

ACADEMIC PERFORMANCE

The students have showed excellent performance in university examination. Result of S.E, T.E and B.E classes in April/May 2019 examination are as follows

a) Performance in University Examination

- **Mr. Nora Prajwal** from final year Civil Engineering Class bagged University “**Gold Medal**”. He got this prize for scoring highest marks in DCS subject in entire Solapur University.



UNIVERSITY RANKERS OF CLASSES 2019-20

BE (Civil)

Rank	Name of Student	Percentage
I	Palase Adinath Nitin	87.33
II	Mittapalli Jayendra Krishnasagar	85.94
III	Beriya Saniya Ayyub khan	85.90
IV	Savakar Harish Dattatray	85.71
V	Khaster Pritam Ganesh	85.23

TE (Civil)

Rank	Name of Student	Percentage
I	Dharashivkar Umera Samreen AejaZAhmed	91.5
II	Gaikwad Vaishnavi Ramchandra	91.25
III	Baghban Md Alqama Rajasaheb	91
IV	Shinde Yash Rajesh	90.87
V	Vijapure Junaid Zakir Hussain	90.62

SE (Civil)

Rank	Name of Student	Percentage
I	Ligade Ankita Prakash	86.44
II	Jogdankar Asharani Laxman	85.24
III	Dudam Laxminarayan Dasharath	84.64
IV	Mate Kalyani Ganapati	84.60
V	Babar Sujata Dilip	84.08

DEPARTMENT OF CIVIL ENGINEERING

NEWS LETTER

MAY 2021

STUDENTS ACHIVEMENTS

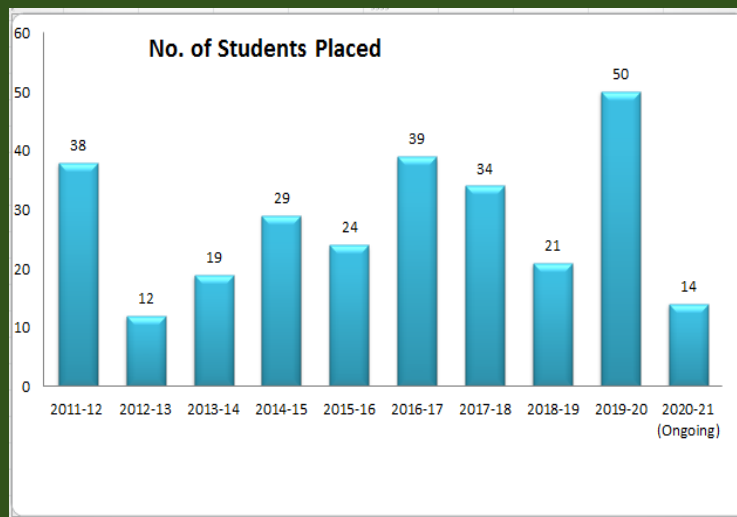
HARD
WORK
BEATS
TALEN,
WHEN
TALENT
DOESN'T
WORK
HARD

BEST OUTGOING STUDENT OF THE DEPARTMENT

- **Ms Vaishnavi Gaikwad** of B.E Civil class has been selected as the Best Outgoing Student of the Department for the A.Y. 2020-21



PLACEMENTS- A.Y. 2020-21



14* Students have been placed till date this Academic Year, placements are ongoing.

GATE- A.Y. 2020-21

NK Orchid College of Engineering & Technology, Solapur

Department of Civil Engineering



Miss. Vaishnavi Gaikwad
(GATE Score 52.82)



Mr. Dattatray Dandagal
(GATE Score 42.18)



Mr. Indrakumar Bhingare
(GATE Score 41.15)



Mr. Abhishek Suryawanshi
(GATE Score 40.34)



Mr. Jinal Vajpure
(GATE Score 33.28)



Mr. Arun Kodur
(GATE Score 29.21)



Mr. Babji Madda
(GATE Score 27.52)



Mr. Dnyaneshwar Vitkar
(GATE Score 27.22)



Mr. Sujit Vanjare
(GATE Score 23.01)

Heartiest Congratulations to All
GATE 2021 Qualified Students

Ten students from **Civil (B.E.-08 & T.E.-02)** class qualified in **GATE-2021** Examination.

