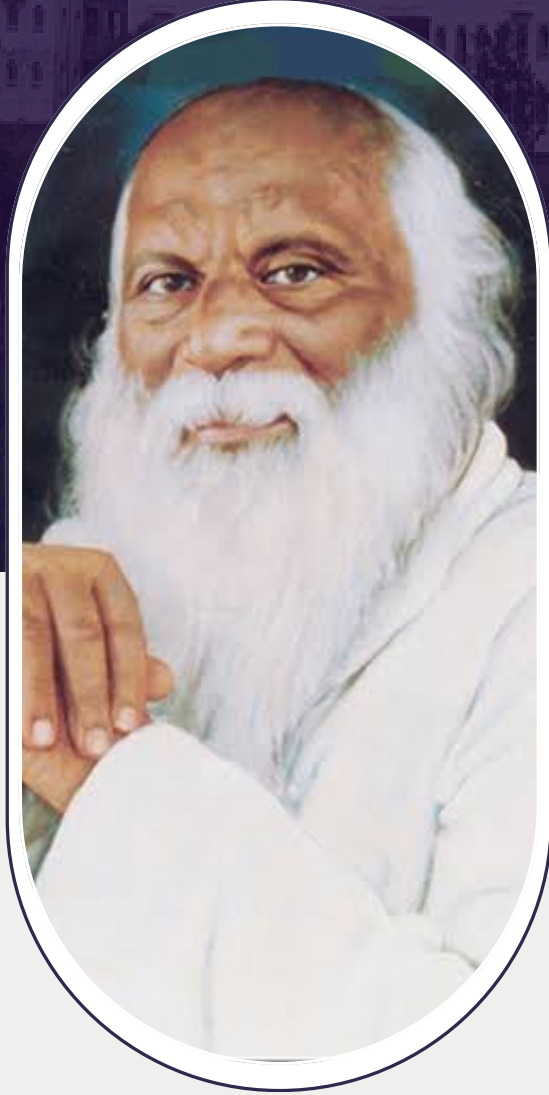




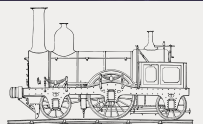
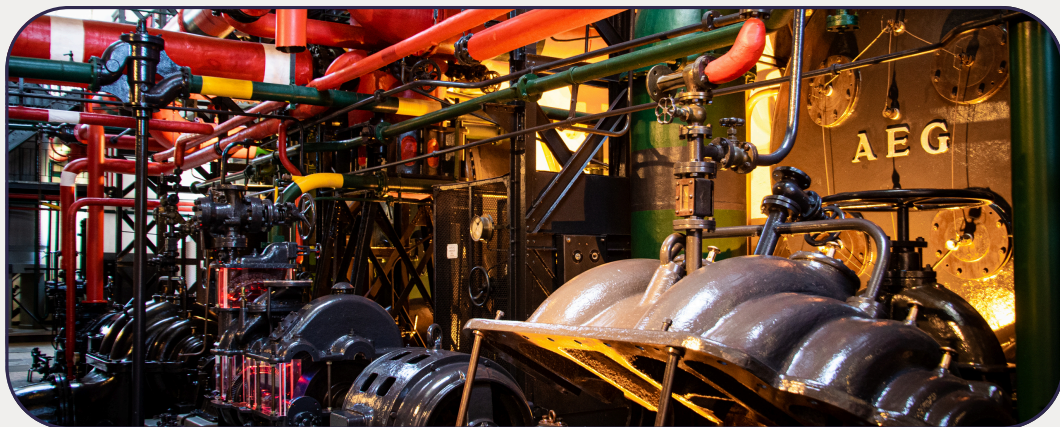
Rayat Shikshan Sanstha's

**Karmaveer Bhaurao Patil
Polytechnic Satara**

**Information
Brochure**
(माहिती पुस्तिका)



**Diploma in
Mechanical
Engineering**



Institute Vision

To become the leading institute for developing skillful technocrats with societal, environmental and high values by imparting quality technical education for strengthening the industry.

