DTE CODE 4151

TULSIRAMJI GAIKWAD-PATIL
Collage of Engineering & Technology
An Autonomous Institute

NAAC A+ Accredited

www.tgpcet.com

DEPARTMENT NEWS LETTER (2021-22)

ACCREDITED WITH GRADE A+ NAAC

Department of Electronics & Communication Engineering

Department of Electronics & Communication Engineering

About TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) was established in the year 2007 by Vidarbha Bahu-uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self financed Private Engineering College, which is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) Nagpur and is approved by All India Council for Technical Education, New Delhi. Also college is approved by Directorate of Technical Education (DTE), Mumbai, Maharashtra State. The Institute is Accredited with A+ (3.32 CGPA) by NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL (NAAC). An Autonomous Institute affiliated to RTM Nagpur University, Nagpur

Institute Vision Mission

Vision-

To emerge as a learning Center of Excellence in the National Ethos in domains of Science, Technology and Management.

Mission-

- To strive for rearing standard and stature of the students by practicing highstandards of professional ethics, transparency and accountability.
- To provide facilities and services to meet the challenges of Industry andSociety.
- To facilitate socially responsive research, innovation and entrepreneurship.
- To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices

Departmental News Letter (2021-22)

About Department

Established with B.E. ECE in the year 2007-08 with an intake of 60.It has been one of the key departments, active in teaching and research since its inception in 2007. It has well qualified and experienced faculty with novel teaching methods.

Research and training activities are based on VSAT, Atmel, µP & µC and SATCOM laboratories. A separate computing facility has been established to carry out project work and design jobs taken up by the department.

The Department has a state-of-the-art Microwave & Radar Engineering Laboratory in addition to well-equipped laboratories in the areas of Electronic Devices, Communication Engineering, Digital Signal Processing, Microprocessor and Microcontroller and Digital Electronics.

The department has Industry Institute Partnership Cell (IIPC) which aims to establish and explore proper links with various departments, agencies and industries all over the country. It also aims to work in close coordination with the industries and organizations for placement and training of the students, to support R & D and sponsored projects from industries, to exchange personnel between the Industries and the Institute by organizing guest lectures by Industrial experts, evaluation of project work, development of curriculum as per industry needs and other academic work in the Institute.

Department Vision

To impart state of art education for enabling youth to offer solution for the challenges faced in the field of Electronics & Communication Engineering

Department Mission

To stimulate and develop the students through quality education to face the challenges.

To empower youth for developing them as a leader through lifelong learning.

To infuse scientific temper towards research activities.

To provide a framework for promoting training in collaboration with industry institute interaction.

To foster a broad spectrum of knowledge in order to prepare them for ethical and social concern.

PEO of Department

- PEO 1: Students will apply basic fundamentals in mathematics, physics and electronic engineering discipline to build sound foundations.
- PEO 2: Students will design, analyze and solve engineering problems to develop them as the professional leaders in the field of Electronics & communication Engineering.
- PEO 3: Students will get exposure by providing technical training to execute the multidisciplinary projects as a team.
- PEO 4: Students will channelize their knowledge through lifelong learning to assist in the development of the society.
- PEO 5: Students will acquire work ethics and concern for society

Program Outcome

- PO1: An ability to independently carry out research /investigation and development work to solve practical problems.
- PO2: ability to write and present a substantial technical report/document.
- PO3: Students should be able to demonstrate a degree of mastery over the area as per the specialization of the program. The mastery should be at a level higher than the requirements in the appropriate bachelor program

