



Shri Guru Gobind Singhji Institute of Engineering & Technology, Nanded  
(Government Aided Autonomous Institute)

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# DEPARTMENT OF CIVIL ENGINEERING NEWSLETTER

## Volume -I

## Issue-II

## January to June 2020



**Institute Vision:**

“Education of Human Power for Technological Excellence”

**Institute Mission**

- Dissemination of knowledge by offering world class education
- Right to information for all stakeholders
- Promotion of sustainable industrialization to development of appropriate technologies
- Continuing education programs for reengineering of regional socio-economic system in the light of dynamic, global technological changes
- Contribution to national wealth through innovation

**Department Vision:**

To be a leader in teaching, research, and consultancy services in Civil Engineering

**Department Mission:**

- To provide quality education to students in a vibrant environment for a successful career in Civil Engineering
- To attract and encourage students for carrying innovative research by providing them with state-of-art infrastructure and knowledge base
- To provide consultancy services to industries and organizations for resolving real life problems so as to cater societal needs
- Integrate sustainable practices into all aspects of departmental planning and operations, focusing both on the current and future implications

**About Department:**

The Department of Civil Water Management Engineering was established in the year 1984 with an intake of 30. Subsequently, the intake was increased to 40 in 2002 and Then again increased to 60 in 2015. Change of nomenclature of Civil-Water Management (UG) to Civil Engineering (UG) effected from 2015. The Department has a good academic culture and conducive working environment. The equipment in the laboratories of different subject areas have been procured from the funding of State Government and AICTE funded projects under the category of MODROB and R&D. The infrastructure is sufficient to achieve the academic excellence. In addition to the strong placement, students are getting good ranks in GATE examination.

The Department runs two PG courses namely Water Management since 1991 with an intake of 18 and Structural Engineering since 2015 with intake of 18. The Department is a recognized Research Centre of Swami Ramanand Teerth Marathwada University. The AICTE under QIP has sanctioned two scholarships for full-time research work leading to Ph. D. degree. The M. Tech. and Ph. D. students publish high quality research papers in National and International journals. The department is having close association with the academic institutes like IIT Mumbai, VNIT Nagpur, NIT Warangal and BITS Pilani, Hyderabad campus etc.

## Faculty Development Programmes (FDP):

**AICTE-QIP short term course on “Stability and Rehabilitation of Engineering Structures”**

**Coordinator: Dr. M.L.Waikar, Co-coordinator: Dr. G. D. Awchat**

**Duration:** 06<sup>th</sup> January 2020 to 10<sup>th</sup> January 2020 (1 week)

Department of Civil Engineering, SGGS IE &T, Nanded successfully conducted a one-week AICTE QIP funded FDP during 06-10 January 2020 on Stability and Rehabilitation of Engineering Structures. The course started with inauguration function with the agile presence of I/C Director, Dr. R. H. Chile, Dean R&D & QIP Coordinator, Dr. R. R. Manthalkar, Head of Civil Engineering Department, Dr. L. G. Patil, and Course Coordinator Dr. M. L. Waikar & Dr. G. D. Awchat. Dr. M. L. Waikar gave brief information about the short term course. Dr. L. G. Patil gave detailed information about department activities. Dr. R. R. Manthalkar addressed QIP activities and R&D in the institute. I/C Director, Dr. R. H. Chile addressed the presidential message to the gathering. Experts from local Institute, faculty from reputed engineering colleges and industry were invited to deliver expert sessions. About 25 faculty from engineering colleges and polytechnics selected from all over Maharashtra took benefit of this interdisciplinary course. Valedictory function and distribution of certificate of participation and reliving letter was done in presence of Mr. C. N. Kurhe, Structural Consultant, Nanded, Dr. M. L. Waikar proposed vote of thanks of this one week short term course.



