



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	ECA-II	Class/ Sem	II-I
Faculty Name:	M.Srinu	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2211.1	Analyze the concepts of balanced and unbalanced three-phase circuits.	Analyze
C2211.2	Analyze transient behavior of electrical networks with DC excitations	Analyze
C2211.3	Analyze the transient behavior of electrical networks with AC excitations.	Analyze
C2211.4	Estimate various parameters of a two port network	Apply
C2211.5	Evaluate the electrical equivalent network for a given network transfer function	Evaluate
C2211.6	Understand the different harmonics components from the response of an electrical network.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	EM-I	Class/ Sem	II-I
Faculty Name:	P.Nagaraju	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2212.1	Explain the construction, principle of operation and performance of DC Machines	Analyze
C2212.2	Calculate the Torque, EMF Equation, Armature reaction, commutation and characteristics of DC Machines.	Evaluate
C2212.3	Understand the torque production mechanism and control the speed of dc motors	Analyze
C2212.4	Design starter to conduct the Testes DC Machines.	Apply
C2212.5	Analyze the performance of single phase transformers and determination of regulation, losses and efficiency of single phase transformers.	Evaluate
C2212.6	Define the different testes in single phase and three phase transformers	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	EEE	AY	2017-2018
Course Name:	BED	Class/Sem	EEE-II-I
Faculty Name:	K.Venkannaidu	Regulation	R16

Course Outcomes

After completion of this course, the student will be able to:

CO.No	CO Statement	Taxonomy
C2213.1	Understand the basic concepts of semiconductor physics.	Understand
C2213.2	Understand the formation of p-n junction and how it can be used as a p-n junction as diode in different modes of operation.	Understand
C2213.3	Analyze working principle of rectifiers with and without filters with relevant expressions and necessary comparisons.	Analyze
C2213.4	Understand the construction, principle of operation of transistors, BJT and FET with their V-I characteristics in different configurations.	Understand
C2213.5	Understand transistor biasing, various biasing techniques for BJT and FET and stabilization concepts with necessary expressions.	Evaluate
C2213.6	Analysis of small signal low frequency transistor amplifier circuits using BJT and FET in different configuration	Analyze

#knowledge; Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech Electrical & Electronics Engineering	AY	2017-18
Course Name:	Electro Magnetic Fields	Class / Sem	II/I
Faculty Name:	D.Joseph Kumar	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy[#]
C2214.1	Determine electric fields and potentials using Guass's law or solving Laplace's or Poisson's equations, for various electric charge distributions.	Apply
C2214.2	Design the capacitance and energy stored in dielectrics.	Create
C2214.3	Evaluate the magnetic field intensity due to current, the application of Ampere's law and the Maxwell's second and third equations.	Evaluate
C2214.4	Evaluate magnetic forces and torque produced by currents in magnetic field	Evaluate
C2214.5	Illustrate self and mutual inductances and the energy stored in the magnetic field.	Analyse
C2214.6	Calculate induced EMF; understand the concepts of displacement current and Pointing vector.	Apply

[#] Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	THPM	Class/ Sem	II-I
Faculty Name:	S. Chanduprasad	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2215.1	Determine the coefficient of discharge of flow measuring devices (orifice meter and Venturi meter)	Analyze
C2215.2	Evaluate the losses in pipes	Analyze
C2215.3	Determine the efficiency and plot the characteristic curves of different types of pumps and turbines	Analyze
C2215.4	Identify various systems and subsystems of Diesel and petrol engines	Apply
C2215.5	Analyse the performance characteristics of internal combustion engines	Evaluate
C2215.6	Illustrate the operational performances of boilers	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	MEFA	Class/ Sem	II-I
Faculty Name:	M.Keerthi	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2216.1	The Learner is equipped with the knowledge of estimating the Demand and demand elasticities for a product.	Analyze
C2216.2	The knowledge of understanding of the Input-Output-Cost relationships and estimation of the least cost combination of inputs.	Analyze
C2216.3	The pupil is also ready to understand the nature of different markets and Price Output determination under various market conditions and also to have the knowledge of different Business Units..	Analyze
C2216.4	The Learner is able to prepare Financial Statements and the usage of various Accounting tools for Analysis.	Apply
C2216.5	The Learner can able to evaluate various investment project proposals with the help of capital budgeting techniques for decision making.	Evaluate
C2216.6	The Learner can able to evaluate various investment project proposals with the help of capital budgeting techniques for decision making.☐	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:



