



**JSPM's
Jayawantrao Sawant Polytechnic**

Sr. No. 58, Indrayani Nagar, Handewadi Road,
Hadapsar, Pune-411028

Phone No: 020(26970320/26970886/887/888)

Website: jspmispoly.edu.in. Email ID: principal@jspmispoly.edu.in



“TECHNO-SPARK”

By

‘CIVIL ENGINEERING DEPARTMENT’

Newsletter Date: 19th January 2023 (Vol. VI)

Chief Editor: Prof. T.D.Sayyad (H.O.D. Civil Department)

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FOUNDER SECRETARY'S MESSAGE

JSPM's Jayawantrao Sawant Polytechnic was established in 2006 with the objective of creating centre of excellence for education in the field of Engineering. The main objective behind starting the institute was to make technical education available to all who are desirous of achieving it. I also visualized that a social transformation can be brought through the medium of dynamic education, Jayawantrao Sawant Polytechnic is, thus, an institution of technical education with social commitment. With India and Indians, emerging as leaders across various professional sectors, it becomes an even greater challenge for the education sector to nurture and groom such abundant talent, which is all set to take industry's quest for excellence to dazzling new heights. We have created a learning culture, a friendly environment that facilitates complete development of our students. Our three pronged focus on knowledge, skill and attitude is aimed at meeting the needs of our customers, i.e., the industry. To achieve this we have handpicked the best faculty from diverse fields and expertise. We have invested in state of the art facilities, infrastructure and skilled human resources to supplement the culture and environment of the institute's good governance. Moreover, it is 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.



**Prof. Dr. T. J. Sawant
Founder Secretary**

Prof. Dr. T. J. Sawant, Founder Secretary, JSPM



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Principal Message



Dr. S. M. Deokar
Principal

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 lots of Best Wishes...!

DR. S. M. DEOKAR
Principal



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HOD's Desk



**Prof. T.D.Sayyad
HOD**

Department offers Diploma in Civil Engineering with 180 intake capacity. Along with fully equipped Workshop facilities, the department has well equipped Laboratories. The department consists of highly qualified, well experienced and dedicated faculties. Department regularly arranges Expert Lectures and Industrial visits along with workshop and seminars for the development of the students in various field. The department encourages and supports students in extra and co-curricular activities like sports and cultural programmes. We are also focused for the campus placements for our students.

**Prof. T.D.Sayyad
(H.O.D. Civil Department)**



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VISION STATEMENT

“To establish learning environment to reinforce civil engineer who shall maintain professional integrity to serve society with knowledge and skill acquired”.

MISSION STATEMENT

M1.To impart sound theoretical and practical knowledge in the discipline of Civil Engineering, through effective teaching and learning process.

M2.To produce industry and society oriented skillful engineers through co-curricular activities.

M3. To inculcate the moral values amongst student through extra-curricular activities.

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1.Achievements

i. Placement Details

- Our department placement details of 2021-2022:

Sr. No.	Name of Student	Company Name	Package
1	Shitole Amol Bharat	Royal Enterprises	1.8 LPA
2	More Omkar Rajaram	Royal Enterprises	1.8 LPA
3	Chavan Pranav Ravi	Royal Enterprises	1.8 LPA
4	Kamble Suyash Sudhir	Bramha Corp. Ltd.	2.4 LPA
5	Kadale Suraj Balasaheb	Sonai Construction	1.8 LPA
6	Barge Omkar	Ar. Girija Kulkarni	2.2 LPA
7	Tupe Nayan Dilip	Sonai Construction	1.8 LPA
8	Yadav Kirtee Prasad	Shreya Enterprises	1.8 LPA
9	Khedekar Yogesh chandrakant	Shreya Enterprises	1.8 LPA

ii. Toppers In MSBTE Exam

- The principal and the Head of the Departments congratulated all the Toppers of the MSBTE's Summer-2022 examination in the Department. The Class wise toppers are as under:

➤ FIRST YEAR TOPPERS:

Sr. No.	Student Name	Class	Percentage
01	Makwana Mangesh Ashok	FYCE	80.53%
02	Vedpathak Harshad Kishor	FYCE	75.00%
03	Shinde Shriraj Mahadev	FYCE	73.90%

➤ SECOND YEAR TOPPERS:

Sr. No.	Student Name	Class	Percentage
01	Bhange Dnyaneshwar Ramchandra	SYCE	82.00%
02	Kale Abhijeet Ashok	SYCE	81.25%
03	Patil Atharv Kishor	SYCE	78.25%



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➤ **THIRD YEAR TOPPERS:**

Sr. No.	Student Name	Class	Percentage
01	Ingole Prathamesh Rajesh	TYCE	91.58%
02	Bagal Rutuja Rajendra	TYCE	87.37%
03	Kande Sakshi Santosh	TYCE	84.79%

iii.Sports

- Some of the participants from our department in Inter Engineering Diploma Students Sports Association (IEDSSA) 2022-2023 are as below:

Sr. No.	Name of Game	Name of Student
1	Chess (Boy)	Pansare Harshawardan Mahendra
2	Table Tennis	Pawar Ayush Arun
3	Carrom	Harpale Yashraj Sudhir Choudhary Omkar Dnyaneshwar
4	Badminton (Boys)	Kale Abhijit Ashok
5	Kabaddi (Girls)	Arti Fuaram Choudhary Krutuja Santosh Rupnar Krutika Sunil Sintre
6	Kho-Kho (Girls)	Arti Fuaram Choudhary Krutuja Santosh Rupnar Krutika Sunil Sintre Aboli Satiyug Jadhav Shilpa Dattatray Gaikwad
7	Badminton (Girls)	Arti Fuaram Choudhary Krutuja Santosh Rupnar
8	Kabaddi (Boys)	Assim Salim Sayyad Sagar Eknath Gharate Pravin Raguram Choudhary
9	Kho-Kho (Boys)	Govind Ashok Gavali
10	Cricket	Choudhary Omkar Dnyaneshwar Kaustubh Hirakant Ghule Pardeshi Hritik Vishal



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2.Department- Curriculum

i. Departmental Laboratories

1. Environmental Laboratory:-

Environmental lab is utilized by the diploma students for Public Health Engineering as in third year. Lab has total cost of 1,68,857/-. Major equipment in this Laboratory are BOD Incubator, COD apparatus, Spectrophotometer, digital DO meter, Flocculator ect.



2. Surveying Laboratory:-

This laboratory since its inception to the Civil Department carries instruments right from Dumpy Level to advanced Total Station to cater the need of syllabus for diploma students from Second and First year engineering. The laboratory is equipped with instruments like Optical One Second Theodolite and Electronic Total station to be at par with the need of global education system. Total cost of the lab is 6,54,825/-.



3. Strength Of Material Laboratory:-

Strength of Material lab is equipped with some major instruments like Universal Testing Machine having capacity 10000 tonne and Compression Testing Machine having 1000 tonne. This lab setup adequately caters to the academic requirements of Diploma students. The setup can also be utilized for consultancy work regarding testing of different material such as Steel, Concrete, etc. Total cost of lab is 1149870/-



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4. Concrete Technology Laboratory:-

Experiments of Advances concrete technology for Concrete Technology (TY Civil) are performed. Utilized for Research Project of diploma Students. Spacious well equipped laboratory with provision of safety equipment like fire extinguisher, first aid box etc. Consultancy of Testing material i.e. Cement, Aggregate, Steel, bricks, concrete cubes and Concrete mix design are done. Total cost of lab is 1,42,286/-



5. Engineering Mechanics Laboratory

This lab is utilized by first year diploma students for the subject engineering mechanics. The total cost of this lab is 56460/-, major instruments in lab are Worm and worm wheel, screw jack, differential pulley block etc.





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3.Co – Curriculum Activities

i. Industrial Visits

- Department of Civil Engineering organized an Industrial visit at BAIF research station under topic 'Biogas plant and vermicomposting' "for third year students. BAIF is working in 12 states of India and also in other countries. It has wide work under various fields like research in cow production, vermicomposting biogas, etc. Mr. Kanchan Sir, Founder member of firm guided students.



- Department of Civil Engineering has conducted "Industrial Visit" for SYCE students. Main Purpose of visit is to observe the substructure components and various tools/ Equipment's are used at the time of construction. In this site visit students came to know about components identification and how to execute the work from the drawing sheet to the ground also some other important points such as plot area, FSI calculation, rate calculation and fixation of the flats.





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ii. Expert / Guest Lectures

- Department of Civil Engineering conducted a seminar on '**Software's in civil engineering – Auto cad & Revit**' for Second and Third Year students On 19/09/2022 from 1:20 pm to 03:20 pm. Mr. Alok Sasane was the resource person. He has done remarkable work in the field of design and have hands on expertise on various software utilized in civil engineering design.



- Department of Civil Engineering conducted a seminar on '**Carrier Opportunities in Government Organisation**' for Second and Third Year students On 07/10/2022 from 1:20 pm to 03:20 pm. Ms. Sonal Sanjay Jagtap was the resource person





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4.Extra – Curriculum Activities

i. FY Students Fresher's Party & CESA Inauguration

- Department of Civil Engineering conducted a “**Freshers Party & CESA Inauguration**” for First Year students on 30/09/2022 from 1 pm to 4.30 pm.



ii. Bridge & Poster Making Competition

- Department of Civil Engineering conducted a ‘**Bridge & Poster Making Competition**’ for Civil Engineering students on 14/09/2022 & 15/09/2022.



iii. Engineers Day Celebration

- Department of Civil Engineering celebrated **Engineers' Day** on 15/09/2022, honoring the legacy of **Bharat Ratna Sir Mokshagundam Visvesvaraya**, a pioneer of engineering excellence in India. A thought-provoking keynote address was delivered by Mr. Dhekale A. L. emphasized the importance of innovation, ethics, and sustainability in modern engineering.



iv. Teacher's Day Celebration

- Teacher's Day was celebrated with great enthusiasm at **Civil Engineering Department** on **5th September 2022**, commemorating the birth anniversary of **Dr. Sarvepalli Radhakrishnan**, India's second President and a revered educator and philosopher. A floral tribute was paid to Dr. Radhakrishnan, followed by an inspiring address by the Principal, who highlighted the invaluable role of teachers in nation-building.





