

Department of Electrical Engineering

GOVERNMENT POLYTECHNIC KHAMGAON

(Under Directorate of technical Education, Maharashtra Government)



Vol. 02 | No. 01 | A.Y 2021-22

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

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VISION:

“To impart quality and value based education to recognize technical professional in field of electrical Engg ”

MISSION:

Department of Electrical Engineering is Committed to:

- M1.** To produce engineers to essential knowledge, technical skills and ethical values to serve the society and nation.
- M2.** To develop globally competent professionals in electrical engineering.
- M3.** To impart training, Research, Entrepreneurship abilities and skills to have all round development of students
- M4.** To provide best possible practices to encourage the students to be a lifelong learner

PROGRAM EDUCATIONAL OBJECTIVES (PEOS):

- **PEO1:** Provide socially responsible, environment friendly solutions to Electrical engineering related broad-based problems adapting professional ethics.
- **PEO2:** Adapt state of the Electrical engineering broad-based technologies to work in multi-disciplinary work environments.
- **PEO3:** Solve broad-based problems individually and as a team member communicating effectively in the world of work.

From Principal's Desk...



Dear Readers,

We have been together in this pandemic for more than a year. With help of vaccination, today our state is gradually progressing towards COVID free State. At present, it has been six months now, our institute reopens for students for offline classes. Meanwhile in pandemic we have adopted the new normal and evolved a system, which will be capable of running study programs online effectively.

This academic year is very important for Electrical Engineering Department as they are planning to apply for NBA accreditation. I appreciate the endless efforts of HOD, faculty and staff of EE department for NBA work. Finally, I wish best of luck for all the team members for future publication.

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



Dear Readers,

It gives me great pleasure to publish this AY (21-22) second edition of newsletter. As we know, the impact of pandemic COVID-19 is observed in every sector around the world. The education sector of India as well as world is badly affected by this. The outbreak of COVID-19 has taught us that change is inevitable. It has worked as catalyst for the educational institution to opt for the platforms with technologies which have not been used before. I am very glad that all faculties

including visiting faculty adapt new methods of online teaching. This grateful moment of publishing third volume of newsletter reflects the new beginning of teaching learning process in the department after pandemic. Department of Electrical Engineering they are planning to apply for NBA accreditation. I appreciate sincere efforts of all faculties and staff of department to start work of NBA preparations, renovation of department, completion of curriculum during and after pandemic. Active participation and suggestions of institute head Principal Dr. S. S. Prabhune sir helped to planning NBA accreditation.

Shri.M.W.Mundhada
Head of Department
Electrical Engineering



Dear Readers,

It is indeed a great honor to be the Newsletter Editor for the Electrical Engineering Department and it is an immense pleasure to launch this second edition of AY 2021-22.

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, planning NBA preparation and renovation of department.

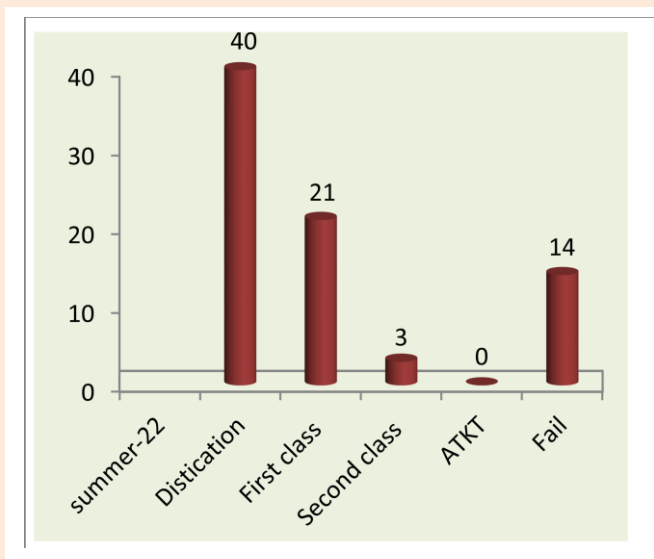
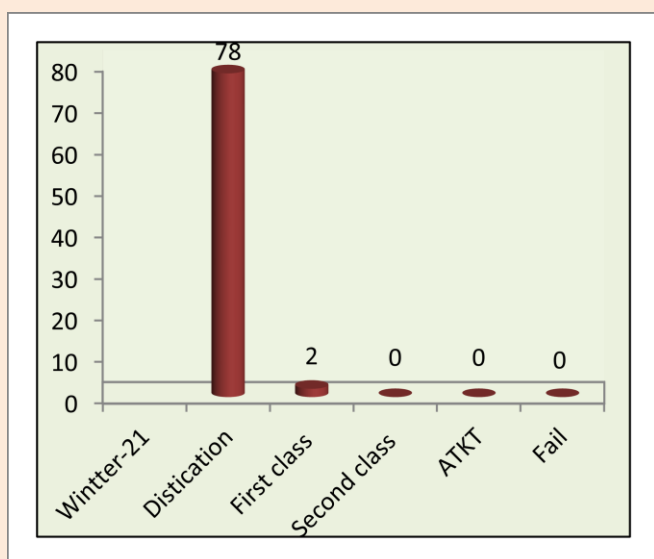
Finally, I would like to thank Shri. M.W.Mundhada sir (I/C HOD, EE), and all Electrical department lecturer for ever lasting support throughout the creation of this edition.

