



# ASHOKRAO MANE POLYTECHNIC

## DEPARTMENT OF CIVIL ENGINEERING

### NEWSLETTER: TECHNOZEAL



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#### THEME:

## DRONE SURVEYING

#### ABOUT INSTITUTE

Shri Balasaheb Mane Shikshan Prasarak Mandal Ambap's, Ashokrao Mane Polytechnic, Vathar Tarf Vadgaon (AMPV) was established in 2008 and is located near Kolhapur. This Institute has AICTE approval for the Seven Diploma courses. Under the visionary leadership and administration, AMPV has emerged as a leading technological institute and is perfect destination for quality technical education. The institute has NBA accredited Programmes, 100% placements in MNCs, best academic results, well established labs. The institute was also honoured with notable awards like Best Engineering College in Maharashtra by ABP Maza, National Excellence Award by Indian Society for Technical Education and State level Vidyasevak award by Anna Bhau Sathé Prathisthan.

AMP believes in providing students with hands-on training that will further hone their technical skills with soft skills. We believe in giving our students, the competitive advantage in the business world. The institute always encourages students to create innovative projects through which students have developed different scaled, engineering and architectural models.

Apart from the prescribed curriculum by the MSBTE, our college structures customized special programs based on specific requirements of the industry with a focus on priorities. Periodic quality audits are conducted to ensure effective teaching, class room management, efficient documentation and judicious review of teaching learning process. The institute is also having good placement infrastructure and consistent history of great placements.

The institute is always engaged in community development through NSS programs like Eco friendly Ganesh Visarjan, Tree Plantation, Fire safety awareness program and Charity work.

#### DEPARTMENT VISION

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

#### DEPARTMENT MISSION

- m1 - To impart quality education with strong experimental knowledge.
- m2 - To provide our students with the latest learning techniques and modern materials knowledge in all sectors to make them nationally recognizable civil engineers.
- m3 - To provide a dynamic learning environment that emphasizes problem-solving skills, team work, and communication and leadership skills.
- m4 - 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 academic activities of the department are emphasized by deep understanding of fundamental principles, development of creative ability to handle the challenges of civil engineering, and the analytical ability to solve the problems that are interdisciplinary in nature. The department currently offers a diploma in Civil Engineering, a program following the Maharashtra State Board of Technical Education, Mumbai (MSBTE) curriculum. The teaching is assisted with the digitized presentations for better understanding of the students. Industrial visits are arranged for students to gain practical experience. Every year a technical symposium, REFLEX is organized for students to explore the knowledge and interact with other college students. The department magazine is published yearly to develop and improve their interpersonal skills. The students are motivated by development programs like CESA (Civil Engineering Students Association). The Civil Engineering Students Association (CESA) is working effectively to share the information and to help the society.



## MESSAGE FROM PRINCIPAL'S DESK



**Dr. Y. R. Gurav**  
Principal,  
Ashokrao Mane Polytechnic,  
Vathar Tarf Vadgaon

Dear Readers,

Best wishes for the new edition. This newsletter is an initiative by the Civil Engineering Department which has a specific purpose in it. The contribution made so far by the teachers, students, academicians, and industrialists has compelled us to promote such moves in the era of new technologies such as Artificial Intelligence, Machine Learning, Internet of Things (IoT), etc. This newsletter is also acting as a medium to convey messages about its vision and values along with future strategies and plans. This newsletter has a unique theme: "Drone Surveying", the trend that is widely adopted nowadays in the construction industry. I appreciate the editing team, which is putting efforts into compiling various news about the diploma education system in the 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 the community at large—through this newsletter.



**"CIVIL ENGINEERING IS THE ART OF DIRECTING THE GREAT SOURCES OF POWER IN NATURE FOR THE USE AND CONVENIENCE OF MANKIND."**

## MESSAGE FROM HOD'S DESK



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

Dear Readers,

With great excitement and enthusiasm I present to you this special edition of our Civil Engineering Department newsletter, where we delve into the innovative and rapidly advancing field of Drone Surveying—a technology that is transforming the way we approach surveying, mapping, and data collection in civil engineering projects.