DNR College of Engineering & Technology :: Bhimavaram

Department of Electrical & Electronics Engineering

A.Y: 2017-18

THERMAL & HYDRO PRIMEMOVERS LAB

II B.Tech - I Semester – EEE

COURSE OUTCOMES

Course Name: Thermal and Hydro primemovers Lab

S.No.	CO Statement	BTL
C2218.1	Determine the coefficient of discharge of flow measuring devices (orifice meter and Venturi meter)	Analyze
C2218.2	Evaluate the losses in pipes	Create
C2218.3	Determine the efficiency and plot the characteristic curves of different types of pumps and turbines	Create
C2218.4	Identify various systems and subsystems of Diesel and petrol engines	Evaluate
C2218.5	Analyse the performance characteristics of internal combustion engines	Analyze
C2218.6	Illustrate the operational performances of boilers	Evaluate

Faculty in-charge



DNR College of Engineering & Technology :: Bhimavaram

Department of Electrical & Electronics Engineering

PL-ELECTICAL CIRCUITS LAB

A.Y: 2017-18

ELECTRICAL CIRCUITS LAB

II B.Tech - I Semester – EEE

COURSE OUTCOMES

Course Name: Electrical Circuits Lab

After completion of the course the student will be able to

S.No.	CO Statement	BTL
C2218.1	Apply various theorems	Apply
C2218.2	Determination of self and mutual inductances	Evaluate
C2218.3	Two port parameters of a given electric circuits	Apply
C2218.4	Draw locus diagrams	Apply
C2218.5	Draw Waveforms and phasor diagrams for lagging and leading networks	Analyze
C2218.6	Determine the parameters of choke coil.	Evaluate

Faculty in-charge



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	ELECTRICAL MEASUREMENTS	Class/ Sem	II-II
Faculty Name:	D.Rajesh	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2221.1	Explain about various errors in CT and PT	Analyze
C2221.2	Discuss the Measurement of active and reactive powers in balanced and unbalanced systems.	Analyze
C2221.2	Outline the Principle and operation of D.C. Crompton's potentiometer	Analyze
C2221.2	Explain the methods of measuring inductance and capacitance using bridges	Evaluate
C2221.2	Explain about Ballistic Galvanometer.	Evaluate
C2221.2	Compare various digital meters in various aspects	Analyze

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	ELECTRICAL MACHINES-II	Class/ Sem	II-II
Faculty Name:	D.Satyanarayana	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2222.1	Elaborate the principle of operation and performance of 3-phase induction motor.	Analyze
C2222.2	Identify the performance tests carried out on induction motor.	Analyze
C2222.3	Select the suitable single-phase motors for various domestic applications.	Analyze
C2222.4	Explain various methods of measuring voltage regulation in synchronous generator	Evaluate
C2222.5	Discuss about parallel operation of synchronous generators.	Understand
C2222.6	Analyze power developed in synchronous motors using phasor diagrams	Analyze

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	STLD	Class/ Sem	II-II
Faculty Name:	K.Satish kumar	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2223.1	Illustrate the signals and systems and principles of vector spaces, Concept of orthogonality.	Analyze
C2223.2	Analyze the continuous-time signals and continuous-time systems using Fourier series, Fourier transform and Laplace transform.	Analyze
C2223.3	Apply sampling theorem to convert continuous-time signals to discrete-time signal and reconstruct back.	Analyze
C2223.4	Understand the relationships among the various representations of LTI systems	Evaluate
C2223.5	Explain the Concepts of convolution, correlation, Energy and Power density spectrum and their relationships.	Evaluate
C2223.6	Apply z-transform to analyze discrete-time signals and systems.	Analyze

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	CONTROL SYSTEMS	Class/ Sem	II-II
Faculty Name:	M.Srinu	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2224.1	Develop the mathematical model of various LTI systems.	Analyze
C2224.2	Analyze the time response of various LTI systems.	Analyze
C2224.3	Determine the stability of the LTI systems using various methods.	Analyze
C2224.4	Discuss about frequency response analysis of various systems	Evaluate
C2224.5	Explain the concept of lag-lead compensators	Understand
C2224.6	Determine controllability and Observability and STM of given system.	Analyze