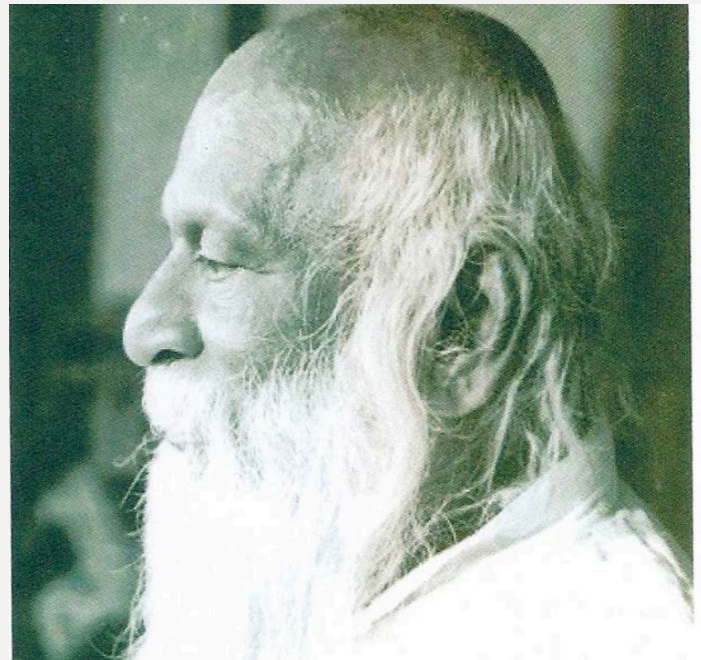
Institute Mission

M1: To impart technical knowledge and skill by using modern engineering tools and technique.

M2: To develop students for current industry and society needs by industry-institute interaction.

M3: To inculcate ethical and professional values among students that will make them socially and environmentally responsible.

M4: To motivate students towards lifelong learning and helping them to find right career opportunities.



Department Vision

To provide quality education in Mechanical Engineering, promoting technical expertise, ethical values and environmental awareness to meet industry and societal needs.

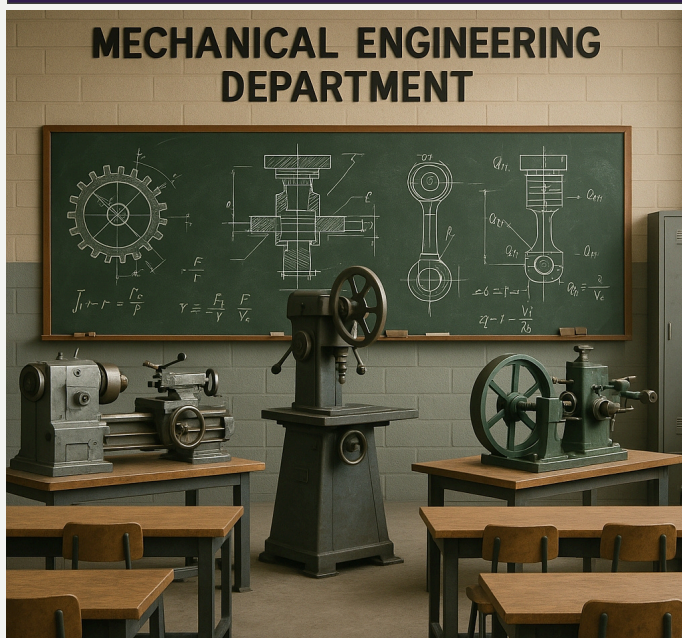
Department Mission

M1: To provide technical knowledge and hands-on skills in Mechanical Engineering using modern tools and techniques.

M2: To develop students for recent industrial and societal requirements through industry-institute collaboration.

M3: To impart ethical values, professional responsibility, and environmental awareness for eco-friendly engineering solutions.

M4: To motivate students toward lifelong learning, skill enhancement and career development in Mechanical Engineering.



