### JSPM's



# Mechanical Engineering Department

Estd. 2004

DTE Code.: 614561210.

#### **Important Features: -**

- 1. Experienced and qualified faculty members (average experience is 7 years).
- 2. Excellent teaching learning platform: Use of LMS-Moodle, YouTube channels of faculty members. e.g., bit.ly/thermalengg, bit.ly/kadamacademy, bit.ly/mechthermal002
- 3. Students clubs for co-curricular activities.
- 4. Good Eco system for placement activities.





#### MECHANICAL ENGINEERING DEPARTMENT

#### About Department

JSCOE Mechanical Department was established in 2004 offers UG, PG & Ph. D. programs. This department specially known for excellence in academics, acquiring research projects & placements. The department has bagged gold medals in the university examination for three consecutive years and created a record. The Department has well equipped laboratories including a state- of - art center. Every year the projects accomplished in the club are sent for National & International project competitions. The Mechanical Department has won several National Level Project Competition awards like; Most Popular Project Award 2022 (Prize of Rs. 10 Lakh) - KPIT, Platinum Award 2022 " Auto India Racing Championship 2022" Runner Up and ..., et c Student s are placed in core companies like Tata Motors, Piaggio, John Deere, Vishay as software industries like TCS, Infosys, Capegemini, Wipro, L&T etc. with a highest package of 7.5 lakhs per year and an average package of 3.50 Lakhs per



Dr. Rajendra Kanphade Principal, JSCOE

Dr. Pradeep Patil HOD Mechanical, JSCOE

# MECHANICAL ENGINEERING DEPARTMENT VISION

"To be recognized globally as a center of quality education and research for aspiring mechanical engineer to cater the everchanging demands of industry and society."

#### **MISSION**

M1. To develop responsible mechanical engineers with strong technical skills to meet the needs of the profession and society.

M2. To develop problem solving and research ability in Students' to meet needs of demanding challenges of society and other interdisciplinary areas.

M3. To inculcate moral values, leadership and professional skills for a long productive and influencing professional career.



#### **OUTSTANDING ACHEIVEMENTS**



Team ELESPA From WON FIRST PRIZE [Platinum Award] With [Rs. 10 Lakh] IN KPIT SPARKLE 2022 National Level Competition.



Drone Club Members established the startup "CerebroSpark Innovation LLP" Signed an One Year Agreement/Contract Of 1.2 Crore With Bihar Gov. for Drone Manufacturing For Surveillance and Monitoring of Country Liquor for Excise, Prohibition and Registration Dept. Gov Bihar.

#### **OUTSTANDING ACHEIVEMENTS**

Jayawantrao Sawant College of Engineering Hadapsar Pune-411028

#### Department of Mechanical Engineering Remarkable Achievement



We are very happy to share with you that

Mr.Tanveer Inamdar

(2017 Batch) Selected in NASA as

Astronaut for Mission MARS 2022,

Texas USA

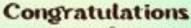


Congratulations from Team JSCOE



JAYAWANTRAO SAWANT COLLEGE OF ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING





Best Wishes





Mr. Nayan Satpute (JSCOE Mechanical 2018 Batch) for getting Admission at IIM, Lucknow

Entrance Exam- CAT 2020 Score- 94.5 Percentile

Selection Process- Candidate profile including Academic, Work experience, Personal Interview, Co-curriculum and Extra curriculum achievements.

Name of college admitted to: Indian Institute of Management, Lucknow established in 1984 as the fourth Indian Institute of Management by the government of India. Its current NIRF ranking is 4th across India.

Nayan attempted CAT exam consistently for four years with score

94.5 Percentile in CAT 2020

82 Percentile in CAT 2019

55 Percentile in CAT 2018

65 Percentile in CAT 2017

Interested can connect Nayan with

दुबिकयां सिधु में गोताखोर लगाता है, जा जा कर साली हाथ लोटकर आता है। मितते नहीं सहज ही मोती गहर पानी में, बढ़ता दुगना उत्साह इसी हेशनी में। मुद्री उसकी खाली हर बार नहीं होती, कॉशिश करने वालों की कभी हार नहीं होती।