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	POWER SYSTEMS-I	Class/ Sem	II-II
Faculty Name:	S.Rajesh	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2225.1	Explain the general layout of thermal power plant	Analyze
C2225.2	Classify various types of Nuclear Reactors	Analyze
C2225.3	Compare AC and DC Distribution systems	Apply
C2225.4	Apply the knowledge of comparing various bus bar arrangements in substations	Apply
C2225.5	Explain the construction of different types of cables	Understand
C2225.6	Apply different methods of tariffs for specific loads	Apply

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	Management Science	Class/ Sem	II-II
Faculty Name:	I.Suresh	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2226.1	Familiarize with the process of management and to provide basic insight into select contemporary management	Analyze
C2226.2	Practices provide conceptual knowledge on functional management and strategic management.	Analyze
C2226.3	Acquire the knowledge on management functions, global leadership and organizational behavior.	Analyze
C2226.4	Familiarize with the concepts of functional management project management and strategic management.	Evaluate
C2226.5	Practices provide conceptual knowledge on functional management and strategic management.	Understand
C2226.6	Acquire the knowledge on management functions, global leadership and organizational behavior.	Analyze

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	ELECTRICAL MACHINES – I LABORATORY	Class/ Sem	II-II
Faculty Name:	T. Venkateswara Rao	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2224.1	Determine and predetermine the performance of DC machines and Transformers.	Analyze
C2224.2	Determine and predetermine the performance of Transformers.	Analyze
C2224.3	Control the speed of DC motor by using various methods.	Apply
C2224.4	Obtain three phase to two phase transformation.	Evaluate
C2224.5	Determine constant losses of of DC Machine.	Analyze
C2224.6	Separate core losses of Transformer.	Apply

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR COLLEGE OF ENGINEERING & TECHNOLOGY, Bhimavaram
Department of Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2017-2018
Course Name:	ELECTRONIC DEVICES & CIRCUITS LABORATORY	Class/ Sem	II-II
Faculty Name:	T. Venkateswara Rao	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2225.1	Find and analyze an ethical issue in the subject matter under investigation or in a relevant field	Analyze
C2225.2	Solve the multiple ethical interests at stake in a real-world situation or practice	Analyze
C2225.3	Analyze what makes a particular course of action ethically defensible	Analyze
C2225.4	solve their own ethical values and the social context of problems	Evaluate
C2225.5	Apply ethical concerns in research and intellectual contexts, including academic integrity, use and citation of sources, the objective presentation of data, and the treatment of human subjects	Apply
C2225.6	Demonstrate knowledge of ethical values in non-classroom activities, such as service learning, internships, and field work	Apply

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:



D.N.R.COLLEGE OF ENGINEERING & TECHNOLOGY

Balusumudi Bhimavaram-2

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	PS-II	Class/ Sem	III-I
Faculty Name:	K.Lakshmi	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2311.1	Understand the concepts of transmission line parameters .	Analyze
C2311.2	Analyze the performance of transmission line analysis.	Analyze
C2311.3	To study the performance of long transmission lines.	Analyze
C2311.4	Evaluate the effect of travelling waves on transmission lines.	Apply
C2311.5	Understand the Performance of Factors governing in Transmission line.	Evaluate
C2311.6	Applying the performance of overhead insulators with sag and tension computation of transmission lines.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