About Mechanical Engineering Department



Year of Establishmnet : 1983		
Intake Capacity : 60	DTE Code : 6406	MSBTE Code : 0041
Affiliated to : Maharashtra State Board of Technical Education, Mumbai		

Mechanical Engineering is one of the oldest and broadest branches of engineering. It involves the design, development, and maintenance of machines and mechanical systems. Core subjects include thermodynamics, fluid mechanics, and strength of materials. Mechanical engineers work in industries like automotive, aerospace, manufacturing, and energy. They are also involved in automation and robotics. The field requires strong problem-solving and analytical skills. With growing technology, the demand for mechanical engineers is consistently high. It offers a stable, creative, and rewarding career with wide opportunities for advancement.

यांत्रिकी अभियांत्रिकी ही अभियांत्रिकीच्या जुन्या आणि व्यापक शाखांपैकी एक आहे. यात यंत्रे आणि यांत्रिक प्रणालींची रचना, विकास आणि देखभाल यांचा समावेश होतो. या शाखेतील मुख्य विषयांमध्ये Thermodynamics, Fluid Mechanics आणि Strength of Materials यांचा समावेश होतो. यांत्रिकी अभियंते वाहननिर्मिती, अवकाश, उत्पादन आणि ऊर्जा यांसारख्या उद्योगांमध्ये काम करतात. तसेच, ऑटोमेशन आणि रोबोटिक्स क्षेत्रातही त्यांचा सहभाग असतो. या क्षेत्रात उत्कृष्ट विश्लेषणात्मक व समस्या सोडवण्याच्या कौशल्यांची आवश्यकता असते. तंत्रज्ञानाच्या वाढत्या वापरामुळे यांत्रिकी अभियंत्यांची मागणी सातत्याने वाढत आहे. ही शाखा एक स्थिर, सर्जनशील आणि भरघोस संधी असलेली कारकीर्द प्रदान करते.

MSBTE RATING

Academic Year	MSBTE Departmental Rating
2011-12	Excellent ★★★★★
2012-13	Excellent ★★★★★
2013-14	Excellent ★★★★★
2014-15	Very good ★★★★★☆
2015-16	Very good ★★★★★☆
2016-17	Very good ★★★★★☆
2017-18	Excellent ★★★★★
2018-19	Excellent ★★★★★
2019-20	Very good ★★★★★☆
2021-22	Very good ★★★★★☆
2022-23	Excellent ★★★★★
2023-24	Excellent ★★★★★

"Mechanical Engineering department has proudly achieved an **Excellent** Grade from MSBTE 07 times over the past 12 years — a reflection of consistent academic quality and dedicated efforts."

First Year Syllabus

First Year First Semester

ME1K

SR	SUBJECT	TH	PR	SLA
01	BASIC MATHEMATICS	✓		✓
02	COMMUNICATION SKILLS (ENGLISH)	✓	✓	✓
03	BASIC SCIENCE	✓	✓	✓
04	FUNDAMENTALS OF ICT		✓	✓
05	YOGA AND MEDITATION		✓	✓
06	ENGINEERING WORKSHOP PRACTICES		✓	
07	ENGINEERING GRAPHICS		✓	

First Year Second Semester

ME2K

SR	SUBJECT	TH	PR	SLA
01	APPLIED MATHEMATICS	✓		✓
02	APPLIED SCIENCE	✓	✓	
03	ENGINEERING DRAWING	✓	✓	✓
04	ENGINEERING MECHANICS	✓	✓	✓
05	MANUFACTURING TECHNOLOGY	✓	✓	✓
06	PROFESSIONAL COMMUNICATION		✓	
07	SOCIAL AND LIFE SKILLS			✓

Second Year Syllabus

Second Year Third Semester

ME3K

SR	SUBJECT	TH	PR	SLA
01	STRENGTH OF MATERIALS	✓	✓	
02	FLUID MECHANICS AND MACHINERY	✓	✓	✓
03	THERMAL ENGINEERING	✓	✓	✓
04	PRODUCTION DRAWING	✓	✓	✓
05	BASIC ELECTRICAL AND ELECTRONICS		✓	
06	ESSENCE OF INDIAN CONSTITUTION			✓
07	COMPUTER AIDED DRAFTING		✓	
08	FUNDAMENTALS OF PYTHON PROGRAMMING		✓	

