

## ABOUT COURSE

### What is this course about?

Sustainability is defined as the desire to perform activities without any depletion of resources or bringing any harmful effect on the environment. Practicing sustainable construction methods will help avoiding harmful effects from construction activities. Construction involves activities like use of building materials from various sources, use of machineries, demolition of existing structures, use of green fields, cutting down of trees etc. which can impact environment in one or more ways. Civil engineering field being the major part of the economy, it is very essential that sustainable construction practice dominate the past followed conventional construction practice and methods. The workshop aims to impart knowledge related to practices and mitigation measures which can be employed to reduce the impact of urban infrastructure

## COURSE CONTENTS

- Introduction to Sustainability and Circular Economy
- Sustainable Development Goals and Urban infrastructure
- Sustainable Technologies in Urban Infrastructure
- Introduction to climate change and strategies to mitigate it in urban areas
- BIM and GIS application towards sustainable development in urban infrastructure

## COURSE OUTCOMES

- After successful completion of FDP, learner will be able to
- Understand importance of sustainability in present context.
  - Understand sustainable development goals and their importance with respect to urban construction practices
  - Use applications of BIM and GIS towards sustainable development
  - Develop strategies to mitigate climate change in urban areas

## REGISTRATION PROCESS

- Participant can register for the course as per the specified process of AICTE Training and Learning (ATAL) Academy.
- Visit <https://www.aicte-india.org/atal> for registration
- Refer ATAL scheme document for assessment criteria to receive certificate and distinction

## RESOURCE PERSONS

The program will be conducted by eminent speakers from academia and industry.

## COURSE SCHEDULE

Duration : 8<sup>th</sup> – 13<sup>th</sup> January 2024      Timing  
: Offline (Monday to Saturday)  
09:00 am to 05:00 pm

## WHO SHOULD ATTEND THE COURSE

This course is useful for engineers of different disciplines aspiring towards sustainable growth in urban areas and using technology as the aid for the same. The course will be most beneficial for:

- Engineering post-graduates (B.E/BTechM.E./M. Tech. in Civil and Allied branches )
- Professionals from Civil and allied branches  
Faculty members from academic and research institutions
- PhD scholars

All India Council for Technical Education  
(AICTE) Training and Learning (ATAL)  
Academy  
Sponsored One Week Faculty Development  
Program On  
“Urban infrastructure, sustainability and  
Climate Change”

08<sup>th</sup> - 13<sup>th</sup> January 2024



## Coordinator

**Dr. Hansa Jeswani**

**HoD Civil and Associate**

**Professor**

**Civil Engineering Department**

**Organized By**

**Civil Engineering Department**

**Bhartiya Vidya Bhavan's**

**Sardar Patel College of Engineering**

(Government Aided Autonomous Institution)

Affiliated to University of Mumbai )

Telephone: 91-22-262 32 192 / 262 89 777 Fax:

91-22-262 37 819

website : [www.spce.ac.in](http://www.spce.ac.in)

## ABOUT THE INSTITUTE



Sardar Patel College of Engineering (SPCE) under the management of the Bhartiya Vidya Bhavan, was founded by Kulapati Dr. K. M. Munshi. It was established to meet the growing demand for engineering talent.

The foundation stone of the college was laid on 17th September 1961 by Shri. Y. B. Chavan (the then Chief Minister of Maharashtra who later became the Defence Minister of India.)

The college was inaugurated by the first Prime Minister of Independent India, Pandit Jawaharlal Nehru in 1962. The college is dedicated to Sardar Vallabhbhai Patel, an eminent nation builder of independent India.

The college is autonomous and affiliated to the University of Mumbai for the full-time degree, post graduate, and research programs. The institute has set high standards for aspiring engineering students and also meets the need of quality education in the challenging world of business.

Over the last 50 years the college has gained an excellent reputation in the field of Technical Education. SPCE is one of the few colleges that have received Grade 'A+' rating for its aided courses from the Govt. of Maharashtra which certifies the spirit of excellence that the institute has symbolized and always practiced. Institute celebrated its golden jubilee in the year 2012.

## CIVIL ENGINEERING DEPARTMENT

Civil Engineering Department of Sardar Patel College of Engineering commenced in 1962. The department offers undergraduate program (B. Tech

in Civil Engineering), two postgraduate programs (M. Tech. in Construction Management and M. Tech. in Structural Engineering) and a Ph.D. program.

All the programs of Department of Civil Engineering are awarded accreditation (tier-I) by NBA up to 30<sup>th</sup> June 2023.

The department has modern infrastructure with well-equipped laboratories and computational facilities with up-to-date hardware and software resources. The well qualified and experienced faculty of the department imparts knowledge to the students in the fundamental and applied aspects of Civil Engineering courses by adopting conventional as well as the latest teaching and assessment tools.

Department of Civil Engineering has also received the grant from Science and Engineering Research Board, Department of Science and Technology Government of India for executing research project in thrust areas.

## OBJECTIVES OF AICTE ATAL ACADEMY

- To set up an Academy which will plan and help in imparting quality technical education in the country
- To support technical institutions in fostering research & innovation and entrepreneurship through training
- To stress upon empowering technical teachers & technicians using Information & Communication Technology
- To utilize SWAYAM platform and other resource for the delivery of trainings
- To provide a variety of opportunities for training and exchange of experiences such as workshops, Orientations, learning communities, peer mentoring and other faculty development programs.
- To support policy makers for incorporating training as per requirements

## PATRON



**Dr. Sesa Iyer**  
Chairman, BoG,  
Sardar Patel College of Engineering



**Dr. M. M. Murudi**  
Principal In-charge,  
Sardar Patel College of Engineering

## ORGANIZING COMMITTEE

Dr. M. M. Murudi	Principal In-Charge
Dr. Anupa Sabnis	Dean Academics
Dr. Hansa Jeswani	Head of Civil Engineering Department
Dr. Hansa Jeswani	Course Coordinator
Dr. Reshma Raskar Phule	Course Co-Coordinator
Dr. Kshitija Nadgouda	Faculty, CED
Prof. Ankit Asher	Faculty, CED

## CONTACT FOR MORE INFORMATION

Dr Hansa Jeswani	hansajeswani.hod@gmail.com	9869120501
Dr. Reshma Raskar Phule	r_raskar@spce.ac.in	9167855430
Dr. Kshitija Nadgouda	knadgouda@spce.ac.in	9819188654
Prof. Ankit Asher	ankit.asher@spce.ac.in	7208731181