

Department of Civil Engineering

GOVERNMENT POLYTECHNIC KHAMGAON

(Under Directorate of technical Education, Maharashtra Government)



Vol. No. 01 | 10 JUNE 2021

<https://www.gpk.edu.in>

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VISION:

“To be an outstanding department dedicated to provide competent technical manpower catering to needs & challenges of industry & society.”

MISSION:

Department of Civil Engineering is Committed to:

- 1] To create Civil Engineers with essential knowledge, technical skills & ethical values to serve the industry & society.
- 2] To provide the resources that contributes to effective learning environment.
- 3] To promote innovative thinking & lifelong learning with industry interaction.

PROGRAM OUTCOME (POs):

PO1. Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO2. Problem analysis: Identify and analyze well-defined engineering problems using codified standard methods.

PO3. Design/ development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO4. Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

PO5. Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO6. Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO7. Life-long learning: Ability to analyse individual needs and engage in updating in the context of technological changes.

PROGRAM SPECIFIC OUTCOMES (PSOs):

- **PSO1. Construction, Planning and Designing:** Perform optimal Civil Engineering construction planning and designing activities of desired quality.
- **PSO 2. Construction, Execution and Maintenance:** Execute Civil Engineering constructions and maintenance using relevant materials and equipment's.
- **PSO 3. Local Need Aspect:** The application of maintaining and operating new & existing infrastructure while protecting the public and environmental health.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

- **PEO 1:** Provide socially responsible, environment friendly solutions to Civil engineering related broad-based problems adapting professional ethics.
- **PEO 2:** Adapt state of the art Civil engineering broad based technologies to work in multi-disciplinary work environments.
- **PEO 3:** Solve broad based problems individually and as a team member communicating effectively in the world of work.

From Editor's Desk...



Dear Readers,

It is indeed a great honour to be the Newsletter Editor for the Civil Engg. Department and it is an immense pleasure to launch this edition for June 2021.

In this issue, we will recount the various projects and activities in which department is actively involved. Few points I would like to highlight here are, regular departmental activity, online teaching learning for first year, second year and final year, arranging online expert lecture, and various activities.

Finally, huge thanks to Principal Dr. S. S. Prabhune, TPO Shri. A. S. Kakad Sir, Shri. V. T. Atole, Shri. S. R. Soni, Shri. S.P. Thotange (EE PWD), and students who has contributed for the wonderful writing, without which this newsletter issue wouldn't have been completed. Last but not least, I would like to thank Shri. V.T. Atole (I/C HOD, CE), Shri. P.V. Theng (Co-Editor), for everlasting support throughout the creation of this edition.

Shri. M. D. Ghodle

Lecturer, CE



Dear Readers,

The Journey Of Thousand Miles Starts With A Small Step!

It is an honor and a thing of pride to be a part of an institute which has long legacy of success. Government polytechnic khamgaon basically, caters to the needs of rural area in and around Buldana district.

It is very much complimented by Community polytechnic to serve the purpose of technical education of all strata of society. Government Polytechnic Khamgaon was founded in 1961. It started with three core branches viz. Civil Engg., Mechanical Engg. & Electrical Engg. Later it spread its wings and began two branches named Computer Engg. & Electronics Engg.

Government Polytechnic Khamgaon is a stepping stone in the shine of Vidarbha region. Institute has given numerous engineers to the society since 1963. They are serving to the best of their capacity because of the strong foundation and platform provided by Government Polytechnic Khamgaon. That's why Institute has always been sought after by students all over Maharashtra. The cream and meritorious students are further trained and polished with required engineering skills and human values, so that society gets skilled engineers and good human beings.

After taking over the charge of such a vibrant campus, it's an opportunity and challenge for me as an engineer and Principal.

The challenge is very much accepted by starting technical activities like internships, MOOCS, industrial visits, expert lectures in the field of engineering, soft skills and so on.

New ideas, suggestions, corrections are welcomed so that Government Polytechnic Khamgaon will be on national and international horizon in the field of engineering.

The woods are lovely, dark and deep

But I have promises to keep

And miles to go before I sleep

And miles to go before I sleep

Dr. Sameer S. Prabhune
Principal
G. P. Khamgaon

From HOD's Desk...



Dear Readers,

It gives me immense pleasure to lead the department of Civil Engineering.

Education is recognized to be primarily a process of getting students absorb new ideas and ways of thinking to prepare them for life.

Civil Engineering is a broad field of engineering which involves the building of various structures like Roads, Railways, Airports, Tunnels, Aqueducts, Dams, Retaining walls, Cannels, Culverts, Buildings, Water tanks, Water Supply lines, Drainage lines etc. It involves planning, Design, Construction, Maintenance and Management of Structures.

Civil Engineering Department of Government Polytechnic Khamgaon aims at developing analytical and experimental skills in students to apply in various fields of Civil Engineering.

