

ABOUT THE INSTITUTE

Sindhudurg Shikshan Prasarak Mandal's College of Engineering (SSPMCOE) is one of India's top-rated colleges for B.E./B.Tech programs. The institute was established in 1999 and is located in Maharashtra. This year Institute is celebrating Silver Jubilee Year. Institute is accredited by NAAC with B+ Grade in the year 2019 and now applied for second cycle OF NAAC. As of now, the institute comprises a total of 7 specialization courses: 1. Computer Engineering (CE), 2. Computer Science Engineering (AIML), 3. Computer Science (CS), 4. Electronics & Computer Science Engg, 5. Electrical Engineering, 6. Mechanical Engineering, 7. Mechatronics Engineering while the number of seats available in the current scenario is 360. Additionally, the institute revolves around the Engineering studies stream and offers courses in Full-Time mode. Moreover, it also offers Degree programs, giving students a variety of credentials to choose from. The institute is approved by AICTE and they provide a variety of UG programs at a reasonable fee. Sindhudurg Shikshan Prasarak Mandal's College of Engineering (SSPMCOE) possesses a modern type of infrastructure with great quality ensuring the students' satisfaction, consisting of Auditorium, Boys Hostel, Cafeteria, Girls Hostel, Gym, Hospital / Medical Facilities, Hostel, Labs, Library, Shuttle Service and so on.

Highly qualified, experienced and dedicated faculties as per AICTE New Delhi, DTE Mumbai and Mumbai University Mumbai. Consistently Rankers in Mumbai University merit list and average 95% result every year. We are implementing the Outcome based Education as per "Washington Accord" standards with strong industry academia interaction and practical oriented training. Institute has ventilated and spacious class rooms fully fledged & modernized laboratories with drawing hall.

ABOUT THE DEPARTMENT

The mission of computer Science & Engg. department is to impart quality technical education to deserving students from fundamentals of engineering to high technology and to prepare them for high-profile career to facilitate transformation of students into good human beings, responsible citizens and competent computer professionals with research attitude. The department of computer engineering imparting quality technical education to deserving students from fundamentals of

ABOUT THE FDP

Engineering optimization is development of mathematical models of engineering decisions and mathematically determining desired maximum or minimum values of objective functions. Industrial engineers have to convert their engineering change ideas into mathematical models and find the best solution or optimal solution. But in industrial engineering studies, the first investigation is to find engineering changes that are possible. Then both the existing configuration and new possible configuration are subjected to engineering optimization procedure to find the best result and then a decision is taken to stick to the current solution as optimized or new solution as optimized.

TOPICS TO BE COVERED

- Basics on Object oriented programming, C++, JAVA and Python (Hands-on)
- Concepts on Optimization Techniques
- Concepts on Multi-Objective Optimization
- Genetic Algorithm, Particle Swarm Optimization, Differential Evolution, Ant Colony Optimization for single objective optimization problem (with hands-on training)
- Design and application of Multi-Objective Evolutionary Optimization Algorithms.
- Algorithms on Neural Network and Hands-on training on Optimization software
- Pros and Cons of various meta-heuristics in solving engineering optimization problems
- Various applications of Optimization Techniques in Science and Engineering

WHO SHOULD ATTEND/TARGETED PARTICIPANTS

The Faculties from AICTE approved institutes (Engineering and Polytechnics) from Computer, AIML, computer Science, Electrical, Mechanical, Mechatronics and related branches and passionate about optimization techniques are eligible to participate in the program

SINDHUDURG SHIKSHAN PRASARAK MANDAL'S COLLEGE OF ENGINEERING

KANKAVLI-416602 DIST.SINDHUDURG MAHARASHTRA , INDIA

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PHONE : 91-2367 -299214/299442/299112

Accredited by NAAC with 'B+' GRADE

Approved by AICTE NEW DELHI ,DTE Mumbai

Affiliated to Mumbai University, Mumbai



One Week Online Faculty Development Program (FDP)

On

PRINCIPLES, TECHNIQUES AND PERSPECTIVES ON OPTIMIZATION TECHNIQUES IN ENGINEERING AND FUTURE TRENDS

20-25 January 2025

In Association with
AICTE Training and Learning (ATAL) Academy
All India Council for Technical
Education (AICTE), New Delhi



Organized By
Department Of Computer Science & Engg

PARTICIPANTS

Faculty members of the AICTE approved institutions, Research scholars, PG Scholars, participants from Government, Industry Bureaucrats/Technicians/ Professionals/ School Teachers and faculties of host institutions nominated by the Head of the institutions.

INSTRUCTIONS TO PARTICIPANTS

Participants can sign up and register for the program in AICTE ATAL website link:

<https://www.aicte-india.org/atal>

Or <https://alalacademy.aicte-india.org/signup>

The FDP will be conducted in ONLINE mode only. No Registration Fee for the participants. Registrations will be accepted on the first come first serve basis.

Important Dates

FDP Start Date:20 January2025

FDP End Date:25 January 2025

Number of Participants is limited to 100

A test shall be conducted at the end of Program and Participants will be awarded a Certificate of participation by the ATAL Academy. The Certificate shall be issued to those Participants who put in a minimum of 80% attendance and score a minimum 70% marks in the test. E-certificate will be provided by the ATAL Academy.

ADDRESS FOR REGISTRATION

CORDINATOR

Prof.Dr.Duradundi Sawant .Badkar

Professor,Dept. of Mechanical Engg.

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CO CORDINATOR

Prof.Supriya S. Nalawade.

Head Of the Dept Computer Science & Engg.

Email:atalfdp@sspmpcoe.ac.in

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RESOURCE PERSONS

► Dr.T.V.Vijaykumar

Professor
Jawaharlal Nehru University
New Delhi

► Dr. Arun Sharma

Professor and
HOD of Information Technology
Indira Gandhi Delhi Technical University
for Women (IGDTUW), Delhi

► Dr. R. K. Aggarwal

Dean & Professor
School of Computer & Systems Sciences,
Jawaharlal Nehru University
New Delhi

► Dr. Nagaraj Bnanapuramath

Professor, Mechanical Engg
KLE Technological University,
B.V.B, College Egg & Tech.
Hubballi, Karnataka

► Dr. Dinesh K.Vishwakarma

Associate Professor
Delhi Technological University,
Delhi

► Dr. Sanjay B. Ankali

Professor
Department Of Computer Science Engineering,
KLE Technological University
Belagavi, Karnataka

► Mr. Sushant Dagare.

Principal Consultant
Core Vision Technology
Saudi Arabia

► Dr. Duradundi Sawant .Badkar.

Principal SSPM's College of Engineering
Kankavli , Sindhudurg

CHIEF PERSONS

Hon'ble Shri Narayan Rane

Founder, SSPM, Member of Parliament\

Hon'ble Sou. Neelam Rane

Chairperson, SSPM

Hon'ble Shri. Nilesh Rane

Vice-Chairman, SSPM, MLA-Maharashtra State

Hon'ble Shri. Nitesh Rane

Secretary, SSPM, MLA-Maharashtra State

PATRON & CHAIRMAN

Dr. Duradundi Sawant Badkar,

Principal, SSPM's College of Engineering

CO ORDINATOR

Dr. Duradundi Sawant Badkar

Professor, Dept. of Mechanical Engineering

CO CORDINATOR

Prof. Mrs. Supriya S. Nalawade

Head Of Dept. Computer Science and Engg

