



**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: 23rd January 2024 (Vol. IV)

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

Editor: Prof. N. R. More (Lecturer)

Student Editor: Mr. Kalpesh Beldar

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



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

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, 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 2022-2023:

Sr. No.	Name of Student	Company Name	Package
1	Sathe Sangarsh Vishno	Quess Corp. Pvt. Ltd.,Pune	2.7 LPA
2	Dugane Pratikesh Ram	Quess Corp. Pvt. Ltd.,Pune	2.7 LPA
3	Manav Bharat Mandlik	Shalan Design & Consultant Pvt. Ltd. Pune	2.0 LPA
4	Kale Abhijeet	Quess Corp. Pvt. Ltd.,Pune	2.7 LPA
5	Ghavane Om R.	Sonai Construction	1.8 LPA
6	Choudhary Rajendra R.	Sonai Construction	1.8 LPA
7	Shirke Anisha Sunil	Royal Enterprises	1.8 LPA
8	Govind Ahok Gavali	Sonai Construction	1.8 LPA
9	Kolpe Jay Somnath	Sonai Construction	1.8 LPA
10	Jadhav Aditya Santosh	Shreya Enterprises	1.8 LPAs

ii. Toppers In MSBTE Exam

➤ The principal and the Head of the Departments congratulated all the Toppers of the MSBTE's Summer-2023 examination in the Department. The Class wise toppers are as under:

➤ FIRST YEAR TOPPERS:

Sr. No.	Student Name	Class	Percentage
01	Kalbhor Chaitanya Anil	FYCE	96.63%
02	Kande Pratiksha Santosh	FYCE	93.58%
03	Kunjir Manswi Ramdas	FYCE	92.63%



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➤ **SECOND YEAR TOPPERS:**

Sr. No.	Student Name	Class	Percentage
01	Bobade Audumbar Balkrushna	SYCE	81.25%
02	Vedpathak Harshad Kishor	SYCE	76.50%
03	Bandal Niranjana Rahul	SYCE	75.37%

➤ **THIRD YEAR TOPPERS:**

Sr. No.	Student Name	Class	Percentage
01	Kolpe Jay Somnath	TYCE	89.00%
02	Kale Abhijeet Ashok	TYCE	86.89%
03	Bhange Dnyaneshwar Ramchandra	TYCE	86.78%

iii.Sports

- We have arranged college level sports event in first week of January 2024 and these are the some of the remarkable achievements of our departments:

Sr. No.	Name of Game	Name of Student	Prize
1	Volleyball (boys)	1. Shivam Zambare 2. Jaipal Rathod 3. Niranjana Bandal 4. Gaurav Naidu 5. Tejas Shelke 6. Zahur Shaikh 7. Tanishq Jagtap	Winner
2	Cricket	1. Harshad Atole 2. Gaurav Naidu 3. Shivam Zambare 4. Jaipal Rathod 5. Tanishq Jagtap 6. Om Ghavane 7. Sushat Choudhary 8. Niranjana Bandal 9. Aditya Puram 10. Zahur Shaikh 11. Ankiet Suryawashi 12. Sayyad Sadek	Runner Up
3	Shotput (boys)	Sadik Sayyad	Winner
4	Carrom (boys)	Harshad Atole	Winner



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5	Carrom (boys)	Saksham Gundgire	Runner Up
6	Chess (girls)	Manasvi Kunjir	Winner

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/-.





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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/-



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

- For third year students, Visit is arranged at “**BAIF Central Research Station at Uruli Kanchan, Pune**”, under the subject of Solid Waste Management. Main Purpose of visit is to get awareness about Vermicomposting, Biogas and its components such as how to dispose and recycling of waste, with reuse, recycle, recover and reduce of waste etc. The information is very useful to TY students for the subject Solid waste Management.



- A Site Visit is organized on 14th of Oct. 2023 by Civil Engineering Department. Site Visit For the classes SYCE I & II. The Site Visit taken in **Jackwell construction** site at perane phata. Er. Ravindra A. Karnavat expressed his views about the Jack well Construction .He given all details regarding Jack well Concept arrangement. He guided us how design foundation, cross section of jackwell, beams, bar detailing, column detailing ,different joints given to jack well construction.