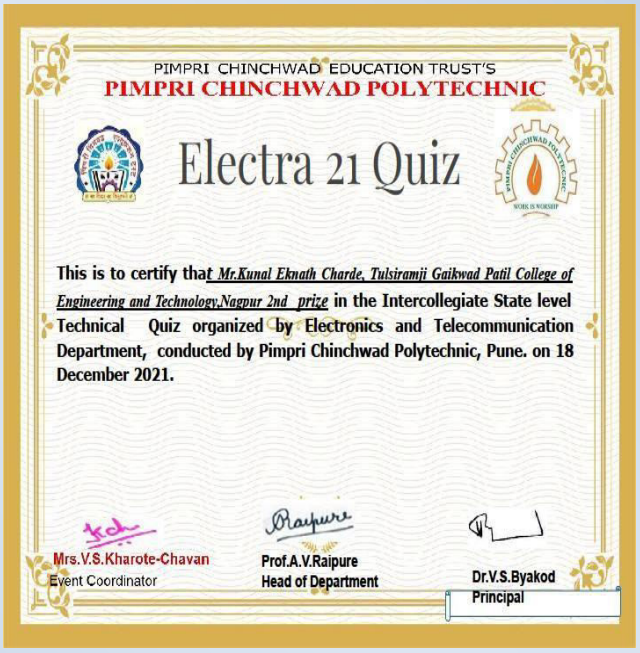
PSO of Department

- PSO 1: Apply the fundamental concepts of electronics and communication engineering to design a variety of components and systems for differentElectronics applications.
- PSO 2: The ability to use analytical knowledge by applying modern hardware and software tools to solve Electronics & Communication Engineering problems.
- PSO 3: Develop their skills to solve Electronics & Communication related Problems & asses social, environmental issues with ethics & manage different projects in multidisciplinary areas.

Student Achievement in Activities

Mr. Kunal Charde

“Student of Final Year ECE Department Secured Rank and Won Cash Prize in the Online Technical Event of "Electra-21 Quiz" Organized by Pimpri Chinchwad Polytechnic, Nigdi Pune.”



PIMPRI CHINCHWAD EDUCATION TRUST'S

PIMPRI CHINCHWAD POLYTECHNIC

Electra 21 Quiz

This is to certify that Mr.Kunal Eknath Charde, Tulsiramji Gaikwad Patil College of Engineering and Technology,Nagpur 2nd prize in the Intercollegiate State level Technical Quiz organized by Electronics and Telecommunication Department, conducted by Pimpri Chinchwad Polytechnic, Pune. on 18 December 2021.

Mrs.V.S.Kharote-Chavan
Event Coordinator

Prof.A.V.Raipure
Head of Department

Dr.V.S.Byakod
Principal

INDUSTRIAL VISIT
"AIR TRAFFIC CONTROL ATC"

Introduction:

Department of Electronics & Communication Engineering under ISTE and IEI student chapter have organized a Industrial visit to Air Traffic control (ATC) Nagpur.

Aim: To Study and understand the operation of Air traffic Control using different units.

Objective:

1. To make the students aware of industrial machinery.

2. To know the importance of communication.

3.To understand the working of RADAR Antenna.

GUEST LECTURE ON "TELECOMMUNICATION TECHNOLOGY & FUTURE SCOPE"

Introduction:

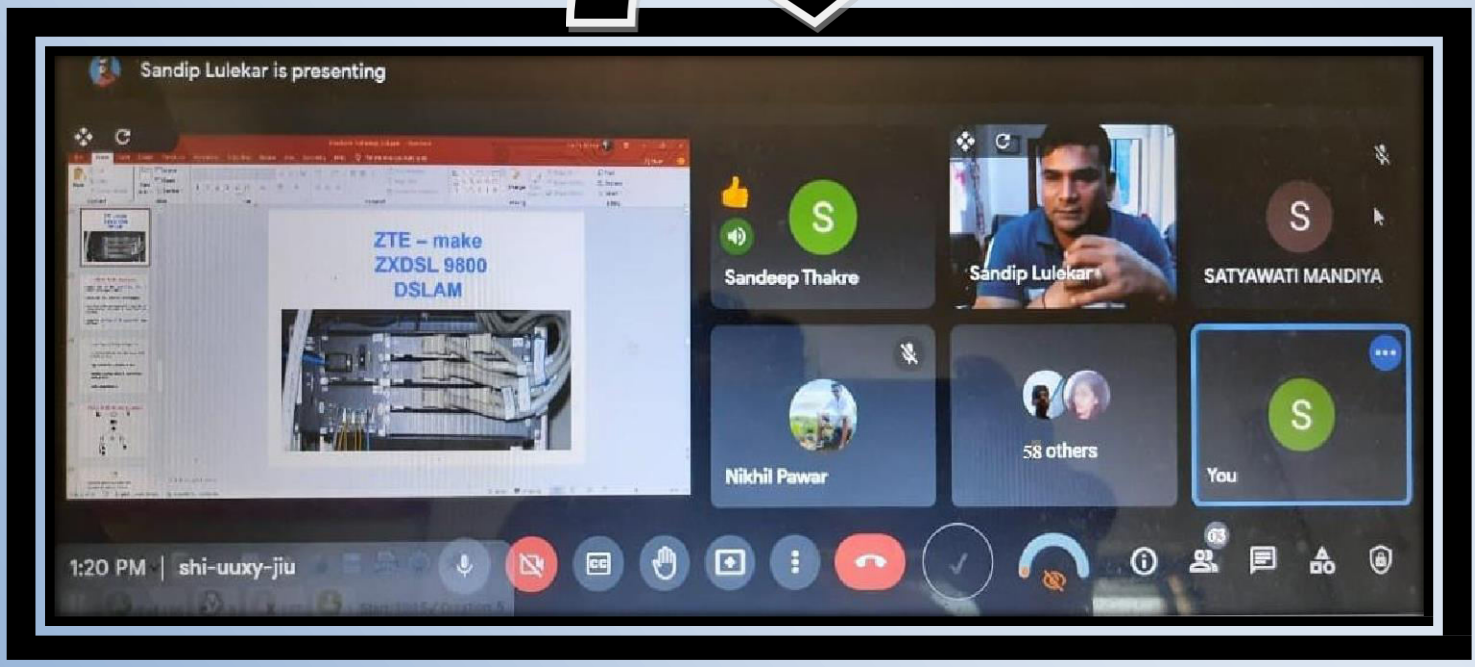
Department of Electronics & Communication Engineering under ISTE and IE (I) student chapter have organized a guest lecture on topic "**Telecommunication Technology & Future Scope**" by **Mr.Sandip Lulekar, JTO BSNL Hardware and Network Engineer, Nagpur**.

Aim:

To understand how to develop Telecommunication Technology & Future Scope

Objective:

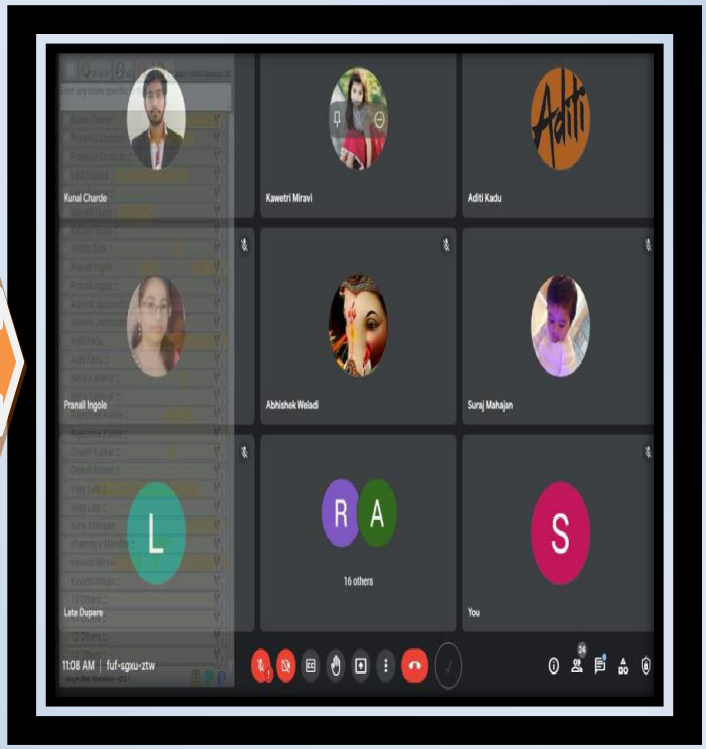
1. To make the students aware of Telecommunication Industry work culture & Future Scope.
2. To know the importance of Technology used for Telecommunication and career scope in companies like Reliance, Jio, Tata, BSNL as a Network Engineer, Developer, System Analysis.
3. To understand the role of Hardware and Network engineer in Telecommunication Industry.
4. To motivate students to achieve their goals by doing CCNA certified courses.