#### **FACULTY STRENGTH**

- **\*Well Qualified & Experienced Faculty**
- **Ph.D.-08 & Ph.D. Pursuing-03 & M.E./M.Tech-16**
- **Digital Smart ICT enabled Classroom**
- **❖Moodle –LMS**(Learning Management System)
- **Skilled Supporting Staff**
- **Well Equipped Laboratory**
- \*Research Paper Published -68
- **❖Patent Filed-8**
- **❖Book Published-11**
- \*Received Grants from DST, ISRO, ISHRAE, ASHRAE worth Rs 70 lakhs.
- **❖MoU** with Industries- 15

#### **Start Up at JSCOE- "Cerebrosparo Innovations"**

## Drone Club Members established the start up "CerebroSpark Innovation LLP"



**Ongoing Projects** 

**Surveillance and Monitoring of Country Liquor for Excise, Prohibition and Registration Dept. Gov Bihar.** 



### **Start Up at JSCOE- "Cerebrosparo Innovations"**

## **Products Developed**







CS-KRISHI

CS-MAMBA

**EXPLOSIVE DELIVERY DRONE** 







CS-PRIDE

CS-BEE

ALL TYPES OF DRONE SERVICES at



#### **Start Up at JSCOE-"ELESPA"**



www.elespahev.ml www.elespahev.in 7498378219



Prathamesh Choudhary

# ELESPA Features and Benefits

### Runs <mark>60</mark> km in just ₹**5**!

- Independent and Combined Petrol and Electric Drive.
- Switch to Petrol Engine if Battery runs out.
- Top speed 60 km/hr in Pure Electric Drive.
- In a Single Charge it goes 60 km.
- Double the Mileage with Electric and Petrol Engine, which is 120 km / (charge + liter).
- Portable Battery can be Charged anywhere.
- No changes required in the vehicle for installation.
- Available service stations and 2 years of free service!
- Safest Battery Composition ever.
- Saves Rs. 60,000 per year.



Startup of Hybrid Electric Vehicle Manufacturing with Assembly Line



JSPM's Jayawantrao Sawant College of Engineering, Pune

First ever Assembly Line in college in India

**ELESPA Proposed Assembly Line** 



• •

For more information visit our website or scan QR code.



















#### **RESEARCH FACILITIES**



Subsonic Flow Wind Tunnel Test Setup



Research Engine Test Setup



FFT ANALYZER



High Vacuum Pump & Diffusion pump



**Compressor Calorimeter Test Rig** 

### STUDENTS' INNOVATION CLUBS



#### **ASHRAE CLUB**

[American Society Of Heating, Refrigerating And Air-Conditioning Engineers]



**ASHRAE Club Faculty Advisors** 



"ASHRAE Club Students' from Mechanical Engineering

Department have rewarded the Prestigious Research Grant of
\$5000 from ASHRAE, USA".

Project Advisor: Dr. P. A. Patil (HOD Mechanical Engg.)

Project Title: Design and Development of Liquid Desiccant

Refrigeration System.



[American Society Of Heating, Refrigerating And Air-Conditioning Engineers]





"ASHRAE Club Students' from Mechanical Engineering Department have rewarded the Prestigious Research Grant of \$5000 from ASHRAE, USA".

Project Advisor: Dr. P. A. Patil (HOD Mechanical Engg.)

Project Title: Design & Development Of Compressor Ejector

Refrigeration System Setup.



[American Society Of Heating, Refrigerating And Air-Conditioning Engineers]





"ASHRAE Club Students' from Mechanical Engineering Department

have rewarded the Research Grant of Rs. 70000 from Tirupati

**Enterprises Solutions**".

Project Advisor: Prof. L.N. Mane

**Project Title: Performance Testing of Phase change material in** 

Refrigerator



[American Society Of Heating, Refrigerating And Air-Conditioning Engineers]



Industrial Visit organized at Jai Jinendra Cold Storage For ASHRAE Club **Students** 





Best Performer From HVAC Group (ASHRAE Club) in National Level 24
Hours Hackathon Organized by Cerebrospark Innovations LLP.



[American Society Of Heating, Refrigerating And Air-Conditioning Engineers]
Mini Project Awareness Program













[American Society Of Heating, Refrigerating And Air-Conditioning Engineers]
PBL Awareness Session



#### **PBL Poster Presentation Competition**





**AUTO CLUB** 



AUTO Club Faculty Advisors
FOXTROT RACERS.....AN OFFICIAL GO KARTING TEAM.





Inaugural Function for Launching of Go Kart Vehicle in Presence of Principal Dr. R. D. Kanphade & Dr. P. A. Patil, HOD Mechanical Engg.





