl@dbit.co.in
rameshrantaval@gmail.com
Mobile: +91 9845657560

ORGANIZING TEAM:

Dr. Savitha A L
Mrs.Sandhiyarani G M
Mr.Raghavendra D
Ms.Manjularani P
Mr.Raghavendra R
Mr.Gobinath S
Mr.Mahesh D
Mr.Kushnappa B K
Mr.Rohit S Narayan

AICTE Training and Learning (ATAL) Academy Sponsored One Week Faculty Development Program (FDP) on

"MACHINE LEARNING IN CIVIL ENGINEERING: TOOLS, TECHNIQUES, AND REAL-WORLD SCENARIOS"

08.01.2024 to 13.01.2024

Organized by

Department of Civil Engineering
Don Bosco Institute of Technology
Mysore Road, Kumabalagodu, Bengaluru
Karnataka- 560 074
www.dbit.co.in

in collaboration with
Indian Concrete Institute and
SCM Consultancy and Engg Services

in association with
AICTE Training and Learning (ATAL)

AICTE Training and Learning (ATAL) Academy Sponsored One WeekFaculty Development Program (FDP) on

"Machine Learning in Civil Engineering: Tools, Techniques, and Real-world Scenarios"

08.01.2024 to 13.01.2024

ABOUT THE PROGRAMME

The "Machine Learning in Civil Engineering: Tools, Techniques, and Real-world Scenarios" Faculty Development Program (FDP) is a dynamic and comprehensive initiative designed to equip educators in the field of civil engineering with the knowledge, skills, and practical insights needed to integrate machine learning into their teaching and research. This FDP aims to bridge the gap between theoretical understanding and real-world applications of machine learning within the context of civil engineering, fostering a deeper understanding of how AI-driven approaches can revolutionize the industry

KEY HIGHLIGHTS:

- Interactive Workshops: Participants will engage in hands-on workshops, utilizing industry-standard tools and software to implement machine learning algorithms and solve civil engineering challenges.
- Expert Sessions: Renowned experts from academia and industry will deliver insightful sessions, sharing their experiences and expertise in applying machine learning to civil engineering problems.

REGISTRATION FEE

- No fees will be charged to faculty members working in AICTE approved institutions.

OBJECTIVES OF THE PROGRAM

- To equip civil engineering educators with foundational knowledge and practical skills in AI and machine learning.
- To introduce cutting-edge AI and ML concepts, algorithms, and tools for addressing civil engineering challenges.
- To provide hands-on workshops enabling participants to apply AI/ML techniques to real-world civil engineering issues.
- To foster a collaborative environment for educators to share insights, experiences, and best practices in integrating AI/ML into teaching and research

WHO SHOULD ATTEND?

- Registration is open to faculty members of the AICTE approved institutions, research scholars, PG Scholars and participants from Industry.

SELECTION PROCESS

- Participants are limited to a maximum of 50 on first-come-first-serve basis and selected candidates will be intimated through email.

REGISTRATION LINK

- Participants are mandatory fill up the online registration form. Link for Registration: https://atalacademy.aicte-india.org/signup
- E-certificate will be issued to those participants who have attended the program with Continuous Comprehensive Assessment of Attendees - Overall 80% to receive a certificate

RESOURCE PERSONS IDENTIFIED

Prof. J. M. Chandra Kishen
Professor, Department of Civil Engineering
Indian Institute of Science, Bangalore.

Dr. Manu Santhanam
Department of Civil Engineering
Indian Institute of Technology Madras
Chennai, TN

Dr.Pijush Samui
Department of Civil Engineering
National Institute of Technology Patna Patna, Bihar

Dr.Chandramouli S V
SCM Consultancy and Engg Services Bengaluru

Dr. Gopal Krishna Sharma
Professor, Department of Civil Engineering
Dayanand Sagar College of Engineering, Bengaluru.

