



JAYAWANT SHIKSHAN PRASARAK MANDAL'S

JAYAWANTRAO SAWANT POLYTECHNIC

DEPARTMENT OF AUTOMATION & ROBOTICS

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## NEWS LETTER

VOL - I, ISSUE - II - JUN 2024

### Message from Hon'ble Founder Secretary, JSPM Group of Institutes,Pune



My Dear students,

Jayawant Shikshan Prasarak Mandal (JSPM) was established in 1998 with the objective of creating centres of excellence for education in the field of Engineering, Medical, Pharmacy, Management, and computers. Our Objective behind starting JSPM was to make higher education available to all who are desirous of achieving it. I also visualised that a social transformation can be brought about through the medium of dynamic education,

JSPM is thus an institution of higher education with social commitment.

Moreover, it's our pledge to change in tandem with the changing requirements of the industry and mould, develop and nurture talent that will make the nation proud. I hope you would be one of those fortunate students who would get an admission to one of our colleges. I am certain that your life at our campus will be academically fruitful and otherwise pleasant. Every JSPM student & faculty members believe in JSPM Philosophy of "Life Skills" imbibed through informal & formal orientation like:

|                              |   |
|------------------------------|---|
| <b>JSPMians know:</b>        | The value of sincerity & dedication                   |
| <b>JSPMians believe:</b>     | In integrity & hard work.                             |
| <b>JSPMians learn:</b>       | On job. At play. Continuously. Constantly.            |
| <b>JSPMians think:</b>       | Creatively. Applying new skills innovatively.         |
| <b>JSPMians act:</b>         | Responsibly. Optimizing resources. Achieving results. |
| <b>JSPMians manage:</b>      | Information strategically. Integrating intelligently. |
| <b>JSPMians communicate:</b> | Effectively. Across diverse cultures & media          |

My best wishes to you for all the success in your professional career after graduation.

**Prof. Dr. Tanaji Jayawant Sawant**  
Founder Secretary,  
JSPM Group of Institutes,  
Sr.No-80, Tathwade, Tal- Mulshi, Dist-Pune-33.

## Message from Principal, Jayawantrao Sawant Polytechnic,Pune.



It is observed that, the students those who are taking admission in the college are especially from rural areas. It is our duty to provide them skills and knowledge to empower and enhance them to meet their goals and achieve grant success in their career. So, we have already started such efforts in this direction. I confidently welcome the student and promise them that their future shall be bright, if they are ready to take challenges to become successful professionals, giant leaders, entrepreneurs. Our team is ready to enhance their qualities which are

required to be the best Indian professionals and also encourage them to face rigors in the corporate sector. I always motivate the students by saying, "Try to climb high, wings are waiting for you". Jayawantrao Sawant Polytechnic provides a student-centred.

Learning environment with close student-faculty interaction and constant participation of the industry. The emphasis is purposive curriculum, tailored to the needs of the industry and practical training to enable the young graduate easily cope up with the Challenges as they get into industries through periodic seminars, symposia, workshops, industrial visits and internship as an integral part of the courses, So, gear up for the hard work and I am sure you will enjoy your learning years.

With a lot of Best Wishes...!!!

**Dr.Deokar S.M.**  
**Principal**

## Message from HOD, Department of Automation & Robotics



Automation and Robotics Engineering is an emerging multi-disciplinary course that requires profound application based knowledge in hardware as well as software development, which comprise design, construction, operation, and application of robots. The design of a robotic system puts together basics of mechanical engineering, manufacturing engineering, electrical/electronic Engineering, and Computer engineering. A specialized undergraduate degree in Automation and Robotics Engineering will enable students to serve the Industry requirement for

implementation of new and smart autonomous technologies covering methods of synthesis, analysis and optimization of newer robots and mechanisms. Automation and Robotics Engineering involves design development and up-gradation in terms of automating products, systems and processes in every aspect of life. The certified student of this course will hit upon abundant opportunities to work as Robot design engineer, robot programmers; robotics system engineer etc. in the field of industrial automation, manufacturing, automobile, agriculture, mining, aerospace, defence, social and health care. The department has a well-qualified, devoted and experienced faculty.

Where do Automation and Robotics Engineers Work?

- Robotics companies.
- Manufacturing industries.
- Transportation and logistics.
- Defense and military companies.
- Aerospace and space research industries.
- Artificial Intelligence industry.
- Automobile industry.
- Space exploration.