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- For third year students, Visit is arranged at “**Water Treatment Plant, Cantonment Board, Pune**”, under the subject of water resource engineering. Main Purpose of visit is to observe how raw water is transformed into clean, potable water. Purpose of site visit is to Understand the water treatment process from intake to distribution, observe the technologies and systems in place, learn about water quality standards and testing & understand environmental and public health considerations. The information is very useful to TY students for the subject Solid waste Management



ii. Expert / Guest Lectures

- Department of Civil has arranged Guest lecture on "Surface preparation before repairs of structure" Under subject 'Maintenance and Repairs of structure' For TY students on on 11/03/2024 .Mr. Shrikant Sawalkar Speaker on topic Surface preparation before repairs of structure. He gave information about how any Surface or area need to be prepared, precaution to be taken and



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equipment need for Maintenance of structure and how to use different material to remove Corrosion on steel structure



- For First year and second year students Guest lecture on “**Meditation and Yoga**” was organized on date 09/09/2023. The guest speaker was . Dr Chandrakant Shendkar, Meditatioj Trainer and Motivational Speaker, Pune. There were 120 participants. The speaker guided the students about the yoga & Meditation for mind health and peace. The lecture was highly interactive. He guided us yoga & meditation helps the cultivation of a deep collective consciousness of peace and of the individual dignity of each soul.





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4.Extra – Curriculum Activities

i. Tree Plantation

- On the occasion of Mahatma Gandhi Jayanti, “**Tree Planation**” was organised on dated 02/10/2023. Purpose of this activity is to get students the aware regarding the Nature and Need of trees in Human life and their responsibilities regarding Nature and Society. Dr. S. M. Deokar (Principal) inaugurates the Tree Plantation Program. Students were actively participated: work as volunteer, make all necessary arrangement of Tree planation. The Plantation is successfully conducted under the guidance of Mrs. T. D. Sayyad (Head of Department), Mr. J. S. Shendage and Mr. A. B. Phule.



ii. FY Students Fresher's Party

- Department of Civil Engineering and CESA committee conducted a “Freshers Party” for First year student on 9/09/2023 from 1.00 pm to 4.30 pm. The event was organized by SY & TY students under the guidance of faculty members, aiming to make the freshers feel comfortable and part of the college community. The celebration began with a welcome speech by Mrs. T. D. Sayyad, Head of Civil Department. Who encouraged students to focus on both academics and extracurricular activities. This was followed by a series of cultural performances including dance, singing, and drama, where both seniors and freshers showcased their talents. Various games and fun activities were conducted to engage everyone and build interaction among students. The entire session came to end by the vote of thanks delivered by Ms. A. A. Mali.





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iii. Induction Program – First Year & Direct Second Year

- Department of Civil Engineering conducted an “**First Year Induction Programme**” for First Year students On 22/08/2023 from 11 am to 1 pm.



5.Students Articles

i. Engineer's Day–knowledge era

Engineer's Day is celebrated every year in India on **15th September** to honor the birth anniversary of **Bharat Ratna Sir Mokshagundam Visvesvaraya**, one of the greatest engineers the country has ever produced. For us, as budding civil engineers pursuing a diploma, this day is not just a celebration—it's a reminder of the responsibility we carry in shaping a better future. We are living in what experts call the **Knowledge Era**—a time where information, innovation, and intelligence are more valuable than ever. Engineering today is no longer just about concrete, steel, and calculations. It is about using **smart technologies**, **sustainable designs**, and **digital tools** to create efficient and eco-friendly structures.

As diploma students, we are witnessing this transformation firsthand. From AutoCAD to BIM (Building Information Modeling), from AI in construction management to drone surveys, knowledge is evolving rapidly. It is crucial for us to not only keep pace with this change but also contribute to it.

Aglave Om Dnyaneshwar
(TYCE)

ii. Maintenance and repair: The Backbone of Civil Engineerings

In the world of civil engineering, constructing new buildings, roads, and infrastructure is just one part of the job. **Equally important is the maintenance and repair** of existing structures to ensure their safety, efficiency, and long-term performance. As diploma civil engineering students, learning about this essential aspect prepares us for the real challenges of the field. Maintenance refers to the regular inspection and servicing of a structure to keep it in good condition. Whether it's a residential building, a highway, or a bridge, every structure faces wear and tear due to **weather, usage, aging**,