The Civil Engineering Department has well-qualified teaching faculties with industrial experience who are enthusiastic in imparting the quality teaching to the students along with different expert lecture from Expertise in the field. The emphasis is laid on a proper understanding of the fundamentals of the subjects through site visits, industrial training , PPT, Video clips and case studies. It has well-equipped laboratories, computational facilities, classrooms and provides a good environment for learning. All faculty members are also engaged in research and consultancy projects which benefit the students for active learning. The department also has its own library housing a good number of quality reference books for the benefit of staff and students.

I will assure that our students will prove to be an invaluable asset to society and industry.

Our Objectives :

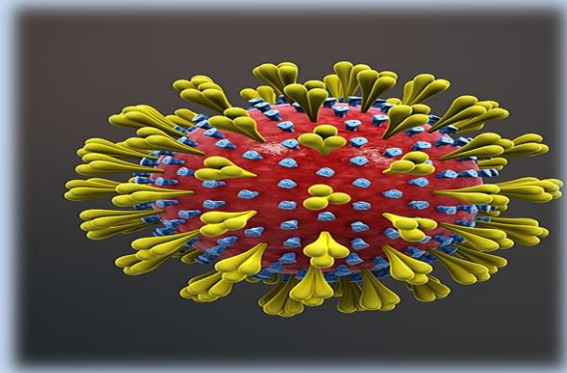
1. To provide sound academic environment to students for a complete learning experience.
2. To provide state-of-the-art technical infrastructure and motivate students to realize their own potential.
3. To promote the technical skills and ensure all-round development of the students.

I wish all the Students and Faculty a great academic career.

Shri.V.T .Atole
I/C Head of Department
Civil Engineering

Fight against CORONA

We all know that prevention is better than cure. Corona virus (COVID-19) is caused by Novel Corona Virus that leads to cough, fever or difficulty in breathing. All here by appeal make to take COVID precautionary vaccine and their subsequent doses to fight against Corona. As from last one and half year all the classes are coundected in a virtual mode i.e. online. To start offline classes everyone must follows the covid norms.



Symptoms of COVID-19:



FEVER



COUGH



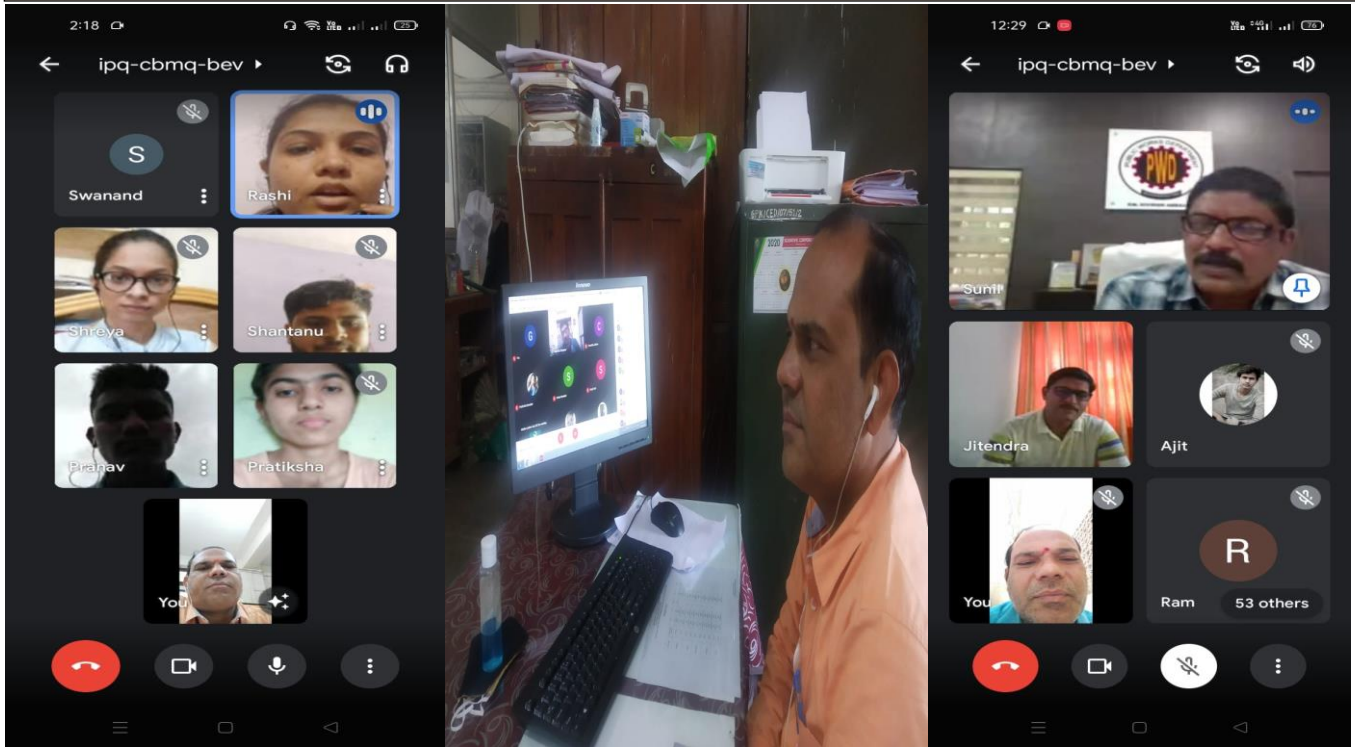
BREATHING DIFFICULTIES

Take Precaution, Protect Yourself!!