As we continue to push the boundaries of what is possible in construction, infrastructure development, and urban planning, drone surveying has emerged as a game-changer. With their ability to capture high-resolution aerial imagery, LiDAR data, and 3D models, drones are now integral to efficient surveying practices. They provide unparalleled precision, reduce human error, increase safety by minimizing direct interaction with hazardous environments, and significantly cut down project timelines and costs.

In this edition, you will find insightful articles, case studies, and research highlights that showcase how drone surveying is revolutionizing civil engineering.



**"CIVIL ENGINEERS TURN IMAGINATION INTO INFRASTRUCTURE, CONNECTING PEOPLE AND POSSIBILITIES."**



ENGINEERS DAY CELEBRATION



The inauguration of the "Palm City Model and Burj Khalifa Model" by Dr. Y. R. Gurav, Principal Ashokrao Mane Polytechnic, Vathar tarf Vadgaon.



VIEW OF PALM CITY DURING DAY



VIEW OF PALM CITY DURING NIGHT

VIEW OF BURJ KHALIFA BUILDING



On the occasion of Engineers' Day, the Civil Engineering Department organized a grand celebration to honor the contributions of engineers to society. The highlight of the event was the meticulous and innovative models of the Burj Khalifa and Palm Island, created by a team of civil engineering students. These models showcased their creativity, technical knowledge, and dedication to engineering excellence.

The aim of the event was to inspire innovation, demonstrate the importance of civil engineering in shaping the modern world, and pay tribute to legendary engineer Sir M. Visvesvaraya.



## GURU PURNIMA CELEBRATION



The students and faculty of the Civil Engineering department came together to celebrate the auspicious occasion of Guru Purnima, a day dedicated to expressing gratitude and respect toward teachers and mentors. The event witnessed enthusiastic participation from students, staff, and invited guests. The highlight of the event was an inspiring keynote address by Mr. P. T. Hasbe [Academic Coordinator], who emphasized the role of teachers in shaping students' lives and fostering a culture of lifelong learning. The speaker shared valuable insights into the traditional Guru-Shishya relationship and its relevance in today's modern world.

The Guru Purnima celebration was a heartfelt tribute to the guiding lights of our lives, leaving everyone with a renewed sense of respect and admiration for their teachers. The event truly embodied the spirit of gratitude and reverence, making it a memorable day for all.

### WORKSHOPS ARRANGED FOR STUDENTS

#### BUILDING MODELLING USING REVIT SOFTWARE



The Department of Civil Engineering successfully organized a two-day workshop on the topic "Building Modeling Using Revit Software." The workshop was designed to introduce participants to the fundamentals of Building Information Modeling (BIM) and to provide hands-on training in using Autodesk Revit, a leading software for architectural design and construction modeling.

The workshop was led by Mr. Dhaval Bagawade, Owner of CADD Center, Kolhapur, an expert in BIM and Revit software. The workshop provided hands-on experience, enabling students to design and analyze their own building models. Participants expressed their enthusiasm and appreciated the practical approach, which bridged the gap between academic knowledge and industry application.

#### ESTIMATION OF BUILDING COST USING EXCEL



The Department of Civil Engineering successfully organized a two-day workshop on the topic "Estimation of Building Costs Using Excel Software." The workshop aimed to equip students with practical knowledge and skills in cost estimation for construction projects using Microsoft Excel.

The workshop was conducted by Mr. P. S. Koli of Shri Swami Samarth Training Academy Peth Vadgaon. With years of experience in construction management and cost estimation, the expert provided participants with valuable insights into the role of Excel as a tool for effective project planning and cost analysis. The workshop provided hands-on experience, enabling students to design and analyze their own estimation models. Participants expressed their enthusiasm and appreciated the practical approach, which bridged the gap between academic knowledge and industry application.

INDUSTRIAL VISIT ARRANGED FOR STUDENTS

VISIT TO WATER TREATMENT PLANT AND SEWAGE TREATMENT PLANT



An industrial visit was arranged for third year civil engineering students by civil engineering department at the Municipal Corporation Water Treatment Plant Kasaba Bawada, Kolhapur, & Sewage Treatment Plant Kolhapur.

The purpose of the visit to the Water Treatment Plant and Sewage Treatment Plant was to enhance the students' understanding of the practical aspects of water and wastewater treatment processes. It aimed to provide first-hand exposure to the mechanisms involved in purifying drinking water and managing wastewater.