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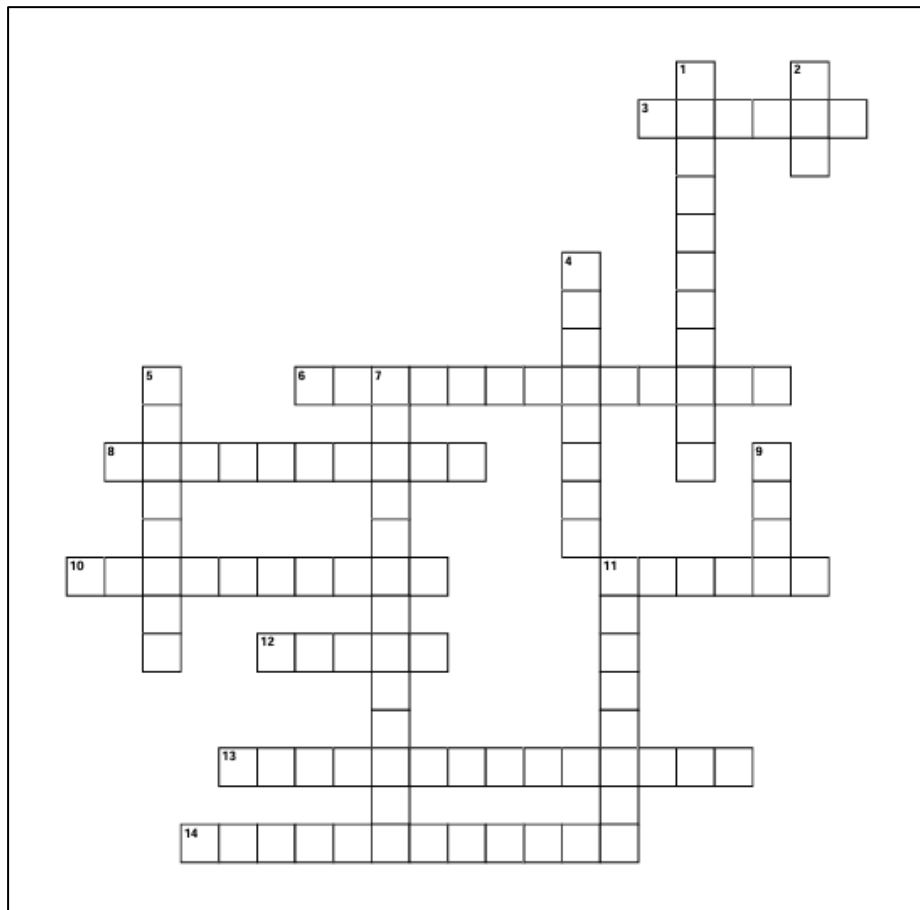


and **natural forces**. Neglecting maintenance can lead to serious consequences like cracks, corrosion, leakages, and even collapse. That's why engineers must plan and execute **preventive, corrective, and routine maintenance** strategies to increase the lifespan of structures and reduce long-term costs. Maintenance and repair may not always be as glamorous as constructing new structures, but they are the **unsung heroes of civil engineering**. They ensure the safety, functionality, and sustainability of infrastructure. As future civil engineers, we must treat maintenance and repair with the importance they deserve and be ready to innovate in this ever-evolving field.

"Good maintenance today prevents disasters tomorrow."

Renake Vivek Arun
(SYCE)

iii. Technical cross word





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Across

- [3]** A type of material used in construction that is made by mixing cement, sand, and water.
- [6]** The measurement of the strength of a material.
- [8]** A type of bridge that is supported by cables anchored at both ends.
- [10]** The base upon which a structure is built; it distributes the load of the structure to the soil below.
- [11]** This structural element is used to support vertical loads in buildings.
- [12]** A type of construction material that is made from heated clay.
- [13]** A device used to measure the distance between two points.
- [14]** The science of designing and constructing buildings and other structures.

Down

- [1]** The force that squeezes a material together.
- [2]** The software used in creating a computer generated model.
- [4]** A system that is used to collect and remove wastewater from buildings.
- [5]** A structure that is built to carry water over an obstacle.
- [7]** Steel bars or mesh added to concrete to increase its strength and durability.
- [9]** A structural member that is used to support weight, typically in a building or bridge.
- [11]** Road construction material that is made from a mixture of gravel, sand, and cement.

Kshirsagar Swayam Nitin
(FYCE)

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-2024 examination will start.