D.N.R.COLLEGE OF ENGINEERING & TECHNOLOGY

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	RES	Class/ Sem	III-I
Faculty Name:	G.N.D.Srinivas	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2312.1	Analyze solar radiation data, extraterrestrial radiation, and radiation on earth's surface	Analyze
C2312.2	Design solar thermal collectors, solar thermal plants.	Analyze
C2312.3	Design solar photo voltaic systems.	Analyze
C2312.4	Develop maximum power point techniques in solar PV and wind energy systems.	Apply
C2312.5	Explain wind energy conversion systems, wind generators, power generation	Evaluate
C2312.6	Explain basic principle and working of hydro, tidal, biomass, fuel cell and geothermal systems.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	SS	Class/ Sem	III-I
Faculty Name:	K.P.Mani	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2226.1	Illustrate the signals and systems and principles of vector spaces, Concept of orthogonality.	Analyze
C2226.2	Analyze the continuous-time signals and continuous-time systems using Fourier series, Fourier transform and Laplace transform.	Analyze
C2226.3	Apply sampling theorem to convert continuous-time signals to discrete-time signal and reconstruct back.	Analyze
C2226.4	Understand the relationships among the various representations of LTI systems	Apply
C2226.5	Explain the Concepts of convolution, correlation, Energy and Power density spectrum and their relationships.	Evaluate
C2226.6	Apply z-transform to analyze discrete-time signals and systems.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	PDC	Class/ Sem	III-I
Faculty Name:	K.S.Satish Kumar	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2314.1	Analyze the output characteristics of linear circuits for different test signals.	Analyze
C2314.2	Develop nonlinear circuits like clippers and clampers using active and passive elements.	Analyze
C2314.3	Examine the switching characteristics of nonlinear elements used in various digital circuits.	Analyze
C2314.4	Design various multivibrator circuits.	Apply
C2314.5	Illustrate the operation of various time base generator circuits and sampling gates.	Evaluate
C2314.6	Understand the operation of various digital logic circuits.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	PE	Class/ Sem	III-I
Faculty Name:	G.Saibaba	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2315.1	Illustrate the characteristics of various power semiconductor devices and analyze the static and dynamic characteristics of SCR's.	Analyze
C2315.2	Design firing circuits for SCR.	Analyze
C2315.3	Analyse the operation of single phase full-wave converters and analyze harmonics in the input current.	Analyze
C2315.4	Demonstrate the operation of three phase full-wave converters.	Apply
C2315.5	Analyze the operation of different types of DC-DC converters	Evaluate
C2315.6	Explain the operation of inverters and application of PWM techniques for voltage control and harmonic mitigation. analyze the operation of AC-AC regulators	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



DNR College of Engineering & Technology :: Bhimavaram

Department of Electrical & Electronics Engineering

A.Y: 2020-21

ELECTRICAL MACHINES-II LAB

III B.Tech - I Semester – EEE

COURSE OUTCOMES

Course Name: Electrical Machines-II Lab

After completion of the course the student will be able to

S.No.	CO Statement	BTL
C2316.1	Assess the performance of single phase and three phase induction motors	Apply
C2316.2	Control the speed of three phase induction motor.	Evaluate
C2316.3	Predetermine the regulation of three-phase alternator by various methods.	Apply
C2316.4	Find the X_d/X_q ratio of alternator and assess the performance of three-phase synchronous motor	Apply
C2316.5	Determine the performance single phase AC series motor.	Analyze
C2228.6	Determine the Regulation of Alternator by various methods.	Evaluate

Faculty in-charge



DNR College of Engineering & Technology :: Bhimavaram

Department of Electrical & Electronics Engineering

A.Y: 2020-21

CONTROL SYSTEMS LAB

III B.Tech - I Semester – EEE

COURSE OUTCOMES

Course Name: Control Systems Lab

After completion of the course the student will be able to

S.No.	CO Statement	BTL
C2317.1	Analyze the performance and working Magnetic amplifier, D.C and A.C. servo motors and synchronous motors.	Analyze
C2317.2	Design P, PI, PD and PID controllers	Evaluate
C2317.3	Design lag, lead and lag–lead compensators.	Apply
C2317.4	Determine the temperature control using PID controller	Apply
C2317.5	Determine the transfer function of D.C.motor.	Analyze
C2227.6	Analyze the performance and working Magnetic amplifier, D.C and A.C. servo motors and synchronous motors.	Evaluate

Faculty in-charge



DNR College of Engineering & Technology :: Bhimavaram

Department of Electrical & Electronics Engineering

A.Y: 2020-21

ELECTRICAL MEASUREMENTS LAB

III B.Tech - I Semester – EEE

COURSE OUTCOMES

Course Name: Electrical Measurements Lab

After completion of the course the student will be able to

S.No.	CO Statement	BTL
C2318.1	Measure the electrical parameters voltage, current, power, energy	Analyze
C2318.2	Know the Characteristics of resistance, inductance and capacitance.	Evaluate
C2318.3	Design and construct suitable bridge to measure inductance, capacitance & resistance.	Apply
C2318.4	Calibrate the energy meter and current transformer	Apply
C2318.5	Determine power, power factor of the circuit and iron losses.	Analyze
C2228.6	Measure the electrical parameters voltage, current, power, energy	Evaluate

