June-2021 Volume 1 Issue 1

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Zeal Polytechnic, Narhe, Pune-41. www.zealpolytechnic.com admissions.zcoer@zealeducation.com 7558666663 / 7558666664

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"Ignited minds are the most powerful resources on earth, and the one billion minds of our nation are indeed a great power waiting to be tapped."



Hon. Mr. S M Katkar Founder Director Zeal Education Society, Pune.

About Institute

Zeal Polytechnic, Narhe, Pune

Zeal Education Society was established in 1996 with the vision to offer education with a difference, the expert guidance of Hon. Shri. S.M. Katkar, a distinguished industrialist. ZES hosts eight institutes that provide quality education to students from preprimary to Ph.D. courses.

Zeal Polytechnic started in 2008 and offers Diploma Courses in Mechanical Engineering, Civil Engineering, Computer Engineering, Electronics and Telecommunication Engineering & Electrical Engineering.

Founder Director's Message

Hon. Mr. S M Katkar

I believe that diploma education provides hands on experience to students. Therefore, as an entrepreneur, I insisted my three sons to take admission in polytechnic before going to higher education in mechanical engineering.

At zeal polytechnic, we are committed to creating an ambience for nurturing innovation, creativity and excellence in our students. We aim to prepare young engineer entrepreneurs and managers. They will have the competence and confidence to face all challenges. It is possible only when we impart high quality technical and managerial education coupled with appropriate training and wide exposure to the state of art practices.

This newsletter lays emphasis on all round personality development and also on inculcating human values and professional ethics. It helps our students become more human and socially responsible beings to lead a meaningful life. I wish a very knowledgeable, healthy and prosperous life to all.

Principal's Message

Prof. Ayub A. Tamboli

I am very happy to note that the department of Civil Engineering of Zeal Polytechnic is releasing its newsletter enumerating the various activities and achievements of their faculty and students. Polytechnic education provides the knowledge and skills required to help revolutionize the world in which we live. The students and faculty of department are proactive in taking initiatives in technical, cultural and social events. I hope this newsletter will serve the purpose of reflecting all activities of this department and it will inspire others to do their best. I congratulate all the students who have put their efforts in bringing this first issue of newsletter and also appreciate HOD and all faculty members for motivating the students towards this fulfillment. I wish each one of them in the department success in all their endeavors.



Prof. Ayub A. Tamboli Ph. D Pursuing, ME(HPE), BE(ME) Principal, Zeal Polytechnic, Narhe, Pune.



Prof. Prashant L. Jadhav M. Tech. (Hydraulics), B.E. (CE) HOD, Department of Civil Engg, Zeal Polytechnic.

H.O.D's Message

Mr. Prashant L. Jadhav

A Civil Engineer shapes the world by building their imagination in reality. By knowing the value and importance of our department, we have cultivated ourselves to meet the needs and expectations of society. The Department of Civil Engineering was established in the year 2010. Taking a glance at the recent history of infrastructure constructions in the world, it is certain that the civil engineering technologies of our country stand at one of the highest levels in the world. Civil Engineers play ever-increasing and visible roles in shaping our future and the world we live in. They seek creative solutions to complex issues in the today's world like engineering sustainable cities, designing, building and renewing the world's infrastructure, meeting growing energy and water demands, and preserving and protecting the environment. Students are also encouraged to participate in project competition and model making to gain practical experiences in preparation of project and competition. Department carries out various civil engineering consultancy works for the private agencies in the field of Designing and Testing.

Editor's Message

Prof. Ankit B. Agrawal

It is with much respect and humility that I present before you this newsletter, which brings into limelight this edition of expressions galore in the minds of our ZEALIAN's. Every creator painfully experiences the charm between his inner vision and the ultimate expression, the charm that is never completely bridged. We all have the conviction, perhaps illusory, that we have much more to say than that appears on the paper. Through the pages of this endeavor you can see the breathings of young hearts, as words are little audible links that bring together the great inaudible feelings and purposes. As a part of education, Civil Department always give importance to practical and hands on practice of engineering knowledge. Also it promotes the students for stage performance to display their knowledge from medium like paper presentation, project competition, quiz competition, workshops, exhibition etc. We are trying to display all of these news in this newsletter.