- When coughing and sneezing, cover mouth and nose with handkerchief or tissue.
- Wash your hands regularly for 20 seconds, with soap and water or alcohol-based hand sanitizer.
- Keep distance and avoid close contact (1 meter or 3 feet). with anyone with fever, cough.
- Avoid touching your eyes, nose and mouth.
- Stay home and self-isolate from others in the household if you feel unwell.
- If you have fever, cough or difficulty in breathing with travel history from Coronavirus affected countries/areas or contact with suspected or confirmed COVID-19 patient, contact your nearest health facility center.

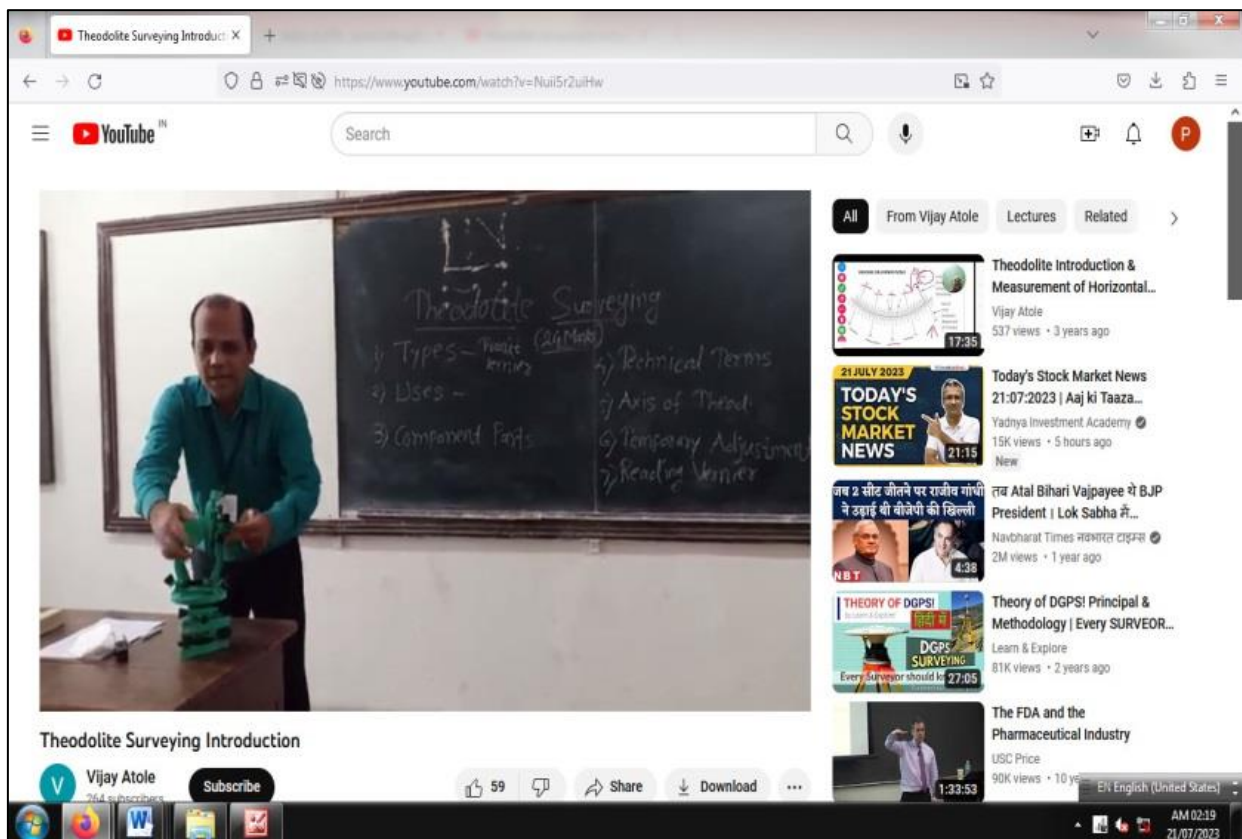
Learn from Home

Different modes of online learning i.e. Google meet, Zoom meet, You tube, Google classroom etc. are effectively used by the department from the last one and half year for better understanding of students.



Development of Digital e-content for teaching learning

Different teaching learning material is develop by the Departmental faculty for students better understanding in the form of PPT, google doc, you tube videos, virtual lab etc.