**Dr.Chandankar V.M.**  
**Head of Department**  
**Ph.D.(Mechanical Engg.)**

## Faculties from Department of Automation & Robotics



**Ms. Jadhav Supriya R.**  
Lecturer



**Ms. Pawar P. M.**  
Lecturer



**Mrs. Thorat V. S.**  
Lecturer

## Glimpses of Polytechnic Building



***HAPPY NEW YEAR 2024!!!***



*Wish you a very happy new year. As we bid farewell to the old and welcome the new, let's continue our journey of excellence together. Wishing you a Happy and Prosperous New Year! I wish you a happy and prosperous New Year 2024, May this New Year brings you new opportunities and hike your career graph towards the height*

## Co-curricular Activities of Department

### MSBTE Winter 2023 Examination Department Toppers

JSPM's  
JAYAWANTRAO SAWANT POLYTECHNIC, HADAPSAR, PUNE-28  
DEPARTMENT OF AUTOMATION & ROBOTICS  
A.Y.2023-2024



### MSBTE WINTER 2023 EXAMINATION DEPARTMENT TOPPERS



**FIRST TOPPER**  
**IDAGE PRIYA**  
(91.65 %)



**SECOND TOPPER**  
**SONWANE SIDDHI**  
(88.82%)



**THIRD TOPPER**  
**PIMPLE GAYATRI**  
(85.88%)

**Congratulations!**

**Industrial visit at 'Maha Tech-An Exclusive Industrial Exhibition' on 10/02/2024**



**Personality development seminar was conducted on "Power of Sub Conscious Mind" by Mr. Anup Sonawane for FY student of Automation & Robotics Department on 29/02/2024.**



**Personality development seminar was conducted on “Power of Ayurveda and Yoga” By Dr. Kshitija Jujam for first year student of Automation & Robotics Department on 04/03/2024**



**Guest lecture was conducted on "India's Techade: Chips for Viksit Bharat" by PM Modi, FY student of Automation & Robotics Department attended on 13/ 03/24**



## **Extra-curricular Activities of Department**

**STUDENTS ACHIEVEMENT IN SPORTS LEVEL:IEDSSA D2  
ZONE A.Y.2023-24**

| <b>WINNER AND RUNNER IN IEDSSA D2 ZONE (SPORTS)<br/>A.Y.2023-24</b> |                                |                         |                  |
|---|--------------------------------|-------------------------|------------------|
| <b>SR.<br/>NO.</b>  | <b>NAME OF STUDENT</b>         | <b>EVENT</b>            | <b>RANK</b>      |
| <b>1</b>  | <b>BHAGWAT ATHARV RATNAKAR</b> | <b>CHESS</b>            | <b>WINNER</b>    |
| <b>2</b>  | <b>SAYYAD MAHEK SHAKUR</b>     | <b>CARROM</b>           | <b>RUNNER-UP</b> |
| <b>3</b>  | <b>KALE PRADHYUM MANGESH</b>   | <b>TABLE<br/>TENNIS</b> | <b>RUNNER-UP</b> |



**Parents Students and Teachers Meet & Felicitation of MSBTE's Winter 2023 toppers program conducted by department on 07/03/2024.**





## Vision & Mission of Department

### Vision

Develop qualified professionals in the field of automation & robotics to serve in the emerging trends of technology while maintaining sustainable growth.

### Mission

M1: Provide Basic theoretical & sound practical knowledge of engineering & technology through effective experiential teaching learning process.

M2: Adoptive academic environment of extra-curricular activities through professional events and collaborative activities with industry.

M3: Inculcate professionalism & ethics among the stake holders.

## MoU of Department With Industry



**Signing of MoU between Department of Automation & Robotics JSPM's Jaywantrao Sawant Polytechnic, Hadapsar.Pune-28 and Dolphin Labs Embedded Systems (opc) Pvt. Ltd. Was held on, 10/02/2024.Venue: Dolphin Labs Embedded Systems (opc) Pvt. Ltd. Third Floor, Malvika Arcade, Vetabluva Chauk, Narhe , Pune – 411041.**

## महाराष्ट्र टाइम्स

### 'जेएसपीएम'चा कौशल्यांसाठी करार

**पुणे :** 'जेएसपीएम' हडपसर संकुलातील 'जयवंतराव सावंत पॉलिटेक्निकच्या ऑटोमेशन अँड रोबोटिक्स विभाग' आणि 'डॉल्फिन लॅब' यांच्यात नुकताच करार करण्यात आला.