VISIT TO READY MIX CONCRETE PLANT



A industrial site visit was organized for Civil Engineering students at Unitech Ready Mix Concrete Plant Shiye, Kolhapur. The primary objective of the visit to the Ready-Mix Concrete Plant was to provide civil engineering students with practical exposure to the manufacturing process of ready-mix concrete, a material widely used in construction projects. The visit aimed to bridge the gap between theoretical knowledge and real-world application, highlighting the significance of concrete production in large-scale construction, its quality control measures, and the technology involved in modern concrete batching systems.





SCHOOL CONNECT PROGRAM



A school connecting program was arranged for 10th class students from nearby high schools to showcase to them the various activities being conducted in the institute.

NSS ACTIVITY

TREE PLANTATION



NSS committee of Ashokrao Mane Polytechnic, Vathar had arranged the “Tree Plantation (Vrukshotsav)” under the National Service scheme (NSS) on Wednesday, 19 June 2024 as per the guidelines in the circular of Maharashtra State Board of Technical Education (MSBTE), Mumbai. In the presence of Principal Dr. Y. R. Gurav, NSS In-charge Mr. V. S. Surve, departmental coordinators, & students of Ashokrao Mane Polytechnic, Vathar, were present during the “Tree Plantation (Vrukshotsav)” activity.

FIRE SAFETY TRAINING



NSS committee of Ashokrao Mane Polytechnic, Vathar had arranged the “Fire Safety Training (Demo on awareness and handling of fire extinguisher)” under the NSS. The event was carried out done by the cooperation of the entire NSS committee members, staff and students as per the guidelines in the Maharashtra state board of technical education. The “Fire Safety Training (Demo on awareness and handling of fire extinguisher)” event was inaugurated by Hon. Principal Dr. Y. R. Gurav, all HODs, NSS in charge Mr. V.S. Surve and the departmental coordinators.



NSS ACTIVITY

HAR GHAR TIRANGA



"Har Ghar Tiranga Abhiyan" (Campaign) is an initiative under the larger Azadi Ka Amrit Mahotsav, launched by the Government of India to commemorate 75 years of India's independence. The campaign encourages citizens to display the national flag (Tiranga) at their homes to celebrate the spirit of patriotism and unity. The Har Ghar Tiranga Abhiyan was widely successful in its launch and has become a significant part of Independence Day celebrations in India.

ECO-FRIENDLY GANESH VISARJAN



The National Service Scheme (NSS) of Ashokrao Mane Polytechnic organized an initiative titled "Eco-Friendly Ganesh Visarjan and Nirmalya Collection Campaign," aimed at promoting environmental awareness and sustainability during the Ganesh Chaturthi festival. This activity was led by NSS coordinators and volunteers across various local locations, emphasizing the importance of eco-friendly practices.

NSS ACTIVITY

EK PED MAA KE NAAM



The "Ek Ped Maa Ke Naam Abhiyan" is a unique initiative that allows individuals to plant trees in the name of their mothers, combining environmental action with a personal touch. As part of this campaign, students of Ashokrao Mane Polytechnic Vathar Tarf Vadgaon took the initiative to participate individually, planting saplings at their homes, in local parks, or in nearby areas. The event aimed to foster a sense of responsibility towards the environment while celebrating the nurturing spirit of mothers.

DIWALI FARAL DISTRIBUTION



The Diwali Faral Distribution event was organized by the NSS Club with the aim of spreading the spirit of Diwali to underprivileged communities and individuals in our vicinity. The purpose of the event was to ensure that even the marginalized sections of society could enjoy the festive season by providing them with a nutritious meal during the celebrations.

## FACULTY'S SPEAK

**REVOLUTIONIZING SURVEYING WITH DRONE TECHNOLOGY**

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

In recent years, technological advancements have significantly reshaped the civil engineering landscape, and drone surveying stands out as a transformative innovation. As a faculty member deeply engaged in the evolving practices of engineering education, I am thrilled to highlight the remarkable potential of drone technology in modern surveying.

Drones, or Unmanned Aerial Vehicles (UAVs), have introduced unprecedented precision, efficiency, and accessibility in data collection for surveying tasks. Traditional methods, while reliable, are often labor-intensive and time-consuming. Drone surveying not only accelerates the process but also enables us to access difficult or hazardous terrains with ease and safety.