Prof. Ankit B. Agrawal ME (Structures), B. Tech (CE) Lecturer, Zeal Polytechnic, Narhe, Pune.

I am very happy to play editor role for this department.



"Don't ever let someone tell you that you can't do something. Not even me. You got a dream, you gotta protect it. When people can't do something themselves, they're gonna tell you that you can't do it. You want something, go get it. Period."

Zeal Education Society's Vision...

"To empower society with holistic development through quality education"



Vision

"Transforming dreams into reality by developing an individual's potential through spread of knowledge and wisdom in healthy environment.".



Mission

- Implement comprehensive teaching learning processes to create competent students.
- Focus on character building through a range of curricular and extra-curricular activities.
- Motivate students to identify social needs and provide engineering solutions.

About Department

Department of Civil Engineering

The Department of Civil Engineering was established in 2010. The intake capacity is 180. The department aims at offering the students learnings that will stay with them forever and develop professional skills to help them face the challenges in the industry and create better prospects for them. The curriculum is conducted in a structured manner. The Civil Engineering Department has 07 well equipped labs with latest equipment required for curriculum development. Various industry experts and eminent resources conduct workshops and seminars and share their valuable knowledge and expertise with the students.



Vision

"To create competent, self-disciplined, morally strong Civil Engineers with capabilities of accepting challenges of ever advancing technology for the benefit of society".

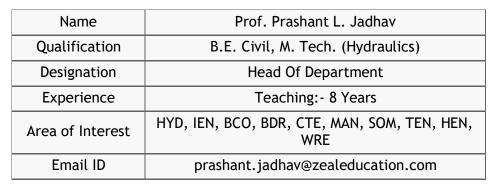


Mission

- To impart quality education in Civil Engineering.
- To raise the satisfaction level of all stake holders.
- To motivate students for proactive learning by creating conductive atmosphere.

FACULTY PROFILE

Department of Civil Engineering



Name	Prof. Mahesh V. Khade			
Qualification	B.Tech. (Civil), M.E. (Hydraulics Engineering)			
Designation	Lecturer			
Experience	Teaching:- 7 Years Industrial:- 2 Years			
Area of Interest	MOS, TRE, PHE, SWM			
Email ID	mahesh.khade@zealeducation.com			

Name	Prof. Bhagoji G. Ranvir			
Qualification	B.E. Civil, M. Tech. (Structural Engineering)			
Designation	Lecturer			
Experience	Teaching: - 5 Years			
Area of Interest	RCC, EAC, SUR, BCS, CMA, DSR			
Email ID	bhagoji.ranvir@zealeducation.com			

Name	Prof. Prataprao T. Patil			
Qualification	B.E. Civil, M.E. Environmental (Pursuing)			
Designation	Lecturer			
Experience	Teaching : 8 Years			
Area of Interest	TOS, MOS, EGM, ASU, PHE, SWM			
Email ID	prataprao.patil@zealeducation.com			











Name	Prof. Priyanka P. Kavathekar			
Qualification	B.E. Civil, M.E. (Hydraulics)			
Designation	Lecturer			
Experience	Teaching: 5 years			
Area of Interest	BCO, CTE, HYD, GTE, PHE, SWM, BDR, CMA, IEN			
Email ID	priyanka.kavathekar@zealeducation.com			







Name	Prof. Prashant K. Nawale			
Qualification	B.E. Civil, M.E. (Construction management)			
Designation	Lecturer			
Experience	Teaching : 7 Years			
Area of Interest	WRE, CTE, CMA			
Email ID	prashant.nawale@zealeducation.com			