Extra classes were conducted in the month of December and January by Civil engineering department to guide the students **for GATE-2021.**

NPTEL EXAMINATION

National Programme for Technology Enhanced Learning (NPTEL) is a joint initiative of IITs and IISc to offer online courses and certification in various domains with the motive **learn for free, pay a small fee to write an exam and get a certification**. I am happy to mention here that our students are actively participating in many NPTEL courses. The participation details for academic year 2020-21 are as follows:

NPTEL 2020-21 EXAMINATION

Sr	NPTEL Course	No. of Students Registered
1	Design of Reinforced Concrete Structures	Final Year- 116
2	Design of Steel Structure	TY- 82
3	Geotechnical Engineering	TY- 76
4	Soft Skill	SY- 92
5	Geosynthetics and Reinforced Soil Structures	Final Year - 41
6	Maintenance and Repair of Concrete Structures	Final Year - 109
7	Structural Dynamics	Final Year - 30
8	Environmental Remediation of Contaminated Sites	Final Year - 78
9	Soil Structure Interaction	Final Year - 11
10	Remote Sensing Essentials	Final Year - 28
Total		663



Free Online Courses



FACULTY PUBLICATIONS



On the occasion of Teachers' day, Institute felicitates faculty members who have shown excellent performance throughout the Academic year. **Prof. R. G. Maske** was honored with **Best Teacher** award from Department of Civil Engineering for the Academic Year 2019-20.

FACULTY PUBLICATIONS

Our Institute motivates Faculty members to publish their research in National and International Journals with high impact factors. Following paper is published in International Journal.

FACULTY PUBLICATIONS

- 1) **V. K. Patki, Jyotiprakash Nayak and L. G. Patil (2021)** "Artificial Neural Network based water quality index (WQI) for river Godavari (India)" Materials Today Proceedings Journal (**Elsevier Publisher, Scopus Indexed**).
- 2) **S. S. Jahagirdar, V. K. Patki, G.J. Kulkarni (2021)** "Recycle of textile mill sludge in different grades of concrete" Materials Today Proceedings Journal (**Elsevier Publisher, Scopus Indexed**).
- 3) **Karale R.S, Jahagirdar S. S, Patki V. K, G.J. Kulkarni (2021)**. "Degradation of personal care product 2-Chloropyrine detected in surface water" Materials Today Proceedings Journal (**Elsevier Publisher, Scopus Indexed**).
- 4) **Patki V. K, Jahagirdar S. S., G.J. Kulkarni (2021)**. "Prediction of water quality in municipal distribution system" Materials Today Proceedings Journal (**Elsevier Publisher, Scopus Indexed**).
- 5) **Patil Y.M., Patki V. K., Jahagirdar S. S., G.J. Kulkarni (2021)**. "Grey water treatment by vegetated vermifilter: A low-cost material for rural sanitation in India". Materials Today Proceedings Journal (**Elsevier Publisher, Scopus Indexed**).
- 6) **G.J. Kulkarni G.J., Jahagirdar S. S., V. K. Patki (2021)** "Compressed light weight bricks using fly ash & foaming agent" Virtual Conference on disaster risk reduction (VCDRR) (**Springerlink Publisher, Scopus Indexed**).
- 7) **Jahagirdar S. S., V. K. Patki (2021)** "Impact of Temple waste on the Environment and its Mitigation" Virtual Conference on disaster risk reduction (VCDRR) (**Springerlink Publisher, Scopus Indexed**).
- 8) **Patki V.K., Vijay Babu, Palase A. N. (2021)** "Integrated onsite grey water treatment with constructed wetland for household application" Virtual Conference on disaster risk reduction (VCDRR) (**Springer Publisher, Scopus Indexed**).
- 9) **Nirantar S. R. (2021)**. "A Review of factors influencing foundation stability of tall structures" International Conference on Recent Advances in Geotechnical Earthquake Engg. & Soil dynamics (ICRAGEE) (**Springer Publisher, Scopus Indexed**).