The integration of drones equipped with high-resolution cameras and LiDAR technology allows for the generation of accurate topographic maps, 3D models, and orthophotos. These outputs are invaluable for a wide range of applications, including infrastructure planning, environmental monitoring, and disaster management. Furthermore, the ability to capture real-time data provides engineers and planners with actionable insights, fostering better decision-making.

At our institution, we recognize the importance of staying at the forefront of technological advancements. Introducing students to drone surveying techniques is not just about enhancing their technical skills—it's about preparing them for a future where innovation drives the construction and planning industries. By familiarizing students with drones and related software, we empower them to embrace smart and sustainable practices in their professional endeavors.

Drone surveying also aligns with global trends toward sustainability. The reduced manpower and equipment requirements, combined with minimal environmental impact, make it a greener alternative to conventional methods.

**TRANSFORMING SURVEYING WITH THE INTEGRATION OF AI AND DRONES**

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

In the age of rapid technological evolution, the fusion of Artificial Intelligence (AI) and drone technology is redefining the way we approach surveying and mapping. As a faculty member passionate about equipping students with cutting-edge knowledge, I am excited to discuss how this integration is revolutionizing the civil engineering and geospatial industries. Drone surveying, by itself, has brought incredible efficiency and precision to data collection, enabling access to remote and challenging terrains while reducing time and labor. When combined with AI, the potential of drones transcends conventional boundaries, unlocking capabilities that were once unimaginable.

AI algorithms allow drones to process vast amounts of data in real time, transforming raw images and LiDAR scans into actionable insights. Tasks like identifying patterns, detecting anomalies, and generating highly accurate 3D models can now be automated, saving significant time and minimizing human error. This capability is particularly beneficial for large-scale projects, such as infrastructure planning and environmental monitoring. AI-powered drones can autonomously adjust flight paths, optimize data collection strategies, and even detect changes in surveyed areas over time. For example, in construction site monitoring, AI algorithms can analyze drone-captured images to assess progress, detect safety hazards, or identify structural discrepancies with unparalleled accuracy.

While the integration of AI and drones presents exciting opportunities, it also comes with challenges, including data privacy, ethical considerations, and the need for regulatory frameworks. These challenges call for a collaborative approach among educators, industry leaders, and policymakers to ensure responsible and sustainable use of these technologies.



## STUDENT'S SPEAK

### EXPLORING THE WORLD OF PHOTOGRAMMETRY



**Mr. Devraj S. Suryawanshi**  
Student  
Second Year Civil Engineering

Photogrammetry, a fascinating blend of science and technology, has opened new horizons for surveying and mapping. As a

diploma student deeply interested in the field of civil engineering, I am excited to share my thoughts on how photogrammetry is shaping the way we perceive and analyze the world around us.

Photogrammetry, simply put, is the art and science of extracting measurements and creating maps from photographs. Using overlapping images captured from different angles, this technique generates precise 3D models of objects, terrains, or structures. The integration of advanced tools like drones, high-resolution cameras, and specialized software has further enhanced the capabilities of photogrammetry, making it an indispensable tool in various industries. In civil engineering, photogrammetry plays a vital role in projects like road alignment, topographic surveys, and urban planning. For instance, aerial photogrammetry helps create accurate digital elevation models (DEMs) and orthophotos, which are crucial for infrastructure development. Beyond engineering, it finds applications in archaeology, agriculture, environmental monitoring, and even film production, where realistic 3D environments are created. As students, learning photogrammetry has been an exciting journey. It has taught us how to collect and process data using cutting-edge software like Auto CAD Civil 3D and Agisoft Metashape. Understanding the intricacies of image overlap, ground control points (GCPs), and coordinate systems has deepened our appreciation for the precision required in engineering tasks. One of the biggest advantages of photogrammetry is its efficiency. It allows us to survey large areas quickly and with incredible accuracy. Unlike traditional methods, it minimizes physical effort and maximizes safety by enabling remote data collection.

