



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

Sponsored by Lawu Educational Society, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301 Phone: +91 96529 10002/3



DEPARTMENT OF INFORMATION TECHNOLOGY

IT (2-1) (2022-23)

SUBJECT: ANALOG AND DIGITAL ELECTRONICS (ITC201)

Upon completion of the course the students get an idea of

Course Code	Course Outcome	BT level
ITC201.1	Know the characteristics of various components. Know about the logic families and realization of logic Gates.	2
ITC201.2	Understand the utilization of components.	3
ITC201.3	Design and analyze small signal amplifier circuits.	4
ITC201.4	Learn Postulates of Boolean algebra and to minimize Combinational functions.	2
ITC201.5	Design and analyze combinational and sequential circuits.	4

MAPPING

COURSE CODE	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC201.1	3	2	3	1	-	2	-	1	1	-	-	2	2	1	3
ITC201.2	3	2	2	-	2	-	3	-	-	-	-	2	2	2	3
ITC201.3	3	2	3	2	-	2	1	2	-	2	3	-	1	2	3
ITC201.4	3	2	2	2	2	-	1	-	-	2	1	-	2	1	3
ITC201.5s	3	2	3	1	1	2	2	3	1	-	3	-	1	1	3
AVERAGE	3	2	2.6	1.2	5	1.2	1.8	1.2	0.5	0.8	9	0.5	1.6	1.4	3



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SUBJECT: DATA STRUCTURES (ITC202)

Upon completion of the course the students get an idea of:

COURSE CODE	COURSE OUTCOME	BT LEVEL
ITC202.1	Develop a program using linear data structures such as array and circular queue	3
ITC202.2	Develop a program for basic operations of Stack and its applications	3
ITC202.3	Construct a program using Non-linear data structures and their applications such as trees and graphs	3
ITC202.4	Construct a program using linear data structures for Linked Lists	3
ITC202.5	Ability to Implement searching and sorting algorithms	3

MAPPING

CO .No.	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO1	PSo2	PSO3
ITC202.1	3	2	1	1	-	2	1	2	1	3	-	1	3	2	3
ITC202.2	3	2	1	1	2	-	1	-	1	-	2	1	3	3	3
ITC202.3	3	2	1	1	-	2	-	2	2	3	2	1	3	3	3
ITC202.4	3	2	1	1	2	-	1	1	2	-	-	1	2	3	3
ITC202.5	3	2	1	1	2	3	2	1	-	1	1	1	2	3	3
Average	3	2	1	1	1.2	1.4	1	1.2	1.2	1.4	1	1	2.6	2.8	3



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SUBJECT: COMPUTER ORIENTED STATISTICAL METHODS (ITC203)

Upon completion of the course the students get an idea of

Course Code	Course Outcome	BT Level
ITC203.1	Apply the concepts of probability and distributions to some case studies. Apply the concepts of discrete probability distributions.	3
ITC203.2	Apply the concepts of continuous probability distributions.	3
ITC203.3	Assess the sampling theory and making inferences.	5
ITC203.4	Correlate the material of one unit to the material in other units.	2
ITC203.5	Resolve the potential misconceptions and hazards in each topic of study.	1

MAPPING

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC203.1	3	2	3	-	3	1	-	1	1	-	-	2	2	1	3
ITC203.2	3	2	2	2	-	-	2	-	2	1	-	2	2	2	3
ITC203.3	3	2	3	1	2	2	-	2	-	2	3	-	1	2	3
ITC203.4	3	2	2	-	1	-	1	1	1	2	1	1	2	2	3
ITC203.5	3	2	3	3	1	1	3	1	1	-	3	-	1	1	3
AVERAGE	3	2	2.5	1.2	1.4	0.8	1.2	1	1	1	1.4	1	1.6	1.6	3



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SUBJECT: COMPUTER ORGANIZATION AND MICROPROCESSOR (ITC204)