Name	Prof. Majaz C. Sheikh		
Qualification	B.E., M.E.(Pursuing)		
Designation	Lecturer		
Experience	Teaching: 2 Years, Industry: 2 Years		
Area of Interest	HEN, TRE, RBE, EAC, RDE		
Email ID	majaz.sheikh@zealeducation.com		

Name	Prof. Ankit B. Agrawal			
Qualification	B. Tech. Civil, M.E. (Structures) (Pursuing)			
Designation	Lecturer			
Experience	Teaching: 2.8 Years, Industry: 3.5 Years			
Area of Interest	MOS, GTE, HEN, PHE, CAA, CAD, TEN, ETC			
Email ID	ankit.agrawal@zealeducation.com			











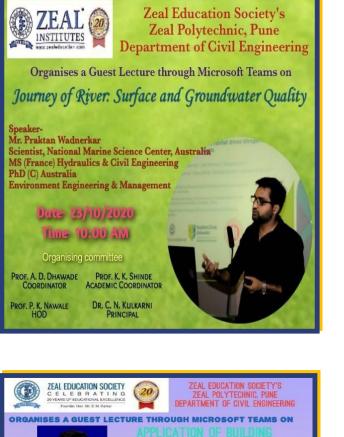
Name	Prof. Aslam I. Shaikh			
Qualification	B.E. Civil			
Designation	Lecturer			
Experience	Teaching: 4 Years			
Area of Interest	Structural Analysis			
Email ID	Aslam.shaikh@zealeducation.com			

Name	Prof. Ajinkay R. Bagade			
Qualification	B.E. Civil, M. Tech. (Structure)			
Designation	Lecturer			
Experience	Teaching: 3.5 Years, Industry: 0.5 Year			
Area of Interest	TRE, SWM, MAN, EST			
Email ID	ajinkay.bagade@zealeducation.com			

Name	Prof. Harsha S. Shinde		
Qualification	M.E. (Structure), B.E. Civil		
Designation	Lecturer		
Experience	Teaching: 5 Years, Industry: 0.6 Year		
Area of Interest	WRE, BCO, CTE, HEN, RBE, GTE, MRS		
Email ID Harsha.shinde@zealeducation.com			
Experience Area of Interest	Teaching: 5 Years, Industry: 0.6 Year WRE, BCO, CTE, HEN, RBE, GTE, MRS		

Name	Prof. Shailesh A. Pandhe			
Qualification	M. Tech (EWRE), B.E. Civil			
Designation	Lecturer			
Experience	Teaching: 1 Years, Industry: 1 Year			
Area of Interest	MOS, GTE, HEN, PHE, CAA,			
Email ID	Shailesh.pandhe@zealeducation.com			
Name	Prof. Sagar T. Kadam			
Designation	Prof. Sagar T. Kadam Lab Assistant			
Designation	Lab Assistant			
Designation Experience	Lab Assistant			
Designation Experience Area of Interest	Lab Assistant Teaching: 1.8 Years -			

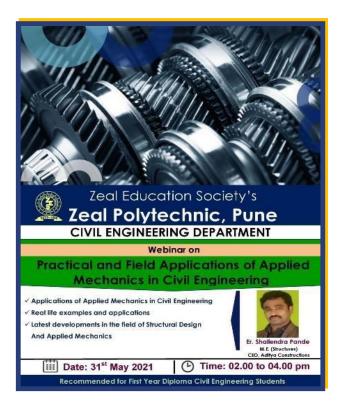
CO-CURRICULAR ACTIVITIES Online Guest Lectures and Workshops