**AICTE-QIP short term course on “Analytical Techniques for Applied Research”****Coordinator: Dr. M. L. Waikar, Co-coordinator: Dr. P. D. Dahe****Duration:** 16<sup>th</sup> February to 20<sup>th</sup> February 2020 (1 week)

Department of Civil Engineering, SGGS IE &T, Nanded successfully conducted a one-week AICTE QIP funded FDP during 16-20 February 2020 on Analytical Techniques for Applied Research. The inauguration of this FDP was held on 16/02/2020. Dr. M. L. Waikar, Course Coordinator gave welcome address and Dr. P. D. Dahe, Course Coordinator, provided opening remarks regarding the course content. Prof. Rajesh Gupta, VNIT, Nagpur delivered inaugural address and discerned the importance of topic and need of such courses. Experts from local Institute, faculty from reputed engineering colleges and industry were invited to deliver expert sessions. About 25 faculty from engineering colleges and polytechnics selected from all over Maharashtra took benefit of this interdisciplinary course. The valedictory function address was given by Prof. D. G. Regulwar, GCOE, Avasri.



## **Value Added Course: (Computer Aided Drawing)**

**Coordinator: Dr. P. D. Dahe**

A practical training program on computer aided drawing for S.Y. Civil Engineering students is organised during 11 January 2020 to 10 March 2020. The training was conducted as a two hour practical session on each Saturday. The external agency, Param Engineers and Associates, Cidco, Nanded conducted the all practical sessions. It was very informative and interactive that the students were able to know about the various aspects of computer aided drawing.



## Guest Lecture:

A guest lecture on Satellite Remote Sensing and its application was conducted on 15th January 2020. The lecture was addressed by Dr. Tarendra Lakhankar, Senior Scientist NOAA-Center for Earth System Sciences & Remote Sensing Technologies The City College of the New York, USA. The lecture covered various topics of Remote sensing including its applications in water resource, land practices, natural hazards etc. It was very informative and interactive lecture for the PG (CWM) students, and they were able to know about the various trends in satellite remote sensing. The lecture was even more interesting with the examples he gave related to each topic. It was wonderful knowledge sharing and gaining information about, the satellite remote sensing. Students also responded politely to this lecture.



**Visit:****Coordinator: Dr. A. P. Nilawar**

A one-day visit to Maltekdi railway station is organised for T.Y. Civil Engineering students on 12/03/2020. This visit covered various aspects of Railway Engineering such as signals, point and crossing and various fittings used in the tracks. It was very informative and interactive that the students were able to know about the various aspects of Railway.



