VIGNAN'S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMEN

Department of BS&H

C S E

R 19 - Course Outcomes

I YEAR - I SEM

C101	ENGLISH	C101.1	Show good understanding of academic lectures and English spoken by native speakers
		C101.2	Develop speaking skills through participation in role plays and discussions
		C101.3	Outline summaries based on global comprehension of reading / listening texts
		C101.4	Demonstrate effective writing strategies for organized essays record and report useful information
		C101.5	Choose grammatically correct sentences in speech and in writing
		C101.6	Apply technical vocabulary in professional correspondence
C102	MATHEMATIC-1	C102.1	Solve sequences and series problems.
		C102.2	Verify mean value theorems for a given function.
		C102.3	Apply first order and first-degree ODE techniques in engineering problems.
		C102.4	Solve higher order differential equations.
		C102.5	Examine given function of two variables for its extreme values.
		C102.6	Evaluate double and triple integrals.
C103	APPLIED CHEMISTRY	C103.1	Utilize knowledge of different polymer types to choose suitable materials for engineering applications based on their properties.
		C103.2	Identify the various types of electrochemical cells, corrosion and its control methods.
		C103.3	Summarize the preparation, types and application of semiconductors
		C103.4	Utilize various materials for modern advances of engineering technology
		C103.5	Identify different computational chemistry methods and molecular machines.
		C103.6	Apply analytical instruments to identify various organic compounds and develop diverse renewable energy sources
C104	FUNDAMENTALS OF COMPUTER SCIENCE	C104.1	Outline the concept of input and output devices of Computers and how it works and recognize the basic terminology used in computer programming.
		C104.2	Demonstrate the techniques of writing algorithms pseudo codes & schematic flow of logic in software development process
		C104.3	Summarize the Computer networks, types of networks and topologies, Operating Systems and its concepts.
		C104.4	Illustrate the concepts of Database management and computer system development.
		C104.5	Generalize Advanced Computer Technologies like Distributed Computing & Wireless Networks

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C S E

C105	ENGINEERING DRAWING	C105.1	Construct the various types of polygons, engineering curves and scales
		C105.2	Apply the orthographic principle and construct the orthographic projections of points and lines in any position
		C105.3	Construct orthographic projections of simple planes perpendicular/parallel and inclined to one reference plane
		C105.4	Construct orthographic projections of simple planes inclined to both the reference planes
		C105.5	Construct orthographic projections of regular solids in any position
		C105.6	Interpret their ideas in conversion of orthographic views from isometric view and vice versa.
C106	ENGLISH LAB	C106.1	Explain the theoretical concepts of English sounds and word stress
		C106.2	Classify Rhythm, Intonation and Contrastive word stress
		C106.3	Utilise the knowledge of weak and strong forms
C107	APPLIED CHEMISTRY LAB	C107.1	Utilize the concept for quantitative analysis in volumetric titrations to determine the concentration/amount of analytes
		C107.2	Apply various analytical techniques, and interpret the results for quantitative analysis.
		C107.3	Determine water quality parameters, such as hardness and alkalinity
C108	IT WORKSHOP LAB	C108.1	Outline components of a PC
		C108.2	Construct a fully functional virtual machine, Summarize various Linux operating system commands
		C108.3	List programming skill in Github,Hackerrank, Codechef, HackerEarth etc.
		C108.4	Create video tutorials and publishing, Use office tools for documentation, Build interactive presentations, Build websites, Create quizzes & analyze responses.