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5.Students Articles

i. Emerging Trends In Civil Engineering

Civil Engineering is one of the oldest branches of engineering, yet it continues to evolve with technology, materials, and sustainability goals. Today, the industry is witnessing a transformation with modern techniques and innovations that are making structures safer, smarter, and more sustainable. Here are some of the key emerging trends in civil engineering: 1. Sustainable and Green Building Materials 2. Building Information Modeling (BIM) 3. Smart Cities and Infrastructure 4. Prefabrication and Modular Construction 5. Geosynthetics and Ground Improvement 6. Use of Drones and Robotics 7. 3D Printing in Construction.

As diploma students, it is essential for us to stay updated with these trends and continue learning new skills. Embracing technology, sustainability, and smart design will be key to shaping the infrastructure of tomorrow.

Shitole Sarthak Vishal
(SYCE)

ii. Technical cross word-Crop Production

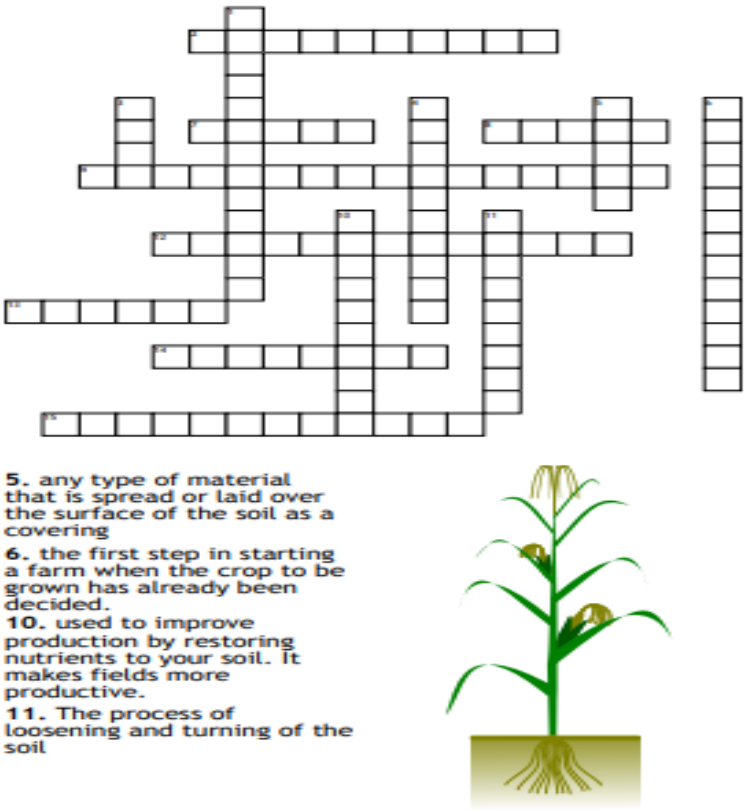
Crop Production

Across

- 2. the shape and rise of the land surface
- 7. unwanted plants which grown along the useful crops
- 8. organic material that forms in soil when plant and animal matter decays.
- 9. the distance between seeds in a given row and the distance between rows
- 12. the ability of the soil to supply essential plant nutrients and soil water in adequate amounts and proportions for plant growth and reproduction.
- 13. the process of planting seeds
- 14. when soil is scraped up and heaped around the base of a plant to form a small mound using a hoe or trowel
- 15. the process of removing trees, stumps, brush, stones and other obstacles from an area of land

Down

- 1. the ability of a soil to sustain agricultural plant growth, i.e. to provide plant habitat and result in sustained and consistent yields of high quality.
- 3. a natural medium for plant growth and it supplies nutrients to plants.
- 4. the method in which a controlled amount of water is supplied to plants at regular intervals for agriculture
- 5. any type of material that is spread or laid over the surface of the soil as a covering
- 6. the first step in starting a farm when the crop to be grown has already been decided.
- 10. used to improve production by restoring nutrients to your soil. It makes fields more productive.
- 11. The process of loosening and turning of the soil



Ingalwad Vyanktesh Vaman
(TYCE)



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6.Upcoming Events

- In the month of February Annual Social Gathering / Cultural Fest will be Celebrate
- In The upcoming months Women's Day, Labour Day, World Water Day will be celebrating.
- Project Work Review & Internal Viva will be taking in the month of April.
- In the month of April the MSBTE's Summer-2023 examination will start.