### LIDAR TECHNOLOGY – ILLUMINATING THE FUTURE OF SURVEYING



**Mr. Harshad S. Chougule**  
Student  
Third Year Civil Engineering

As diploma students in civil engineering, we are constantly learning about technologies that are revolutionizing the way we

approach infrastructure development and planning. One such transformative technology is LIDAR (Light Detection and Ranging), which has become a game-changer in the field of surveying and mapping.

LIDAR is a remote sensing technology that uses laser pulses to measure distances with remarkable precision. By emitting light beams and analyzing their reflection, LIDAR generates detailed 3D representations of terrains, structures, and even vegetation. Mounted on drones, airplanes, or vehicles, it enables the collection of vast amounts of data quickly and accurately.

The versatility of LIDAR makes it a valuable tool in a wide range of industries. In civil engineering, it is widely used for creating topographic maps, planning road alignments, and monitoring construction sites. In environmental studies, LIDAR helps in mapping forests, studying erosion patterns, and assessing flood-prone areas. In urban planning city planners use LIDAR for designing smart cities and managing utilities. In disaster management, it aids in post-disaster assessments, such as mapping earthquake-affected regions or landslides.

While LIDAR technology is groundbreaking, it does have some limitations. The cost of equipment and processing tools can be high, and the technology requires skilled professionals for effective implementation. However, as the technology evolves, these challenges are gradually being addressed, making LIDAR more accessible and affordable. The integration of LIDAR with drones, artificial intelligence (AI), and Geographic Information Systems (GIS) is paving the way for even more innovative applications. From smart cities to autonomous vehicles, LIDAR is set to play a central role in shaping the future.

## INDUSTRY EXPERT'S SPEAK

## THE FUTURE OF SURVEYING WITH DRONE TECHNOLOGY



**Mr. Rahul Kale,**  
**Director,**  
**Geomatics & Biophysical**  
**Solution Services Pvt. Ltd.**  
**Kolhapur**

As industry professionals in the field of civil engineering, we have witnessed the remarkable evolution of technology that is shaping the way we approach surveying and data collection. One such technology that has garnered immense attention in recent years is drone surveying, or UAV (Unmanned Aerial Vehicle) surveying. This innovation has significantly improved the accuracy, efficiency, and cost-effectiveness of surveying practices.

Drones have revolutionized surveying by providing a faster, more efficient, and safer alternative to traditional methods. Equipped with high-resolution cameras, LiDAR sensors, and GPS technology, drones can capture aerial imagery, generate 3D models, and provide detailed maps in a fraction of the time required by conventional methods. This is particularly valuable for large-scale projects or hard-to-reach areas where ground-based surveying would be time-consuming, expensive, and sometimes dangerous.

Drone surveying has a broad range of applications that extend beyond civil engineering. Drones are used to generate highly accurate topographic maps and digital elevation models (DEMs), essential for planning and designing infrastructure. Drones provide real-time data on project progress, allowing engineers to track work completion, measure volumes, and identify potential issues.

The future of drone surveying is incredibly exciting. The integration of drone data with Geographic Information Systems (GIS) and Building Information Modeling (BIM) will create a seamless workflow for project management, making construction projects even more efficient and accurate. At the same time, as the technology becomes more accessible, we anticipate widespread adoption across industries, leading to greater innovation and improved practices.

## THE FUTURE OF DRONE SURVEYING IN INDIA



**Er. Pravin K. Mohite**  
**Mohite Contractores**  
**Government Survey**  
**Contractor, Kolhapur**

In India, the rise of drone surveying is poised to reshape the way we approach infrastructure development, urban planning, and environmental management. With the country's growing demand for efficient and cost-effective surveying solutions, drone technology is set to become a key player in India's development story.

India, with its vast geographical expanse, diverse landscapes, and rapidly expanding urban areas, faces unique challenges in traditional surveying methods. Conventional approaches, often labor-intensive and time-consuming, are not always feasible for large-scale projects or in areas with difficult terrain. Drone surveying, with its precision, efficiency, and ability to access hard-to-reach locations, is becoming the perfect solution for India's growing infrastructure and development needs.