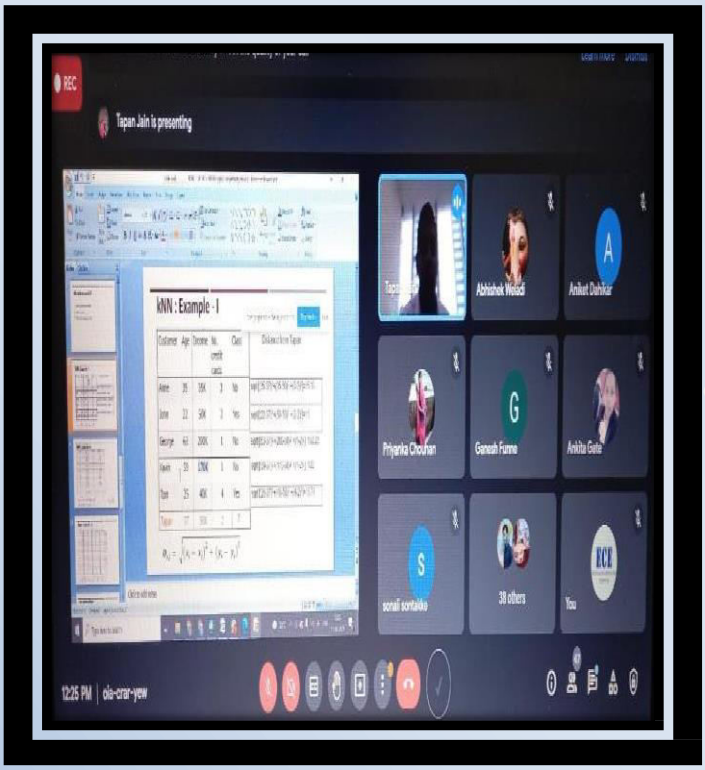
ALUMNI GUEST LECTURE
"OPPORTUNITIES IN EDUCATIONAL SECTORS LIKE BYJU'S"

Alumni Electronics & Communication Department

Department of Electronics & Communication Engineering under ISTE and IE(I) student chapter have organized a guest lecture on topic "Opportunities in Educational Sector like BYJU'S" by Ms.Mrunali Pinjarkar,Sales & Marketing Executive, BYJU'S Nagpur.



GUEST LECTURE ON
” MACHINE LEARNING ON RECENT TRENDS”

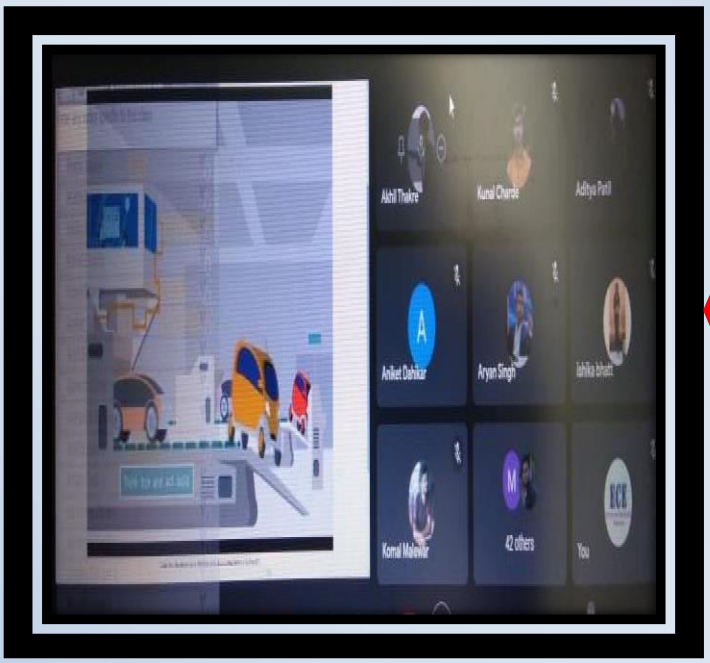


Introduction:
Department of Electronics & Communication Engineering under ISTE and IE (I) student chapter have organized a guest lecture on topic “Machine Learning on Recent Trends” by Dr.Tapan Jain, HoD (ECE), IIIT, Nagpur

AIM:
TO UNDERSTAND HOW TO DEVELOP ALGORITHM FOR MACHINE LEARNING.
OBJECTIVE:

1. ***TO MAKE THE STUDENTS AWARE OF MACHINE LEARNING.***
2. ***TO KNOW THE IMPORTANCE OF MACHINE LEARNING.***
3. ***TO UNDERSTAND THE ALGORITHM HOLDS THE PROMISE OF MAKING COMPUTER PROCESSORS MORE POWERFUL THAN ARE POSSIBLE WITH CONVENTIONAL SEMICONDUCTOR FABRICATION TECHNIQUES***
4. ***TO MOTIVATE STUDENTS TO ACHIEVE THEIR GOALS.***

GUEST LECTURE "INDUSTRY EVOLUTION 4.0"



Introduction:

Department of Electronics & Communication Engineering under ISTE and IE(I) student chapter have organized a guest lecture on topic "Industry Evolution 4.0" by Mr.Akhil Thakre,Founder of Tech Land Technology, IoT Trainer, Research Scholar VNIT Nagpur.

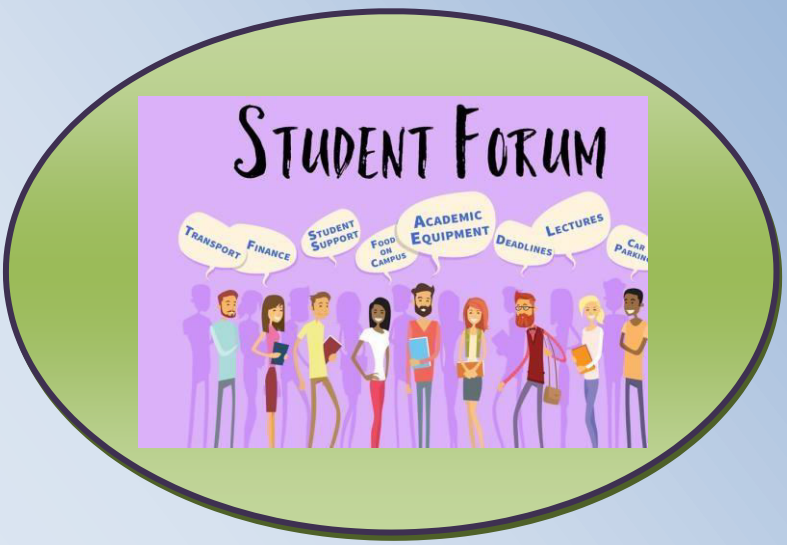
Aim:

To understand Importance and Role of Industrial Robots in Smart Factories

Objective:

1. ***To make the students aware of Key design principals of Industrial 4.0 Smart Factory.***
2. ***To know the importance and features of smart factory in Industrial Evolution.***
3. ***To understand the Role of Industrial robots in smart factories.***
4. ***To know Different Laws of Robotics with types of Robots.***
5. ***To Understand building blocks of Smart Factory/Industry 4.0***

STUDENT FORUM
INVICTUS 2022



WORKSHOP ON "DEVELOPMENT OF SMART GADGET"

Workshop

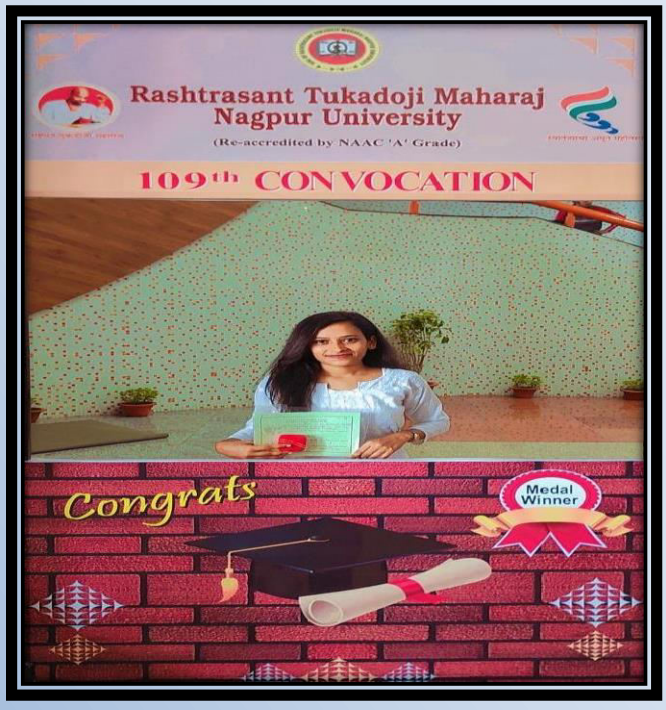
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