Second Year Fourth Semester

ME4K

SR	SUBJECT	TH	PR	SLA
01	ENVIRONMENTAL EDUCATION AND SUSTAINABILITY	✓		✓
02	THEORY OF MACHINES	✓	✓	
03	METROLOGY AND MEASUREMENT	✓	✓	✓
04	MECHANICAL ENGINEERING MATERIALS	✓	✓	✓
05	PRODUCTION PROCESSES	✓	✓	
06	ENTREPRENEURSHIP DEVELOPMENT AND STARTUPS		✓	✓
07	BASICS OF MECHATRONICS		✓	
08	CNC PROGRAMMING		✓	

Third Year Syllabus

Third Year Fifth Semester

ME5K

SR	SUBJECT	TH	PR	SLA
01	EMERGING TRENDS IN MECHANICAL ENGINEERING	✓		
02	POWER ENGINEERING	✓	✓	✓
03	AUTOMOBILE ENGINEERING	✓	✓	
04	SEMINAR AND PROJECT INITIATION COURSE		✓	✓
05	INTERNSHIP(12 WEEKS)		✓	
06	POWER PLANT ENGINEERING	✓	✓	

Third Year Sixth Semester

ME6K

SR	SUBJECT	TH	PR	SLA
01	MANAGEMENT	✓		✓
02	INDUSTRIAL HYDRAULICS AND PNEUMATICS	✓	✓	
03	DESIGN OF MACHINE ELEMENTS	✓	✓	✓
04	INDUSTRIAL ENGINEERING AND QUALITY CONTROL	✓	✓	✓
05	3D MODELLING AND ADDITIVE MANUFACTURING		✓	
06	CAPSTONE PROJECT		✓	✓
07	ALTERNATIVE ENERGY SOURCES AND ENERGY MANAGEMENT	✓	✓	

TH - Theory Exam
SA TH - 70 Marks
FA TH - 30 Marks

PR - Practical
SA PR - 25/50 Marks
FA PR - 25/50 Marks

SLA- Self Learning
Assessment
25 Marks

Our Faculty Members



Mr. Sameer Shivaji Yewale

Head of Department
M.E. Heat Power Engineering
Experience: 12 Years

Mr. Kishor Babanrao Dhanawade

Workshop Superintendent
M.E. Heat Power Engineering
Experience: 11 Years



Mr. Prathamesh Vijay Zore

TPO
B.E. Mechanical Engineering
Persuing (M.Tech - Mech/ Prod)
Experience: 12 Years

Mr. Ravindra Vasant Kumbhar

Lecturer
B.E. Mechanical Engineering
Persuing (M.Tech -Mech/ Prod)
Experience: 10 Years



Ms. Komal Haribhau Sakhare

Lecturer
B.E. Mechanical Engineering
Persuing (M.Tech- Design Engg)
Experience: 10 Years

Our Faculty Members



Mr. Rahul Santosh Mane

Sports Incharge
B.E. Production Engineering
Persuing (M.Tech -Mechanical Engg)
Experience: 10 Years

Mr. Omkar Amrut Khairmode

Lecturer/ DMESA Coordinator
M. Tech Mechanical Engineering (Heat
Power)
Experience: 10 Years



Mr. Pratik Rajendra Deshmane

Lecturer
B.E. Mechanical Engineering
Experience: 01 Years



Mr. Sabar Karim Shaikh

Lecturer
B.E. Mechanical Engineering
Experience: 01 Years

Non-Teaching Faculty

01	Mr. Arvind G. Bodhe	Tech. Asst.
02	Mr. Ramesh S. Shinde	Tech. Asst.
03	Mr. Prakash B. Bhise	Instructor
04	Mr. Bharat V. Jadhav	Peon
05	Mr. Sunil V. Dangare	Peon
06	Mr. Vinayak S. Gholap	Peon