Various Departmental Activities in Covid-19 pandemic in year 2020-21

1. Online state level quiz competition organization

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|--|---|--|---|--|---|
| <p>Chief-Patrons</p> <p>Dr. Abhay Wagh Director, Directorate of Technical Education, Maharashtra State, Mumbai</p> <p>Dr. Vinod M. Mohitkar Director MSBTE, Mumbai</p> <p>Dr. R. P. Mogre Joint Director, Technical Education, Regional Office, Amravati</p> <p>Patron</p> <p>Dr. S. S. Prabhune Principal, Government Polytechnic Khamgaon</p> <p>Chief Coordinator</p> <p>Mr. G. V. Umale H.O.D, Civil Engineering Department</p> <p>Coordinator</p> <p>Dr. M. A. Kuraishi Lecturer, Civil Engineering Department</p> <p>Organizing Committee</p> <table><tr><td>Dr. P. V. Bahekar (Lecturer in CED) (Mobile: 9011087121)</td><td>Mr. M. D. Ghodle (Lecturer in CED) (Mobile: 9371761377)</td></tr><tr><td>Mr. V. T. Atole (Lecturer in CED)</td><td>Mr. S. R. Soni (Lecturer in CED)</td></tr></table> | Dr. P. V. Bahekar (Lecturer in CED) (Mobile: 9011087121) | Mr. M. D. Ghodle (Lecturer in CED) (Mobile: 9371761377) | Mr. V. T. Atole (Lecturer in CED) | Mr. S. R. Soni (Lecturer in CED) | <p></p> <p>Government Polytechnic Khamgaon State Level Online Technical Quiz Competition (For Civil Engineering Group Only)</p> <p></p> <p>Date: 10th June 2021 Time: 12.00 to 12.30PM</p> <p>✓ First Prize : Rs. 1000 ✓ Second Prize : Rs. 750 ✓ Third Prize : Rs. 500</p> <p>Organized by, Civil Engineering Department Jalamb Road, Khamgaon – 444303 (M.S.) www.gpk.edu.in</p> |
| Dr. P. V. Bahekar (Lecturer in CED) (Mobile: 9011087121) | Mr. M. D. Ghodle (Lecturer in CED) (Mobile: 9371761377) | | | | |
| Mr. V. T. Atole (Lecturer in CED) | Mr. S. R. Soni (Lecturer in CED) | | | | |

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|---|---|
| <p> Government Polytechnic, Khamgaon State Level Quiz Competition (Online Mode) For Civil Engineering Group</p> <p>Certificate</p> <p>This to certify that, Sonawane Rushali Dilip of Government Polytechnic Aurangabad, has participated and secured 3rd position in State Level Quiz Competition for students of Civil Engineering Group, organized by Department of Civil Engineering, Government Polytechnic, Khamgaon on 10th June, 2021.</p> <p> Dr. M. A. Kuraishi Coordinator</p> <p> Mr. G V Umale HCED/Chief Coordinator</p> <p> Dr. S. S. Prabhune Principal</p> | <p> Government Polytechnic, Khamgaon State Level Quiz Competition (Online Mode) For Civil Engineering Group</p> <p>Certificate</p> <p>This to certify that, Patil Sanika Sanjay of Government Polytechnic Karad, has participated and secured 1st position in State Level Quiz Competition for students of Civil Engineering Group, organized by Department of Civil Engineering, Government Polytechnic, Khamgaon on 10th June, 2021.</p> <p> Dr. M. A. Kuraishi Coordinator</p> <p> Mr. G V Umale HCED/Chief Coordinator</p> <p> Dr. S. S. Prabhune Principal</p> |
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2. Renovation of Laboratory:

1. Hydraulics Laboratory Renovation:

Renovation of Internal pipeline, windows, washbasin, coloring and electrification for pumping machinery and laboratory is carried out.



2. Highway Engineering Laboratory Extension:

Area of two laboratories and one tutorial room was less so these laboratories are extended by shifting it to the space provided for its expansion in which removal of old set up and fixing of aluminum partition, pipeline, water tank, staff cabin, tutorial seating arrangement etc is carried out to meet the AICTE requirements.



3. Faculty Cabin Partition in Computer lab:

To have better control over laboratory environment and functioning, it was decided to have seating arrangement of in charge in laboratory itself, accordingly separate aluminum partitioned cabins are fabricated and fixed in laboratories. This is also useful in maintaining physical distancing in Covid-19 Pandemic. Such arrangement of seating is being made available to five faculties and Head of department.