Faculty in-charge



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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	IPR&P	Class/ Sem	III-I
Faculty Name:	B.Vamsidhar	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2321.1	Illustrate various braking methods of Electric Drive	Analyze
C2321.2	Develop the output voltage and speed -torque expression for single phase half and fully controlled converter	Analyze
C2321.3	Explain various quadrant operations of self and separately excited DC motor	Analyze
C2321.4	Discuss Variable voltage Variable Frequency control of induction motor by PWM	Apply
C2321.5	Elaborate various rotor side control schemes of induction motor	Evaluate
C2321.6	Demonstrate the operation of self-controlled synchronous motors by VSI	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

Faculty signature:

Date:



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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	PEC&D	Class/ Sem	III-II
Faculty Name:	G.Saibaba	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2321.1	Illustrate various braking methods of Electric Drive	Analyze
C2321.2	Develop the output voltage and speed -torque expression for single phase half and fully controlled converter	Analyze
C2321.3	Explain various quadrant operations of self and separately excited DC motor	Analyze
C2321.4	Discuss Variable voltage Variable Frequency control of induction motor by PWM	Apply
C2321.5	Elaborate various rotor side control schemes of induction motor	Evaluate
C2321.6	Demonstrate the operation of self-controlled synchronous motors by VSI	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	PSA	Class/ Sem	III-II
Faculty Name:	G.ND.Srinivas	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2321.1	Understand the concepts of circuit topology.	Analyze
C2321.2	Analyze the load flow methods.	Analyze
C2321.3	Evaluate the concept of zbus algorithm.	Analyze
C2321.4	Evaluate the symmetrical fault analysis.	Apply
C2321.5	Understand the symmetrical components and fault analysis.	Evaluate
C2321.6	Applying the performance of power system stability analysis.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Electrical & Electronics Engineering

Course Outcomes
(COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	MP&MC	Class/ Sem	III-II
Faculty Name:	NSLV.Sowjanya	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2323.1	Understands the internal architecture, capability in general and explore the evaluation and organization of 8086, 8051 and PIC Microcontrollers.	Analyze
C2323.2	Interpret the microprocessor instruction set and addressing modes for writing an Assembly Language Program, estimating the machine cycles	Analyze
C2323.3	Develop assembly language programming to design microprocessor based systems using interfacing techniques of 8086.	Analyze
C2323.4	Interpret the microcontroller instruction set and addressing modes for writing an Assembly Language Program, estimating the machine cycles	Apply
C2323.5	Develop assembly language programming to design micro controller based systems using interfacing techniques of 8051	Evaluate
C2323.6	Develop cyber physical systems programs in C using PIC 18 micro controller	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	DS	Class/ Sem	III-II
Faculty Name:	B.Nandankumar	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2324.1	Illustrate the properties, interfaces and behaviors of basic abstract data type.	Analyze
C2324.2	Analyze different Sorting, Searching techniques and understand various file organizations.	Analyze
C2324.3	Explain the basic data structures such as Arrays and Linked Lists.	Analyze
C2324.4	Analyze Use of Stacks and Queues in programming	Apply
C2324.5	Describe different methods for traversing trees.	Evaluate
C2324.6	Solve the problem involving Graphs	Evaluate

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	UNIX & shell Programming	Class/ Sem	III-II
Faculty Name:	KSR.Prasad	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2325.1	Describe the architecture and features of UNIX Operating System and distinguish it from other Operating System.	Analyze
C2325.2	Demonstrate UNIX commands for file handling and process control.	Analyze
C2325.3	Determine Shell parameter and I/O redirections.	Analyze
C2325.4	Analyze grep family and awk patterns.	Apply
C2325.5	Analyze a given problem and apply requisite facets of SHELL programming in order to devise a SHELL script to solve the problem	Evaluate
C2325.6	Develop Parent and Child Process Communication Mechanism	Evaluate

#Remember; Understand; Apply; Analyze; Evaluate; Create

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DNR College of Engineering & Technology :: Bhimavaram

Department of Electrical & Electronics Engineering

A.Y: 2020-21

POWER ELECTRONICS LAB

III B.Tech - II Semester – EEE

COURSE OUTCOMES

Course Name: Power Electronics Lab

After completion of the course the student will be able to

S.No.	CO Statement	BTL
C2326.1	Analyze the characteristics of various power electronic devices	Analyze
C2326.2	Describe the performance of single-phase and three-phase full-wave bridge converters with both resistive and inductive loads.	Evaluate
C2326.3	Understand the operation of single phase AC voltage regulator with resistive and inductive loads	Apply
C2326.4	Explain the working of Buck converter, Boost converter, single-phase square wave inverter and PWM inverter	Apply
C2326.5	Construct Boost converter in Continuous Conduction Mode operation.	Analyze
C2226.6	Construct single phase AC Voltage regulator.	Evaluate