Upon completion of the course the students get an idea of

Course Outcome	Course Outcome	BT Level
ITC204.1	Able to understand the basic components and the design of CPU, ALU and Control Unit.	2
ITC204.2	Ability to understand memory hierarchy and its impact on computer cost/performance	3
ITC204.3	Ability to understand the advantage of instruction level parallelism and pipelining for high performance Processor design.	4
ITC204.4	Ability to understand the instruction set, instruction formats and addressing modes of 8086	2
ITC204.5	Ability to write assembly language programs to solve problems.	4

MAPPING

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC204.1	3	2	3	-	-	2	-	1	1	-	-	2	2	1	3
ITC204.2	3	2	2	2	1	2	2	-	1	1	-	2	2	2	3
ITC204.3	3	2	3	-	2	1	3	2	1	2	3	-	3	2	3
ITC204.4	3	2	2	2	-	2	2	-	1	2	1	3	2	2	3
ITC204.5	3	2	3	1	3	-	1	3	1	-	3	-	3	1	3
AVERAGE	3	2	2.5	1	1	1.4	1.6	1.2	1	1	1.4	1.4	2.4	1.6	3



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SUBJECT: OBJECT ORIENTATION PROGRAMMING USING C++ (ITC205)

Upon completion of the course the students get an idea of:

Course Outcome	Course Outcome Statement	BT LEVEL
ITC205.1	Identify the difference between structured program and procedure-oriented program	1
ITC205.2	Develop programs for file handling	2
ITC205.3	Implementing the concepts of Exceptions Handling in programming, Apply the concepts of inheritance	3
ITC205.4	Develop applications for a range of problems using object-oriented Programming techniques.	2
ITC205.5	Encapsulation of data in virtual functions.	3

MAPPING

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC205.1	3	2	3	2	2	-	1	1	1	1	-	2	2	2	3
ITC205.2	3	2	2	2	2	2	1	1	1	-	-	2	2	3	3
ITC205.3	3	2	3	3	3	-	-	2	2	2	3	-	3	3	3
ITC205.4	3	2	2	3	3	3	2	1	-	2	1	1	2	3	3
ITC205.5	3	2	3	2	3	2	1	1	1	-	3	-	3	2	3
AVERAGE	3	2	2.5	2.5	2.6	1.2	1	1.2	1	1	1.4	1	2.4	2.6	3



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SUBJECT: Analog and Digital Electronic Lab (ITC206)

Upon completion of the course the students get an idea of:

COURSE CODE	COURSE OUTCOME	BT LEVEL
ITC206.1	Know the characteristics of various components	1
ITC206.2	Understand the utilization of components	2
ITC206.3	Design and analyze small signal amplifier circuits AND combinational and sequential circuits.	6
ITC206.4	Postulates of Boolean algebra and to minimize combinational functions	3
ITC206.5	Known about the logic families and realization of logic gates.	1

MAPPING

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC206.1	3	2	3	-	1	2	-	1	2	2	-	2	1	2	2
ITC206.2	3	2	3	2	-	2	3	1	-	1	1	2	1	2	2
ITC206.3	3	2	3	2	2	-	-	1	3	-	1	2	2	1	2
ITC206.4	1	2	1	2	1	2	3	1	2	1	1	2	2	2	2
ITC206.5	-	-	-	-	1	2	-	1	-	1	2	-	1	2	1
AVERAGE	2	1.6	1.4	1.2	1	1.6	1.2	1	1.4	1	1	2	1.4	1.8	1.8



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SUBJECT: DATA STRUCTURES LAB (ITC207)

Upon completion of the course the students get an idea of

COURSE CODE	COURSE OUTCOME	BT LEVEL
ITC207.1	Develop a program using linear data structures such as array and circular queue	3
ITC207.2	Develop a program for basic operations of Stack and its applications	3
ITC207.3	Construct a program using Non-linear data structures and their applications such as trees and graphs	3
ITC207.4	Construct a program using linear data structures for Linked Lists	3
ITC207.5	Ability to Implement searching and sorting algorithms	3

MAPPING

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC207.1	3	2	1	1	-	2	1	2	1	3	-	1	3	2	3
ITC207.2	3	2	1	1	2	-	1	-	1	-	2	1	3	3	3
ITC207.3	3	2	1	1	-	2	-	2	2	3	2	1	3	3	3
ITC207.4	3	2	1	1	2	-	1	1	2	-	-	1	2	3	3
ITC207.5	3	2	1	1	2	3	2	1	-	1	1	1	2	3	3
AVERAGE	3	2	1	1	1.2	1.4	1	1.2	1.2	1.4	1	1	2.6	2.8	3



