



# ASHOKRAO MANE POLYTECHNIC VATHAR

## DEPARTMENT OF CIVIL ENGINEERING

### NEWS LETTER: TECHNOZEAL

VOL-9: ISSUE-1, JUNE 2023 to DECEMBER 2023



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#### THEME : CONSTRUCTION SAFETY

#### INSTITUTE VISION:

Achieve excellence in quality technical education to create competent technocrats with ethical and social responsibilities for the betterment of society.

#### MISSION

**M1-** To provide a scholarly and vibrant learning environment that enables students to achieve professional growth.

**M2-** To impart quality technical education with emerging technology to fulfill industrial requirements.

**M3-** To develop culture for holistic development of an individual including social as well as ethical responsibilities.

**M4-** To strengthen relationship with industries for empowering the students to work in adverse conditions.

#### ABOUT INSTITUTE

Shri Balasaheb Mane Shikshan Prasarak Mandal Ambap's, Ashokrao Mane Polytechnic (AMPV) was established in 2008 and is located near Kolhapur. This Institute has AICTE approval for the Six Diploma courses. AMPV has emerged as a leading technological Institute to promote Technical Education for rural communities. It provides modern educational facilities to mold young and talented students who can compete in the global arena. Institute endeavors to offer a holistic education with values and ethics imparted to students allowing them to pursue successful careers growth. This institute is a perfect destination for Quality & Outcome based technical education

#### CHIEF EDITOR:

- MR. A. B. WARKE

#### EDITOR COMMITTEE:

- MRS. M. A. CHAVAN
- MR. D. B. MAHADESHWAR
- MISS. D. S. SANADE
- MR. H. S. CHOUGGLE

#### DEPARTMENT VISION

Strive to develop competent civil engineers, with academic excellence, knowledge and quality education to make significant contributions in holistic growth of society.

#### MISSION

- m1-** To impart quality education with strong experimental knowledge.
- m-2** -To provide knowledge of emerging technology and modern materials knowledge in all sectors to make them nationally recognizable civil engineer
- m-3-** To provide a dynamic learning environment that emphasis on problem solving skills, team work, and communication and leadership skills.
- m-4-** To train students with soft skills and other training programs for their future jobs and higher studies.

#### ABOUT DEPARTMENT

The department of civil engineering was started in the academic year 2009-2010 with an aim of promoting high quality education in the field of civil engineering. The Department is NBA Accredited in the year 2017. The academic activities of the department emphasize deep understanding of fundamental principles, development of creative ability to handle the challenges of civil engineering and the analytical ability to solve the problems which are interdisciplinary in nature. The department currently offers diploma in civil engineering program affiliated to the Maharashtra State Board of Technical Education, Mumbai (MSBTE) curriculum. Every year technical symposium REFLEX is organized for students to explore the knowledge and interact with students of other colleges. Department magazine is being published yearly to develop and improve their inter personal skills. Different technical and Non technical events are conducted under civil engineering student association (CESA). The Civil Engineering Students Association (CESA) is working effectively to contribute towards societal development and to conduct new events for the students. And to help the society.



MESSAGE FROM  
PRINCIPALS DESK



Dear Readers,

Best wishes for the New Year It's a prideful moment to interact with the readers on the start of the new year. Newsletter is an initiative by department which has a specific purpose in it. The contribution made so far by the teachers, students, academicians and industrialists has compelled to promote such moves in the era of emerging technologies such as Construction safety, artificial intelligence, machine learning, internet of things, etc. Newsletter is also acting as a medium to convey messages about its vision and values along with future strategies and plans. The Newsletter has a unique theme Robotics, which is widely used now a days, I appreciate the editing team, which is putting efforts of compiling various news about diploma education system in department along with views and information about a relevant theme and disseminating it to a cohesive community of stakeholders -students, faculty, parents, administrators, institutes, industry and community at large - through this Newsletter.

