

## Annual Report Civil Engineering Department for the year 2023-24

### Introduction

The Civil Engineering Department has been in existence since the establishment of this institute. The department has excellent infrastructure and is AICTE-approved. Apart from the undergraduate programme, postgraduate programmes in construction management and structural engineering are offered. The department is approved by the University of Mumbai for the Ph. D. programme, with an intake capacity of 45. In addition, the department has been selected as a QIP centre by the AICTE. AICTE provides financial assistance for three years to the research scholars registered under QIP.

### NBA Accreditation

Undergraduate Civil Engineering Programme	Accredited till 30.06.2025
Post graduate Civil Engineering Programme with Structural Engineering	Accredited till 30.06.2026

### Department Activities

Dr Hansa Jeswani took over as Head Civil Engineering Department from 1<sup>st</sup> June 2023. NEP 2020 was implemented for 1<sup>st</sup> year UG with Regulation 2023 scheme and even for first year of PG programs with regulation 2023 scheme. NBA accreditation visits for PG (CM) and PG (SE) were undertaken in October 2023. The details of other activities are mentioned as follows.

- Site Visits arranged : 05 (Colaba Wastewater treatment Plant UG , Coastal road Visit UG and PG (CM and SE), Missing Link Project near Lonavla (PG SE), Ferrocement Factory (PG CM)).
- Lectures and Workshops arranged: 8 Guest Lectures and 5 workshops (2 Primavera MSP and BIM, EPANET and Jaltantra, GIS, GPS).

### Faculty Achievements

#### Special Achievements

- Dr Ajay Kambekar is mentoring Dr Suman Rawat (PDF fellowship) who jointly Recieved Grant under Research development- Department of Science and Technology (DST), Ministry of Science; Technology, Government of India for Women in Science and Engineering” WISE-PDF scheme ( January 2024)
- Dr Hansa Jeswani and Dr Reshma Raskar Phule organised ATAL FDP on Urban Infrastruction, Sustainability and Climate change from 8<sup>th</sup> to 13<sup>th</sup> January 2024.
- Dr. Reshma Raskar Phule received best paper award at ISG-ISRS symposium held at Symbiosis International University, Pune from 28-30 Nov 2023.
- Dr Ajay Kambekar’s co-supervised student Dr Sudipta Chakraborty was awarded PhD Degree for the Thesis titled Sea Level Rise Due to Climate Change and it’s

effect along the coast of Mumbai by The Assam Royal Global University

**Papers/Book Chapters Published by Faculty Members in Scopus index journals/Conferences or Books**

The following table shows the papers published by faculty in scopus index conference/journals

S No	Name of faculty	No. of Papers and Book Chapters published
1	Dr. Mohan Murudi	2
2	Dr Abhinandan Bage	2
3	Dr. Ajay Kambekar	1
4	Dr. Pravinchandra Gaikwad	2
5	Dr. Hansa Jeswani	3
6	Dr. Reshma Raskar	2+1 Book Chapter
7	Dr. Anil Ghadge	3
8	Dr. Kshitija Nadgouda	2
9	Prof. Snehit Kumbhar	2
10	Prof. Akshata Deshpande	1
11	Prof. Shweta Patil	1
12	Prof. Ankit Asher	3
Total		23

**Invited Lectures delivered by faculty in other campuses/colleges/industry**

**Dr. Ajay Kambekar**

- Delivered invited lecture as a resources person on United Nations SDG: Implementation through National Education Policy (NEP) at Fr. C. Rodrigues College of Engineering Bandra, Mumbai University on 21<sup>st</sup> November 2023
- Delivered an invited lecture on “Introduction to Climate Change” during ATAL AICTE training and Learning Academy sponsored programme on Management of natural Resources in view of Climate change on 01<sup>st</sup> January 2024 at Saraswati College of Engineering Kharghar, Navi Mumbai, Mumbai University.
- Delivered invited talk on “Artificial Intelligence for Sustainable Coastal and Ocean Developments” during workshop organized by Ocean Engineering Department of Civil Engineering, Indian Institute of Technology Bombay on 12<sup>th</sup> January 2024 at IIT Mumbai.
- Delivered an invited lecture on “Introduction to Climate Change” during short term training programme sponsored by Indian Society for Technical Education titled “Modern trends in design, construction, repairs and urban renewals” on 20 January 2024 Shri Vile Parle Kelwani mandals Shri Bhagubhai Mafatlal Polytechnic VileParle Mumbai.
- Delivered talk on “Applications of Remote Sensing in Development Engineering” during short term training programme titled “Applications of Latest Technologies in Engineering” sponsored by Indian Society for Technical Education at AI Kalsekar Technical Campus, Panvel Mumbai, University of Mumbai on 18 January 2024 at Mumbai.

- Delivered talk on “National Education Policy 2020” during short term training programme titled “Applications of Latest Technologies in Engineering” sponsored by Indian Society for Technical Education at AI Kalsekar Technical Campus, Panvel Mumbai, University of Mumbai on 18 January 2024 at Mumbai.