Shining Alumni

उत्तुंग भारारी.. एमपीएससीच्या स्थापत्य अभियांत्रिकी परीक्षेचा निकाल जाहीर

दुधलगाव खु. येथील शेतकरी पुत्र एकनाथ तळेले राज्यात प्रथम

नित्तीन पवार/ २ मे

मलकापूर : महाराष्ट्र राज्य लोकसेवा आयोगाने डिसेंबर २०१७ मध्ये घेतलेल्या महाराष्ट्र स्थापत्य अभियांत्रिकी सेवा म्हणजेच सिव्हील इंजिनिअरींग सर्व्हिसेस एक्झाम (मुख्य) परीक्षेचा निकाल नुकताच जाहीर झाला असून या परीक्षेत बुलडाणा जिल्ह्यातील मलकापूर तालुक्यातील दुधलगाव येथील शेतकरी संदीप तळे यांचे मुलगा एकनाथ तळेले यांनी राज्यातून आणि मागास प्रवर्गातून प्रथम येत मलकापूर तालुक्याच्या व बुलडाणा जिल्ह्याच्या शिरपेचात मानाचा तुरा खोवला असून एकनाथ तळेले यांचे सर्वत्र कौतूक होत आहे.

एकनाथ तळेले यांचे वडील संदीप तळेले हे शेतकरी असून मलकापूर तालुक्यातील दुधलगाव खु. येथे असलेली ३ एकर शेतीची मशागत करून ते आपल्या कुटुंबाचा उदरनिर्वाह चालवितात. एकनाथ तळेले यांचे



जगजीवनदास इंग्लीश स्कूल मुक्ताईनगर येथे १० वी पर्यंतचे शिक्षण झाले. त्यांना १० वी मध्ये ८३ टक्के गुण मिळाले होते. यानंतर त्यांनी पॉलीटेक्नीकचा डिप्लोमा शासकीय पॉलीटेक्नीक विद्यालय खामगाव येथे पूर्ण करून त्यानंतर बी.टेक. चे शिक्षण वालचंद कॉलेज ऑफ

इंजिनिअरींग चांगली येथे पूर्ण केले. तर एम.टेक.चे शिक्षण एनआयटी सुरत येथून पूर्ण केले.

महाराष्ट्र राज्य लोकसेवा आयोगाने डिसेंबर २०१७ मध्ये घेतलेल्या महाराष्ट्र स्थापत्य अभियांत्रिकी सेवा म्हणजेच सिव्हील इंजिनिअरींग सर्व्हिसेस एक्झाम (मुख्य) परीक्षेत त्यांनी ४५० पैकी ३३६ गुण मिळवित राज्यातून व मागास प्रवर्गातून प्रथम येण्याचा मान मिळवित मलकापूर व बुलडाणा जिल्ह्याच्या शिरपेचात मानाचा तुरा खोवला आहे. तर महिलामधून सांगली जिल्ह्यातील सलोनी निकम या राज्यातून प्रथम आल्या आहेत.



Mr. Eknath Sandip Talele

Pass out student from GPK in 2011 has secured First Rank through whole Maharashtra in MPSC 2017 Civil Engineering Service Main Examination and selected as Class I officer AEE in PWD Maharashtra.

MSBTE Toppers



Government Polytechnic, Khamgon Civil Engineering students namely **Mr. Sachin Nivrutti Tayade (Summer-2011)** secured MSBTE Second rank from all over Maharashtra in final year diploma examination and also Miss. **Neha Abhay Jain (Summer-2013)** secured MSBTE Second rank from all over Maharashtra in final year diploma examination.

Many of the Civil Engineering diploma passout students from this institute since 1965 to 2023 have been secured good position in different government department as well as in business as an industrialist and well known contractor and builder.

Principal's Talk:

I hope this message finds you in good health and high spirits as you embark on your journey in the field of civil engineering. As the principal of this esteemed institution, it gives me great pleasure to address you and share some valuable insights that I believe will contribute to your success in this chosen field.

First and foremost, I want to emphasize the significance of your decision to pursue civil engineering. Civil engineering plays a vital role in shaping the world around us. From designing and constructing infrastructure to ensuring the safety and sustainability of our communities, your role as civil engineers is crucial in creating a better future for all.

As you progress through your diploma program, remember to lay a strong foundation in the fundamental principles of civil engineering. Surveying, Structure Planning & Drawing, Advanced Construction Materials & Equipments & Techniques, Estimating & Costing, and Structural Analysis are just a few of the key subjects that will form the building blocks of your knowledge. Embrace these subjects with enthusiasm and dedication, as they will serve as the bedrock of your future endeavors.

In addition to academic excellence, practical experience is equally important in the field of civil engineering. Seek opportunities to apply your theoretical knowledge in real-world situations through internships, co-op programs, and industry collaborations. Practical experience not only enhances your understanding of the subject matter but also helps develop essential skills such as problem-solving, critical thinking, and effective communication.

Embrace lifelong learning and proactively seek opportunities to expand your knowledge base through workshops, seminars, and professional development programs. As civil engineers, you hold a tremendous responsibility to ensure that the structures you design and build positively impact society.