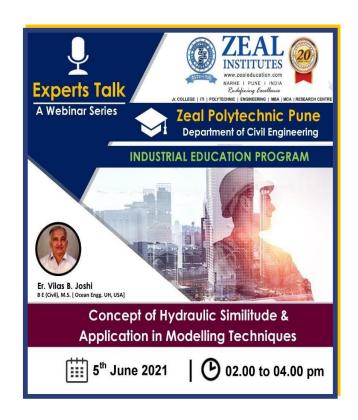




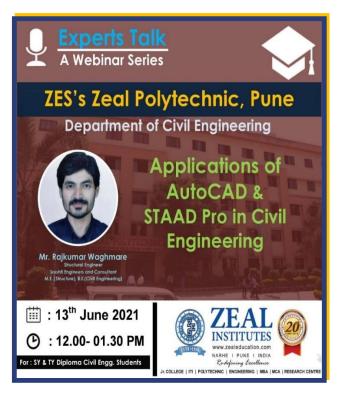












CO-CURRICULAR ACTIVITIES Virtual Site Visits

* Virtual Site Visit organized at Royal Exotica site, Pune-48.

- **Topic** Overall site execution of residential and commercial project
- Date 10/05/2021
- Time 10.00 AM to 12.00 PM
- Medium
 Microsoft Teams











Topic

* Virtual Site Visit organized at Amenora Gold Tower, Hadapsar, Pune.

- Advanced Construction Techniques and Application of Mivan
- Date 12/06/2021
- Time 11.00 AM to 01.00 PM
- Medium
 Microsoft Teams





Industrial Site Visit organized at Nyati Constructions, Pune.





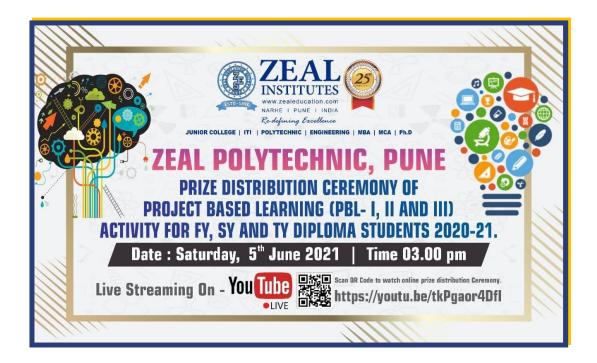


 Industrial Site Visit organized at Solid Waste Management Plant, Katraj Depo, Pune.





EXTRA-CURRICULAR ACTIVITIES Project Based Learning









ZES's Zeal Polytechnic, Pune Project Based Learning Competition-2021 (PBL-I,II & III)





PROJECT BASED LEARNING – I , II & III			Civil	
Second Year Diploma in Civil Engineering				
PBL	Prize	Project Title	Name of the Students	
PBL-I	Winner	Draw C/S of single broad gauge track in embankment	1. Muley Siddesh Sachin 2. Suram Ketan Umakant 3. Suvase Saraswati Popat 4. Bansode Khushi Sanjay 5. Gaikwad Sahil Shekhar	
PBL-II	Winner	Prepare Report on Moment Distribution method used for analyze for indeterminate beam	1. Muley Siddesh Sachin 2. Suram Ketan Umakant 3. Suvase Saraswati Popat 4. Bansode Khushi Sanjay 5. Gaikwad Sahil Shekhar	
PBL-III	Winner	Findout Total Loss through Pipeline	1. Kale Paraji Shriram 2. Kamble Nisha Prakash 3. Khandale Vaibhav Harishchan 4. Kumbhar Shrutika Ramkrishn 5. Mane Samarth Satish	3 👔



ZES's Zeal Polytechnic, Pune Project Based Learning Competition-2021 (PBL-I,II & III)