RESEARCH FUNDING

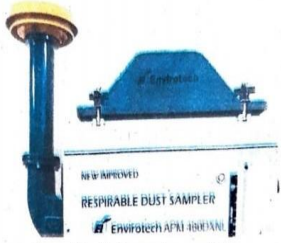
a) Our department has received grant in aid from Maharashtra Pollution Control Board (MPCB), Mumbai for establishing and monitoring Ambient Air Quality Monitoring Stations (AAQS) at following cities This funding has been received through State Ambient Air Monitoring Programme (SAAMP). The details are as follows.

Sr. No.	Name of City	No. of Station	Total Grant
1	Solapur	02	20,88,534/-
2	Barshi	03	24,81,933/-
3	Pandharpur	01	16,95,138/-
4	Osmanabad	03	24,81,933/-
Total Grant			87,47,538/-

त्रासदायक ठरणाऱ्या अतिसूक्ष्म धुलीकणावर संशोधन

शहरात दोन ठिकाणी प्रदूषण मापक यंत्रणा : एमपीसीबी, ऑर्किड कॉलेजचा पुढाकार

श्रीलक्ष्मीकावळे लोकमत न्यूज नेटवर्क सोलापूर : शहरात वाढणाऱ्या धुलीमुळे अनेक सोलापूरकरांना श्वसन व पुष्पफुसाचा त्रास होतो. हवेतील सूक्ष्म धुलीकण (पार्टिक्युलेट मॅटर १०), अतिसूक्ष्म धुलीकण (पीएम २.५), कार्बन डायऑक्साइड, नायट्रोजन अशा घातक वायूंची भोजणी करण्यात येणार आहे. यासाठी शहरात दोन ठिकाणी प्रदूषण मापक यंत्र बसविण्यात येणार आहे. सध्या वालचंद अभियांत्रिकी महाविद्यालय (अक्कलकोटरोड, एमआयडीसी) व वीरोनेको प्रशाला (रंगभवन) येथे दोन यंत्र सुरू आहेत. यात आता वाढ होणार असून, देशबरोड व रूपा भवानी मंदिर परिसर या ठिकाणी आपसी दोन प्रदूषण मापक यंत्रणा कार्यान्वित होणार आहेत. नव्या यंत्राचे वैशिष्ट्य म्हणजे यात अतिसूक्ष्म धुलीकणाचे (पीएम २.५) प्रमाण तपासणे शक्य आहे. सोलापूर शहरासाठीच बाराही शहरात तीन ठिकाणी, तर पंढरपूर शहरात एका ठिकाणी प्रदूषण मापक यंत्रणा



हवेतील सूक्ष्म धुलीकण (पार्टिक्युलेट मॅटर १०) मोजण्यासाठीचे यंत्र.

नवीन जिल्हाधिकारी कार्यालयात सीएएमक्यूएमएस

सात रस्ता येथे असणाऱ्या नवीन जिल्हाधिकारी कार्यालयात कॅटिड्यूस एंबिंटेंट एयर क्वालिटी मॉनिटरिंग सिस्टम (सीएएमक्यूएमएस) बसविण्यात येणार आहे. या नव्या तंत्राच्या माध्यमातून पीएम २.५, पीएम १०, सल्फर डायऑक्साइड, ऑक्साइड ऑफ नाइट्रोजन, कार्बन मोनोक्साइड, ओजोन, अमोनियासहित इतर वायूच्या प्रमाणाची माहिती मिळणार आहे. प्रत्येक मिनिटाची स्थिती तेथील डिस्प्लेवर पाहता येईल.

कार्यान्वित होणार आहे. महाराष्ट्र प्रदूषण महाविद्यालय यांच्या सहकार्याने निरंजण मंडळ व ऑर्किड अभियांत्रिकी धुलीकणावर संशोधन होईल.

शहरात नव्याने मॅन्युअलपद्धतीचे दोन प्रदूषण मापक यंत्र बसविण्यात येणार आहे. याची प्रकियादेखील पूर्ण झाली आहे. यासोबतच नवीन जिल्हाधिकारी कार्यालयात सीएएमक्यूएमएस यंत्रणा बसविण्याचे निवोन करण्यात आले आहे.