Also, I would like to thank Mr.Vijay Maind sir for Guiding me to publish this newsletter.

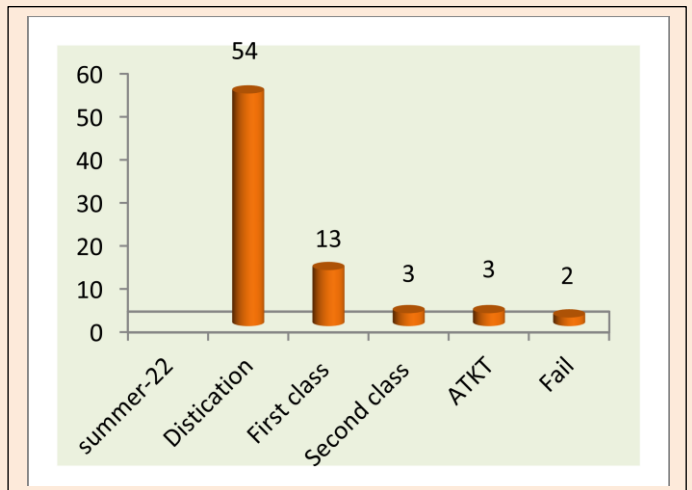
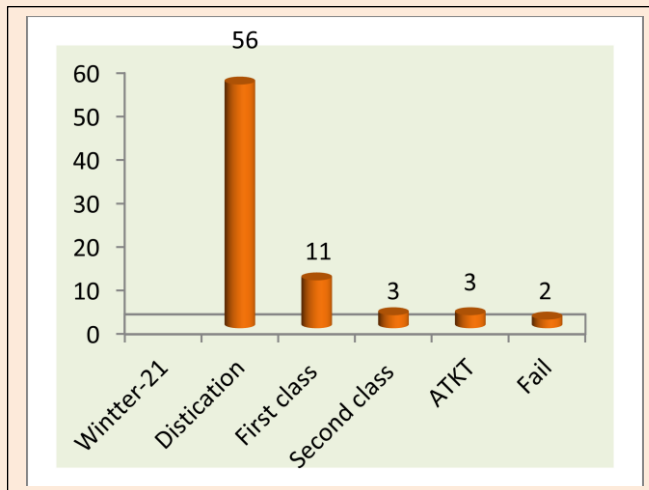
Mr. Ujwal.J.Hiwaral
News letter coordinator