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SUBJECT: IT WORKSHOP AND MICROPROCESSOR LAB (ITC208)

Upon completion of the course the students get an idea of

COURSE CODE	COURSE OUTCOME	BT LEVELS
ITC208.1	Apply knowledge to assemble the computer	4
ITC208.2	Learn types software installations	2
ITC208.3	Ability to solve various troubles shooting.	6
ITC208.4	Make use of MS Office package.	5
ITC208.5	Design the documents and presentations by using MS Word and Power Point Presentation and Design the tabular and graphical representation of budget sheet etc using MS Excel.	4

MAPPING

CO.No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC208.1	2	1	3	1	1	2	2	2	1	2	-	2	1	2	2
ITC208.2	2	1	3	2	1	-	2	2	-	2	3	2	1	2	2
ITC208.3	2	1	3	-	2	3	-	2	2	2	2	2	2	1	2
ITC208.4	2	1	1	2	1	1	3	2	3	1	1	2	2	1	2
ITC208.5	2	1	-	1	-	1	1	2	2	1	-	2	2	1	2
AVERAGE	2	1	2	1.2	1	1.4	1.6	2	1.6	1.6	1.2	2	1.6	1.4	2



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SUBJECT: C++ PROGRAMMING LABS (ITC209)

Upon completion of the course the students get an idea of

COURSE CODE	Course Outcome	BT LEVELS
ITC209.1	Analyze the drawbacks of Procedure Oriented Programming comparing with the concepts of Object Oriented Programming paradigm & C++ language features in program design.	4
ITC209.2	Identify and analyze the role of Classes & Objects, constructors & destructors in program design.	2
ITC209.3	Design & implement various forms of inheritance and analyze how base class constructors are called.	6
ITC209.4	Evaluate operator overloading, runtime polymorphism and Generic Programming through examples.	5
ITC209.5	Explore exception handling and various Stream classes, I/O operations in handling file operations.	4

MAPPING

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC209.1	3	2	3	-	1	2	3	-	-	3	2	2	1	1	2
ITC209.2	3	2	3	2	1	2	-	2	2	2	-	2	1	2	2
ITC209.3	3	2	3	2	2	-	2	-	3	-	2	2	2	2	2
ITC209.4	3	2	1	2	1	2	1	2	1	-	1	2	2	1	2
ITC209.5	3	2	-	-	1	-	1	1	-	1	1	2	2	1	2
AVERAGE	3	2	2	1.2	1.2	1.2	1.3	1	1.2	1.2	1.2	2	1.6	1.4	2



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IT (2-2) (2022-23)

SUBJECT: DISCRETE MATHEMATICS – ITC211

After going through this course the student got a thorough knowledge on

CO. No.	COURSE OUTCOMES	BT Level
ITC211.1	Ability to understand and construct precise mathematical proofs.	1
ITC211.2	Ability to use logic and set theory to formulate precise statements.	5
ITC211.3	Ability to analyze and solve counting problems on finite and discrete structures.	4
ITC211.4	Ability to describe and manipulate sequences.	4
ITC211.5	Ability to apply graph theory in solving computing problems.	4

Mapping:

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC211.1	2	3	3	3	1	1	-	2	2	3	2	-	2	3	-
ITC211.2	2	2	3	3	2	1	2	1	2	-	1	3	2	3	2
ITC211.3	2	2	3	3	3	1	1	1	2	2	1	3	1	2	2
ITC211.4	1	3	3	3	3	1	3	-	2	1	2	1	-	1	1
ITC211.5	2	3	2	3	2	1	1	2	2	2	1	2	1	1	3
AVERAGE	1.8	2.6	2.8	3	2.2	1	1.4	1.2	2	1.4	1.4	1.8	1.2	2.2	1.6