Departmental Activities

Expert's Lectures



**Expert Guest Lecture on
Topic: Personality Development**



**Expert Guest Lecture on
Topic: CAD/CAM/CAE**

विद्यार्थ्यांचा सर्वांगीण विकास घडवण्यासाठी व्यक्तिमत्व विकास, करिअर मार्गदर्शन यावर तज्ज्ञांचे व्याख्यान आणि CAD/CAM सारख्या तांत्रिक कौशल्यांचे प्रत्यक्ष प्रशिक्षण दिले जाते. यामुळे विद्यार्थी उद्योगजगतातील आव्हानांना सक्षमपणे सामोरे जाऊ शकतात."



**Expert Guest Lecture on
Topic: "Opportunities for
Mechanical Engineering"**



**Expert Guest Lecture on
Topic: "Opportunities in TATA IIS"**

DEPARTMENTAL ACTIVITIES



Teachers Day Celebration



Welcome Function for Freshers



Engineers Day Celebration



Parents Teachers Students Meet

"विभागामार्फत शिक्षक दिन, अभियंता दिन, स्वागत समारंभ अशा विविध उपक्रमांचे आयोजन केले जाते, जे विद्यार्थ्यांमध्ये उत्साह आणि एकजुटीची भावना निर्माण करतात. तसेच पालक-शिक्षक-विद्यार्थी भेटीत हजेरी, गुण व प्रगती यांची माहिती देऊन पालक व विद्यार्थ्यांच्या शंका समजून घेतल्या जातात, ज्यामुळे विद्यार्थ्यांचा सर्वांगीण विकास साधता येतो."

Co curricular and extra curricular activities



Project Competition for Third Year Students

Dipex Participation



Active Participation In Zonal and Inter Sports

Active Participation In Technical Paper Presentation

Active Participation In Technical Quiz Competition

"विद्यार्थ्यांचा आत्मविश्वास आणि सर्जनशीलता वाढवण्यासाठी विभागामार्फत क्रीडा स्पर्धा, प्रोजेक्ट स्पर्धा, DIPEX, तांत्रिक पेपर सादरीकरण आणि क्विझ स्पर्धामध्ये सक्रिय सहभाग घेण्यासाठी प्रोत्साहन दिले जाते. या उपक्रमांमुळे विद्यार्थ्यांचे तांत्रिक ज्ञान वाढते आणि त्यांच्यातील स्पर्धात्मकता विकसित होते."

Laboratory Information



Industrial Fluid Power



Fluid Mechanics and Machinery



Power Engineering



Mechatronics



Automobile Engineering



Metrology Measurement

Laboratory Information



Mech Engg Materials



Theory of Machine



Machine Section



Fitting Section

workshop



Welding Section



Smithy Section

Industrial Visits



Industrial Visit of THIRD YEAR MECHANICAL ENGINEERING STUDENTS AT MSRTC Divisional Workshop, Satara

Industrial Visit of THIRD YEAR MECHANICAL ENGINEERING STUDENTS AT Shree Tools , Old MIDC



Industrial Visit of Second Year and THIRD YEAR MECHANICAL ENGINEERING STUDENTS at URMODI Power Generation Pvt Ltd and Renom Power Generation Chalkewadi, Satara

Industrial Visit of Second Year and THIRD YEAR MECHANICAL ENGINEERING STUDENTS at Accurate Engineering Industries , Kudal, Maharashtra