Dr.Jayaram M.A.
Professor, RASTA, Bengaluru

Hands on Training Expert

Dr. Seelam Srikanth Reddy
Associate Professor,
Department of Civil Engineering,
REVA University,
Bengaluru.

Don Bosco Institute of Technology

In collaboration with

Indian Concrete Institute and

SCM Consultancy and Engg Services

With support of ATAL-AICTE

Conducts One Week Basic FDP on

"MACHINE LEARNING IN CIVIL ENGINEERING: TOOLS, TECHNIQUES, AND REAL-WORLD SCENARIOS

The detailed tentative session planning of basic ATAL FDP will be as follows:

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
9:00 – 9:30 Inauguration **9:30 – 12:00 (Session 1)** **Topic:** Introduction to AI & ML in civil Engineering **Resource Person:** Dr.M.A.Jayaram, Professor RASTA	**9:30 – 12:00 (Session 3)** **Topic:** AI&ML application in concrete strength prediction **Resource Person:** Prof. J. M. Chandra Kishen Professor, Department of Civil Engineering Indian Institute of Science, Bengaluru	**9:30 – 12:00 (Session 5)** **Topic:**: A Case Study of Machine Learning in Practical Field. **Resource Person:** Dr.Chandramouli S V SCM Consultancy and Engg Services Bengaluru	**9:30 – 12:00 (Session 7)** **Topic**: Advanced Tools and real world scenarios of AL&ML in civil engineering Resource Person: Dr.Pijush Samui Department of Civil Engineering National Institute of Technology Patna,Bihar	**9:30 – 1:00 (Industrialvisit)**	**9:30 – 12:00 (Session 10)** **Topic:** Hands On Session on Alyuda -ANN Tool **Resource Person:** Dr. Seelam Srikanth Reddy Associate Professor, Department of Civil Engineering, REVA University, Bengaluru.
12:00 – 1:00 ***Article-1 Discussion***	***12:00 – 1:00*** ***Article Discussion***	***12:00 – 1:00*** ***Article Discussion***	***12:00 – 1:00*** ***Article Discussion***		***12:00 – 1:00*** ***ReflectionJournal***
1:00 – 2:00 ***Lunch***	***1:00 – 2:00*** ***Lunch***	***1:00 – 2:00*** ***Lunch***	***1:00 – 2:00*** ***Lunch***	***1:00 – 2:00*** ***Lunch***	***1:00 – 2:00*** ***Lunch***
2:00 – 4:30 (Session 2) **Topic:** Tools, Techniques in Machine learning and its application to civil Engineering **Resource Person:** Dr.M.A.Jayaram, Professor RASTA	2:00 – 4:30 (Session 4) **Topic**: Application of AI &ML in Structural Health Monitoring Resource Person: Prof. J. M. Chandra Kishen Professor, Department of Civil Engineering Indian Institute of Science, Bengaluru	**2:00 – 4:30 (Session 6)** **Topic**: Challenges in Data choosing an model and prediction with practical field data's Resource Person: Dr.Chandramouli S V SCM Consultancy and Engg Services Bengaluru	**2:00 – 4:30 (Session 8)** Topic: Forecasting and Probability theory application in Civil Engineering Resource Person: Dr. Gopal Krishna Sharma Professor, Department of Civil Engineering Dayanand Sagar College of Engineering, Bengaluru.	**2:00 – 4:30 (Session 9)** **Topic:** Microstructure to heritage conversation the application of AI MIL **Resource Person:** Dr. Manu Santhanam Department of Civil Engineering Indian Institute of Technology Madras Chennai, TN	***2:00 – 4:00*** ***MCQ, Feedback& Interactions***
4:30 – 5:30 ***Practical sessions/Labs***	***4:30 – 5:30*** ***Practical sessions/Labs***	***4:30 – 5:30*** ***Practical sessions/Labs***	***4:30 – 5:30*** ***Practical sessions/Labs***	***4:30 – 5:30*** ***Practical sessions/Labs***	***4:00 – 5:00*** ***ValedictorySession***