#### **AUTO CLUB**





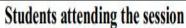
Team Foxtrot Racers is Skidpad Winner (Prize Rs. 15000) in "Edge Line Championship"

#### **AUTO CLUB**





Mini Project Awareness Program









Mini project explanation by faculty members

Mini Project Awareness Program organized for **AUTOCLUB Students** 

#### **DRONE CLUB**



**Drone Club Faculty Advisors** 

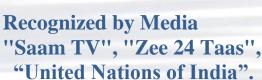






help implement a brighter future.

See More -





Defense Product Providers Exhibition in "DEFENCE QUIPMENT EXHIBITION" at Army Cantonment Board, Dehu Road held during 13 to 19 Dec 2021 where "Cerebrospark Innovations" Presented among Top MNC's like Tata Motors etc.

#### **DRONE CLUB**



Startup Exhibition at SPPU where "Cerebrospark Innovations" Presented among Top 25 Startups from Pune in Presence of Hon'ble Minister (Ministry of Commerce & Industries) Piyush Goyal.



"Sparkathon" A National Leverl 24 hrs Hackathon held on 11 Feb 2022 Cerebrospark Innovations LLP.

#### **DISCOVERY CLUB**



**Discovery Club Faculty Advisors** 



Mini Project Awareness Program Organized for DISCOVERY Club Students'



Research Facility For Discovery Club Students'



Team ELESPA Received First Prize In National Level Project Competition organized by AISSMS Institute of Information Technology Pune

#### **VLCI CLUB**



**VLCI Club Faculty Advisors** 



VLCI student activities on observation skills & implementation of 5S concepts of Toyota Production System in workshop





VLCI student activities on observation skills conducted by Dr. Abhijeet

Dandavate

### **VLCI CLUB**



Dr. P. A. Patil addressing Mini Project Awareness Program



Mini Project Awareness Program Organized for VLCI Club Students'

# MESA [Mechanical Engineering Student Association] Guest Lecture



Guest Lecture Organized For Students On "Motivational Speech for Student's Development" By Mr. Raghavan Koli









Guest Lecture Organized For Students On "Blueprint to become Design Engineer" By Mr. Alok Sasane.

# MESA [Mechanical Engineering Student Association] Guest Lecture









Guest Lecture Organized On "Tool Design and Manufacturing"
By Mr. Santosh Samant

# MESA [Mechanical Engineering Student Association] Industrial Visits









Industrial Visit Organized at Eagle Burgmann, Pvt Ltd For Third Year Students

# MESA [Mechanical Engineering Student Association] FE Induction Program









# MESA [Mechanical Engineering Student Association] DSE Induction Program







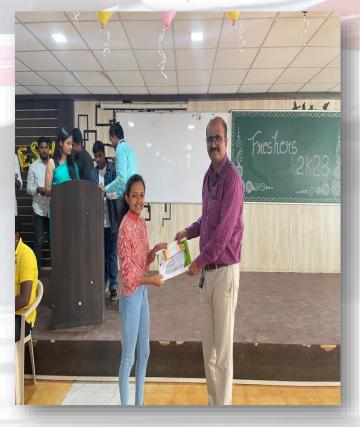


# MESA [Mechanical Engineering Student Association] Freshers Party









# MESA [Mechanical Engineering Student Association] Festival Celebration









Festival Celebration "Ganeshotsav"

## **BE Farewell Function**



Vicky Nanaware awarded as "Best Outgoing Student" Trophies for BE Farewell Facilitation



**TE Mini Project Idea Competition** 



**TE Mini Project Idea Competition Prize Distribution** 



# **SE PBL Poster Competition**



**SE PBL Poster Competition Prize Distribution** []





# **BE Project Exhibition Competition**









**BE Project Exhibition Prize Distribution** 









EDC
[Entrepreneurship Development Cell]



"TWO Day Workshop on Electrical Vehicle Career Opportunities organized by EDC during 29 to 30 April 2022"

23111/1

# NSS [National Service Scheme] Blood Donation Camp















Blood Donation Camp Organized On Behalf of Birthday of Hon'ble Cabinet Minister Dr. Tanaji Sawant on 15 Mar 2023

NSS
[National Service Scheme]











NSS(National Service Scheme) Activities Conducted at Mouje Veer Village during 16 Dec to 22 Dec 2022

