



# AISSMS



**POLYTECHNIC**



AY 2023-24 Issue I

Staff Editors: Mr. G.M.

Nagane, and Mr. M. S.  
Bhave

Student Editor:

Alphanso Brandon, (TY  
AE Student )Published

by:Automobile  
Engineering

**Our  
Polytechnic  
is a Centre  
of Academic  
Excellence!**

## **Vision, Mission and Objectives of AISSMS Polytechnic.**

### **VISION:**

Achieve excellence in quality technical education by imparting knowledge, skills and abilities to build a better technocrat.

### **MISSION:**

- Empower the students by inculcating various technical and soft skills.
- Upgrade teaching-learning process and industry-institute interaction continuously.

### **OBJECTIVES:**

- To inculcate learning habits in students by project based learning.
- To strengthen all the departments by encouraging faculty development.
- To motivate students for personality development, career guidance and encourage the spirit of team work.
- To strengthen industry – institute interaction and develop entrepreneurship skills.



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## **Vision, Mission and Objectives of Automobile Engineering Department**

VISION:

“To achieve excellence in technological and social aspects of automobile engineering.”

MISSION:

- Comprehensive development of student by using state of art infrastructural facilities.
- Development of engineering mind-set within the students.
- Continuous enhancement of skill sets of student and faculty through industry-institute interaction.
- Imparting social and ethical values among the students.

PEO:

- Provide socially responsible, environment friendly solutions to Automobile engineering related broad-based problems adapting professional ethics.
- Adapt state-of-the-art Automobile engineering broad-based technologies to work multi-disciplinary work environments.
- Solve broad-based problems individually and as a team member communicating effectively in the world of work.



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## ABHIYAAN

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### COVER STORY

- **Metro starts running in Pune**

- **Multi disciplinary work environments**

- **Inside Pages:**

**Activities of Department such as Industrial Visit, Expert lectures, etc.**



## Metro starts running in Pune !

Pune Metro additional section was inaugurated by Prime Minister Narendra Modi on 1/8/2023

Pune Metro is a mass rapid transit system serving the city of Pune, India. The system comprises 3 lines with a combined length of 54.14 km [of which 21.75 km on two lines are operational as of August 2023]. The 16.59 km (Purple line from PCMC Bhavan to Swargate runs on an elevated viaduct between PCMC Bhavan to Range Hills, from where it goes underground. The Aqua line runs from Vanaz to Ramwadi covering a distance of 14.66 km (9.11 mi) on an elevated viaduct. The 23.33 km elevated Line 3 will run from the Rajiv Gandhi Infotech Park in Hinjawadi via Balewadi to Civil Court. All three lines will align at the Civil Court interchange station.

The foundation stone for the Purple and Aqua lines was laid by prime minister Narendra Modi in December 2016. The two lines with a combined length of 31.25 km are being implemented by the Maharashtra Metro Rail Corporation Limited (Maha Metro), a 50:50 joint venture of the state and central governments. Sections of the purple and aqua lines were inaugurated in March 2022. Additional sections on both lines became operational in August 2023. Line 3 is being implemented by Pune Metropolitan Region Development Authority (PMRDA) and the joint venture between Tata Realty and IRB on a public-private partnership basis. While the foundation stone for Line 3 was laid in December 2018, construction could only commence in November 2021 due to delays in land acquisition.





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# System Specifications of Pune Metro



## Inside Story Headline

Top Speed: 80 kmph  
Average Speed: 34 kmph  
Track Gauge: Standard Gauge – 1435 mm  
Electrification: 25 kV, 50 Hz AC OHE  
Signalling: Communications-based Train Control (CBTC)  
Key Figures  
Operational: 23.83 km | Under Construction: 30.75 km | Approved: 4.41 km | Proposed: 26.46 km  
Daily Ridership: 70,000 / day (August 2023)  
Rolling Stock: 104 coaches (26 train-sets x 4) to be supplied by Titagarh-Firema for Phase I  
Pune Metro Under Construction Lines (Phase I + Line-3)  
Line-1 (Purple Line): Pimpri Chinchwad Municipal Corporation (PCMC) – Swargate  
Length: 16.589 km  
Type: Elevated & Underground