- प्रशांत भोसले, उपप्रादेशिक अधिकारी, प्रदूषण निरंजण मंडळ, सोलापूर

शहराचे हवेची गुणवत्ता तपासण्यासाठी या नव्या यंत्रणांचा उपयोग होईल. महाविद्यालयातील प्रयोगशाळेत पुढील तपासणी व अंमलबजावणी करणार आहेत. तसेच एखाद्या विशिष्ट ऋतूत किती प्रदूषण असते हेही तपासले जाईल.

- डॉ. विनायक पट्टी, विभागप्रमुख, ऑर्किड अभियांत्रिकी महाविद्यालय



b) Dr. S. S. Jahagirgar and Dr. V. K. Patki has received research grant of Rs. 4,00,000/- for the project “Utilization of Solid wastes generated from textile mill, granite marble cutting, foundry and stone crusher industries in burnt clay bricks” from Maharashtra Pollution Control Board (MPCB), Mumbai.



Fig. 1 Sludge



INDUSTRY-INSTITUTE INTERACTION

TESTING & CONSULTANCY ACTIVITIES

Civil Engineering Department is having highly qualified faculty members in all specializations and has the state-of-art laboratories. The department offers Testing and Consultancy in the following areas-

- 1) Testing of Materials (for Buildings and Roads)
- 2) Concrete Mix Design
- 3) Surveying with Total Station
- 4) Soil Testing and Geotechnical Investigations
- 5) Proof Consultancy for Structural Designs
- 6) Water and Waste Water Testing

Total Earning from Testing and Consultancy for AY 2019-20

4,38,400/-

INTERNSHIP & ONLINE TRAINING



➤ Students of SY and TY (Civil) have completed various Online Training courses in Winter and Summer vacations through various online Technical Course site like **NEAT2.0, Coursera, Udemy** etc. This training helped the students to get Technical Knowledge.



112 Final year students have completed their full one semester s internship from various industries.

➤DBATU has changed the structure of the last semester for Final Year students. As per this new structure, students have to spend their last (VIIIth) semester in the Industry in the form of Internship.

➤Following is the list of regionally as well as nationally reputed Industries from which the students have pursued their Internships.

Sr. No.	Name of Industry	Nos. of Students	Stipend
1	Parthavi Construction, Nanded	02	10,000/- (Internship + Placement)
2	Bharat Vishwakarma, Mumbai	01	5000/- (Work from Home)
3	Hiren M. Tanna Consultant, Mumbai	01	7500/- (Work from Home)
4	BIM Edge Consultants Pune	05	No
5	Pragati Builders	01	6000/-
6	Abhiraj Constructions	04	No
7	Battul Consultancy	01	5000/-
8	Unity Constructions	04	No
9	Om Construction	03	3000/-
10	Soil & Water Conservation GOM	01	7000/-
11	Maheshwari Construction, Solapur	01	6500/-
12	Om Darak Construction, Solapur	01	4000/-
13	GR Infrastructure Ltd.	04	No
14	Gayatri Developers	02	No
15	CWPRS, Pune	05	No
16	NHAI, solapur	25	No
17	Surya Group	04	No
18	Shri Swami Samarth Construction, solapur	01	15000/-
19	Innovation Vastunirman Pvt. Ltd.	01	8000/-
20	STUP Consultants Pvt. Ltd.,Pune	01	No
21	Unity Multicon Ltd., Solapur	10 (2 Batch)	No
22	Computer Help, Structural Engineers and Software Developers, Mumbai	03	4000/-
23	Pinclick Property Management Pvt.Ltd, Bangalore	06	Internship + Placement
24	JagaNand Structural Consultant, Solapur	01	3500/-
25	V.M. Mhatre Infra Pvt. Ltd., Pune	02	5000/-
26	M/s Subhash Deshmukh & Company, Solapur	01	3000/-*
27	Vatsalya Consulting services, Aurangabad	04	No
28	Vatsalya Consulting services, Aurangabad	05	No
29	PCMC water supply Department, Pimpri Chinchwad, Pune / Galaxy Group, Solapur (Panache) (In Process)	04*	No
30	Abhiraj Construction, Barshi	03	No
31	SCG Design Solutions, Pune	02	No
32	Awtade Infra structures, Solapur	03	No
Total		112	