#### **SPORTS**





**Sports Achievements At National And State Level** 

#### **CULTURAL EVENTS**



Team Kalamandal Won "Most Discipline Award" of Firodiya Karandak



#### Team Kalamandal during Play at Balgandharv Rang Mandir ,Pune



#### पुरुषोत्तम'मध्ये यंदा वास्तववादी एकांकिकांवर भर

पुणे : पुढारी वृत्तसेवा पुरुषोत्तम करंडक स्पर्धेच्या सध्या सुरू झालेल्या प्राथमिक फेरीत महाविद्यालयांचे संघ वास्तववादी विषयांवर एकांकिका सादर करीत प्रेक्षकांची दाद मिळवत आहेत.

दैनंदिन आयुष्यातील घडामोडी आणि जगण्यावर एकांकिका सादर होत आहेत. रोजचे जगणे, त्यातील घडामोडी, जगण्यातला अट्टहास आणि जगण्याला मिळालेली वेगळी वाट असे सर्वकाही तरुणाई आपल्या अभिनयातून समर्पकपणे मांडत आहे. त्याला चांगला प्रतिसादही मिळत आहे. पुरुषोत्तम करंडक आंतरमहाविद्यालयीन एकांकिका स्पर्धेची प्राथमिक फेरी भरत नाट्यमंदिरात सुरू आहे. एकांकिकेतून वास्तववादी विषयही मांडत समाजाला एक वेगळा विचार देण्याचे काम विद्यार्थी करीत आहेत. त्यांच्या सादरीकरणातही नवा जोश आणि नवी ऊर्मी दिसत आहे. स्पर्धेची प्राथमिक फेरी १७ जानेवारीपर्यंत चालणार आहे.



पुरुषोत्तम करंडक स्पर्धेत 'टोर्क' ही एकांकिका सादर करणारा हडपसर येथील जयवंतराव सावंत अभियांत्रिकी महाविद्यालयाचा संघ.

जयवंतराव सावंत अभियांत्रिकी

जयवंतराव सावत महाविद्यालयाच्या संघाने जिंकली मने... येथील जयवंतराव अभियांत्रिकी महाविद्यालयाच्या संघाने 'टोर्क' ही एकांकिका सादर करून प्रेक्षकांची मने जिंकली. न्यायालयातील घडामोडींवर एकांकिकेचे कथानक आधारित होते. त्याला प्रेक्षकांचा

चांगला प्रतिसाद मिळाला. आदित्य तमलवार, वैष्णव राऊत, अक्षता चौभे, श्रुती दाहोत्रे, प्रसाद गिरबनवाड आदींनी या एकांकिकेत भूमिका केल्या, याबद्दल विद्यार्थी प्रतिनिधी श्रीया धोकटे म्हणाली की, नव्या आणि जुन्या अशा संघांनी एकत्र येऊन ही एकांकिका सादर केली. त्याला चांगला प्रतिसादही मिळाला. प्रत्येकाने टीमवर्कने

काम केले. प्रत्येकाचा उत्साह आणि स्पर्धेत सादरीकरण करण्याची ऊर्जा पाहण्यासारखी होती. अनेक प्रेक्षकांनी आम्हाला चांगला अभिप्रायही

मएसो महाविद्यालयाची 'द हंग्री' एकांकिका

महाराष्ट्र एज्युकेशन सोसायटीच्या सीनिअर महाविद्यालयाच्या संघाने "द हंग्री" ही एकांकिका सादर केली. त्याद्वारे एका वेगळ्या विषयावर प्रकाशझोत टाकला. प्रत्येक व्यक्तीला सातत्याने काही ना काही गोष्टी हव्या असतात, त्यांना त्याची ओढ किंवा भूक असते. याच ओढीमुळे त्या व्यक्तींच्या आयुष्यात काय घडामोडी घडतात, त्याचे चित्रण यातून करण्यात आले. ओम चव्हाण, आयुष वाघ, अथर्व शेटे, राज लांजेकर, समृद्धी पाटणकर, वृषाली काळे, अथर्व अवसरे, आश्विन चौधरी, आसावरी चौधरी आदींनी यात भूमिका केल्या. त्यांच्या अभिनयाला प्रेक्षकांनी दादही दिली

याविषयी आयुष वाघ म्हणाला की, आमची

संपूर्ण टीम नवीन असली तरी प्रत्येकाने मेहनत भेऊन काम केले. त्यामुळेच एकांकिकेत आम्ही जीव ओतू शकलो. स्पर्धेत सहभागी होण्याचा आनंदच वेगळा होता.