## Internships (UG):

### B. Tech. Students Internship

Sr.	Registration Id	Name of Student	Name of Internal Guide	Company (Private/ Government)
1	2016BCE001	SABLE RAM JORSING	Dr. P. D. Dahe	Maharashtra Jeevan Pradhikaran Nanded.
2	2016BCE007	KADAM GAURI PRAKASH		
3	2016BCE014	KULKARNI VYANKATESH C.		
4	2016BCE050	GADHE SIDDHANT NARAYAN		
5	2017BCE501	TADWALKAR MITALI RADHAKRISHNA		
6	2017BCE505	NAGARE HARSHADA VIKAS		
7	2017BCE506	AHIRE PRASAD BAPURAO		
8	2017BCE508	PADWAL NIKITA NITIN		
9	2017BCE510	KAJALKAR AVANTI PRAMODRAO		
10	2016BCE005	KATARE AJIT PANDURANG	Dr. P. B. Londhe	Sharda Construction & Corporation Pvt.ltd Nanded.
11	2016BCE034	TANAGAWADE TEJAS SAMBHAJI		
12	2016BCE037	CHAUDHARI YASH DHANANJAY		
13	2016BCE058	BOLE SHUBHANGI BALAJI		
14	2016BCE152	CHORAT SATYAM VINAYAK		
15	2017BCE502	PANCHAL USHA SURESH		
16	2017BCE503	SURWASE PRATIKSHA RAJESH		
17	2017BCE509	BHARTI ASHWINI UDHAV		
18	2016BCE044	AYACHIT MITALEE V.		
19	2016BCE008	WAHULE PRANITA KAILAS	Dr.M.L.Waikar	Rudranee Infrastructure Ltd.Aurangabad
20	2016BCE028	MORE OMKAR BALAJI		
21	2016BCE021	PAYAL SHUBHAM RAVINDRA		
22	2016BCE026	MENGAPURE BASWARAJ SHIVARAM		
23	2016BCE601	DIGE ISHWAR HARIRAM		
	2016BCE151	RAWALE DHANANJAY UTTAM		
24	2016BCE055	KANDE KAMAL RAMPRASAD		
25	2016BCE027	VASEKAR VARSHA SURESHRAO		
25	2017BCE511	TALARWAR MANISHA BASWANTRAO		
26	2017BCE512	PALWADE MAYURI SUBHASH		
29	2016BCE003	HALBANDGE SURAJKUMAR G.	Dr.A.P. Nilawar	Tejas Construction & Infrastructure, Pune.
30	2016BCE012	BHOSIKAR YOGESHWAR SHIVRAJ		
31	2016BCE022	KAMBLE PAVAN ANKUSH		
32	2016BCE023	DHAGE VISHWADEEP MUNIAJRAO		
33	2016BCE040	CHENAJOLU SAIKRISHNA LAXMAN		
34	2016BCE048	PAWAR YOGESH DATTATRAYA		
35	2015BCE059	JAMDHADE SHUBHAM C.		
36	2016BCE060	MUNDADA SHREYASH RAMESH		
37	2017BCE507	GIRBIDE RAJRATNA BHIMRAO		
38	2013BCE631	SURYAWANSHI SWAPNIL LAXMAN		
39	2016BCE013	PAREKAR GAJANAN SURESHRAO	Dr.G.D.Awchat	
40	2016BCE019	GHATKAR PAVAN BABURAO		
41	2016BCE030	SONGALE SAURABH OMPRAKASH		
42	2016BCE016	VYANJANE SUDARSHAN SUBHASH		
43	2016BCE039	TELGOTE AASHISH RAJENDRA		
44	2015BCE049	GHUNDRE HARISH DILIP		
45	2016BCE049	GAYKE AKSHAY BHARAT		
46	2016BCE041	TEKAM LOKESH ASHOK		
47	2016BCE042	CHAVAN SOURABH JAIWANT		



Sr.	Registration Id	Name of Student	Name of Internal Guide	Company (Private/ Government)		
48	2014BCE601	WAGHMARE DIVYA ANILRAO	Dr.L. G.Patil			
49	2016BCE017	PATIL PIYUSHA NITIN				
50	2016BCE029	JOSHI SARANG DAYANAND				
51	2016BCE033	SANCHETI JAY SURESHCHAND				
52	2016BCE043	GAYADHANE PRANJAL SURESH				
53	2016BCE038	WAGH SHIVANI SANDEEPRAO				
54	2016BCE046	ATTARDE SHAILESH ANIL				
55	2016BCE047	GOUD POOJA OMPRAKASH				
56	2016BCE056	JOSHI GAURAVKUMAR PARASRAM				
57	2017BCE504	PATIL POOJA RAJESH				
58	2016BCE020	SONAR NILIMA GOPAL			Dr.N.H.Kulkarni	Water Resources Department Nagpur
59	2016BCE015	MOKASHI ABHAY SUNIL				
60	2016BCE024	PAWAR KAJAL DHANARAJ				
61	2016BCE036	WANKHEDE AJIT RAVINDRA				
62	2016BCE051	SWAMI SHIVAM BASWANT				
63	2016BCE052	CHAVAN OMKAR DEEPAK				
64	2016BCE045	PARDHI YASH MUNESHWAR				
65	2016BCE054	BHUYE GURLEEN KAUR GURMEET SINGH				
66	2016BCE153	DHONE DHANSHREE GHANSHYAM	Dr.P.B.Ullagaddi	Sharda Construction & Corporation Pvt. ltd Nanded.		
67	2016BCE006	PATIL PRANITA RAVINDRA				
68	2016BCE009	AULWAR PALLAVI SHANKARRAO				
69	2016BCE031	GOKHALE RUPALI YESHWANTRAO				
70	2016BCE032	LANDGE SWEETY MOHANRAO				
71	2016BCE025	SAHADEVE VICKY NANDKISHOR				
72	2015BCE051	MAMILWAD SHALINI SHIVRAJ				
73	2015BCE055	DAHITE ROHIT RAVINDRA				
74	2016BCE602	DHANEGAONKAR GAJANAN SAHEBRAO				
75	2015BCE046	TUPAT AMAR				