Result Analysis for MSBTE Examination

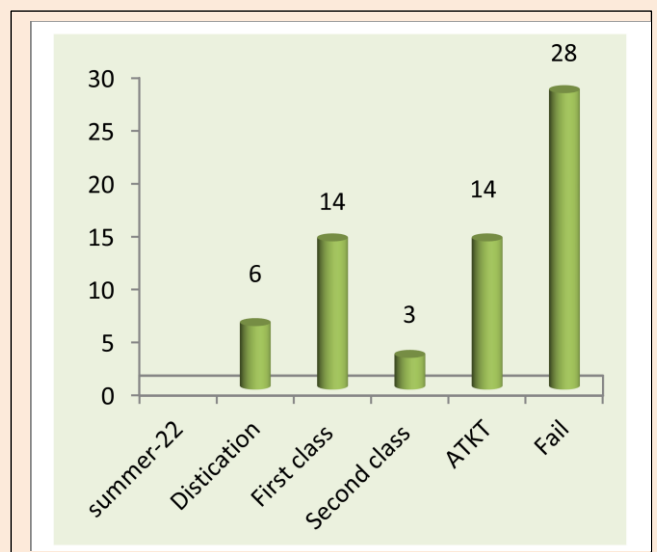
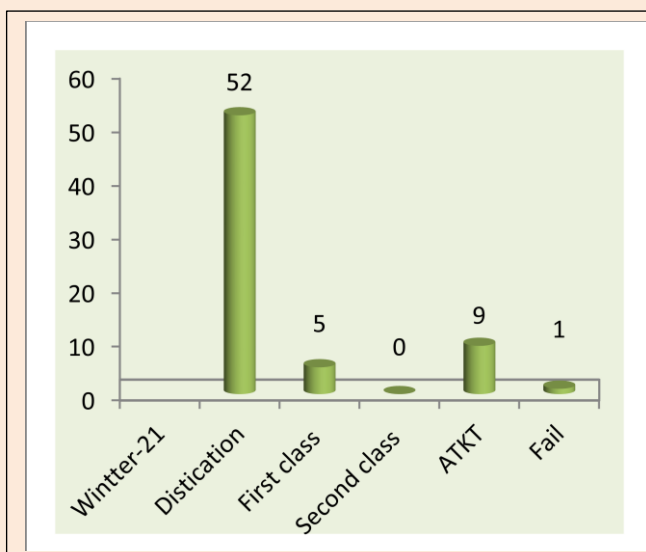
Final Year			
A.Y 2021-22			
Wintter-21		summer-22	
Distinction	78	Distiction	40
First class	2	First class	21
Second class	0	Second class	3
ATKT	0	ATKT	0
Fail	0	Fail	14
Total	80	Total	78



Second Year			
A.Y 2021-22			
Wintter-21		summer-22	
Distication	56	Distication	54
First class	11	First class	13
Second class	3	Second class	3
ATKT	3	ATKT	3
Fail	2	Fail	2
Total	75	Total	74



First Year			
A.Y 2021-22			
Wintter-21		summer-22	
distinction	52	distinction	6
First class	5	First class	14
Second class	0	Second class	3
ATKT	9	ATKT	14
Fail	1	Fail	28
Total	67	Total	65



Faculty Achievement

Faculties have the most important role to play in shaping the engineering student's career. FDPs helps in improving teaching skills in higher education.

- 1) **Shri. Sohwn Chopade (Lecturer in EE)** has successfully completed two NPTEL Module online course 1. **Orientation toward technical education and curriculum Aspects & 2. Professional Ethics and Sustainability.**
- 2) **Shri.Vijay Maind** has successfully completed 48 Day Foundation training programmer for class-1 officers during 22 Aug to 02 Nov 2022 organized by **YASHDA pune.** and has completed **"ROBOTOS PROCESS AUTONATION" industrial training** during 23Aug to 3 Sptember2021, organized by NIELIT Aurangabad.



Role of Electrical Engineering in National Development



Electrical engineering plays a vital role in national development, contributing to economic development, national security, and global connectivity. Electrical engineers design, develop, test, and supervise the deployment of electrical systems and electronic devices. They are responsible for the infrastructure required to transmit and distribute electricity to homes and businesses, including the design and construction of power lines, substations, and transformers. They also work on the design of telecommunications systems and the operation of electric power stations.

Electrical engineers also play a significant role in addressing challenges such as climate change and sustainable development. For example, they help integrate renewable energy systems into urban infrastructure by developing strategies for integrating energy storage, wind turbines, and solar power into the smart grid. This helps optimize the generation, distribution, and consumption of renewable energy, which contributes to reducing carbon emissions and building a greener future for smart cities. Electrical engineers also champion cost-effective energy consumption strategies and create energy-efficient applications that significantly lower energy consumption.