Faculty in-charge



DNR College of Engineering & Technology :: Bhimavaram

Department of Electrical & Electronics Engineering

A.Y: 2020-21

MICRO PROCESSORS & MICROCONTROLLERS LAB

III B.Tech - II Semester – EEE

COURSE OUTCOMES

Course Name: Microprocessors & Microcontrollers Lab

After completion of the course the student will be able to

S.No.	CO Statement	BTL
C2327.1	Analyze the characteristics of various power electronic devices	Analyze
C2327.2	Describe the performance of single-phase and three-phase full-wave bridge converters with both resistive and inductive loads.	Evaluate
C2327.3	Understand the operation of single phase AC voltage regulator with resistive and inductive loads	Apply
C2327.4	Explain the working of Buck converter, Boost converter, single-phase square wave inverter and PWM inverter	Apply
C2327.5	Construct Boost converter in Continuous Conduction Mode operation.	Analyze
C2227.6	Construct single phase AC Voltage regulator.	Evaluate

Faculty in-charge



DNR College of Engineering & Technology :: Bhimavaram

Department of Electrical & Electronics Engineering

A.Y: 2020-21

DATA STRUCTURES LAB

III B.Tech - II Semester – EEE

COURSE OUTCOMES

Course Name: Data Structures Lab

After completion of the course the student will be able to

S.No.	CO Statement	BTL
C2328.1	Explain different Sorting and Searching Algorithms	Analyze
C2328.2	Describe various types of linked lists and their applications	Evaluate
C2328.3	Use of stack, Queue and their applications	Apply
C2328.4	Classify simple applications using various data structures	Apply
C2328.5	Show the basic operations on trees	Analyze
C2228.6	Determine minimum spanning tree by using Graphs	Evaluate

Faculty in-charge



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Electrical & Electronics Engineering

Course Outcomes
(COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	PE & HV	Class/ Sem	III-II
Faculty Name:	B.Praveen	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2329.1	Recollect the human, moral values and ethics.	Analyze
C2329.2	Illustrate the principles to bring harmony among I, we and nature by focusing on human duties, rights, and dignity.	Analyze
C2329.3	Describe the various Engineering Ethics and social issues that are encountered by every professional in discharging professional duties.	Analyze
C2329.4	Describe the Engineers' Responsibilities towards Safety and Risk and based on this make analysis on designing to keep safety measure.	Apply
C2329.5	Demonstrate the professional ethics and techniques for collegiality and problem solving?	Evaluate
C2329.6	Discuss the globalization and MNC issues like – cross culture, business ethics and research ethics etc.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Electrical & Electronics Engineering

Course Outcomes
(COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	UEE	Class/ Sem	IV-I
Faculty Name:	M.Srinu	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2411.1	Identify a suitable motor for electric drives and industrial applications	Analyze
C2411.2	Explain heating or welding techniques for suitable applications	Analyze
C2411.3	Understand various level of luminosity produced by different illuminating sources.	Analyze
C2411.4	Estimate the illumination levels produced by various sources and recommend the most efficient illuminating sources and should be able to design different lighting systems by taking inputs and constraints in view.	Apply
C2411.5	Analyse the speed/time characteristics of different types of traction motors.	Evaluate
C2411.6	Identify a suitable motor for electric drives and industrial applications	Understand

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Course Outcomes
(COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	LINEAR IC APPLICATIONS	Class/ Sem	IV-I
Faculty Name:	Y. Srinivas	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2412.1	Estimate energy consumption levels at various modes of operation.	Analyze
C2412.2	Design circuits using operational amplifiers for various applications.	Analyze
C2412.3	Explore various Transistor Current Sources and Differential amplifiers	Analyze
C2412.4	Analyze and design amplifiers and active filters using Op-amp	Apply
C2412.5	Diagnose and trouble-shoot linear electronic circuits.	Evaluate
C2412.6	Analyze the gain-bandwidth concept and frequency response of the amplifier configurations.	Understand