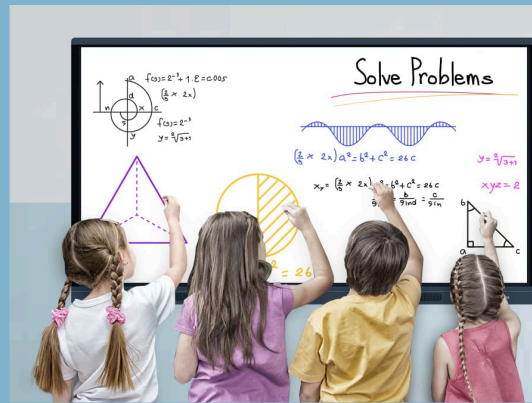
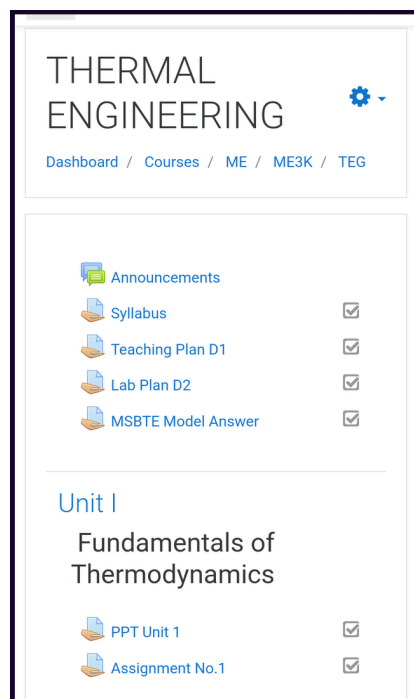
"विद्यार्थ्यांना उद्योगातील प्रत्यक्ष अनुभव मिळावा यासाठी वेळोवेळी औद्योगिक भेटी घेतल्या जातात. यामुळे अभ्यासातले ज्ञान प्रत्यक्ष पाहता येते आणि अनुभव वाढतो."

Innovative Approaches



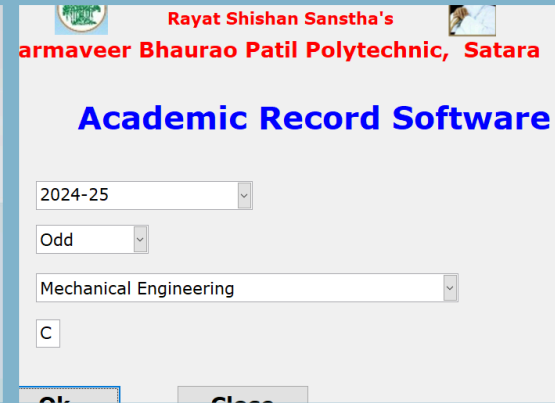
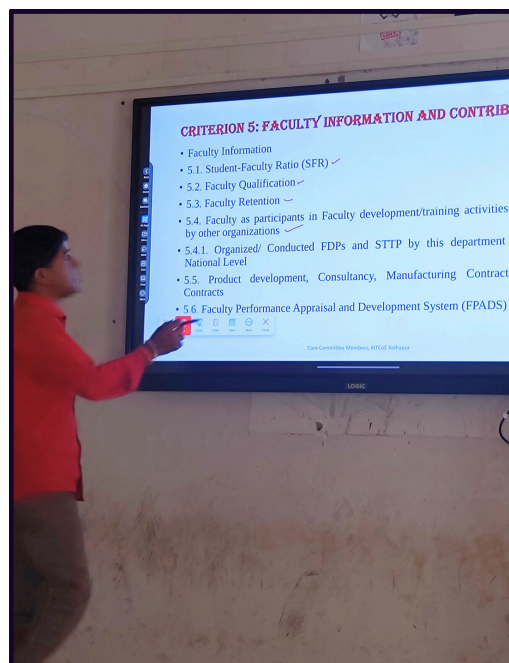
MOODLE LEARNING MANAGEMENT SYSTEMS (LMS)

We are using platforms like Moodle to provide centralized access of study materials. Students can find lecture notes, video tutorials, and interactive assignments, Practical Tutorials all in one place, allowing for self-paced learning



ENHANCING TEACHING WITH SMARTBOARD TECHNOLOGY

Our department has embraced Smartboard Technology to elevate the quality of classroom instruction and promote interactive learning. The smartboards enable faculty to deliver visually engaging lessons, annotate in real time, and integrate multimedia resources seamlessly. This dynamic approach enhances student understanding,