- **Smart cities**

Electrical engineers design smart grids, traffic control systems, and vehicle-to-infrastructure Communication to improve urban management, resource efficiency, and quality of life

- **Environmental conservation**

Electrical engineers develop energy-efficient applications and strategies to promote cost-effective

Energy consumption

- **Advanced driver assistance systems**

Electrical engineers create systems that automate and improve vehicle systems for safety and quality

of driving. These systems include GPS navigation, adaptive cruise control, and automated lights

- **Infrastructure and development**

Electrical engineers power cities and enable communication networks

- **controls engineering**

Electrical engineers design devices that regulate the operations of machines and manufacturing

Processes in the safest and most efficient manner. hese systems can include electrical grids, motor Vehicles, and aerospace components.

Electrical engineers also design, develop, test, and supervise the deployment of electrical systems and electronic devices. They must prioritize safety and ensure that all systems and solutions align with the latest safety protocols.

Thanku,

Ms. Shubhangi Thag
Final Year Student (EE6I)
Government Polytechnic Khmagaon

➤ Students Achievement

Consolidated Prize won by Kushal Dinesh Khode, Shubhangi G. Thag, Abhijit Raut & Shweta Ghanbahadur in Regional level Technical Project Competition Organized by G. P. Amravati on date 13 April 2022



Shrikant Wankhade , Rushikesh Dongarkar ,Dhanraj Jadhav & Prasad Karangale Won Frist prize in “Technical Project Group Event” on 17th & 18th Jan 2021 held at Mauli Group of Institutions Shegaon



- Department of Electrical Engineering organized workshop on “Soft Skills” by SUN INFOTECH Pvt Ltd. Amravati for students of EE4I EE6I



➤ INDUSTRIAL VISITS.....

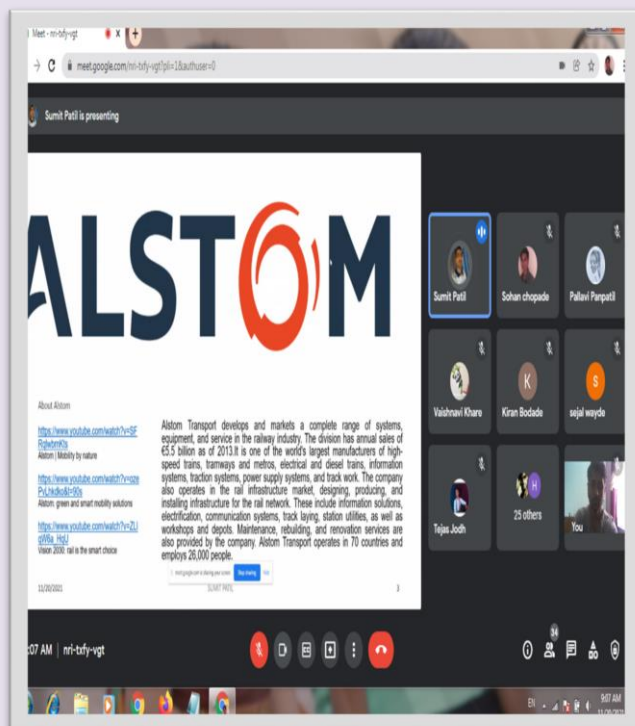


Industrial Visit for EE6I Students at Shivangi Bakers Pvt Ltd (Parle Industries) Khamgaon on 22 April 2022



Industrial Visit for EE4I Students at 33/11kV Distribution Substation MIDC Khamgaon on 08 April 2022

➤ Expert Lectures.....