#### **Dr. Reshma Raskar Phule**

- Delivered 2 expert lectures and conducted workshop in GIS and Applications at Rizvi College of Engineering and VVP Engineering College Rajkot
- Dr Raskar Phule is invited faculty to take a course on GIS applications in Bhavan’s college for M.Sc students.

#### **Dr. Kshitija Nadgouda**

- Delivered Expert lecture at Shri Bhagubhai Mafatlal Polytechnic on basics of Geotechnical Engineering
- Delivered Expert lecture organized by ISTE student chapter of JSPM’s Rajarshi Shahu College of Engineering, Tathawade, Pune on “Lateral Earth Pressure and Soil Exploration”

#### **Prof. Ankit Asher**

- Delivered expert lecture in Kalsekar College on Practical applications of Structural Analysis

#### **Journal Reveiwers**

Dr Ajay Kambekar (21 journals), Dr Hansa Jeswani (02 journals), Dr Reshma Raskar Phule (02 journals), Dr. A. N. Ghadge(02 journals) and Dr Kshitija Nadgouda (01 journal) are reviewers of scopus indexed journals.

#### **Special Committee Member**

Dr Ajay Kambekar is a BOS member of Mumbai University, SVKMs MPSTME, SBM Polytechnic, DBATU state technical University. He is also an academic Audit Committee Member and Research Committee at DBATU and Amity University (Panvel). He was PhD Thesis reviewer for 5 thesis in various University. One of his co-guided student was awarded PhD that is Dr Chakraborty Sudipta: “Sea Level Rise due to Climate Change and Its Impact along the Coast of Mumbai” at Royal School of Engineering and Technology The Assam Royal Global University.

Dr Kambekar, Dr Jeswani and Dr Raskar Phule have organised competitions in SPCE under the aegis of UMA/UBA, Green Club and Sustainability and Green Initiative respectively. Dr Kambekar coordinated elocution competition in collaboration with the Airports Authority of India (AAI- A Central Public Sector Enterprise) and Sardar Patel College of Engineering as a part of Vigilance Awareness Week.

#### **Testing and Consultancy**

Most of the teaching faculty such as Dr Murudi, Dr Nagrale, Dr Bage, Dr Kambekar, Dr Gaikwad, Dr Jeswani, Dr Raskar-Phule, Dr. Ghadge, Dr Nadgouda, Prof. Snehit, Prof. Deshpande and Prof. Asher are involved in testing and consultancy. The special consultancy

taken up last year was related to MCGM, MBMC, NABARD, PWD and total revenue generated in past year is 1,75,85,900 INR.

### **FDP/NPTEL courses completed**

Dr Bage, Dr Gaikwad, Dr Jeswani, Dr Raskar-Phule, Dr Ghadge, Dr Nadgouda, Prof Snehjit Kumbhar, Prof Shweta Patil, Prof. Ankit Asher, Prof Kanchan Gupta completed 1 or 2 Faculty development programmes such as ATAL and NPTEL courses with total courses completed as 16 for the year.

### **Student/Alumni Achievements**

Mr Harsh Shrivastava (TYBTech) has secured 146<sup>th</sup> rank in Geomatics in GATE. Ms Aditi Nhavkar (2017 passout) received award 'SWARAJYA ABHIYANTA HIROJI INDULKAR' PURASKAR 2024 By Urban Development Department, Ministry Govt. of Maharashtra. Award granted by: Hon'ble Shri Eknathji Shinde, Chief Minister, Govt. of Maharashtra for excellence in engineering in government departments. Apart from it other achievements of present students are as follows

- No. of students who qualified GATE-2024: 10 (2 students (Third Year), 8 students (BTech))
- No. of students who got Campus Placement (2023-24) : 22 (BTech), 7 MTech (CM)+8 MTech (SE) (average package is 5.9 lpa)
- GRE given and waiting for admit : 02
- Workshop organised Through Civil Engg. Association : 03
- Expert Talk organised through GreenClub: 02
- Site Visit organised through CEA : 03
- Quiz competition :01 (Engineers Day)

### **Result Analysis for 2022-23**

The result analysis for BTech Civil Engineering and MTech Civil Engineering with Construction Management and MTech Civil with Structural Engineering

<b>Year</b>	<b>2022-23</b>
<b>FY BTech</b>	<b>65.67%</b>
<b>SY BTech</b>	71.23%
<b>TY BTech</b>	77.78%
<b>BTech (Final Year)</b>	100%
<b>MTech 1<sup>st</sup> Year (CM)</b>	84.2%
<b>MTech 2<sup>nd</sup> Year(CM)</b>	71%
<b>MTech 1<sup>st</sup> Year (SE)</b>	90%
<b>MTech 2<sup>nd</sup> Year (SE)</b>	94.5%