Elevated: PCMC – Range Hills Ramp – 1.570 km, 9 stations  
Underground: Range Hills Ramp – Swargate: 5.019 km, 6 stations  
Depot: Range Hills (13.27 hectares)  
Number of Stations: 14  
Station Names: PCMC, Tukaram Nagar, Bhosari, Kasarwadi, Fugewadi, Dapodi, Bopodi, Khadki, Range Hill, Shivaji Nagar, Civil Court, Budhwar Peth, Mandai, Swargate  
Line-2 (Aqua Line): Vanaz – Ramwadi  
Length: 14.665 km  
Type: Elevated  
Depot: Hill View Depot at Kothrud (12 hectares)  
Number of Stations: 16  
Station Names: Vanaz, Anand Nagar, Ideal Colony, Nal Stop, Garware College, Deccan Gymkhana, Sambhaji Park, PMC, Civil Court, Mangalwar Peth, Pune Railway Station,

Ruby Clinic, Bund Garden, Yerawada, Kalyani Nagar, Ramwadi  
Line-3: Hinjawadi – Civil Court  
Length: 23.33 km  
Type: Elevated  
Depot: Maan Village (20 hectares)  
Number of Stations: 23  
Station Names: Megapolis Circle, Embassy Quadron Business Park, Dohler, Infosys Phase II, Wipro Phase II, Pall India, Shivaji Chowk, Hinjewadi, Wakad Chowk, Balewadi Stadium, NICMAR, Ram Nagar, Laxmi Nagar, Balewadi Phata, Baner Gaon, Baner, Krushi Anusadhan, Sakal Nagar, University, R.B.I., Agriculture College, Shivaji Nagar and Civil Court.  
Note: Official color not yet assigned; shown in red in maps below.  
(An article by Alphanso Brandon from TY AE)



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# Pune Metro brings good days for us!

Pune, a city in western India, has recently seen the launch of its metro system, which has brought about a host of benefits for its residents.

One of the most obvious benefits of the Pune metro is the ease and convenience it brings to commuters. Prior to the launch of the metro, many residents of Pune relied on buses and private vehicles to get around, which often resulted in traffic congestion and long commutes. With the introduction of the metro, however, commuters can now travel quickly and efficiently to their destinations, without having to deal with the stress and frustration of traffic jams.

The Pune metro also has a positive impact on the city's economy. With the metro in place, it is now easier for people to get to and from work, which has led to an increase in productivity and job opportunities. In addition, the metro has also made it easier for residents

to access shopping, entertainment, and other amenities, which has helped to boost the local economy.

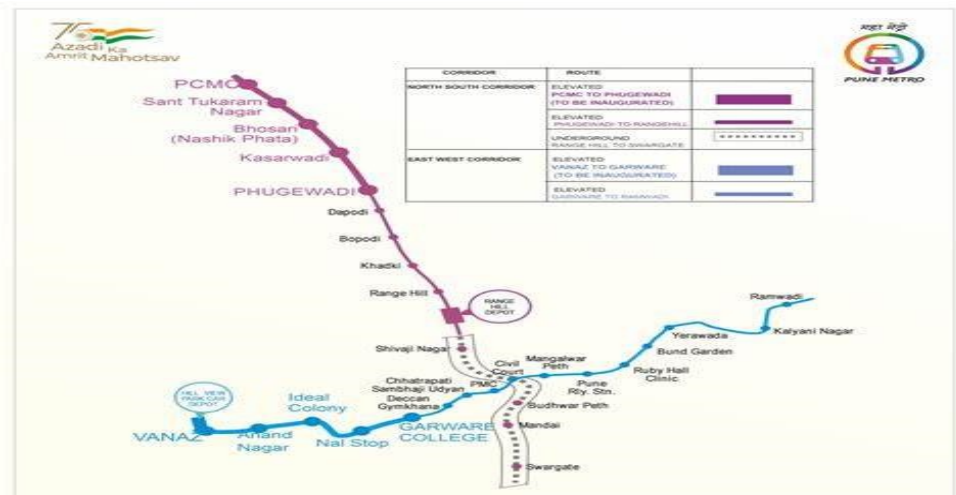
Another benefit of the Pune metro is the positive impact it has on the environment. The metro is a clean and efficient mode of transportation, which helps to reduce the amount of pollution and greenhouse gas emissions in the city. This is particularly important for a city like Pune, which has been struggling with air pollution in recent years. In addition, the metro also encourages people to use public transportation instead of private vehicles, which further helps to reduce the city's carbon footprint.

