ELEVATE WITH INNOVATION

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T
E
C
H
F
L
Y

2
K
2
3

TABLE OF CONTENT

Vision of the Institute

To emerge as a learning Center of Excellence in the National Ethos in Diploma in Engineering.

Mission of the Institute

M1: To elevate the standards of students through ethical practices.

M2: To provide facilities and services to meet the challenges of Industry and Community.

M3: To ascertain holistic development of the students and staff members by inculcating knowledge and profession as work practices.

Vision of the Department

To emerge as a learning Center of Excellence in the domain of Computer Science and Engineering to produce proficient diploma engineers.

Mission of the Department

M1: To impart quality technical education in the field of Computer Science & Engineering and develop the skill through modern teaching & learning method.

M2: To provide learning environmental to face societal and industrial challenges of Computer Science & Engineering.

M3: To ensure overall development of students and staff members by inculcating knowledge and professional ethics as a part of lifelong learning.

About TGPCET

Tulsiramji Gaikwad-Patil College of Engineering and Technology (TGPCET) Polytechnic was established in the year 2013 by Vidarbha Bahu-Uddeshiya Shikshan Sanstha (VBSS), a registered society. It is a self financed Private Polytechnic , which is affiliated to Maharashtra State Board of Technical Education (MSBTE) Mumbai 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.

About Department

The Department of Computer Science and Technology at Tulsiramji Gaikwad Patil College of Engineering and Technology offers two specialized branches: Computer Science and Information Technology. With modern labs, experienced faculty, and an industry-focused curriculum, the department ensures strong technical foundations. It promotes practical learning through projects, workshops, and coding events. Students gain exposure to emerging fields like AI, Cybersecurity, and Data Science, preparing them for successful careers in tech.

HOD's Desk

Priyanka Choudhary
HOD, CW, Polytechnic

Welcome to the vibrant and dynamic Department of Computer Science & Engineering at TGPCET Polytechnic, Nagpur! In an era where technology evolves at an unprecedented pace, our department takes pride in nurturing the next generation of innovative minds in the realm of computing. We are committed to providing a robust academic foundation combined with practical exposure, enabling our students to thrive in the ever-changing tech landscape. At TGPCET Polytechnic, our distinguished faculty members bring a wealth of industry experience and academic expertise to the class room. We believe in cultivating an environment that encourages curiosity, critical thinking, and creativity among our students. Our focus extends beyond traditional learning methods, emphasizing hands- on experiences through state-of-the-art laboratories and collaborative projects. We aim not only to impart technical knowledge but also to instill ethical values and a sense of responsibility in our students, empowering them to become socially conscious professionals. Our department is dedicated to fostering an inclusive community where diversity is celebrated, ideas are exchanged freely, and each individual's potential is recognized and nurtured. We encourage our students to engage in extracurricular activities, research endeavors, and industry collaborations to broaden their horizons and prepare for the challenges of tomorrow. As the Head of Department, I invite you to explore the multitude of opportunities available within our department. Whether you aspire to develop ground breaking software, delve into cybersecurity, explore artificial intelligence, or innovate in any other computing domain, TGPCET Polytechnic is the ideal platform to embark on your journey towards success. I extend my best wishes to all our students and encourage them to dream big, strive for excellence, and make a meaningful impact in the world of Computer Science & Engineering

PEO's, PSO's & PO's

Programs Educational Objectives:

PEO 1. Provide socially responsible, environment friendly solutions to Computer engineering related broad-based problems adapting professional ethics.

PEO 2. Adapt state-of-the-art Computer engineering board-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

Programs Specific Outcomes:

PSO 1. Computer Software and Hardware Usage:
Use state-of-art technologies for operation and application of computer software and hardware.

PSO 2. Computer Engineering Maintenance:
Maintain computer engineering related software and hardware system.

Programs Outcomes (PO's):

POs are statements that describe what students are expected to know and be able to do upon graduating from the program. These relate to the skills, knowledge, analytical ability attitude and behavior that students acquire through the program.

The POs essentially indicate what the students can do from subject-wise knowledge acquired by them during the program. As such, POs define the professional profile of an engineering diploma graduate.