महाविद्यालयातील विद्यार्थ्यांना नियमित शिक्षणासोबतच कौशल्य आधारित शिक्षण मिळावे, विद्यार्थ्यांना रोजगार उपलब्ध होण्याच्या दृष्टिकोनातून करार उपयुक्त आहे.

'नावीन्यपूर्ण तंत्रज्ञानाद्वारे विद्यार्थ्यांना मार्गदर्शन करण्यासाठी आणि त्यांना स्पर्धेसाठी तयार करण्याचे उद्दिष्ट करारातून साध्य होत आहे,' अशी माहिती प्राचार्य डॉ. सुभाष देवकर यांनी दिली. या वेळी प्राचार्य विभागप्रमुख डॉ. विनोदकुमार चंदनकर, 'डॉल्फिन लॅब'चे मुख्य कार्यकारी अधिकारी चित्तरंजन महाजन यांच्या उपस्थितीत करारावर स्वाक्षरी करण्यात आली.

'अत्याधुनिक तंत्रज्ञान प्रोग्रामिंग लॅंग्वेजेस, प्रकल्प व्यवस्थापन, संभाषण कौशल्ये आदी व्यवसायाभिमुख कौशल्ये प्राप्त करता येणार आहेत. विद्यार्थ्यांना रोजगारविषयक कौशल्ये प्राप्त होण्यासाठी कराराची मदत होणार आहे,' अशी माहिती हडपसर संकुल संचालक डॉ. संजय सावंत व डॉ. वसंत बुगडे यांनी दिली.

**“Scope to Become An Automation and Robotics Engineer”**



Automation and Robotics engineering is a field of engineering that deals with the design and creation of robots. They also use control systems and information technologies to reduce the Man Power. Automation and Robotics engineering has indeed been crucial to the development of humanity and certainly, this will come with great responsibilities. Automation & Robotics engineering a good career as Job prospects are bright for aspiring robotics engineers, as every industry begin to use robotics to reap its benefits in the form of quality improvement and cost-effectiveness. Automation and Robotics engineering does a Design and development of robots/machines, to manipulate and automate robotic control action. You can now find robotic applications in varied fields such as mining, ocean exploration, Nano-technology, surgery, modern warfare and space-exploration. All it requires to make a breakthrough in robotic engineering are skills like Innovative thinking, Analytical thinking, Designing vision, Creativity, Problem solving, Good mechanical skills, Disciplined attention to detail, Team spirit.

The Scopes of Robotics and Automation Engineering in India & Overseas is a Robotic engineer can be employed in manufacturing plants, laboratories, medical fields, mining, automation sector, life sciences, aerospace engineering, agricultural engineering, etc. In Aerospace category include flying robots and the smart bard robotic seagull and Raven surveillance drone. Healthcare area the number of robots being utilized for clinical purposes performing long and demanding critical tasks and also for hospital management. Industrial – Manufacturing can be easily operated alongside human workers. Disaster response types of robots are used for searching for survivors in the emergency, this type of robot can have the ability to track earthquakes and tsunamis and the nuclear power station. In the Education field the robots can be able to replace any smart teacher. Entertainment Field robot has a comedian and can play any music easily. It can perform more functions such as filming, acting and more. Military and security there is a wide range of usage of artificial intelligence and robotics in the military in India. Telepresence robots can be allowed to have to present at a place without actually going there. And these types of robots can easily talk with people. Currently, India is using 14% automation in workplaces which is definitely showing that the future scope of robotics engineering in India is extensive. To use artificial intelligence and robotics to detect hazardous materials and also help in the investigation process. Every small thing is being automated by the industries.