The Government of India has already taken steps to regulate and promote drone use through initiatives like the National Civil Aviation Policy and the Draft Drone Rules 2021. These regulations are paving the way for the safe and efficient integration of drones into various sectors. In the future, we can expect further regulatory clarity and the introduction of drone corridors, enabling wider adoption across industries, from agriculture to construction and urban planning. India's push towards creating Smart Cities will drive the demand for more advanced surveying technologies. Drones, equipped with cameras, LiDAR sensors, and other imaging tools, will play a crucial role in mapping out urban areas, creating detailed 3D models, and monitoring the progress of construction projects. With India's rapidly growing infrastructure sector, including roads, bridges, railways, and airports, drone surveying is expected to become a staple for site surveys, land acquisitions, and progress tracking.



ACADEMIC TOPPERS SUMMER 2024


THIRD YEAR CIVIL ENGINEERING

**1st Rank**




**Miss. Sanade Diya Salim 86.44%**

**2nd Rank**



**Miss. Patil Kiran Krushnat 83.89%**


**3rd Rank**



**Miss. Malavi Prajwal Prakash 78.89%**


SECOND YEAR CIVIL ENGINEERING

**1st Rank**




**Mr. Chougule Harshad Savakar 84.25%**

**2nd Rank**



**Mr. Landage Abhijeet Annaso 74.13%**


**3rd Rank**



**Mr. Lambe Vaibhav Sunil 66.25%**


FIRST YEAR CIVIL ENGINEERING

**1st Rank**




**Miss. Mahadik Samrudhi Sandip 80.78%**

**2nd Rank**



**Mr. Dange Pruthviraj Dilip 77.17%**

**3rd Rank**



**Mr. Suryawanshi Devraj Sachin 76.98%**

FACULTY'S ACHIEVEMENT



Our prestigious faculty Mrs. Manisha Abhijeet Chavan Presented her Review paper on “Celebrating 75 Years of Innovation: A Review of Schmidt Rebound Hammer Applications and Developments” at “5th International Conference on Advanced Technologies for Societal Applications-TECHNO SOCIETAL - 2024” organized at ,Shri Vithal Education and Research Institute (SVERI) Pandharpur.



Our faculty Mr. Jaydeep Madhukar Jadhav has completed short term training program conducted by “National Institute of Technical Teachers’ Training and Research, Bhopal” (NITTTR) for the subject Essence of Indian Constitution

TECHNOZEAL

## SUCCESS STORY



**Ar. Shubham M. Yadav**  
**Junior Architect**  
**Vastu Architects**  
**Pune**

**"BUILDING MY FUTURE, BRICK BY BRICK:  
HOW AMP SHAPED MY CAREER"**

As I look back on my journey from being a student in the Civil Engineering Department at AMP to where I stand today, I can confidently say that this institution laid the foundation for my success, just as we engineers lay the foundation for every great structure. My experiences here didn't just prepare me for a career—they prepared me for life.

The Civil Engineering Department was the foundation of my education. The rigorous curriculum, combined with practical exposure, ensured that I gained in-depth knowledge of structural analysis, design, and construction. The experienced faculty members were more than teachers—they were mentors who instilled in me a passion for learning and encouraged me to think critically and innovate. Success isn't just about technical knowledge; it's also about leadership, communication, and teamwork. Through the many extracurricular activities, technical fests, and student clubs, I developed these essential life skills. Whether it was organizing events, participating in debates, or leading project teams, the opportunities at AMP helped me grow holistically.

Today, as a Junior Architect at Vastu Architects, Pune, I apply the knowledge, skills, and values that I gained at AMP every single day. Whether it's designing high-rise buildings or managing large infrastructure projects, the foundation laid during my college years has been instrumental in shaping my career.

To the Civil Engineering Department and the college as a whole, thank you for believing in me and giving me the tools to succeed. You didn't just teach me how to build structures—you taught me how to build a future.

**THEME FOR NEXT ISSUE :**

**ADVANCED BUILDING MATERIALS**



The responsibility of the authenticity of the information in this newsletter lies with the author. Views expressed by the author are solely theirs; they are neither the views of civil engineering department nor are they endorsed by civil engineering department. Queries, comments, feedback, and information may be sent to [ampcivil2009@gmail.com](mailto:ampcivil2009@gmail.com). Edited, printed and published by Mr. A. B. Warke, HOD, Civil Engineering Department, Ashokrao Mane Polytechnic, Vathar Tarf Vadgaon, 416112, Website: [www.amietv.org](http://www.amietv.org).