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PROJECT BASED LEARNING – I , II & III				Civil
First Year Diploma in Civil Engineering				
PBL	Prize	Project Title	Name of the Students	and the second s
PBL-I	Winner	Gather information about Portland cement. Explain its composition and setting time	1. Tanesh Pramod Dhaware 2. Asma Ayub Kazi 3. Kashinath Sanju Waghmare 4. Pravin Ramesh Prajapat 5. Pranjal Bajirao Sonawane	
PBL-II	Winner	Prepare a working model using cardboard or thermocol of two sheave pulley block and calculate the velocity ratio of it.	1. Pranav Satish Chavan 2. Vitthal Abaji Dhebe 3. Pragati Bharat Jadhav 4. Shreeketan Badshah Mane 5. Pravin Nagnath Sangave	
PBL-III	Winner	Prepare charts displaying volume of irregular shapes using concept of integration	1. Anunesh Bapu Vairat 2. Yash Santosh Moghe 3. Sahil Ankush Mate 4. Rohit Balu Mane 5. Mayuri Balaji Sonwane	2 👰



PBL

PBL-I

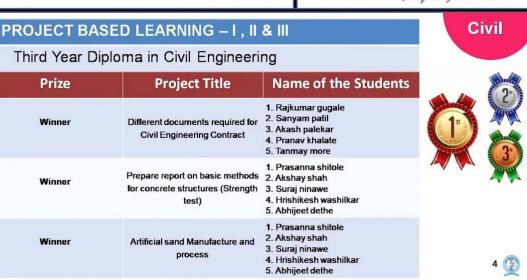
PBL-II

PBL-III

ZES's Zeal Polytechnic, Pune Project Based Learning Competition-2021 (PBL-I,II & III)







EXTRA-CURRICULAR ACTIVITIES World Environment Day

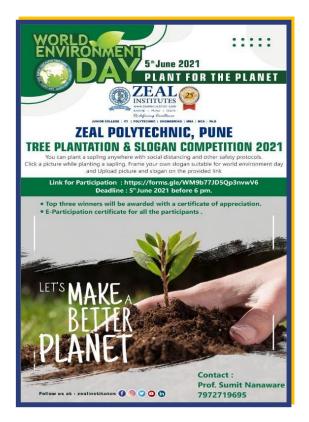
Tree Plantation done on the occasion of World Environment Day in Zeal Polytechnic, Narhe, Pune.







Tree Plantation and Slogan Competition was organized on the occasion of World Environment Day in Zeal Polytechnic, Narhe, Pune.



















And many more...

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STUDENTS ACHIVEMENTS Civil Toppers List (Winter 20-21)

List of Toppers Students from TYCE- Shift I

Sr. No.	Name of the Student	Percentage (%)
1	GUGALE RAJKUMAR AMRUTLAL	96.8
2	PATIL SANYAM KRUSHNARAO	95.8
3	SHITOLE PRASANNA RAHUL	95.7

* List of Toppers Students from TYCE- Shift II

Sr. No.	Name of the Student	Percentage (%)
1	NAIK ARPITA SHIVAJI	92.3
2	SHAIKH SAHIL SURAJ	85.6
3	GIRME MAYURESH PRAVIN	82.5

* List of Toppers Students from SYCE- Shift I

Sr. No.	Name of the Student	Percentage (%)
1	GAIKWAD SAKSHI RANGNATH	94.2
2	TANPURE NILESH BHAGAVAN & DHAGE SWAPNIL RAJARAM	90.2
3	AUNDHE SANKET SOMNATH & KUMBHAR SHRUTIKA RAMKRISHN	90.1

STAFF ACHIVEMENTS

Following faculties from department published their own books and international papers to enhance betterment of subject.