**Pathan Nehal Irfan,FYAO**

**"Scope to Become An Automation and Robotics Engineer"**



In 2024, the **career opportunities** for Automation and Robotics engineer in the robotics and automation industry are flourishing, making it an exciting time to pursue a career in automation engineering. With the rapid advancements in technology, the demand for professionals skilled in automation engineering is on the rise. Automation engineers are responsible for designing, developing, and maintaining automated systems that streamline processes in various industries, from manufacturing to healthcare. They play a crucial role in enhancing efficiency and reducing operational costs. As automation continues to reshape industries, the job market for electrical engineers with expertise in robotics and automation is expanding, offering diverse roles such as control systems engineer, robotics specialist, and industrial automation consultant. A career in automation engineering not only promises job security but also offers the chance to be at the forefront of innovation, contributing to the development of cutting-edge solutions that drive progress in an increasingly automated world. Automation engineering deals with creating systems and processes that operate with minimal human intervention. Automation And Robotics engineering have a vital role in this field due to their expertise in robot systems.

Industrial robotics has opened up several career avenues in India in engineering design, development, research, and management. It makes an available wide range of entrepreneurial opportunities as well. With combined efforts of the Government, the industrial sector, and various training institutes, industrial robotics can grow in India with leaps and bounds and catapult the nation into a fast paid journey of unprecedented progress and development. After completing a degree/diploma or vocational course in this field, you can work in manufacturing, maintenance, nuclear power plant research, and a variety of other fields. Because of technological advancements, robotics technology is now used in space exploration, power plant maintenance, the automobile industry, and petroleum exploration locations, among other things.

**Raut Siddhi Prashant, FYAO**

*There are an endless number of things to discover about robotics. A lot of it is just too fantastic for people to believe. [Daniel H. Wilson](#)*

## Editorial Team

### Editor in Chief

- Dr.Chandankar V.M.

## Editorial Committee

- Jadhav Supriya.
- Pawar Poonam
- Thorat V.S.

## News Published in leading Newspaper



### सावंत पॉलिटेक्निकमध्ये क्रीडा महोत्सव

हडपसर, ता. ९ : जेएसपीएमच्या जयवंतराव सावंत पॉलिटेक्निकचा वार्षिक क्रीडा महोत्सव मोठ्या उत्साहात पार पडला.

कार्यक्रमाचे प्रमुख पाहुणे संकुल संचालक डॉ.वसंत बुगडे, डॉ. संजय सावंत व अध्यक्षस्थानी प्राचार्य डॉ. सुभाष देवकर उपस्थित होते.

'एकाग्रता, कष्ट, निष्ठा या गुणांच्या बळावर तुम्ही कोणत्याही क्षेत्रात यश मिळवू शकाल,' असे डॉ. बुगडे यांनी स्पर्धकांना संबोधित करताना नमूद केले. क्रीडा महोत्सवात कबड्डी, खो-खो, धावणे, उंच उडी, लांब उडी, गोळा फेक, क्रिकेट, व्हॉलिबॉल आदी खेळांचा समावेश होता.

Pune, Pune-Today  
10/01/2024 Page No. 5



सावंत पॉलिटेक्निकमधील पालक-विद्यार्थी मेळाव्यातील एक क्षण.

### सावंत पॉलिटेक्निकमध्ये विद्यार्थी-पालक मेळावा

पुणे : विद्यार्थी, पालक आणि शिक्षक यांचे परस्पर नातेसंबंध अधिक दृढ व्हावे, पालकांना विद्यार्थ्यांची प्रगती समजावी या उद्देशाने हडपसर येथील जयवंतराव सावंत पॉलिटेक्निकमध्ये विद्यार्थी-पालक मेळावा आयोजित करण्यात आला होता.

नुकत्याच झालेल्या एमएसबीटीई बोर्ड हिवाळी परीक्षेत उत्तम यश प्राप्त झालेल्या विद्यार्थ्यांचा या वेळी सत्कार करण्यात आला. सरव्की पूजन आणि दीपप्रज्वलन करून कार्यक्रमाची सुरुवात करण्यात आली. प्राचार्य डॉ. सुभाष देवकर कार्यक्रमाच्या अध्यक्षस्थानी होते. संकुल संचालक

डॉ. संजय सावंत, डॉ. वसंत बुगडे व सर्व विद्यार्थ्यांचे पालक या वेळी उपस्थित होते.

विद्यार्थ्यांची आकलन क्षमता, कष्ट करण्याची तयारी, विशिष्ट विषयत असलेली आवड याची योग्य सांगड घालून विद्यार्थ्यांकडून तयारी करून घेतल्यास विद्यार्थ्यांचा आत्मविश्वास वाढीस लागतो. अभियांत्रिकी क्षेत्रातील नवीन तंत्रज्ञानाचा वापर करून कौशल्यप्राप्त करण्याच्या संधीचा पुरेपूर फायदा विद्यार्थ्यांनी घ्यावा, असे आवाहन संकुल संचालक डॉ. वसंत बुगडे यांनी केले.