WORKSHOP ON RAPID PROTOTYPE

Workshop Conducted Under ISTE , IEI

Session 2021-22
Date:- 13/05/2022
Department of Electronics &

STUDENT ACHIEVEMENT (SECURED GOLD MEDAL)



Ms.Varsha R. Meshram

Secured Gold Medal with CGPA 9.36 Highest CGPA
in Fourth Sem Summer/Winter 2021RTMNU

Top Placements

Top Placements of Electronics & Communication Engineering

PROGRAM CONDUCTED BY ECE DEPARTMENT "INTERNATIONAL WOMEN'S DAY"

Program Conducted By ECE department "International Women's Day"

8th March 2022

Gaikwad-Patil College holds event to mark the occasion

The department of electronics & communication engineering in association with the **Indian Society for Technical Education** (ISTE) chapter, institute of engineers (IE) of Tulsiramji Gaikwad-Patil College of Engineering and Technology, conducted a programme. **Dipa Aage,** DYSP Cenral Jail, Nagpur, **Shilpi Gupta,** HR Reliance Power, Buttibori, Harsha Patil, headmistress, Little Scholars High School, Bezonbagh, Mercy Anjore, principal Suretech Nursing College, **Shraddha Pathak,** corporator and sabhapati, Gandhibagh zone, **Sania Malani,** assistant commandant in CRPF medical, RJ Nisha, Geeta Padole-Gaikwad, principal TGPCET, prof. **Pragati Patil,** vice-principal, **Surekha Raut,** director finance, prof. Vandana Khante, principal, TGPCA, prof. **Rohini Pochhi,** head of department ECE, Arvind Totey, dean CSR and **Praful Randive**, were present.

Faculty as an Expert

Prof.Rahul Dhuture
Lecture on Importance of
Technical Education

Faculty Achievements in NPTEL

Prof.Suraj Mahajan

Prof. Rohini Pochhi

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22GE05S33981532

To
SURAJ MURLIDHAR MAHAJAN
23,SAKET NAGRI,BELTARODI ROAD NAGPUR
NEAR BELTARODI POLICE STATION NAGPUR
NAGPUR
MAHARASHTRA - 440034
PH. NO :9921547001

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:1
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SURAJ MURLIDHAR MAHAJAN
for successfully completing the course
Effective Engineering Teaching In Practice

with a consolidated score of 61 %

Online Assignments	24/25	Proctored Exam	37.02/75

Total number of candidates certified in this course: 366

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Feb 2022
(4 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

Indian Institute of Technology Madras

swayam

Roll No:NPTEL22GE05S33981532

To validate and check scores: https://nptel.ac.in/noc

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Roll No: NPTEL22GE05S33981611

To
SWAPNALI MURLIDHAR MOON
PLOT NO 36, MITRA NAGAR
MANEWADA ROAD
NAGPUR
MAHARASHTRA - 440027
PH. NO :8237524572

Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:1
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
SWAPNALI MURLIDHAR MOON
for successfully completing the course
Effective Engineering Teaching In Practice

with a consolidated score of 58 %

Online Assignments	22/25	Proctored Exam	35.78/75

Total number of candidates certified in this course: 366

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Feb 2022
(4 week course)

