

News letter

January – June 2022

Civil Engineering Department

Program Outcomes

1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes

1	Ability to apply theoretical knowledge for specific field applications: a civil engineering graduate must be able to identify the constraints of a real world problem and must be able to decide appropriate combination of technology to resolve the problem. S/he must be able to implement the solution.
2	Ability to work with advanced equipment: a civil engineering graduate must be able to deal with advanced equipments used for various civil engineering applications for faster and precise observations.
3	Awareness about alternative and blended construction materials: natural materials are getting scarce and their over exploitation is causing environmental damages. A civil engineering graduate must be aware about the applications of alternative and blended construction materials which are more sustainable.

Program Educational Objectives

1	To carryout effective teaching (theory + experiment) fulfilling the syllabus requirements as well as covering relevant content beyond syllabus; to undertake good projects meeting demands of private/cooperative industrial sector, Governmental organization etc; and to arrange site visits for students to correlate the theoretical knowledge with real world.
2	To give a role model to the students for being good engineer, good citizen and good human being; and to enhance mass awareness regarding environmental friendly technology and life style.
3	To provide opportunities for the staff for career development within and off the institute; to enhance research facilities in the department; to extend consultancy services to various government and private organizations.

Guest Lecture

Er Bhagyashri Dusane, an alumna of 2010_11 passout batch, is presently working as a Town Planner, (Group A Gazetted) in department of town planning and valuation, GoM, Nashik interacted the students on February 17, 2022. She addressed the students online on. She talked on the theme 'Scope for civil engineers in town planning and valuation and job prospects in Government Sectors'. Students attended the session sitting in class room on smart board. She also motivated students through interaction.



Guest Lectures play very important role in the academics. They give a real world exposure to the students. They satisfy the Program Specific Outcomes of the course. Hence the department invites experts of diversified disciplines to interact with the students and share their experience and expertise.

Sometimes students may be hesitant in sharing their expressions with the Teachers and experts. Yet they are comfortable with the seniors. Hence the department also organizes alumni interaction sessions for students who guide and motivate the students.

Site visit

Steel Structures is an important component of syllabus in Third year civil engineering course named 'Structural Engineering'. It includes design and analysis of several structural components. The railway workshop of Manmad is a suitable site where the students can see variety of steel structures at one place.

The visit was held on April 28, 2022. It was coordinated by Prof Pankaj Punase the concerned subject teachers. Two buses were hired by students contribution for this visit. The workshop authorities were kind enough to explain the structures. They also arranged refreshment for the students. Along with students the teachers engaged were Prof P R Punase, Prof Pratik Sisodiya, Prof Ganesh Ahire, Prof Gauri Kale and Prof Kavita Jadhav. 108 students attended the visit. They learnt various aspects of steel structural analysis, design and joining using advanced machines



Site visit

Pre stressing is an important component of syllabus in final year civil engineering course named 'Advanced Concrete Structural Analysis and Design'. The prestressing work is going on four lanning of National Highway no. 6. Some of the over bridges and river bridges are being constructed using pre stressing technology. Hence it was decided to take the student to this site because this site is quite close to the college (around 35 km) and the Deputy Project Director Er Arvind Kale is doing his Ph D from this college. So he extended his cooperation. The visit was held on March 31, 2022. It was coordinated by Dr P A Shirule, the concerned subject teachers. Site selected was 'Fly Over Bridge in Tarsod to Fagne Section of NH 6 from km 422.7 to km 510.0 in the state of MS National Highway 6. Three buses were provided by the college for this visit. The highway authorities nicely explained the process of pre stressing by post tensioning. They also arranged refreshment for the students.



Consultancy and extension service



The civil engineering department extends consultancy services to various Government and private organizations like PWD, Central Railways, Western Railways, Municipal Corporation, Jilha Parishad and Contractors. It includes material testing, Bearing capacity determination, mix design, third party verification, structural audit etc. During 2021 – 2022 the department generated a revenue of Rs 4000000/- through consultancy and material testing work.

Jalgaon city is observing road construction and renovation work at large scale. With an objective of third party technical and critical review, the Divya Marathi Daily formed a panel of civil engineers. Prof M Husain and Prof P A Shirule represented in the panel. The finding were published as a news in the daily.

Mile stone 2022



Mile stone is a paper presentation event basically being organized since year 2000 in the college. It has gradually incorporated so many technical events to add fun as well as knowledge for the students

Freshers welcome and farewell to seniors

The life in the campus of a college is like a life on satellite. Though connected with the rest of the world, yet complete in itself. Hence it not only focuses on the academics, it does some efforts to add the moments of fun and joy as well as liveliness to the life in premises. The department organizes under its students association a Fresher's Party for newly coming students as well as Farewell party for outgoing students. Owing to corona the activity was not done in past two years. So students decided to do a common Fresher's welcome and Farewell party this time.

The activity was held on April 16TH, 2022. It was coordinated by Dr P A Shirule. Students volunteers Mr Sanket Patil, Mr Devendra Patil and Mr Madhusudan Wani under took the task effectively. It included a formal session in the seminar Hall, followed by lunch and DJ at parking place near temple. Students enjoyed the event a lot. Teachers also shared the fun full moments.



Theme based days

Theme based days were celebrated on March 28, 29, 30 and April 1. On April 13TH, traditional day was celebrated. Prof Pawan Wani coordinated the events.

Symbol of peace was drawn on hands by students to express unity and resistance against the Ukraine war.

Academic developments

- A Project titled “Low cost Sewage Treatment” under the scheme Rajiv Gandhi Science and Technology Commission of Government of Maharashtra funding worth Rs 200000/- has been sanctioned. Prof M Husain is CoPI in the same.
- Prof Ms S B Patil submitted her draft thesis to the university.

Placements

SN	Name of company visited	Number of students selected	Pay package
1	Stinger Drafting Jalgaon	7	2.66 lacs
2	Soni & Associates, Jalgaon	4	0.96 lacs
3	Aditya Construction, Jalgaon	5	0.96 lacs
4	INFOSYS	7	3.6 IACS