**Internships (PG):**

<b>Sr.No.</b>	<b>Reg. No.</b>	<b>Name of Student</b>	<b>Internship</b>
1	2018MSE001	Kadam Akshay Sanjayrao	Metey Consultancy Pvt.Ltd.Hyderabad
2	2018MSE007	Borse Sagar Arvind	Metey Consultancy Pvt.Ltd.Hyderabad
3	2018MSE008	Husale Ranjit Sanjay	Metey Consultancy Pvt.Ltd.Hyderabad
4	2018MSE009	Katara Shubham Keshav	Metey Consultancy Pvt.Ltd.Hyderabad
5	2018MSE011	Rushikesh Kakasaheb Jadhav	Metey Consultancy Pvt.Ltd.Hyderabad
6	2018MSE012	Ziyaurrehman Ansari Mukhtar	Ellora Consultancy Service,Mumbai
7	2018MSE013	Dhumal Mayur Anil	PossiBuild Building Technologies, Hyderabad.
8	2018MSE014	Kharche Ketan Nilkanth	PossiBuild Building Technologies, Hyderabad.
9	2018MSE015	Kothmire Akshay Vilas	Mahimtura Consultant pvt. ltd. Mumbai
10	2018MSE017	Mohammad Sohel Abdul Hafeez	Ellora Consultancy Service,Mumbai
11	2018MCW004	Naik Prachi Jaikrushna	IIT bombay
12	2018MCW007	Khandagale Abhay Narayan	Tandon Urban Solutions Pvt.Ltd. Santacruz East,Mumbai.

## Consultancy:

Name of Scheme	Cost of Civil Works (Rs.Lakhs)
Tap water supply to kankadi Tq.Nanded.	15,194,406
Tap water supply to Jharikot Tq.Dharmabad	13,529,310
Tap water supply to Kerur Tq.Biloli	9,198,744
Tap water supply to Barbada Tq.Naigaon	15,438,437
Tap water supply to Tuppa Tq.Nanded.	18,090,291
Tap water supply to Kini Tq.Bhokar	7,751,481

## Distinguished Alumni



1. Name- Abhyuday Nimba Salunkhe
2. R/O- 182/9, Bhikamchand Jain Nagar, Jalgaon- 425001
3. Educational Qualification-
  - a. BTech (Civil and Water Management), 2013 PO
  - b. MA in Political Science from IGNOU
  - c. UGC-NET 2017 in Political Science, qualified for JRF and Asst. Prof.
4. Work Experience-
  - a. Assistant Central Intelligence Officer (ACIO-II) in Intelligence Bureau, Ministry of Home Affairs
  - b. Tax Assistant in Income Tax Department, Chandigarh.
  - c. Educator and counsellor for Competitive Examinations conducted by Union Public Service Commission (UPSC) and Maharashtra Public Service C
  - d. Presently, Assistant Commandant in Sashastra Seema Bal, Ministry of Home Affairs

## Undergraduate - Civil Engineering:

### Program Education Objectives (PEOs)

The Graduates will be able to:

<b>PEO1</b>	Pursue a successful career in the diversified sectors of the engineering industry and/or higher studies by acquiring knowledge in mathematical, scientific and engineering fundamentals.
<b>PEO2</b>	Analyze and design Civil Engineering systems with social awareness and responsibility.
<b>PEO3</b>	Exhibit professionalism and ethical approach through leadership, team work, good communication skills, and adapt to modern trends by engaging in lifelong learning.