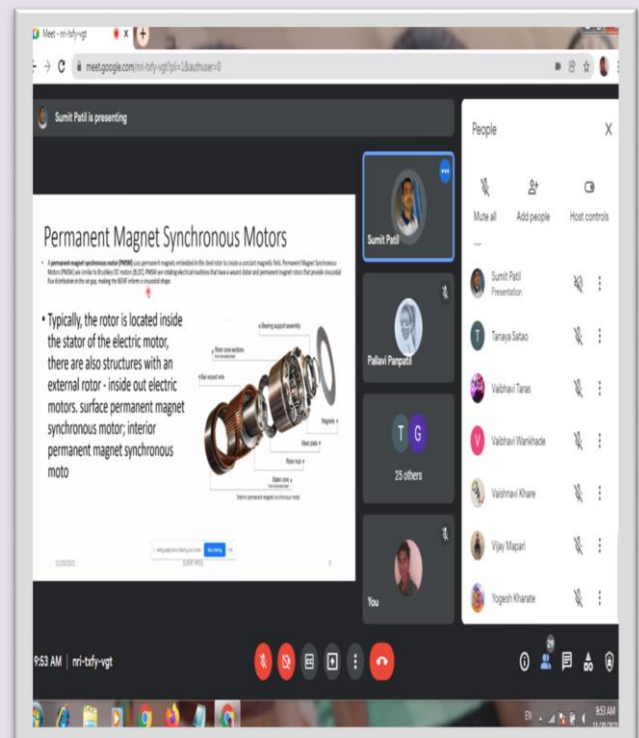
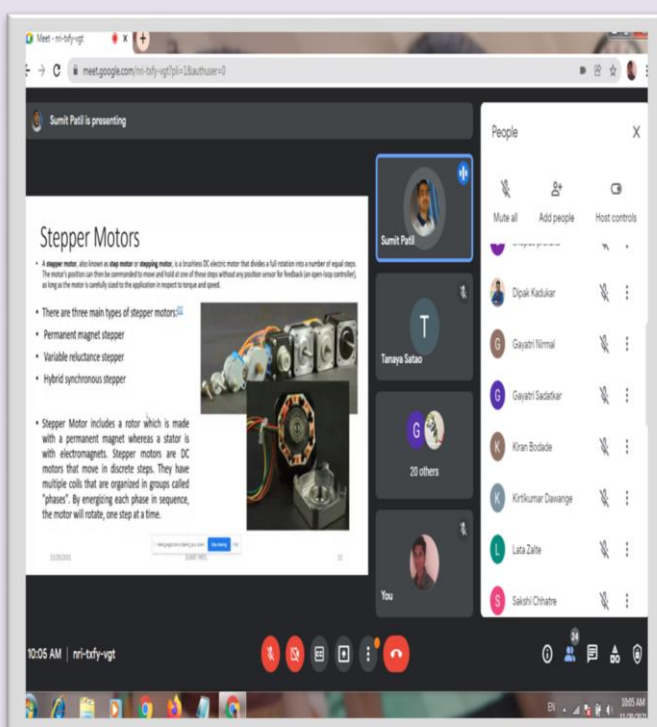
Expert Lecture by...

Topic:-“Special Purpose Motors”

Mr. Sumit Patil

Traction System Engineer, Alstom
Transport India Ltd. Bangalore

Date:-20/11/2021



➤ Shining Aluminous...



Dear Reader..,

I am Yash Paliwal, an alumnus of GPK, from the batch of 2016. Reflecting on my time at GPK, I can confidently say that those were some of the most formative years of my life. It was during this period that I began to shape my career and took meaningful steps toward my dreams, all with the unwavering support of my mentors and professors.

After completing my diploma at GPK, I pursued a Bachelor's in Electrical Engineering at Shri Ramdeo baba College of Engineering and Management in Nagpur.

My journey then led me to my first professional role at Torrent Power Ltd. in Mumbai, where I gained invaluable experience over 4 years. However, I realized that my aspirations stretched beyond what I had achieved so far. With a determination to broaden my horizons, I decided to pursue an MBA in Germany. Currently, I am both studying and working at **Nordex SE**, in Germany.

To my junior friends, I'd like to offer this message: Keep learning and growing. Dream big and work relentlessly toward your goals. In 2016, I never imagined that I would be in Germany by 2023, but here I am. GPK provides a strong foundation in the early years of your life—make the most of it.

**“Your positive action
Combined with
Positive thinking
Results in success.”**

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