ATTENDANCE TRACKING WITH ACADEMIC RECORD SOFTWARE

Our Department has implemented Academic Record Software to automate attendance tracking and enhance student support through the Guardian Faculty Scheme. This tool allows faculty to monitor attendance, generate reports,

Department of Mechanical Engineering			
Record of Attendance & Curriculum covered for the Academic Year 2024-25			
Period From 01/01/2025 To 29/03/2025			
Sem: 4 Program: Mechanical Engineering		Course: Metrology and Me	
Class: SYME		Course-Teacher: Mr. Zore	
Roll No.	Name of student	Lectures Attended Out of 56	% Attendance
1	BACHAL VARAD DNYANESH	51	91.07
2	GAIKWAD SIDDHANT DIPAK	54	96.43
3	GAWALI AJINKYA MANIK	53	94.64
4	GHADAGE VEDANT TANAJI	52	92.86
5	GUJAR RITESH RAHUL	49	87.50
6	HARSHVARDHAN MOHAN RATHOD	50	89.29
7	JAGADALE ABHIJEET RAJENDRA	46	82.14
8	JAGTAP SHREYASH SANTOSH	51	91.07
9	KADAM CHINMAY SAMBHAJI	48	85.71
10	KADAM SOHAM BAJARANG	51	91.07
11	KAMBLE PRUTHVIRAJ MANGESH	49	87.50
12	KHADE ABHIJEET POPAT	52	92.86
13	MULLA AKEJ JAMIL	50	89.29
14	QURE SHI ADEENAHMED NADEEMAHMED	51	91.07
15	SALUNKHE SAI CHANDRAKANT	53	94.64
16	SAYYAD IRFAN DILAWAR	51	91.07
17	SOHAM DATTATRAYA MUNJAL	50	89.29
18	VANJARI SAIRAJ KIRAN	50	89.29
19	WAGHMARE MAYUR ANKUSH	50	89.29
20	ZORE SOHAM AMOL	49	87.50
22	AHNWALE SUMIT SANJAY	48	85.71
23	BANSODE SUDHIR SURESH (DSY)	52	92.86
24	BHILARE KAJAL DNYANDEV (DSY)	50	89.29
25	DALVI SUYASH SUBHASH (DSY)	50	89.29
26	DESHMUKH NAVNATH MAHENDRA (DSY)	52	92.86

MSBTE Exam Winter 2024 Toppers

TYME

CONGRATS
on your
milestone



**Shinde Suhani
Yashwant**

81.81%



**Jadhav Priyanka
Prakash**

81.52%



Padmaja B. Lakade

77.81%

SYME



Harshvardhan M. Rathod

**79.34%
9579167458**



Siddhant D Gaikwad

**76.11%
8668363936**



Varad D. Bachal

**70.89 %
8329214322**

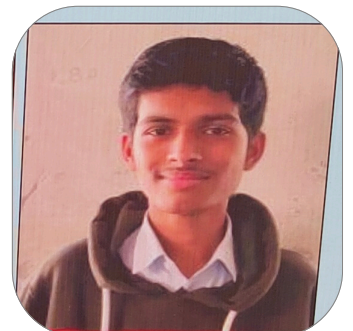
FYME



**Poorva V. Jagtap
85.41%**



**Shivanjali A. Lohar
80.59%**



**Akshay J. Bhosale
73.29%
9730695019**

Career Opportunities

1. Core Engineering Sectors (Private Companies)

Job Profiles

- Diploma Engineer Trainee
- Production Engineer
- Maintenance Technician
- Quality Control Inspector
- CNC Machine Operator
- Design Engineer
(AutoCAD/SolidWork/CATIA)
- Tool Room Technician

Major Employers

- Tata Motors, Mahindra, Ashok Leyland, John Deere, Bajaj
- L&T, BHEL, Godrej
- Kirloskar, Cummins India, Ge Aerospace
- Heavy Industries like Jindal Steel, JSW,
- Automobile suppliers & Vendors
- SSI and MSME in Local MIDC