Lastly, I encourage you to cultivate a passion for your chosen field. Let your curiosity drive you to explore new frontiers and push the boundaries of innovation. Be resilient in the face of challenges and setbacks, for they are stepping stones towards growth and success. Embrace every opportunity to learn from your experiences, whether they are successes or failures, as they will shape you into a well-rounded and accomplished civil engineer.

I have full faith in your potential to become exceptional civil engineering professionals. Your dedication, perseverance, and commitment to excellence will pave the way for a fulfilling and rewarding career. The world eagerly awaits your contributions in shaping a better tomorrow through your skills, knowledge, and passion for civil engineering.

Wishing you all the best in your academic journey and future endeavors.

(Dr. S. S. Prabhune)

Principal,

Government Polytechnic, Khamgaon

Impact of Online Teaching-Learning During Covid-19 Pandemic

The COVID-19 pandemic has been a defining moment in the history of education, prompting an unprecedented shift from traditional in-person teaching to online teaching and learning. This transformation had a profound impact on students, educators, and the entire educational ecosystem. Let's explore the experiences and the impact of online teaching and learning during the pandemic:

1. Sudden Transition and Challenges: The shift to online learning was sudden and unexpected for most educational institutions. Educators had to quickly adapt to new technology, learn to navigate online platforms, and redesign their teaching methods. Students faced challenges like inadequate internet access, lack of devices, and difficulties in adapting to remote learning environments.

2. Digital Divide: The pandemic highlighted the existing digital divide, where students from economically disadvantaged backgrounds faced greater challenges in accessing online education. The lack of proper infrastructure and devices disproportionately affected marginalized communities, leading to concerns about equity and inclusivity in education.

3. Flexibility and Accessibility: Online learning provided flexibility in terms of when and where students could engage with course materials. Asynchronous learning allowed students to access lectures and resources at their own pace, accommodating different learning styles and personal schedules.

4. Technology Integration: The pandemic accelerated the integration of technology in education. Educational institutions adopted various online tools and platforms for virtual classrooms, video conferencing, assessments, and collaborative projects. This integration will likely have lasting effects on the future of education.

5. Student Engagement and Motivation: The online learning environment posed challenges for student engagement and motivation. Without face-to-face interactions and the social aspect of traditional classrooms, some students reported feeling disconnected and isolated, leading to decreased motivation and performance.

6. Teacher-Student Interaction: Building meaningful connections between teachers and students became more challenging in the online setup. Personalized attention and immediate feedback were harder to provide, affecting students' learning experiences and support systems.

7. Professional Development for Educators: Online teaching demanded that educators develop new skills for effective virtual instruction. Many teachers had to up-skill themselves in using technology, creating engaging content, and managing virtual classrooms.

8. Assessment and Evaluation: Shifting to online assessments required careful consideration of integrity and fairness. Educational institutions had to explore various methods to conduct remote exams and evaluations while ensuring academic integrity.

9. Increased Workload and Burnout: Educators faced increased workloads during the transition to online teaching, as they had to redesign curricula and manage technical challenges. This, coupled with personal life stressors during the pandemic, led to burnout among many educators.

10. Future of Blended Learning: The pandemic forced the educational community to reimagine the future of education. Blended learning models, combining elements of online and in-person instruction, are likely to become more prevalent in post-pandemic education.

In conclusion, the COVID-19 pandemic accelerated the adoption of online teaching and learning, leading to both positive and negative impacts. While it provided flexibility and accessibility, it also highlighted existing inequalities and challenges in remote learning. Moving forward, it is essential to address these issues to create a more inclusive and effective educational landscape that leverages the benefits of technology while ensuring equitable access to quality education for all students.

(Mr. V. T. Atole)
I/c HoD Civil Engineering
Government Polytechnic, Khamgaon

Success Formulas for Civil Engineering Students

Civil engineering is a challenging and rewarding field that requires a combination of technical skills, creativity, and a strong work ethic. To excel in this field, civil engineering students need to adopt certain success formulas that can help them navigate through their academic journey and prepare them for a successful career. Some essential success formulas that can benefit civil engineering students are as under:

- **Solid Foundation in Math and Science:** Mathematics and science form the backbone of civil engineering. Building a strong foundation in subjects like calculus, physics, and chemistry is crucial for understanding the fundamental principles that govern civil engineering. Students should focus on mastering these subjects to ensure a smooth progression in their studies.
- **Continuous Learning and Upgrading Skills:** Civil engineering is a dynamic field that constantly evolves with new technologies, materials, and design methodologies. Successful civil engineering students are lifelong learners who actively seek opportunities to enhance their skills and knowledge. They should engage in self-study, attend workshops, participate in online courses, and stay updated with the latest industry trends.
- **Practical Experience through Internships and Co-op Programs:** Practical experience is invaluable for civil engineering students. Internships and co-op programs provide opportunities to apply theoretical knowledge to real-world projects. These experiences help students develop problem-solving skills, gain exposure to different aspects of civil engineering, and build a professional network. Students should actively seek internships and co-op programs to gain practical insights and improve their employability.
- **Effective Time Management:** Civil engineering programs can be demanding, requiring students to balance multiple assignments, projects, and exams. Effective time management is essential for success. Students should develop good organizational skills, create study schedules, prioritize tasks, and allocate sufficient time for coursework, project work, and revision. By managing their time effectively, students can reduce stress; stay focused, and achieve better results.
- **Strong Communication and Collaboration Skills:** Civil engineers often work in teams and need to effectively communicate their ideas, plans, and findings. Developing strong communication and collaboration skills is crucial. Students should actively participate in group projects, presentations, and discussions. They should also work on improving their technical writing skills to effectively document their work. Clear and concise communication can make a significant difference in professional success.
- **Embrace Problem-Solving and Critical Thinking:** Civil engineering is all about solving complex problems. Successful civil engineering students possess strong problem-solving and critical thinking abilities. They can analyze situations, identify potential challenges, and develop innovative solutions. Students should actively engage in solving engineering problems, participate in case studies, and cultivate a curious mindset that seeks to understand the underlying principles.
- **Networking and Professional Development:** Building a professional network is vital for career growth. Civil engineering students should actively participate in professional organizations, attend industry events, and connect with professionals in the field. Networking helps students stay updated with industry trends, discover job opportunities, and gain valuable insights from experienced professionals.
- **Ethical Practices and Professionalism:** Civil engineering involves significant responsibility as engineer's impact society through the infrastructure they design and build. Upholding ethical practices and professionalism is essential for success. Students should understand the importance of adhering to codes of conduct, maintaining integrity, and prioritizing the safety and well-being of the public.

Summarily, success in civil engineering requires a combination of technical expertise, practical experience, effective communication, and a commitment to continuous learning. By following these success formulas, civil engineering students can maximize their potential, overcome challenges, and build a successful career in this dynamic field.

(Mr. S. R. Soni)
Lecturer in Civil Engineering
Government Polytechnic, Khamgaon

Embracing Innovation and Sustainability

A Civil Engineering Perspective on Engineers' Day 2020

As we celebrate Engineers' Day 2020, it is a moment of pride and reflection for all civil engineering students like myself. This special day commemorates the legacy of Sir Mokshagundam Visveshvarayya, a visionary engineer whose contributions have left an indelible mark on our profession. It is a day to honor the brilliance of engineers past and present while embracing the challenges and opportunities that lie ahead in shaping a sustainable and resilient future.

The Role of Civil Engineers in Modern Society

Civil engineering is the heart of modern society. It involves the design, construction, and maintenance of essential infrastructure that supports our daily lives. From roads and bridges to buildings and water supply systems, civil engineers play a pivotal role in enhancing our quality of life and fostering economic growth.

Innovation: Paving the Way to the Future

In the 21st century, innovation has become the driving force behind advancements in civil engineering. Engineers must continuously adapt to emerging technologies and cutting-edge solutions to address the evolving needs of society. Artificial Intelligence, Building Information Modeling (BIM), and 3D printing are just a few examples of innovations revolutionizing the construction industry.

By leveraging these technologies, civil engineers can streamline design processes, optimize material usage, and improve project efficiency. Additionally, the integration of sustainable and eco-friendly practices in construction can significantly reduce our ecological footprint.

Sustainability: Building a Greener Future

One of the paramount challenges facing civil engineers today is the urgent need to promote sustainability in all aspects of our work. Climate change and its associated impacts, such as rising sea levels and extreme weather events, are placing immense pressure on our infrastructure. As future engineers, we must develop solutions that can withstand these challenges and contribute to a greener and more resilient future.

Designing climate-resilient infrastructure, implementing renewable energy solutions, and promoting environmentally friendly materials are just some of the ways we can address the sustainability challenge. Sustainable urban planning is also vital to accommodate the rapidly increasing urban population while minimizing our impact on the environment.

Collaboration: Fostering Strong Partnerships

Effective collaboration is the cornerstone of successful engineering projects. As civil engineering students, we must understand that our profession is not only about technical skills but also about communication and teamwork. Engaging with diverse stakeholders, including communities, government bodies, and private organizations, is crucial to delivering projects that cater to the needs and aspirations of the people they serve.

Let us commit ourselves to the pursuit of excellence, and with passion and dedication, let us create a world where our infrastructure is not only resilient but also sustainable. Together, we can build a brighter future for generations to come, leaving a lasting legacy of progress and ingenuity.

Happy Engineers' Day to all my fellow engineers and engineering enthusiasts!