My Pune Edition  
Mar 13, 2024 Page No. 3  
newspaper.pudhari.co.in

## महाराष्ट्र टाइम्स

### पॉलिटेक्निकमध्ये मेळावा उत्साहात

पुणे : विद्यार्थी, पालक आणि शिक्षक यांचे परस्पर नातेसंबंध वाढण्यासाठी; तसेच पालकांना विद्यार्थ्यांची प्रगती समजावी, या उद्देशाने हडपसरच्या जयवंतराव सावंत पॉलिटेक्निकमध्ये विद्यार्थी-पालक मेळावा झाला. या वेळी 'एमएसबीटीई'च्या हिवाळी परीक्षेत यश प्राप्त झालेल्या विद्यार्थ्यांचा सत्कार करण्यात आला होता. मेळाव्याच्या अध्यक्षस्थानी प्राचार्य डॉ. सुभाष देवकर, तर प्रमुख पाहुणे म्हणून संकुल संचालक डॉ. संजय सावंत, डॉ. वसंत बुगडे आणि पालक उपस्थित होते. 'विद्यार्थ्यांची आकलनक्षमता, कष्ट करण्याची तयारी, विषयाची आवड आदींची योग्य सांगड घालून विद्यार्थ्यांकडून तयारी करून घेतल्यास विद्यार्थ्यांचा आत्मविश्वास वाढीस लागतो. अभियांत्रिकी क्षेत्रातील नवीन तंत्रज्ञानाचा वापर करून कौशल्यप्राप्त अभियंता म्हणून नावारूपाला येणे ही सन्मानाची बाब असून, त्याचा फायदा विद्यार्थ्यांनी घ्यावा,' असे आवाहन संकुल संचालक डॉ. वसंत बुगडे यांनी केले.

महाराष्ट्र टाइम्स | पुणे | सोमवार, १२ मार्च २०२४

## महाराष्ट्र टाइम्स

### 'जेएसपीएम'चा कौशल्यांसाठी करार

पुणे : 'जेएसपीएम' हडपसर संकुलातील 'जयवंतराव सावंत पॉलिटेक्निकच्या ऑटोमेशन अँड रोबोटिक्स विभाग' आणि 'डॉल्लिन लॅब' यांच्यात नुकताच करार करण्यात आला.

महाविद्यालयातील विद्यार्थ्यांना नियमित शिक्षणासोबतच कौशल्य आधारित शिक्षण मिळावे, विद्यार्थ्यांना रोजगार उपलब्ध होण्याच्या दृष्टिकोनातून करार उपयुक्त आहे.

'नावीन्यपूर्ण तंत्रज्ञानाद्वारे विद्यार्थ्यांना मार्गदर्शन करण्यासाठी आणि त्यांना स्पर्धेसाठी तयार करण्याचे उद्दिष्ट करारातून साध्य होत आहे,' अशी माहिती प्राचार्य डॉ. सुभाष देवकर यांनी दिली. या वेळी प्राचार्य विभागप्रमुख डॉ. विनोदकुमार चंदनकर, 'डॉल्लिन लॅब'चे मुख्य कार्यकारी अधिकारी चित्तरंजन महाजन यांच्या उपस्थितीत करारवर स्वाक्षरी करण्यात आली.

'अत्याधुनिक तंत्रज्ञान प्रोग्रामिंग लॅंग्वेज, प्रकल्प व्यवस्थापन, संभाषण कौशल्ये आदी व्यवसायाभिमुख कौशल्ये प्राप्त करता येणार आहेत. विद्यार्थ्यांना रोजगारविषयक कौशल्ये प्राप्त होण्यासाठी कराराची मदत होणार आहे,' अशी माहिती हडपसर संकुल संचालक डॉ. संजय सावंत व डॉ. वसंत बुगडे यांनी दिली.

महाराष्ट्र टाइम्स | पुणे | सोमवार, ४ मार्च २०२४

Dear Students, Parents, and Staff, Welcome back to a new academic year 2024-25! I am delighted to extend my warmest greetings and heartfelt welcome to each of you.

HOD  
Dr.Chandankar V.M.