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras

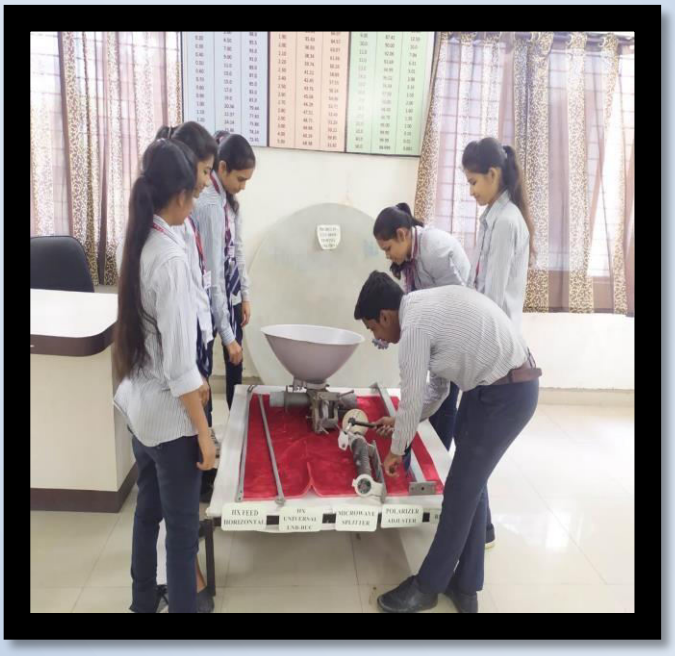
Indian Institute of Technology Madras

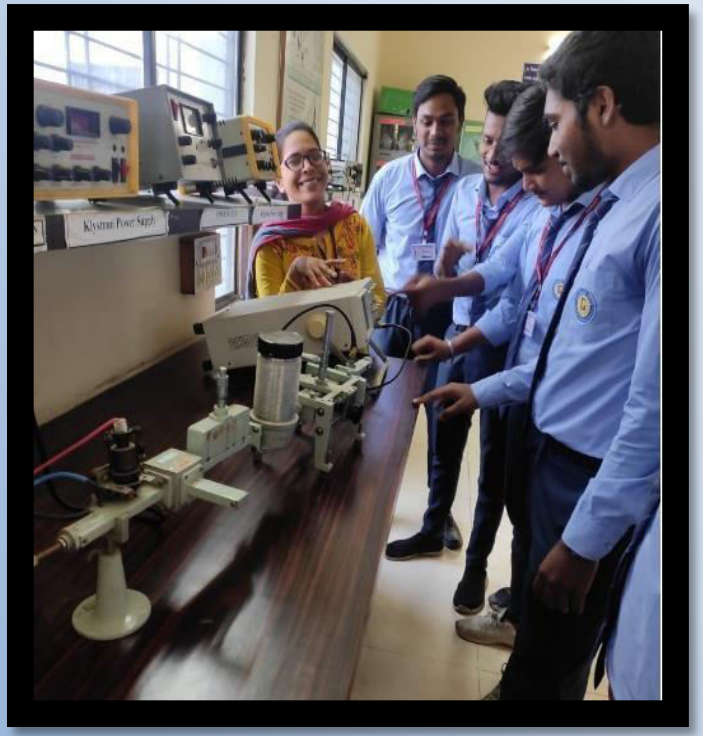
swayam

Roll No:NPTEL22GE05S33981611

To validate and check scores: https://nptel.ac.in/noc

Laboratories





Student Felicitation

GPGI GROUP OF INSTITUTIONS

B.Tech | B.Arch | M.Tech | MBA | MCA | Diploma | International School | Skill Development

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TULSIRAMJI GAIKWAD-PATIL College of Engineering & Technology
DTE CODE 4151

NAAC Accredited www.agpce.com
ABHA GAIKWAD-PATIL College of Engineering
DTE CODE 4195

NAAC Accredited www.tgpca.com
TULSIRAMJI GAIKWAD-PATIL College of Architecture, Nagpur
DTE CODE 4635

vmitgpg.com
VM INSTITUTE OF ENGINEERING & TECHNOLOGY, NAGPUR
DTE CODE 4285

Gaikwad-Patil International School
Nagpur (INDIA)
CBSE (Affiliation No:- 1130978)

EDUCATION EXCELLENCE AWARD
'Most Promising Private Engineering College in Vidarbha'

Winner of 'OUTSTANDING ENGINEERING INSTITUTE (WEST)'
Presented by ABP News 'National Education Awards - 2015'

Campus:
Mohgaon, Wardha Road,
Nagpur - 441 108
Maharashtra, India

Central Office:
Ojaswini Complex, Gayatri Nagar,
IT Park Road, Nagpur - 22.
Tel/Fax: 0712 - 2240656

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88050 00935