NBA has defined the following seven POs for an Engineering diploma graduate:

1. **Basic and Discipline specific knowledge:**
   Apply knowledge of basic mathematic science and engineering fundamentals and engineering specialization to solve the engineering problems.
2. **Problem analysis:**
   Identify and analyze well-defined engineering problems using codified standard methods.
3. **Design/ development of solutions:**
   Design solutions for well-defined technical problems and assist with the design of system components or processes to met specified method.
4. **Engineering Tools, Experimentation and Testing:**
   Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
5. **Engineering Practices for society, sustainability and environment:**
   Apply appropriate technology in context of society, sutainability, environment and ethical practices.
6. **Project Management:**
   Use engineering managements principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
7. **Life-long learning:**
   Ability to analyze individual needs and engage in updating in the context of technological changes.

Personality Development

The **Department of Computer Science & Engineering** has organized a Personality Development lecture on topic Unravelling the power of Body Language in Communication by **Mrs. Daksha Amol Tawari** , Lead Trainer, Hexaware , Nagpu

Aim: To focus on how to develop yourself according to corporate sector.

The Programme is organized on 07 October 2023. The introduction and brief about the PD lecture. Lecture start at 11:00 am and ends at 01.00 pm on same day.

She emphasized her lecture directing the students to overall idea about To reveal our true feelings and to give our message more impact , Enhances and amplifies the verbal message being portrayed through hand signals, gestures and postures positive thinking, technical skills, Team work etc. and how to strengthen yourself during tough phase in life.

Personality Development

The **department of Computer Science & Engineering** has organized a Personality Development lecture on topic "Communication Skills & Presenter In ME" by **Visshesh Prasaad,** Director, Skill U Armoury.

Aim: To focus on how to develop Clear and effective communication is one of the primary aims of developing communication skills.

The Programme is organized on 21 August,2023. The introduction and brief about the PD lecture. Lecture start at11:00 pm and ends at 2.30 pm on same day.

He emphasized her lecture directing the students to overall idea about leadership quality and how to gain trust from people and always be honest in every situation positive thinking, Team works etc.

and how to strengthen yourself during tough phase in life. Good communication skills can improve the
way that you operate through life, smoothing your way in your relationship with you other. Successful communication helps us better understand people and situations.

Personality Development

The **department of Computer Science Engineering** has organized a Personality Development lecture on topic Leadership and Qualities of a successful leader by Prof. Dr. Prashant Kadu, Dean of Interdisciplinary Faculty of RTM Nagpur University, Principal, AGPCE, Nagpur

Aim: To focus on how to develop Leadership Quality for corporate .

The Programme is organized on 02 December 2022. The introduction and brief about the PD lecture. Lecture start at 2:00 pm and ends at 04.00 pm on same day.

He emphasized her lecture directing the students to overall idea about leadership quality and how to gain trust from people and always be honest in every situation positive thinking, Team work etc. and how to strengthen yourself during tough phase in life. Humans need to learn how to cope with the problems and face the hardships while shaping out careers to become professionals and contributing citizens. According to him, critical thinking includes six categories: Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation..

Guest Lecture

The **department of Computer Science Engineering** has organized a Expert lecture on topic Java Programming Advance Java Programming by **Mr. Santosh Selorkar** Director , Software Developer SSIT Technology Nagpur

Aim: To focus on how to develop Java Programs & Advance Java Programs on JDK .

The Programme is organized on 06 October 2022. The introduction and brief about the Expert lecture by Mr. Santosh Selorkar , Director SSIT Pvt Ltd.. Lecture start at 12:00 am and ends at 02.00 pm on same day.

He emphasized his lecture directing the students to overall idea about technical skills of Java history , installation development of programme The main objective of this talk is to enhance the knowledge on Java Language, Future of Java Language and its application.

Guest Lecture

The **department of Computer Science Engineering** has organized a Expert lecture on topic "OOPs Concepts in Java Programming Advance Java Programming by **Mr. Nakul Deshmukh** Director , Software Developer IBase Technology Nagpur

Aim: To focus on importance of OOPs concepts in Java & Advance Java Programming

The Programme is organized on 08 November 2023 . The introduction and brief about the Expert lecture are given by Mr. Nakul Deshmukh Director Ibase Technology Nagpur . Lecture start at 12:00 am and ends at 02.00 pm on same day.

He emphasized his lecture directing the students to overall idea about technical skills of OOPs concepts in java programming and advance java programming and how to develop the code in java with database connectivity JDBC and also able to run successful error free code on eclipse.

Courses we Offer:

- Computer Science & Engineering
- Information Technology
- Civil Engineering
- Mechanical Engineering
- Electrical Engineering
- Electronics & Communication

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