Amar Sewa Mandal's
GOVINDRAO WANJARI COLLEGE OF ENGINEERING & TECHNOLOGY
148/149, Salai Godhani, Near Chikna Village, Hudkeshwar Road, Nagpur – 441204
Ph - 7823850876 / 9307464978
Email – gwcet@rediffmail.com Website: www.gwcet.ac.in

President	Secretary	Treasurer	Principal
Dr. (Smt) Suhasini Wanjari	Adv. Abhijit G. Wanjari	Dr. Smeeta Wanjarri	Dr Salim Chavan

DEPARTMENT OF ELECTRICAL ENGINEERING
BTECH 3rd SEMESTER
LEARNING MANAGEMENT SYSTEM (LMS)

S.N	NAME OF SUBJECT	CO'S	NOTES
1.	***Engineering Mathematics III (BTBS301)***	*CO1: Understand the concept & apply the concepts and properties of Laplace transformation.*	**UNIT 1**
		CO2: Apply the concepts of inverse Laplace Transform with its property to solve Linear Differential Equation with given initial conditions.	**UNIT 2**
		CO3: Solve problems related to Fourier transform, Laplace transform and applications to Communication systems and Signal processing.	**UNIT 3**
		CO4: Understand the concepts of PDE and applications.	**UNIT 4**
		CO5: Analyze conformal mappings, transformations and perform contour integration of complex functions in the study of electrostatics and signal processing.	**UNIT 5**
2.	***Electrical Machines – 1 (BTEEC302)***	*CO1: Understand performance parameters of transformer with experimentation and demonstrate construction along with specifications as per standards.*	**UNIT 1**
		CO2: Applying various types of transformer connections as per vector groups with application and to perform parallel operation of three phase transformers.	**UNIT 2**
		CO3:Remembering the energy in magnetic system, energy in singly and multiply excited magnetic system, forces and torques in magnetic field systems, dynamic equations of electromechanical systems and analytical techniques.	**UNIT 3**
		CO4: Understand the construction, principle, armature and field systems, types, voltages build, operation characteristics, armature reaction, demagnetizing and cross magnetizing mmf, commutation, method to improve commutation in dc generator.	**UNIT 4**
		CO5: Understand the principle, types, torque equation in dc motors, starting and speed control of dc motor, braking of dc motors, applications.	**UNIT 5**
		CO6: Understand the principle, construction, operation, control and application of special electric machines.	**UNIT 6**
3.	***Electrical & Electronics Measurement (BTEEC303)***	*CO1: Analyse the performance of Instruments and Measurements errors*	**UNIT 1**
		CO2: Learn the principle of operation in Analog Measurements	**UNIT 2**
		CO3: Demonstrate the analysis of any A.C and D.C Bridge	**UNIT 3**
		CO4: Designed the performance of digital Measurements	**UNIT 4**
		CO5: Interpret the applications of Transducers and Introduction	**UNIT 5**
4.	***Engineering Material Science (BTES305)***	*CO1: Understand the concept of conducting material and various properties.*	**UNIT 1**
		CO2: Explain the concept of dielectric materials like electric field medium, types of polarization, leakage currents dielectric loss, application of materials.	**UNIT 2**
		CO3: Classify the concept of semiconductor materials and properties of semiconductor.	**UNIT 3**
		CO4: Illustrate the concept of magnetic materials like ferromagnetic material, antiferromagnetic materials and properties of magnetic materials.	**UNIT 4**
		CO5: Compare various type special purpose materials and its application	**UNIT 5**