Ku. Sayali D. Kale, CE-5I (2020-21)

- **Covid Vaccination Camp:-**

Covid Vaccination Camp for the student and faculty is organized by the institute on 28 oct. 2019



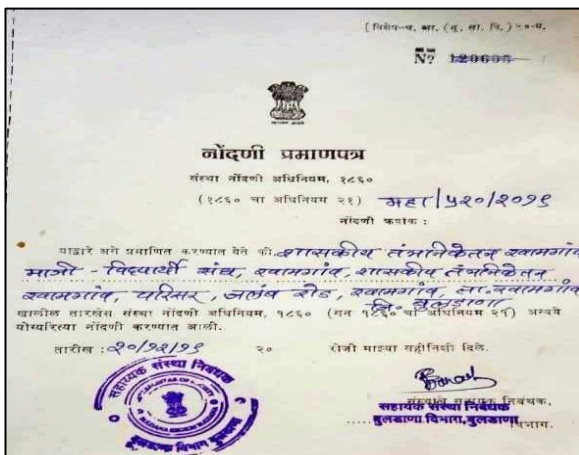
- **Covid oxygen pipeline audit**

In covid pandemic for safety audit of all covid hospital departmental faculty has inspect th covid hospital for oxygen pipeline audit and fire safety as per the government guideline on 27 April 2021 to 30 April 2021



- **Registration of Alumini association**

Civil engineering department take initiative to form the registered body of alumini in December 2020 and successfully registered the GPK Alumini association with 300 plus registered alumini.



- **Construction of Alumini building**

Department take initiative to have separate infrastructure for communication of alumini as well as for the institute separate meeting hall which was constructed in 2021.

EXPERT/ALUMNI LECTURE ORGANISED BY DEPARTMENT 2021-22

The invitation of experts as guest lecturers offers students the opportunity to meet passionate, committed and expert peoples and to learn from them in various ways. Guest lecturers provide an important educational experience for students based on their real-world life experiences. Students get to see the insight and perspective of the guest lecturers' specific field. The format can enable students to interact with professionals in formal and informal ways. Through discussions, interpersonal competence and communicative skills are fostered. Guests' contributions can take the format of a single lecture, a lecture series over a specific period or workshops.

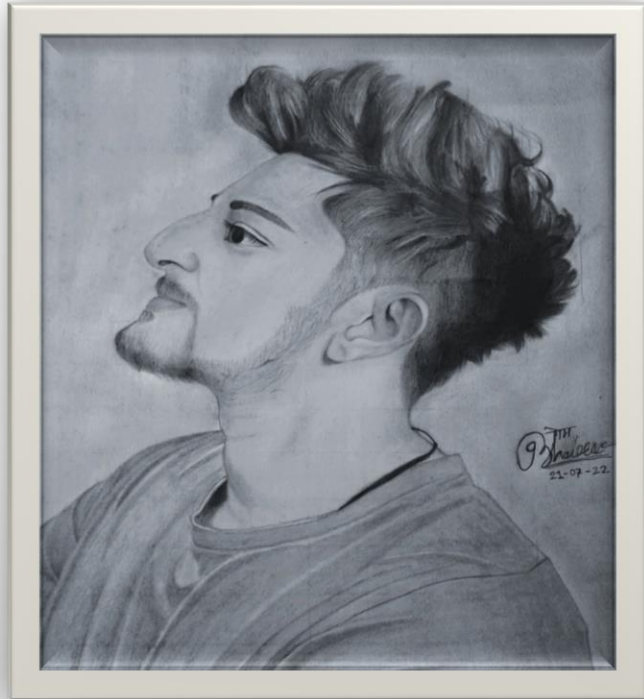
Another benefit is the link that students get to make between what they learn in their textbooks and the experiences shared by the guest speaker. Students thereby build important connections between what they have learned and the real world.

Guest/Alumni lecturers can act as role models and bring an authentic, vivid picture of the real world to students, thereby enabling trans disciplinary learning. Experiences and perspectives from local actors and entrepreneurs inspire students in their own (entrepreneurial) projects, creating motivation and an action-orientation. They bring in special expertise and experiences that teachers cannot provide.

List of Expert Lectures organized by Department

| Sr. No. | Date | Topic of Expert Lecture | Resource person | No. of Beneficiary |
|---------|------------|--------------------------------------|--|----------------------|
| 1 | 01/09/2021 | Organization of PWD (Online mode) | 1) Mr. S.P.Thotange (EE PWD) 2) Mr. J.N.Kale (Dy. Engg.PWD) | CE-6I |
| 2 | 17/09/2021 | Tender Procedure (Online mode) | 1) Mr. S.P.Thotange (EE PWD) 2)Mr. J.N.Kale (Dy. Engg.PWD) | CE-6I |
| 3 | 20/10/2020 | Brief view of EAC (Online mode) | Mr. RajendraPachekar (Lect. CED GPA) | CE-5I |
| 4 | 26/11/2021 | Taking Out Quantities | Mr. J.N.Kale (Dy. Engg.PWD) | CE-5I 80 Students |
| 5 | 04/12/2021 | Advance Surveying Equipments | Mr. R.P.Patil (Civil Engg. & Contractor) | CE-5I 78 Students |

CANVAS



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