I YEAR - II SEM

C111	MATHEMATICS II	C111.1	Identify the rank of a matrix and solve linear of equations.
		C111.2	Examine the eigen values and eigen vectors.
		C111.3	Obtain the canonical form to quadratic form.
		C111.4	Identify the approximate roots of algebraic and transcendental equations
		C111.5	Summarise the concept of interpolation using various methods
		C111.6	Solve ordinary differential equationsby using various numerical methods
C112	MATHEMATICS III	C112.1	Examine gradient of a scalar function, divergence and curl of a vector function.
		C112.2	Apply Green's, Gauss's and Stoke's theorems for calculating line, surface and volume integrals
		C112.3	Determine Laplace transform and inverse Laplace transform of a function.
		C112.4	Examine the Fourier series of a given function
		C112.5	Solve problems related to Fourier integral theorem and summarize Fourier transform and inverse Fourier transform of a function
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VIGNAN'S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMEN

Department of BS&H

C S E

C113	APPLIED PHYSICS	C113.1	Analyze the intensity variation due to interference, diffraction, polarization and identify relevant engineering applications.
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		C113.3	Identify the role of classical and quantum free electron theory in the study of electrical conductivity.
		C113.4	Classify crystalline solids based on band theory of solids
		C113.5	Outline the properties of charge carriers in semiconductors and identify the type of semiconductor using Hall Effect
		C113.6	Summarize various types of polarization of dielectrics and classify the magnetic materials
C114	PPS USING C	C114.1	Demonstrate algorithms and to draw flowcharts for solving problems and to convert flowcharts/algorithms to C Programs, compile and debug programs
		C114.2	Explain different operators, data types and deveolp programs that use two-way/ multi-way selection and to select the best looping structure for a given problem
		C114.3	Make use of arrays and to design programs to perform operations on arrays
		C114.4	Build programs to know different pointer applications that use dynamic memory allocation
		C114.5	Develop programs on functions and to develop modular reusable code
		C114.6	Apply File I/O operations and apply file handling functions to access contents of files
C115	**DIGITAL LOGIC DESIGN**	C115.1	Classify different number systems and apply to generate various codes
		C115.2	Use the concept of Boolean algebra in minimization of switching functions.
		C115.3	Design different types of combinational logic circuits
		C115.4	Apply knowledge of flip-flops in designing registers and counters.
		C115.5	The operation and design methodology for synchronous sequential circuits and algorithmic state machines.
		C115.6	Produce innovative designs by modifying the traditional design techniques.
C116	**PHYSICS LAB**	C116.1	Apply the principle of interference in thin film to determine the thickness of given spacer, radius of curvature of lens with the use of optical instruments travelling microscope
		C116.2	Examine the spectra formed by polychromatic light to determine the wavelength of light with the use of spectrometer.
		C116.3	Evaluate the energy band gap of a semiconductor and study temperature resistance characteristics of a given thermistor
C117	ENGLISH LAB	C117.1	Explain English speech sounds and word stress
		C117.2	Apply knowledge of English pronunciation with intonation, and rhythm in speaking
		C117.3	Interpret newspapers to understand key terminology and structures for effective report writing
C118	**PPSC LAB**	C118.1	Build flowcharts for solving problems and to convert flowcharts to C Programs, compile and debug programs
		C118.2	Apply different operators, data types and write programs that use two-way/ multi-way selection and to select the best looping structure for a given problem
		C118.3	Build programs on arrays and to perform operations on arrays
		C118.4	Develop programs that use dynamic memory allocation, structures, unions and apply file handling functions to access contents of files

C119	ENGINEERING EXPLORATION LAB	C119.1	Understand the Engineering attributes and Ethics
		C119.2	Identify the community problem and its stakeholder
		C119.3	Examine required specifications and gap in existing and required product.
		C119.4	Build sustaining interactions among people that create social value by transforming ideas into tangible products, services, or initiatives.
		C119.5	Develop skills to work collaboratively, reports and progress updates throughout the lifecycle of the project

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IT

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		C103.5	Identify different computational chemistry methods and molecular machines.
		C103.6	Apply analytical instruments to identify various organic compounds and develop diverse renewable energy sources
C104	FUNDAMENTALS OF COMPUTER SCIENCE	C104.1	To illustrate the concept of input and output devices of Computers and how it works and recognize the basic terminology used in computer programming.
		C104.2	Explain how to draw flowcharts and develop algorithms and also explain the usage of compilers and interpreters
		C104.3	Identify the different types of Computer networks and topologies.
		C104.4	Summarize the concepts of Operating Systems and Databases and the usage of operating systems in real time applications.
		C104.5	Demonstrate the Advanced Computer Technologies like Distributed Computing & Wireless Networks.