SOFTWARE TRAINING



Sr. No	Course Title	Name of Faculty (Coordinator's)	Course Duration	Number of Students Attended(Registered) From		
				NKOCET	Diploma Colleges	Other Institute
1	Online Internship training on "Analysis and Design of Structure using Software" (STAAD Pro)	Prof. Sangave P.A., Prof. Kankuntla AY Prof. Maske R.G. Prof. Kulkarni S.R.	Two Week (01/06/20 to 15/06/20)	00	04	50
2	Online training on "AUTOCAD- 2D and it's Civil Engineering applications (CAD Training)"	Prof. Kale S.M. Prof. Kulkarni SR	Two Week (22/06/20 to 06/07/20)	09	00	14
3	Online Internship training on "Analysis and Design of Structure using Software" (STAAD Pro)	Prof. Kankuntla A.Y.	Two Week (22/06/20 to 06/07/20)	00	00	15
4	Online training on "AdvancedSTAAD PRO(2D & 3D) course"	Prof. Sangave P.A Prof. Maske R.G.	Two Week (24/06/20 to 08/07/20)	00	01	22

COLLABORATIVE ACTIVITIES CONDUCTED WITH ISRO/IIRS



INDIAN INSTITUTE OF REMOTE SENSING

Indian Space Research Organisation
Department of Space, Government of India

The Indian Institute of Remote Sensing (IIRS) - is a constituent unit of Indian Space Research Organization (ISRO), Department of Space, Govt. of India. The Institute has a strong, multi-disciplinary and solution-oriented research agenda that focuses on developing improved methods/ techniques for processing, visualization and dissemination of Geo-information for various societal applications and better understanding of Earth's system processes.

NK Orchid College of Engineering & Technology, Solapur is an Institute Chapter of IIRS and co-ordinates the conduction of online training programs by IIRS for the Institute students. The programs conducted in this academic year are as follows.

Sr. No	Details of Activity	Date	No. of Students Participated
1	Prof. F. S. Kazi coordinated Online Training Course on Satellite Photogrammetry & Its Application organized by IIRS Dehradun	29 th June to 03 rd July 2020 (1 week)	10
2	Prof. F. S. Kazi coordinated Online Training Course on Remote Sensing & Digital Image Analysis organized by IIRS Dehradun	17 th Aug. to 11 th Sept.2020 (3weeks)	09
3	Prof. F. S. Kazi coordinated Online Training Course on Global Navigation Satellite System organized by IIRS Dehradun	14 th to 25 th September 2020 (2weeks)	5

EVENTS CONDUCTED BY STUDENTS ORGANIZATION (CESA)

Sr. No.	Topic	Resource Person & Date
1	Opportunity for Engineers in Civil Services	Er. Manoj Patil SP, Solapur Gramin, Solapur for SE, TE & BE Students.(27th Aug. 2020)
2	Built Environment for Career opportunity	Dr. Pratapsinh Desai Prsident ISTE, New Delhi for SE, TE & BE Students.(5th Sep. 2020)
3	Alumni Talk- Unforeseen Journey	Mr. Prashant Patil Geotech. Engineer, Gessner Engg. for SE, TE & BE Students.(15th Sep. 2020)
4	Engineers for a self-reliant India	Mr. Mohan Degaonkar for SE, TE & BE Students.(7th Sep. 2020)
5	Job Opportunities	Er. Mahesh Shavari Sr. Test Engineer,Standard Chartered BankAPAC, Singapore for SE, TE & BE Students.(10th Oct. 2020)
6	Placement Opportunities in MMRDA	Er. Rohan Executive Engineer, MMRDA for SE, TE & BE Students.(22nd Oct. 2020)
7	Management the Need of Time	Mr. Bhaskar Pere-Patil Sarpanch, Patoda Dist. aurangabad for SE, TE & BE Students.(26th Nov. 2020)
8	Alumni Talk- Introduction to Permanent Way	Er. Sandip Sutar, Junior Engineer, Central Railway for SE, TE & BE Students.(15 th Dec. 2020)
9	Advance formwork for RCC structure	Er. Amol Mehta Project Management Coordinator, Unity Multicon Pvt. Ltd. Solapur for SE, TE & BE Students. (9th Jan. 2021)
10	How to Tackle UPSC Civil Services Examination	Mr. Shriniwas Malekar Asst. Director, Ministry of Youth Affairs and Sports of India for SE, TE & BE Students. (5th May 2021)