### Program Outcomes (POs)

On successful completion, graduates will be able to:

<b>PO1</b>	Apply knowledge of mathematics, science and engineering to Civil Engineering problems.
<b>PO2</b>	Identify, formulate and solve Civil Engineering problems.
<b>PO3</b>	Design various structures or particular system that meets desired specifications and requirements.
<b>PO4</b>	Design and conduct experiments, interpret and analyze data, synthesize the information to derive conclusions.
<b>PO5</b>	Select and use appropriate engineering techniques and software tools to analyze Civil Engineering problems with understanding of their applicability and limitations.
<b>PO6</b>	Assess local and global impact of societal issues on Civil Engineering profession.
<b>PO7</b>	Able to understand the impact of engineering solutions on society and demonstrate the knowledge for sustainable development.
<b>PO8</b>	Demonstrate their professional and ethical responsibilities.
<b>PO9</b>	Able to function as a member or a leader on engineering and science teams in various areas of Civil Engineering.
<b>PO10</b>	Communicate effectively in both verbal and written forms.
<b>PO11</b>	Understand and practice engineering and management principles.
<b>PO12</b>	Adapt transformations in industry through independent and lifelong learning.

### Program Specific Outcomes

<b>PSO1</b>	Establish a Civil Engineering career in industry, government or academic field and achieve professional expertise as appropriate.
<b>PSO2</b>	Execute innovation and excellence in Civil engineering problem solving and design in global and societal contexts.
<b>PSO3</b>	Commit to lifelong learning and professional development in the Civil Engineering field to stay updated in technology, research topics and contemporary issues.
<b>PSO4</b>	Understand the fundamentals of Civil Engineering in commercial contexts and in expediting construction projects.

## Postgraduate – M.Tech. Water Management:

### Program Education Objectives (PEOs)

The Post-Graduates will be able to:

<b>PEO 1</b>	Apply water management knowledge in all phases of water resources planning and management.
<b>PEO 2</b>	Develop an ability to analyse and design integrated natural and engineered water management systems to develop economically, socially and environmentally sustainable infrastructure.
<b>PEO 3</b>	Think critically and to envisage the technical and social consequences of their actions.
<b>PEO 4</b>	Inculcate team spirit, interpersonal, and mass communication skills so as to coordinate and lead multidisciplinary engineering teams in addressing water management issues.
<b>PEO 5</b>	Imbibe spirit of inquiry in order to promote keen interest in pursuing higher studies, research and innovations.

### Program Outcomes (POs)

On successful completion, graduates will be able to:

<b>PO 1</b>	Capability to apply in-depth engineering knowledge and use of modern technology in developing water management systems and facilities.
<b>PO 2</b>	Plan and conduct necessary experiments for use in analysis and design of water management systems.
<b>PO 3</b>	Recommend economically sustainable solutions and alternatives for water management problems by including considerations of risk, uncertainty, sustainability, life-cycle principles, and environmental impacts.
<b>PO 4</b>	Use modern/advanced techniques, tools, and skills for water management practice and research.
<b>PO 5</b>	Communicate effectively, to function with and lead/direct multidisciplinary teams and communities to achieve the goals.
<b>PO 6</b>	Understand concepts of professional practice, project management, and the roles and responsibilities of public institutions and private organizations pertaining to water management and regulations.
<b>PO 7</b>	Understand ethical and societal responsibilities as water management engineer.
<b>PO 8</b>	Recognize the need for, and an ability to engage in independent and reflective life-long learning.

### Program Specific Outcomes

<b>PSO 1</b>	Excel in the research, innovation, design and problem solving in Water Management domain
<b>PSO 2</b>	Interact with stakeholders effectively and execute quality work within the stipulated resources.