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SUBJECT: BUSINESS ECONOMICS & FINANCIAL ANALYSIS-ITC212

After going through this course the student got a thorough knowledge on

Course Code	Course Outcomes	BT LEVEL
ITC212.1	The students will understand the various Forms of Business and the impact of economic variables on the Business.	2
ITC212.2	Understand the elasticity of the demand of the product, different types, and measurement of elasticity of	2
ITC212.3	Recognize the Production function, features of Iso-Quants and Iso-Costs, Market Structure, Pricing aspects are learnt.	1
ITC212.4	The Students can study the firm's financial position by analyzing the Financial Statements of a Company.	4
ITC212.5	Evaluate different types of financial ratios knowing liquidity, solvency and profitability position of business.	5

Mapping:

CO.No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC212.1	1	-	2	-	3	2	1	2	2	-	2	1	-	1	2
ITC212.2	1	2	-	2	2	2	1	2	2	2	2	1	3	1	2
ITC212.3	2	2	2	2	3	1	2	1	2	2	3	3	3	2	2
ITC212.4	2	1	1	3	1	1	2	1	2	1	3	3	1	3	2
ITC212.5	2	-	1	1	1	1	2	1	2	1	3	-	-	1	2
AVERAGE	1.6	1	1.2	1.6	2	1.4	1.6	1.4	2	1.2	2.6	1.6	1.4	1.6	2



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SUBJECT: OPERATING SYSTEM – ITC213

After going through this course the student gets a thorough knowledge on

SI. No	COURSEOUTCOMES	BT Level
ITC213.1	UnderstandtheconceptsofOS,thebasicprinciplesusedinthedesignof modernoperatingsystem.	2
ITC213.2	Understand the concepts of threads and mechanisms for synchronization.	2
ITC213.3	Understandtheconceptsrelatedtodeadlockandmemorymanagement.	2
ITC213.4	Understandtheconceptsofvirtualmemorymanagement,filesystem.	2
ITC213.5	Understand the concepts of secondary storage structure, protection andcasestudyofLinuxoperating system.	2

Mapping

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC213.1	1	2	-	2	-	1	-	2	-	1	1	2	1	2	3
ITC213.2	1	1	3	1	2	1	-	-	3	1	-	2	3	2	1
ITC213.3	1	1	2	3	2	3	3	2	-	2	1	2	2	2	1
ITC213.4	1	1	1	1	1	2	3	1	3	-	-	2	1	2	2
ITC213.5	1	1	2	-	1	-	-	1	2	2	3	2	1	2	3
AVERAGE	1	1.2	1.6	1.4	1.2	1.4	1.2	1.4	1.6	1.2	1	2	1.6	2	2



SUBJECT: DATABASE MANAGEMENT SYSTEM-ITC214

After going through this course the student got a thorough knowledge on

Course Code	Course Outcomes	BT Levels
ITC214.1	Understand data models to design a database	2
ITC214.2	Illustrate the conceptual design for Large enterprises	2
ITC214.3	Formulate SQL queries and integrity constraints over relations	6
ITC214.4	Apply normalization on database for eliminating redundancy	3
ITC214.5	Understand transaction properties, concurrency control and recovery techniques and Explain various data storage.	2

Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC214.1	3	3	3	3	3	-	2	1	3	2	3	2	3	3	1
ITC214.2	3	3	3	3	3	2	-	1	3	2	3	2	3	3	1
ITC214.3	3	3	3	3	3	2	3	1	3	2	3	2	3	3	1
ITC214.4	3	3	3	3	3	1	3	1	3	2	3	2	3	3	1
ITC214.5	3	3	3	3	3	-	-	1	3	2	3	2	3	3	1
Average	3	3	3	3	3	1	1.6	1	3	2	3	2	3	3	1



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SUBJECT: JAVA PROGRAMMING – (ITC215)

After going through this course the student gets a thorough knowledge on

SI. NO	COURSE OUTCOMES	Bloom Level
ITC215.1	Able to solve real world problems using OOP techniques	3
ITC215.2	Able to understand the use of abstract classes.	2
ITC215.3	Able to solve problems using java collection framework and I/o classes	3
ITC215.4	Able to develop multithreaded applications with synchronization.	5
ITC215.5	Able to develop applets for web applications, Able to design GUI based applications	5

Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC215.1	2	2	2	3	2	1	1	1	2	2	2	2	1	1	1
ITC215.2	2	3	2	2	2	2	1	2	2	2	2	3	1	1	2
ITC215.3	3	3	2	2	2	1	1	1	2	2	3	3	1	1	1
ITC215.4	2	2	2	2	3	1	1	1	3	2	2	2	1	3	1
ITC215.5	2	3	2	2	2	1	1	1	2	2	2	3	1	1	1
Average	2.2	2.6	2	2.2	2.2	1.2	1	1.2	2.2	2	2.2	2.6	1	1.4	1.2



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SUBJECT: OPERATING SYSTEM LAB – ITC216

After going through this course the student got a thorough knowledge on

COURSE CODE	COURSE OUTCOME	BT LEVEL
ITC216.1	Implement the basic command of OS and will execute the various system calls.	3
ITC216.2	Implement the process synchronization problem using semaphore.	3
ITC216.3	Implement CPU scheduling algorithm for process scheduling and deadlock management techniques.	3
ITC216.4	Implement memory management techniques.	3
ITC216.5	Implement file storage allocation techniques.	3

Mapping:

CO. No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC216.1	3	3	3	3	3	2	1	1	1	1	1	3	3	3	3
ITC216.2	3	3	2	3	2	2	2	1	1	1	1	3	3	3	3
ITC216.3	3	3	3	3	3	1	1	1	1	1	1	3	3	3	3
ITC216.4	3	3	2	3	2	3	3	2	1	1	2	3	3	3	3
ITC216.5	3	2	2	2	2	3	3	2	1	1	2	3	3	3	3
Average	3	2.8	2.4	2.8	2.4	2.2	2	1.4	1	1	1.4	3	3	3	3



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Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301 Phone: +91 96529 10002/3



SUBJECT: DATABASE MANAGEMENT SYSTEMS LAB-ITC217

After going through this course the student got a thorough knowledge on

Courses	COURSE OUTCOME	BT Levels
ITC217.1	Illustrate the basic DDL commands	2
ITC217.2	Illustrate DCL and DML commands.	2
ITC217.3	Demonstrate SQL queries using SQL operators.	5
ITC217.4	Explain the concept of relational algebra.	1
ITC217.5	Implement various queries using date and group functions and elaborate nested queries. Construct views, cursor.	5

Mapping:

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC217.1	3	2	2	2	1	-	2	3	2	-	2	3	3	2	3
ITC217.2	3	2	3	2	3	2	1	3	2	2	-	2	3	2	3
ITC217.3	3	3	3	1	3	2	2	2	1	2	2	1	3	2	3
ITC217.4	3	3	3	1	3	2	1	1	1	1	2	1	3	2	3
ITC217.5	3	3	3	1	3	1	1	1	-	-	1	1	3	2	3
AVG	3	2.6	2.8	1.4	2.6	1.4	1.4	2	1.2	1	1.4	1.6	3	2	3



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SUBJECT:JAVA PROGRAMMING LAB-ITC218

After going through this course the student got a thorough knowledge on

COURSE CODE	COURSE OUTCOME	BT Level
ITC218.1	Able to write programs for solving real world problems using java collection frame work.	2
ITC218.2	Able to write programs using abstract classes.	3
ITC218.3	Develop Simple Java Programs using inheritance and ExceptionHandling.	3
ITC218.4	Develop Multi-threading Programming and Interfaces.	6
ITC218.5	Develop GUI applications using Applet classes, Swing components andEvent handling programs.	6

Mapping:

CO. No	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ITC218.1	3	2	1	2	2	1	-	2	-	3	-	2	2	3	2
ITC218.2	3	2	2	2	3	1	3	2	2	3	2	3	3	3	3
ITC218.3	3	2	1	2	2	3	3	1	2	1	2	2	2	2	3
ITC218.4	3	3	3	1	3	2	2	1	3	1	1	3	3	3	3
ITC218.5	3	3	3	-	3	-	-	1	1	2	2	3	3	3	3
AVERAGE	3	2.4	2	1.4	2.6	1.4	1.6	1.4	1.6	2	1.4	2.6	2.6	2.8	2.8