**Prof. Y. R. Gurav**  
**Principal, AMP Vathar**

MESSAGE FROM  
EDITORS DESK



Construction industry is currently growing with latest technologies and now there is a huge demand for civil engineers for satisfying the demand of infrastructural development. Civil engineers will always be needed to maintain and repair existing facilities and structures and to construct new ones. The service of civil engineers is inevitable in the entire government department in the modern race. Not only in government department but also in private and public sector industries, research and educational institutions etc. This college provides excellent quality education and working condition. The department has well equipped laboratories to perform experiments and endeavor to provide better technical facilities in days to come. Our focus is on excellence teaching and training the students with emphasis to well equip them for challenges and opportunities. It gives immense pleasure to lead the Department of Civil Engineering. Our college is one of the leading institutions unique like a prism reflecting the manifold shades of learning and co-curricular activities. The Department is striving hard towards the goal of providing innovative and quality education with high standard to achieve academic excellence. Excellent infrastructure, well equipped laboratories, teaching faculty of the best kind ensures quality education and bright future of students.

**Mr. A. B. Warke**  
**Head Department of Civil Engineering**

## CHANDRAYAN 3



Inauguration of Chandrayan 3 Model by Principal Prof. Y. R. Gurav and all Head of departments



Team Behind Success of Chandrayan 3 Model- Mr. A. B. Warke (HOD) and Staff



Model of Vikarm Lander



Model of LVM3 -M4 Rocket

Chandrayaan is India's successful attempt to achieve a soft landing on the southern pole Moon's Surface. India is the only country to reach This part of the moon, so far. To mark this great technological success and to create awareness about Galaxy among students, Our civil engineering department made a model of chandrayaan with Rocket launcher, Lander and Rover on the occasion of Engineers day 15th September 2023. In this model soft landing of Vikram lander showed.

**WATER TREATMENT PLANT**

Civil Engineering Department had organized a field visit on 5<sup>th</sup> october 2023, for third year student to water treatment plant at **KASABA BAWADA KOLHAPUR** as a part of public health engineering subject. During this visit Mr. Ravindra Sawant who is in charge of treatment plant explained total working and various components of water treatment plant. In this visit student understood the whole process of water purification along with the components of water treatment plant.

**SEWERAGE TREATMENT PLANT**

Civil Engineering Department had organized a field visit on 5<sup>th</sup> oct 2023, for third year student to sewage treatment plant at **KASABA BAWADA KOLHAPUR** as a part of public health engineering subject. Sewage is a type of waste water from households and industrial waste. The aim of sewage treatment plant is to remove contaminants from sewage to produce an effluent that is suitable to discharge to the surrounding environment, their by preventing water pollution from raw sewage discharges.

### TRAFFIC VOLUME STUDY

A visit to study the traffic volume at intersection was conducted for third & second Year students at **KAWALA NAKA KOLHAPUR ON 25<sup>TH</sup> AUGUST 2023**. Through this visit the students learned to evaluate the traffic flow at intersection. Traffic volume studies are conducted to determine the number, movements and classifications of roadway vehicles at a given location. These data helps to identify critical flow time periods, determining the influence of large vehicles or pedestrians on vehicular traffic flow.



### RADHANAGARI DAM



As per requirement of MSBTE curriculum a visit of Second year and Third year students was arranged on 25<sup>th</sup> October 2023. Our students visited the **RADHANAGARI DAM** site and Power house at downstream of dam. The purpose of the visit was to make students familiar with experience of field work and to get practical knowledge of directing water through dams, distribution of water and hydroelectric power generation.

## SCHOOL CONNECT PROGRAM



School Connect is a program undertaken by Maharashtra State Board of Technical Education (MSBTE) for 10<sup>th</sup> Standard Students to bring about a desired change, raise awareness or promote ideas about the Diploma Courses, and its various branches. Faculties from department of civil engineering Mr. A. B. Warke, Ms. K.M. Sapkal and Mrs. M. A. Chavan visited different school to create awareness among about technical education and its importance.