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	POWER SYSTEM OPERATION AND CONTROL	Class/ Sem	IV-I
Faculty Name:	M.R.Balusula Rao	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2413.1	Evaluate thermal power generation for economic operation with & without transmission losses.	Analyze
C2413.2	Evaluate hydro- thermal power generation mix for economic operation with & without transmission losses	Analyze
C2413.3	Solve the unit commitment problems using iterative technique satisfying equality and inequality constraints for optimal solution.	Analyze
C2413.4	Explain load frequency control & estimate the frequency deviation through modeling.	Apply
C2413.5	Compute steady state error for changes in load demand & design controller to minimize the error for single area and two area systems	Evaluate
C2413.6	Choose and model controllers for reactive power compensation in a system to improve system voltage.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	SWITCHGEAR AND PROTECTION	Class/ Sem	IV-I
Faculty Name:	Dr.KBVS.R.Subrahmanyam	Regulation	R16

Course Outcomes

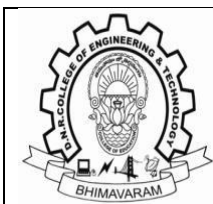
After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2224.1	Explain the principle of operation of various Circuit Breakers	Analyze
C2224.2	Classify various types of relays with their characteristics	Analyze
C2224.3	Apply the Knowledge of various protective schemes for Generators and Transformers	Analyze
C2224.4	Choose suitable protective scheme for the protection of feeders & bus bars.	Apply
C2224.5	Illustrate various static relays	Evaluate
C2224.6	Discuss the concept of over voltages and methods of neutral grounding	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	INSTRUMENTATION	Class/ Sem	IV-I
Faculty Name:	N.Hymavathi	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2224.1	Develop proper knowledge and the ability to handle various types of signal analyzers	Analyze
C2224.2	Illustrate the effectiveness of the Transducer.	Analyze
C2224.3	Explain the operations of the various instruments required in measurements.	Analyze
C2224.4	Demonstrate the principle of operation, working of different electronic instruments like digital Volt meter.	Apply
C2224.5	Measure various parameters like phase and frequency of a signal with the help of CRO.	Evaluate
C2224.6	Explain the functioning, specification, and applications of signal Analysing Instruments	Understand

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Course Outcomes
(COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	ELECTRICAL SIMULATION LABORATORY	Class/ Sem	IV-I
Faculty Name:	N.Hymavathi	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2417.1	Explain simulation of integrator circuit, differentiator circuit, Boost converter, Buck converter, full convertor and PWM inverter.	Analyze
C2417.2	Analyze of three phase circuit representing the generator transmission line and load.	Analyze
C2417.3	Analyze Simulation of single-phase full converter using different loads, single phase AC voltage controller using RL loads	Analyze
C2417.4	Demonstrate simulation of integrator circuit, differentiator circuit, Boost converter, Buck converter, full convertor and PWM inverter.	Apply
C2417.5	Apply the knowledge of simulating transmission line by incorporating line, load and transformer models	Evaluate

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Course Outcomes

(COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	POWER SYSTEM & SIMULATION LABORATORY	Class/ Sem	IV-I
Faculty Name:	M.R.Balusula Rao	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2418.1	Explain Sequence impedances of 3 phase Transformer	Analyze
C2418.2	Determine the parameters of various power system components	Analyze
C2418.3	Analyze various types of transmission line parameter to design transmission line and understand the sending end and receiving end circle diagram	Analyze
C2418.4	Acquire knowledge of filtration and Treatment of transformer oil test and Apply techniques to evaluate dielectric strength of transformer oil, capacitance and dielectric loss of an insulating material.	Apply
C2418.5	Analyze the Load flow analysis for a given system (for 3 to 6 bus) using Newton Raphson and Gauss-seidel method method	Evaluate
C2418.6	Identify the conditions causing the system overloading, perform overload security analysis, obtain results for a given problem using MATLAB, and perform the transient stability analysis of a given network using MATLAB Software.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	Digital control systems	Class/ Sem	IV-II
Faculty Name:	D.Josephkumar	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2224.1	Understand the advantages of discrete time control systems and various associated accessories.	Analyze
C2224.2	Analyse of z-transformations and their role in the mathematical analysis of different systems (like Laplace transforms in analog systems).	Analyze
C2224.3	Apply state space analysis for concepts of Controllability and Observability	Analyze
C2224.4	Evaluate the stability criterion for digital systems and methods adopted for testing the digital systems	Apply
C2224.5	Design of discrete-time control systems by conventional methods	Evaluate
C2224.6	Design of State feedback controllers.	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	HVDC TRANSMISSION	Class/ Sem	IV-II
Faculty Name:	P.Nagaraju	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2224.1	Explain the different types of HVDC links.	Analyze
C2224.2	Define firing angle control of 6 pulses, 12 pulse circuits.	Analyze
C2224.3	Analyse the HVDC Converter operation.	Analyze
C2224.4	Describe the control concept of reactive power control and AC/DC load flow.	Apply
C2224.5	Choose converter faults, protection and harmonic effects	Evaluate
C2224.6	Design low pass and high pass filters	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	ELECTRICAL DISTRIBUTION SYSTEM	Class/ Sem	IV-II
Faculty Name:	M.Srinu	Regulation	R16