N.K. Orchid College Of
Engineering And Technology, Solapur
Department Of Civil Engineering

Experts Talk
Arranged By CESA

Er. Mahesh Shavari
(Sr. Test Engineer
Standard Chartered Bank APAC
Singapore)

Topic
**Job Opportunities and Higher
Studies Abroad**

Arranged On
Saturday 10th October 2020 At 12 noon
Live On YouTube

Prof.S.R.Kulkarni
Prof.D.N.Rajgiri
CESA- Faculty Co-Ordinators

Dr.V.K.Patki
Head
Dept. of Civil Engg.

Dr.J.B.Dafedar
Principal

N.K. Orchid College Of
Engineering And Technology, Solapur
Department Of Civil Engineering

**Engineer's Day
Celebration**
Arranged by CESA

Chief Guest
Dr. Mohan Dagaonkar

Topic
'Engineers for a self-reliant India'

Arranged on
Tuesday 15th September 2020 At 12 noon

Prof S R Kulkarni
Prof D N Rajgiri
CESA- Faculty Co-Ordinators

Dr.V.K.Patki
Head
Dept. of Civil Engg.

Dr.J.B.Dafedar
Principal

N.K. Orchid College Of
Engineering And Technology, Solapur
Department Of Civil Engineering

ALUMNI TALK
Arranged by CESA

Chief Guest
Er. Prashant Patil
(Geotechnical Engineer at
Gessner Engineering, LLC.)

Topic
Unforeseen Journey

Arranged on
Monday 7th September 2020 At 6:30 p.m

Prof S R Kulkarni
Prof D N Rajgiri
CESA- Faculty Co-Ordinators

Dr.V.K.Patki
Head
Dept. of Civil Engg.

Dr.J.B.Dafedar
Principal

N.K. Orchid College Of
Engineering And Technology, Solapur
DEPARTMENT OF CIVIL ENGINEERING

Teacher Day Celebration

Chief Guest
Hon.Dr.Pratapsinh Desai
(President, ISTE, New Delhi)

Arranged on
Saturday 5th September 2020 At 10 a.m
LIVE ON YOUTUBE

Prof S R Kulkarni
Prof D N Rajgiri
CESA- Faculty Co-Ordinators

Dr.V.K.Patki
Head
Dept. of Civil Engg.

Dr.J.B.Dafedar
Principal

PARTICIPATION OF STUDENTS IN COMPETITIONS

Following Students bagged prizes in paper presentations and other technical competitions held by various institutes in academic year 2020-21.

Sr. No.	Name of student & Class	Competition	Organized by	Prize
1	Ms. Vaishnavu Yedur, Ms. Vaishnavi Divate, Ms. Prarthana Bansode & Suhasini Jind (SE)	Online Project Presentation	RAILMIT2020	First
2	Mr. Vitkar Dnyaneshwar (BE)	Auto CAD War	AGTECH FEST AGPIT, Solapur	Second
3	Mr. Vitkar Dnyaneshwar (BE)	TechDraw Event	DISTA- 20 NBNSCOE, Solapur	First
7	Ms. Sneha Kairamkonda (BE)	Poster Presentation	Kshitij2k20 SVERI Pandharpur	Second
8	Mr. Vitkar Dnyaneshwar (BE)	CAD Race	OLYMPUS2k20 SVERI Pandharpur	First

LOCKDOWN ONLINE ACTIVITIES



Webex Meetings



Google Meet



- Conducted online lecture for all the SE , TE and BE Classes on Zoom, Microsoft Team, Webex, Google Scholar platform for every class.
- Conducted online test series, CA-II and Mid Sem on Google form platform for every class.