**CONSTRUCTION SAFETY**

Construction site safety is an aspect of construction-related activities concerned with protecting construction site workers and others from death, injury, disease or other health-related risks. Everyone working on a construction site must wear protective gear as per the manufacturer's specifications, such as helmets, safety glasses, sturdy shoes, etc. No one should visit the site without a hard hat and knowledge of how to be safe there. Construction safety is a principle adhered to and enforced by construction safety managers. It is the result of safe equipment usage, worker protection from hazards, regular site inspections and risk assessments. A key component of construction safety is compliance with the safety and health regulations of the region. So, it is super important for every worker to wear Personal Protective Equipment (PPE). To minimize injuries from such accidents, the workers are required to wear gloves, safety goggles (aka safety glass), knee pads, hard hats, earmuffs, respirators, and vests whenever needed.

**Mr. D. B. Mahadeshwar**  
Lecturer,  
Civil Engineering  
Department



Safety on the construction site is vital to protecting workers, protecting the public, and keeping the job running on time. By creating a culture of safety in your company, you can protect yourself and your clients from these risks. Whether you are developing HSMS, conducting a safety awareness workshop, or redesigning a general safety program, you must consider the 5 components of workplace safety

- education,
- encouragement,
- engineering,
- enforcement and
- Evaluation.

Let's break down each of these safety elements one by one. People are safer on the job than at home. We work hard to create a culture where you can communicate your needs, state your limits, and say "No" Your safety is our priority. We are committed to safety because we are committed to you.

**Mr. V. S. Surve**  
Lecturer, Civil Engineering  
Department

## CONSTRUCTION SAFETY



**Miss. Diya Salim Sanade**  
**Third Year Student**  
**Civil Engineering Department**

Safety Happens in Systems. Injuries in construction do not just happen because someone is careless one day. Whether it is out in the field or in the community college classroom, safety depends on systems that are established by leadership at colleges and by contractors out on the job site. CTE administrators and instructors in construction programs are critical to establishing Safety and Health Management Systems that will protect and prepare new and young construction workers.. Construction safety is essential to the projects sustainability, as it reduces the environmental impact and provides a healthy and safe living environment for the projects residents. These includes, but is not limited to, providing proper disposal of hazardous waste and materials



**Mr. Harshad Sarkar Chougule**  
**Second Year Student**  
**Civil Engineering Department**

Construction safety is a principle adhered to and enforced by construction safety managers. It is the result of safe equipment usage, worker protection from hazards, regular site inspections and risk assessments. A key component of construction safety is compliance with the safety and health regulations of the region. Though construction is known to be one of the most dangerous industries and generally involves high-risk activities, it may be helpful for construction safety managers to know what to look out for and pay extra attention to so that they can ensure that workers remain safe and protected from harm. To achieve this, construction safety managers can use a digital tool such as a mobile construction site inspection app with specific checklists for each risk.



"Safety rules are your best tools – follow them." "Stay alert, stay alive – focus on the task at hand." "Take regular breaks to maintain focus and prevent fatigue." "Always wear your Helmets safety shoes – at work."



## ACADEMIC TOPPERS

## THIRD YEAR



PATIL VISHWAJIT SANTOSH

88.4%

1ST



KHARADE ABHISHEK UMESH

84.58%

2ND

## SECOND YEAR



SANADE DIYA SALIM

80.36%

1ST



PATIL KIRAN KRUSHNAT

76.21%

2ND

## CAMPUS PLACEMENT-KOLBRO GROUP, MUMBAI



KANERE PRABHAT MAHESH



PATVEGAR ARSH ALLABAKSH



SAWANT VISHAL PRAKASH



CHAVAN AKASH VILAS

Above student selected by **KOLBRO GROUP, MUMBAI** as trainee engineer on an annual salary package of 2.1 LPM.