Sr. No.	Name of Faculty		Title of papers	Name of journal/Conference	Year of Publication
		1	Cost Effectiveness of Non- Subsidised Drip over Subsidised Drip Irrigation System	Journal of advance research in science and engineering	2017
		2	Cost Effectiveness of Non- Subsidised Drip over Subsidised Drip Irrigation System	MANTECH Publication	2017
1	Mr. P. L. Jadhav	3	Experimental Analysis Of Scour Depth Reduction By Using Geotextile Riprapping Around Bridge Pier	International Journal of civil engg. And technology(Scopus Indexed Journal)	2018
		4	Partial Replacement of Rice Husk Ash & Waste Tyre Rubber as Cement & Coarse Aggregate in Concrete	International Journal of creative research thought	2018
		5	Experimental study of different method of curing & strength Analysis of concrete cubes	International Journal of Engineering Development & Research(ongoing)	2020
	Mr. M. V. Khade	1	A review of ANN in Rainfall- Runoff simulation.	ICSD-2019	
2		2	Impact Analysis of JSA.	PAnchatatva-2019	2019
L		3	Rainfall- Runoff simulation Using ANN considering Tempreture effects.	ICITT-2019	2017
3	Mr. B. G. Ranvir	1	Rain water Harvesting	IJFEAT	2015
		2	Review on Macro synthetic fiber reinforced concrete	JETIER	Nov-18
		3	Experimental investigation on macro synthetic fiber reinforced concrete	ICIIIST-2019	Mar-19

4	Ms. Kavathekar P. P.	1	Downscaling of climatic variable by using MLR	At Journal of Reserach Analysis and Computation. ICASETM- 2019	2019
		1	Cost and strength analysis on partial replacement of coconut shell in concrete as coarse aggregate	IJARIIE	2019
		2	Testing and mix designing of concrete made with coconut shell as partial replacement for coarse aggregate.	IJSART	2016
5	Mr. P. K. Nawale	3	Cost and strength analysis on partial replacement of coconut shell in concrete as coarse aggregate	PGCON	2019
		4	Influence of fine aggregates on properties of pervious concrete	JETIR	2019
		5	Identification and categorization of water scarcity zones in Purandhar Taluka in Pune district by using QGIS	JETIR	2019
6	Mr. A. R. Bagade	1	Experimental Analysis of Aluminum Honeycomb sandwich panel	International Journal for Scientific Research and Development	2019
		1	Influences of Masonry Infill Wall, Tie Beam and RCC Bracing on Soft Storey Mechanism	IJSER, ISSN 2229-5518 Volume 6, Issue 2, February-2015, Page No.422	2015
7	Ms. Shinde H. S.	2	Theory Of Constraint At An Industry	(IJSART), Volume 7, Issue 2 - February 2021, ISSN [Online]: 2395-1052, Page No.17.	2021
		3	How to Use Plastic Waste to Construct Rural Road	IJSRD - , Vol. 8, Issue 12, 2021 ISSN (online): 2321- 0613,Page No.171	2021

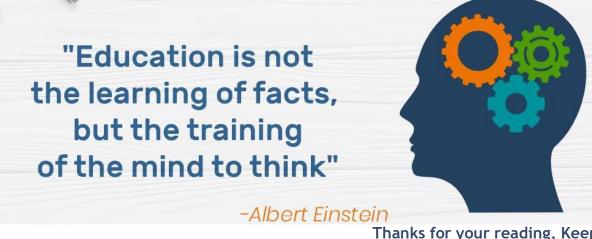
The staff of Civil Department always trying to update themselves as per curriculum requirement. Under this Work shop and training regularly conducted and attended for the same

* As usual for grooming of students and their projects, department of civil engineering has done memorandum of understanding with different industries for a specific period of time. The concern industries help to students to upgrade knowledge and hands on practice

Name of Company	Type of Company	Contact Person	MOU Period
Srushti Engineers Pvt. Ltd.	Software Training Institute	Mr. Rajkumar Waghmare 9028575919	1 Year
CADD Centre, Narhe, Pune	Software Training Institute	Ms. Rashmi Sharma 72194 76678	3 Years
Shivraj Construction	Construction	Mr. Amoghi Shinde 77739 67745	3 Years

The External Monitoring Committee has remarked as following.

Academic Year	First Shift	Second Shift
2019-20	Very Good	Very Good
2018-19	Very Good	Good
2017-18	Very Good	Good
2016-17	Good	Good
2015-16	Excellent	Very Good



Thanks for your reading, Keep visiting...