## Postgraduate – M.Tech. Structure:

### Program Education Objectives (PEOs)

The Post-Graduates will be able to:

<b>PEO1</b>	Impart concepts of Structural Engineering through the use of analytical techniques, experiments, computer simulation methods, and other modern engineering tools in the analysis and effective design of variety of civil engineering structures.
<b>PEO2</b>	Imbibe critical thinking in analyzing a complex problem in Structural Engineering field.
<b>PEO3</b>	Develop skills of communicating structural design effectively and undertake research in upcoming areas.

### Program Outcomes (POs)

On successful completion, graduates will be able to:

<b>PO1</b>	Acquire and be able to evaluate, analyze and synthesize current body of knowledge in Structural Engineering.
<b>PO2</b>	Be able to identify, formulate and solve complex Structural Engineering problems with independent judgment.
<b>PO3</b>	Be able to conceptualize and design Civil Engineering structures with appropriate consideration for public health and safety, environmental, cultural and societal considerations.
<b>PO4</b>	Be able to explore and extract information of complex problems including design of experiments and tools, analyze and interpret data for development of technical knowledge in Structural Engineering.
<b>PO5</b>	Be able to apply appropriate resources, techniques & tools to various problems in Structural Engineering.
<b>PO6</b>	Be able to function effectively as an individual as well as a member or leader of a multi-disciplinary team.
<b>PO7</b>	Be able to understand critical issues for professional practice such as detailing work and the interaction with various agencies during project life cycle.
<b>PO8</b>	Be able to communicate effectively on complex engineering problems by written oral and visual means to the stake holders.
<b>PO9</b>	Be able to recognize the need and have an ability to engage lifelong learning process.
<b>PO10</b>	Be able to understand and commit to professional ethics and responsibilities while carrying out research and design activities.
<b>PO11</b>	Be able to critically analyze, scrutinize and rectify one's decisions and actions and apply self-corrective measures
<b>PO12</b>	Be able to communicate effectively on complex engineering problems by written oral and visual means to the stake holders.

### Program Specific Outcomes

<b>PSO1</b>	Excel in the research, innovation, design and problem solving in Structural Engineering domain.
<b>PSO2</b>	Interact with stakeholders effectively and execute quality work within the stipulated resources.

**Publications:**

A. P. Nilawar, & M. L. Waikar (2019), "Impacts of climate change on streamflow and sediment concentration under RCP 4.5 and 8.5: A case study in Purna river basin, India". Science of The Total Environment, Elsevier, 650, 2685-2696.

Ansari U S & Dr.L.G. Patil (2019), "Flow over side weirs with experimental and CFD results", Internatinal Journal of Engineering and Advanced Technology, ISSN.2249-8958(online), volume-9 Issue-1, October 2019, Page No. 1315-1319

R. S. Bhasme & M. L. Waikar, "Regionalization of Precipitation Using Clustering Technique – A Case Study of Nanded District" Journal of Indian Water Works Association, ISSN 0970-275X, Vol. LI, July-September 2019.

A. S. Parlikar, P. D. Dahe & M. Sharma, (2019), "Optimal Operation Study of Reservoir System Using Optimization and Simulation Techniques-A Case Study of Uduthorehalla Reservoir in India" Water and Energy International, 61(11), 47-51.

Shubham Borkar & Dr.G. D. Awchat (2019), "Analysis & design of G+6 building in different seismic zones by using software" International Journal for Research in Applied Science & Engineering Technology, ISSN: 2321-9653, Volume 7, (5)2019.

Jyotiprakash G Nayak, LG Patil, Vinayak K Patki (2020), "Development of water quality index for Godavari River (India) based on fuzzy inference system" Groundwater for Sustainable Development, 10 (2020): 100350

**Editorial Board:**

**Chief Editor:** Dr. L.G. Patil, Professor & Head, Department of Civil Engineering.

**Associate Editors:** Dr. A. P. Nilawar, Assistant Professor, Department of Civil Engineering.