**CONGRATULATIONS**

## STAFF ACHIEVEMENTS

**Mrs. M. A. Chavan**  
Appreciated for Best Performance in  
Academic year 2022-23

## AMRIT KALASH YATRA



The “AMRIT KALASH YATRA” event was inaugurated by Hon. Principal Prof. Y. R. Gurav all HOD’s and NSS coordinator Mr. M. S. Patil and departmental coordinator were present. The NSS Department of Ashokrao Mane Polytechnic, Vathar organized “AMRUT KALASH YATRA” event on 13<sup>th</sup> October 2023. About 150 Students & Staff spontaneously participated in this event. By organizing such event, Ashokrao Mane Polytechnic, Vathar. Made great contribution for the society.

## FIRE SAFETY TRAINING



NSS committee of Ashokrao Mane Polytechnic, Vathar had arranged the “Fire safety training (Demo on awareness and handling of fire extinguishers)” under the National Service Scheme. The event was carried out by cooperation of the entire NSS committee member, staff and students dated on 13<sup>th</sup> October 2023 as per the guidelines in circular of Maharashtra state board of technical education.

The “Fire safety training (Demo on awareness and handling of fire extinguishers)” event was inaugurated by Hon. Principal Prof. Y.R.Gurav , all HOD’s and NSS coordinator Mr.M.S.Patil and departmental coordinator. In this event nearby 150 students was participated and staff spontaneously. The event was conducted with great enthusiasm and pleasure. By organizing such event in Ashokrao Mane Polytechnic makes great contribution towards social development.

## SUCCESS STORY



*Mr. Abhinay Rajaram Ubale.*

**2017-18 Batch**

Myself Mr. Abhinay Rajaram Ubale. I was a student of Diploma Civil Engineering in the year 2017-18. The journey spent in Ashokrao mane polytechnic was very elegant. Experienced staff, fulfilled Laboratories and quality technical education, helped me to grow personally and further instrumental in my professional carrier as well. All the theory as well as practical session was supported by real time example from industries which helped me to understand the concept easily. All the staff was cooperative and experienced. Today i am a government contractor having different work experienced in Irrigation work, Road works and Building works. I always recommend students to join Ashokrao Mane Polytechnic as they really help students to grow in terms of knowledge with professional attributes Wishing AMP Vathar to continue the good work for building a strong society.

**Thinking of Engineering? Think AMP...!!**



*Miss. Vidya Vijaysinh Ghatge*

**2014-15 Batch**

Myself Miss. Vidya Vijaysinh Ghatge. I was a student of Diploma Civil Engineering in the year 2014-15. My college helped me to grow personally further instrumental in my professional carrier as well abundant facilities in labs which would give hand on experience on equipment, and also help in vision and right approach towards life. All the faculty members supporting staff treated as with a lot care which always made us feel as if we are at home. My best wishes are always with this institute and hope that the good work continuous . Today i am a working in **INDOVANCE PVT LIMITED** as BIM modular. I earn 5.2 L per annum. I always recommend students to join Ashokrao Mane Polytechnic as they really help students to grow in terms of knowledge with professional attributes Wishing AMP Vathar to continue the good work for building a strong society.

## CONCLUSION

This news letter is based on construction safety theme which is essential aspect of any construction project. By prioritizing safety, the risk of accidents and the injuries in the work place is significantly reduced. This not only prevent employees from suffering physical harm but also minimizes the financial burden , medical bills and compensation. This news letter covered faculty views, student views related with construction safety, It also covered departmental activities conducted for students improvements.

## THEME OF THE NEXT ISSUE - EMERGING TRENDS IN CIVIL ENGINEERING



*Thank  
you* 

The responsibility of the authenticity of the information in this newsletter lies with the author. views express by the author are solely their they nighter the views of civil engineering nor are they endorsed by civil engineering. Edited, printed and publish by civil department.