The Pune metro is also helping to improve the quality of life for residents in the city. With the metro in place, it is now easier for people to access healthcare, education, and

other essential services. In addition, the metro has also helped to improve the safety and security of residents, as it has reduced the number of private vehicles on the road, which in turn has reduced the risk of accidents.

In conclusion, Pune's metro system has brought about a host of benefits for its residents, including improved convenience, increased productivity, a boost to the local economy, a reduction in pollution, and an overall improvement in the quality of life. With the metro up and running, Pune is well on its way to becoming a more livable, sustainable and modern city. Overall, the benefits of Pune metro are undeniable and it will continue to make a positive impact on the lives of Pune's citizens for years to come.

(An article by Raj Kenoni)  
(TY AE)



# Working in Multi disciplinary Teams

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Multidisciplinary teams are work groups made up of different professional types. Although it originated in the health sector, this approach is now in use in many other markets. Through multidisciplinary teams, companies guarantee professionals more autonomy as well as creative, innovative solutions for new demands

When you bring together a diverse group of individuals with different skills, attitudes and ways of doing things, it won't be a surprise that things don't always run like clockwork. But you can't underestimate the importance of teamwork and effective team collaboration – it's vital to the success of any organisation.

Here are some tips to help you build collaborative multidisciplinary teams.

### 1. Understand who does what and why:

Members of a multidisciplinary team will have different qualifications, training, and methods of working. This can create a 'them and us' culture, which isn't good for team spirit. It's not only vital that everyone has a good understanding of their own role, but that they appreciate what others do too. Better understanding between team members goes a long way to ease any tensions that might have crept into your workplace.

### 2. Learn from each other:

Having a team made up of people with different skills and ideas is a huge opportunity for all employees to broaden their knowledge. When your teams are collaborating, they're continually learning new things from each other. Using IT enabled tools like Workplace can help teams bounce ideas off each other through virtual brainstorming sessions in project groups. Members should give instant feedback to suggestions which can help foster creativity and aid personal growth.

### 3. Respect other points of view

Bringing together people with different backgrounds and skills can cause conflict and personality clashes. There may also be a tendency to look down on certain roles within the group. Teams should recognize that one goal of team collaboration is enabling every member to bring different viewpoints and skills to help achieve common goals. Encourage your team to celebrate differences and not dismiss them.

4. Prevent power It's often difficult to know who has the most authority in multidisciplinary teams.

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# Multi disciplinary team building

## 4. Prevent power struggles

It's often difficult to know who has the most authority in multidisciplinary teams. Certain team members may have more status than others. Some may compete for control and egos may get in the way at team meetings. Others can feel marginalized if they don't feel the team hold their discipline on an equal footing. In a team environment, no one individual is always the boss. Leaders have to learn to follow.

## 5. Cut the confusing jargon

Workers often use jargon and catchwords that become second nature to them. But phrases that might be clearly understood by certain groups within the team may be completely mysterious for others. So make sure your teams cut the jargon and use simple language. The same goes for any technical aspects of the project that may need explaining.

## 6. Build a community within the workplace:

Forging strong relationships at work can aid collaboration significantly. Create opportunities for your teams to bond. Ex. online team building exercises, playing games, arranging field visits or events for whole day.

## 7. Use the right communication tools

There are so many great online collaboration tools available that can help bring teams together. Instant messaging services are raising the standard. Studies show that adoption of these tools helps increase team collaboration by 49% and productivity by 45%. Business platforms that include an instant messaging service can help you connect everyone in the team wherever they are. This keeps people in the loop and helps build and maintain team cohesion for the lifetime of the project and beyond.

(An article by Prof. M.S.Bhave, Sr.Lecturer,AE Department)



# Activities of Department

## Expert Talks List

YEAR	ACTIVITY	Month and year
2023-24	Expert talk on Importance of ISO in Industry	29/08/2023
	Expert talk on Importance of PPE's and Workshop Safety	21/09/2023

## Industrial Visit List

YEAR	ACTIVITY	Month and year
2023-24	Visit to Indradhanushya Environment and Citizenship Center, Pune	07/09/2023

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# Activities of Department

## Extra Curricular Activity List

YEAR	ACTIVITY	Month and year
2023-24	Meri Maati Mera Desh	09/08/2023
	Teacher's Day	05/09/2023
	Blood Donation	12/09/2023
	Engineers Day	15/09/2023



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