MAHLE



Career Opportunities

2. Government & PSU Jobs

- Junior Engineer (JE) – Railways (RRB), SSC JE
- Technician – BHEL, NTPC, ONGC, GAIL
- Apprentice Posts – NPCIL, SAIL, BEL, BARC
- State Govt Jobs – PWD, Irrigation Dept, MSEDCL, Zilla Parishad
- Defense Jobs – Army (Technical Entry), Air Force (Group X Technical) Merchant Navy



3. Startups/Business/Entrepreneurship

- CNC shops, tool rooms, automation startups
- Repair & maintenance services
- Industrial machinery suppliers
- Fabrication workshop
- Welding or machine repair service
- Solar panel installation business



Placement Record 2024-25

Hearty Congratulations!!



Samruddhi Gaikwad
Cummins India
Pvt Ltd



Priyanka Jadhav
Cummins India Pvt
Ltd.
ACG Engineering



Padmaja Lakade
ACG Engineering
Mahle Anand Pvt
Ltd



Suhani Shinde
Cummins India Pvt Ltd.
ACG Engineering



Soham Parte
Cummins India Pvt
Ltd.
9356392409



Sangram Thengil
Cummins India
Pvt Ltd.
7757831631



Pramod Khade
John Deere India
Delval Flow Controls
Pvt. Ltd.
8799808650



Shoaib Shikalgar
John Deere India Pvt
Ltd
8010410798



Aditya Waragade
Cummins India Pvt Ltd
John Deere India
9699171991



Shantanu Jadhav
Cummins India Pvt Ltd.
John Deere India
8080407014



Pratik Pharande
Cummins India
Pvt Ltd.
8237999006



Shreyash Bhilare
Delval Flow Controls
Pvt. Ltd.
9356884098



Gaurav Kumbhar Rajee
John Deere India
Pvt Ltd
9309411159



Sushant Kamble
John Deere India
Pvt Ltd
7776892490



Jay Gaikwad
Delval Flow Controls
Pvt. Ltd.
7972906970



Sanofar Shaikh
ACG Engineering

Higher Education Details

SR. NO	Name of Student	College Name
01	Dhurgude Suyash Arun	Coep Technological University,Pune
02	Salunkhe Atharv Govind	College Of Engineering Pune (Coep),Pune
03	Omkar Balasaheb Bhandirge	Nutan Maharashtra Institute of Engineering Technology (NMIET),Pune
04	Karandikar Swapnil Shailesh	Aissms Collage Of Engineering Pune
05	Patil Akanksha Bhushan	JSPM, Pune
06	Kale Sanket Rajendra	JSPM, Pune
07	Dhumal Ankit Mahesh	Pes Modern College Of Engineering Pune
08	Sanket Tanaji Deshmukh	Government College Of Engineering Karad
09	Thorat Arya Akash	Shivnagar Vidya Prasark Mandal's College Of Engineering, Malegaon (Bk)- Baramati
10	Chavan Chetan Prakash	Karmaveer Bhaurao Patil Collage Of Engineering ,Satara
11	Kale Omkar Hanmant	Tatasahaib Kore Institute Of Engineering And Technology,Warnanagar
12	Mulani Palak Shafiuddin	Karmaveer Bhaurao Patil Collage Of Engineering ,Satara
13	Snehal Vinod Shinde	College Of Engineering, Phaltan
14	Kumbhar Sahil Sunil	Arvind Gavali Collage Of Engineering,Satara
15	Dhanawade Vedant Sandip	Arvind Gavali Collage Of Engineering,Satara

Self Employment Details

SR. NO	Name of Student	Firm Name
01	Deshmukh Sanket Tanaji	Deshmukh Enterprises
02	Dhanawade Vedant Sandip	Classic Teaching Institute
03	Patil Akanksha Bhushan	Shree Swami Samarth Enterprises

THANK YOU



**Rayat Shikshan Sanstha's
Karmaveer Bhaurao Patil
Polytechnic, Satara**

**At- Panmalewadi, Post- Varye,
Satara**

Phone: 9309919088

Website: www.kbppoly.edu.in

E-Mail: kbppoly0041@gmail.com

Social Media Links