



TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING & TECHNOLOGY

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade & NBA Accredited (EE & ME)

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)



Electrical Engineering Department

B.Tech Fourth Sem (NEP)

BEE32401 – Electromagnetic Fields

	Course Outcomes
BEE32401.1	Determine the unit vector, magnitude & angles in the specified criteria by using vector algebra.
BEE32401.2	Evaluate the physical quantities of electromagnetic fields by using Coulomb's law, Gauss's law and Divergence theorem.
BEE32401.3	Calculate the potential of charge and current density of boundary conditions for dielectric materials using Poisson's and Laplace Equations.
BEE32401.4	Find the magnetic Field Intensity and Density of magnetic material with the help of Biot Savart's law Ampere's Circuital law and Stoke's theorem
BEE32401.5	Discriminate magnetic boundary conditions, Point form & Integral form of Maxwell's equation.



TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING & TECHNOLOGY

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade & NBA Accredited (EE & ME)

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)



Electrical Engineering Department

B.Tech Fourth Sem (NEP)

BEE32402: Transformer and DC Machine

	Course Outcomes
BEE32402.1	Analyze the construction and performance of single-phase transformers.
BEE32402.2	Evaluate the principles and parameter calculation of three-phase transformers.
BEE32402.3	Assess transformer cooling, testing, and maintenance methods.
BEE32402.4	Identify and analyze special transformers and emerging technologies.
BEE32402.5	Examine the classification and characteristics of DC machines.



TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING & TECHNOLOGY

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade & NBA Accredited (EE & ME)

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)



Electrical Engineering Department

B.Tech Fourth Sem (NEP)

BEE32403: Introduction to Power System

	Course Outcomes
BEE32403.1	Describe the basic concepts of electrical power system & functions of protective devices used in substation
BEE32403.2	Determine per unit values for power system components & line parameters of transmission line by using per unit system representation.
BEE32403.3	Distinguish feeders, distributors, insulators & HT LT cables based on their operating voltage levels.
BEE32403.4	Calculate the voltage regulation and efficiency of transmission lines by nominal PI method and nominal T method
BEE32403.5	Interpret P-V and V-Q characteristics to evaluate system performance



TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING & TECHNOLOGY

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade & NBA Accredited (EE & ME)

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)



Electrical Engineering Department

B.Tech Fourth Sem (NEP)

Open Elective-II: BEE32404: Power Plant Engineering

	Course Outcomes
BEE32404.1	Analyze the working and layout of Thermal power plants and the other systems comprising the plant.
BEE32404.2	Analyze the working and layout of Hydro power plants and other systems comprising the plant.
BEE32404.3	Describe factors involved in economics of power plant operation as well as understand and apply the concept of Tariff



TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING & TECHNOLOGY

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade & NBA Accredited (EE & ME)

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)



Electrical Engineering Department

B.Tech Fourth Sem (NEP)

BSH32404 – Leadership and Team Dynamics

	Course Outcomes
1	Explain how global leadership skills contribute to leadership effectiveness.
2	Understand the leader's role in team-based organizations.
3	Classify the potential contribution of outdoor training to the development of team leadership.



TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING & TECHNOLOGY

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade & NBA Accredited (EE & ME)

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)



Electrical Engineering Department

B.Tech Fourth Sem (NEP)

BCE32408: Sustainable Development Goals

	Course Outcomes
BCE32408.1	To explore the historical origins and evolution of the UN-SDGs.
BCE32408.2	To analyze the 17 SDGs and their interlinkages.
BCE32408.3	To analyze the role of technology and innovation in achieving the SDGs along with future challenges and opportunities.



TULSIRAMJI GAIKWAD-PATIL COLLEGE OF ENGINEERING & TECHNOLOGY

Wardha Road, Nagpur - 441108

Accredited with NAAC A+ Grade & NBA Accredited (EE & ME)

Approved by AICTE, New Delhi, Govt. of Maharashtra

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)



Electrical Engineering Department

B.Tech Fourth Sem (NEP)

BBA32409: Managerial Economics

	Course Outcomes
BBA32409.1	Recognize the knowledge on concepts and principles of Managerial Economics.
BBA32409.2	Describe and relate to the market the concepts of Demand and Supply.
BBA32409.3	Identify and recognize the Production Function concept and Cost Analysis.