Course Outcomes

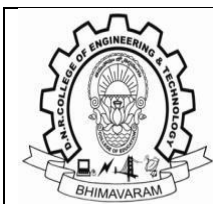
After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2224.1	Explain the relation between load factor and loss factor.	Analyze
C2224.2	Design a radial and loop type distribution feeder.	Analyze
C2224.3	Calculate the voltage drop and power loss in a distribution system.	Analyze
C2224.4	Analyze the coordination between various protective devices.	Apply
C2224.5	Discuss the need of pf correction	Evaluate
C2224.6	Explain the importance of Voltage Control	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Electrical & Electronics Engineering

Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	HIGH VOLTAGE ENGINEERING	Class/ Sem	IV-II
Faculty Name:	Dr.KBVS.R.Subrahmanyam	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2224.1	Outline the importance of insulation for the High Voltage equipments	Analyze
C2224.2	Distinguish different methods of breakdown mechanisms in gaseous, liquid and solid media	Analyze
C2224.3	Discuss about the principle of operation of High voltage DC, AC and Impulse voltages and currents	Analyze
C2224.4	Apply the knowledge of different methods and techniques for generation and measurement of high DC, AC and Impulse voltages and currents	Apply
C2224.5	Explain the Partial Discharge measurement techniques	Evaluate
C2224.6	Explain about various testing techniques of HV equipments	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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Course Outcomes
(COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	PROJECT	Class/ Sem	IV-II
Faculty Name:	MR.Balusularao	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2426.1	Identify right problem and come with abstract for the proposed problem.	Analyze
C2426.2	Build a prospective solution based on recent literature survey and data gathering.	Analyze
C2426.3	Identify the various resources and components required to complete project.	Analyze
C2426.4	Solve the problem by creating a working model implementation or simulation study using a tool.	Apply
C2426.5	Justify the project work progress to a panel of experts in the form of written report and presentation.	Evaluate
C2426.6	Conduct Experimental or simulation studies and take observations, analyze and conclude the results.	Understand
C2426.7	Develop a module using appropriate syntax.	Analyze

C2426.8	Fabricate a working model or Apply software tool to solve the problem.	Analyze
C2426.9	Prepare a thesis as per given university guidelines for the project taken up.	Analyze
C2426.10	Plan the tasks required the for the project and split among team for execution and complete the project within the stipulated time	Apply
C2426.11	Express the contribution towards the project as a team member while submitting the report.	Understand
C2426.12	Participate in computations or expos or technical publications to demonstrate the project outcomes.	Understand

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Course Outcomes (COs)

Program Name:	B.Tech in Electrical & Electronics Engineering	AY	2020-2021
Course Name:	SEMINAR	Class/ Sem	IV-II
Faculty Name:	D. Josephkumar	Regulation	R16

Course Outcomes

After completing this course, the student will be able to:

CO Number	CO Statement	Taxonomy
C2224.1	Develop motivation for any topic of interest and develop a thought process for technical presentation	Analyze
C2224.2	Create a detailed literature survey and build a document.	Analyze
C2224.3	Analysis and comprehension of proof-of-concept and related data.	Analyze
C2224.4	Explain Effectively the presentation and improve soft skills	Apply
C2224.5	Create use of new and recent technology (e.g. Latex) for creating technical reports	Evaluate
C2224.6	Explain Effectively the presentation and improve soft skills	Understand

#Remember; Understand; Apply; Analyze; Evaluate; Create

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