VIGNAN'S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMEN

Department of BS&H

IT

C105	ENGINEERING DRAWING	C105.1	Construct the various types of polygons, engineering curves and scales .
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		C105.3	perpendicular/parallel and inclined to one reference plane .
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		C105.5	Apply the orthographic principle and draw the orthographic projections of regular solids in anyposition .
		C105.6	Analyze the views to convert orthographic views from isometric views and vice versa.
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		C106.3	Utilise the knowledge of weak and strong forms
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		C107.2	Apply various analytical techniques, and interpret the results for quantitative analysis.
		C107.3	Determine water quality parameters, such as hardness and alkalinity
C108	IT WORKSHOP LAB	C108.1	Explain the procedure for disassemble and assemble a personal computer.
		C108.2	Illustrate the procedure for interconnection of two or more computers.
		C108.3	Design slide presentation, document &spreadsheet preparation.
		C108.4	Interpret various antivirus software tools and its features.
		C108.5	Use internet and browse it to obtain the required information.
		C108.6	Design professional word documents and excel spread sheets.

I YEAR - II SEM

C111	MATHEMATICS II	C111.1	Identify the rank of a matrix and solve linear of equations.
		C111.2	Examine the eigen values and eigen vectors.
		C111.3	Obtain the canonical form to quadratic form.
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		C111.5	Summarise the concept of interpolation using various methods.
		C111.6	Solve ordinary differential equationsby using various numerical methods.
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		C112.2	Apply Green's, Gauss's and Stoke's theorems for calculating line, surface and volume Integrals.
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C113	APPLIED PHYSICS	C113.1	Analyze the intensity variation due to interference, diffraction, polarization and identify relevant engineering applications.
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		C113.5	Outline the properties of charge carriers in semiconductors and identify the type of semiconductor using Hall Effect .
		C113.6	Summarize various types of polarization of dielectrics and classify the magnetic materials.

C1	PPSC	C114.1	Explain about the algorithms and to draw flowcharts for solving problems
		C114.2	Apply different operators, data types and write programs that use two-way/multi-way selection.
		C114.3	Analyze the best loop construct for a given problem .
		C114.4	Design and develop programs for developing different pointer applications .
		C114.5	Analyze a problem into functions and to develop modular reusable code .
		C114.6	Apply File I/O operations for developing the applications .

C115	DLD	C115.1	Classify different number systems and apply to generate various codes
		C115.2	Use the concept of Boolean algebra in minimization of switching functions.
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		C115.5	The operation and design methodology for synchronous sequential circuits and algorithmic state machines.
		C115.6	Produce innovative designs by modifying the traditional design techniques.

C116	APLAB	C116.1	Apply the principle of interference in thin film to determine the thickness of given spacer,radius of curvature of lens with the use of optical instruments travelling microscope
		C116.2	Examine the spectra formed by polychromatic light to determine the wavelength of lightwith the use of spectrometer.
		C116.3	Evaluate the energy band gap of a semiconductor and study temperature resistance-characteristics of a given thermistor.

C117	COMMUNICATION SKILL LABB	C117.1	Apply technical vocabulary in professional correspondence .
		C117.2	Classify the different perspectives of science and technology in the present scenario.
		C117.3	Choose grammatically correct sentences in speech and in writing.
		C117.4	Show an awareness in the present day and traditional belief .
		C117.5	Explain the awareness on health treats due to climatic changes
		C117.6	Outline summaries based on global comprehension of reading / listening texts