गरवारे महाविद्यालयाच्या एकांकिकेला दाद

गरवारे वाणिज्य महाविद्यालय संघाच्या 'थोडं तुमचं, थोडं आमचं' या एकांकिकेला चांगली दाद मिळाली. यात एका दुकानाच्या आजूबाजूला घडणाऱ्या मजेशीर घटनांचे कथानक अधोरेखित करण्यात आले. या एकांकिकेचे दिग्दर्शन अनय भिडे आणि पार्थ खडके यांनी केले. लेखन दिग्वजय पवार याने केले. रिया भोगाडे सिमरन गोखले, प्रतीक फरांदे, अथर्व सोमण

याबाबत विद्यार्थी प्रतिनिधी श्रीनी कलकर्णी म्हणाली की, आम्ही विद्यार्थ्यांनी खूप मेहनत घेऊन एकांकिका सादर केली, स्पर्धेतील अनुभव खूप वेगळा होता.

#### Students' Internship

#### **Internship Highlights**

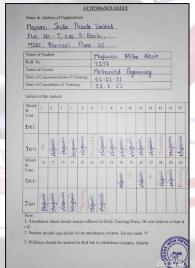
- **❖** No of Students Completed Internships − 30
- ❖ No of Industries in which students were involved for doing Internship − 23
- \* NPTEL Course entrepreneurship essentials is offered to TE Students those who want to do internship. This course is compulsory to TE students as a part of Internship.
- ❖ No of students enrolled for entrepreneurship essentials− 138
- **❖ PATIL PAWAN VISHWADIP** got stipend offer of Rs.10,000 p.m from Rhenus Logistics India Ltd for 6 months.
- ❖ GODASE SAHIL SHEKHAR got stipend offer of Rs.
  6,000 p.m from S.B. Industries for 7 months.

Students' Internship



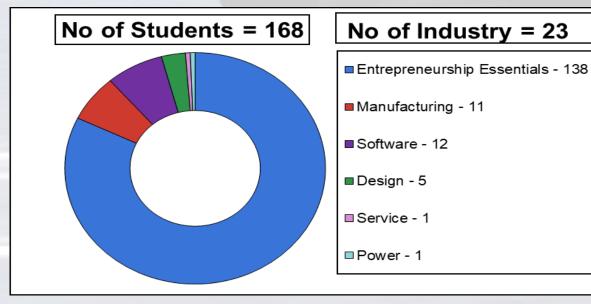






JSPN's JSCOE, Hadapaar
Department of Mechanical Engineering
Engloyev Evolution/Feetback on Internably
Date:
Name & Address of Organization
Shree Dath Kulpa Bashi: Indushry,
Plot. No. A[2, Gatlachisochi ,
Agalagon. Tood., Barshi:
Name of the Student. Jadhay. Pranita. Shashikant:
List. Tel. B]
Douttion of Hermilly: From date. List. to date 28 Feb. Tool days. 22

So Performance parameters
No.
Siscenty and Humanisty
Submanial Modenne. Shipki PO Mapping
Siscenty and Humanisty
Siscen



#### **Major Industries Availing Students' Internship**





















**TE Internship Prize Distribution** 



## Training & Placement Training Highlights

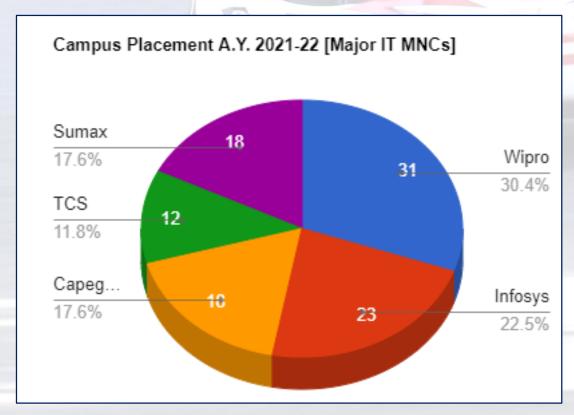
- 1. Training agency: Talent Battle
- 2. Total duration of training: 200 Hours
- 3. Mode of the Training: Online
- 4. Purpose of training (placement opportunity: This training will guide Students' to prepare for MNCs (Software + Core) in the right way so as to give the best for the drives and get Placement offer at the start of final year!