VIGNAN'S NIRULA INSTITUTE OF TECHNOLOGY AND SCIENCE FOR WOMEN

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IT

C118	PPSC LA	C118.1	Explain and Understanding Knowledge on various concepts of a C language.
		C118.2	Able to Develop flowcharts and write algorithms for the real world problems.
		C118.3	Analyze and decompose complex problems into modular components for effective design and development in programming.
		C118.4	Demonstrate the use of pointers and dynamic memory allocation (malloc, calloc) to manage memory in C programs.
C119	EEP LAB	C119.1	Illustrate the design thinking methodology and explain its application in a wallet/bag design challenge.
		C119.2	Analyze and critically evaluate human-centered design principles through focused discussions and complementary materials.
		C119.3	Apply teamwork skills to collaboratively address complex design challenges and produce innovative solutions.
		C119.4	Apply the phases of design thinking—empathizing, ideating, prototyping, and testing—to real-world design problems.

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ECE

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		C108.3	To write programs on arrays and to perform operations on arrays.
		C108.4	To design programs that use dynamic memory allocation.

I YEAR - II SEM

C110	MATHEMATICS II	C110.1	Identify the rank of a matrix and solve linear of equations.
		C110.2	Examine the eigen values and eigen vectors.
		C110.3	Obtain the canonical form to quadratic form.
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ECE

C112	APPLIED PHYSICS	C112.1	Analyze the intensity variation due to interference, diffraction, polarization and identify relevant engineering applications.
		C112.2	Explain fundamentals of quantum mechanics and apply it to one dimensional motion of particles.
		C112.3	Identify the role of classical and quantum free electron theory in the study of electrical conductivity.
		C112.4	Classify crystalline solids based on band theory of solids.
		C112.5	Outline the properties of charge carriers in semiconductors and identify the type of semiconductor using Hall Effect .
		C112.6	Summarize various types of polarization of dielectrics and classify the magnetic materials.
C113	NA	C113.1	Explain the basic circuit elements, fundamental laws applied for circuits. Apply various transformation techniques, Mesh & Nodal methods to solve network problems.
		C113.2	Utilize Laplace Transform and differential approaches to examine the transients in RLC circuits with DC and AC inputs.
		C113.3	Understand the concept of phasor representations of voltages and currents for different RLC circuits in single phase AC circuits.
		C113.4	Understand the concept of coupled circuits.
		C113.5	Understand the concept of resonant theory and application of various network theorems to solve network problems .
		C113.6	Classify the two port network parameters and solve the parameters for different two port network.
C114	BEE	C114.1	Explain the operation of DC generator and analyze the characteristics of DC generator.
		C114.2	Analyze the Operating Principle and design aspects of Single-phase transformers.
		C114.3	Explain the operation of synchronous generator and synchronous motor
		C114.4	Analyze the performance and speed – torque characteristics of a 3-phase induction motor and understand starting methods of 3-phase induction motor.
		C114.5	Interpret the principle, constructional features of different special machines.
		C114.6	Explain the operation of DC generator and analyze the characteristics of DC generator.
C 11	EWL	C115.1	Explain the working function of basic Electronic Components.
		C115.2	Demonstrate the basic Passive, Active components used in Electronic circuit .
		C115.3	Make use of basic electronics components perform various applications .
C	BEE LAB	C116.1	Experiment with DC machines and Analyze their performance.
		C116.2	Compare the performance characteristics of DC Shunt and Series generators
		C116.3	Evaluate the Efficiency and voltage regulation of 1-phase transformers.
C1 17	AP LAB	C117.1	Apply the principle of interference in thin film to determine the thickness of given spacer, radius of curvature of lens with the use of optical instruments travelling microscope .
		C117.2	Examine the spectra formed by polychromatic light to determine the wavelength of light with the use of spectrometer.
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IT

1 1	**Engineeri**	C118.1	Apply Design Thinking Methodology to Solve Real-World Challenges.
		C118.2	Develop Skills for Human-Centered Design and Collaboration.
		C118.3	Develop Innovative and Sustainable Solutions .
C113	APPLIED PHYSICS	C113.1	Analyze the intensity variation due to interference, diffraction, polarization and identify relevant engineering applications.
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