(Upto 7.0 LPA Package)

- 1. Training agency: Seventh Sense
- 2. Total duration of training: 220 Hours
- 3. Mode of the Training: Offline
- 4. Purpose of training (placement opportunity: This training will guide Students' to prepare for MNCs (Software + Core) in the right way so as to give your best for the drives and get Placement offer at the start of final year!(Upto 4.5 LPA Package)

#### **Placement Highlights**

- \*A Total of 106 Students' were placed with 151 total offers (Status in progress).
- **\*1** student placed in TCS Digital with a package of 7.0 LPA
- \*31 Students' are placed in WIPRO out of which 2
  Students' are shortlisted for the higher package of 6.5
  LPA
- **\*1** student placed in EPAM with a package of 6.0 LPA
- **\*23** Students' placed in Infosys, 18 Students' in Capgemini and 12 Students' in TCS got offered in the placement drive.
- **45** Students' placed in different core industries



## PLACEMENT STATISTICS

Sr. No.	Name Of Company	Number Of Student Placed
1	Wipro	31
2	Infosys	30
3	<b>Dhoot Transmission</b>	20
4	CAPGEMINI	28
5	Sumax	16
6	TCS	18
7	JIO	5
8	Qspider	5
9	BYJU's	4
10	CAE Analyser	9
11	Fleetguard Filters Pvt Ltd	4
12	Sqaure Yard	4
13	Indovance	3
14	Alten	2
15	Larsen & Turbo	2
16	Pentagon Space	2
17	AV Design Lab Pvt Ltd	1
18	BOSCH	1
19	BSA Corporation Ltd	1
20	<b>EPAM</b>	1

21	Erasquare	1
22	ESPL	1
23	Hudl	1
24	Just Dial	1
25	Kirloskar Pneumatics	1
26	Muni Campus	1
27	Neosoft	1
28	Oriental Rubber Industries Pvt lTd	1
29	Sutra	171
30	Uttejna Technologies LLP	1
31	Vertexx	1
32	Yazaki	1
33	Housiey	1
34	ITC	2
35	Helical Auto Technologies	2
36	Shivamtech	3
37	CIZMAK	1
38	Just Dial	6
39	Kia Motors	6
TOTAL		220



#### **JSPMs**

#### Jayawantrao Sawant College of Engineering Hadapsar

Mechanical Engineering Department

#### Remarkable Placement

Campus Placement

TCS Digital 7.0 L.P.A. WIPRO 6.5 L.P.A. INFOSYS 3.5 L.P.A. CAPEGEMINI 3.5 L.P.A. [2021-22]



















#### JSPM's

Jayawantrao Sawant College of Engineering, Pune

**Department of Mechanical Engineering** 

**Our Recruiters** 





































































































































































































































































































































































































































































































































































































































#### STUDENTS' TESTIMONIALS









Chavan Saniya Narayan
[T.E. Mech Student]
To Watch Testimonial
Click on below link
bit.ly/saniyachavan
OR

Scan below Code





Khairnar Prathamesh Hiralal
[B.E. Mech Final Year]
To Watch Testimonial
Click on below link
bit.ly/prathameshkhairnar
OR

Scan below Code





Chaudhari Anurag, Patil Pavan, Jadhav Nikhil

[B.E. Mech Student]

To Watch Testimonial Click on below

link

bit.ly/anuragchaudhari

OR

Scan below Code





Gediya Dipesh
[T.E. Mech Student]
To Watch Testimonial
Click on below link
bit.ly/dipeshgediya

OR

Scan below Code



#### MECHANICAL ENGINEERING DEPARTMENT CONTACT US

Dr. Pradeep Patil [Head of Department] 7498934414

head mechjscoe@jspmjscoe.edu.in

Dr. Mahesh Gaikwad [Dept. FE Admission Co ordinator] 9822280955

maheshgaikwad@jspmjscoe.edu.in

Prof. Vijay Kharade [Dept. DSE Admission Coordinator]
9763225246
vijaykharade@jspmjscoe.edu.in

Dr. Manish Gardi [Institute FE Admission Co ordinator]
9890570405
manishgardi@gmail.com

Visit us on:

www.jspmjscoe.edu.in

