



Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

Diploma in Mechanical Engineering

SEMESTER II

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM	MST	Q/A	END SEM	Q/A				
DTMA201N		APPLIED MATHEMATICS-II	60	20	20	0	0	3	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit;

* **Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 20 marks.

Course Educational Objectives (CEOs):

To introduce the students to the fundamentals of Engineering Mathematics.

Course Outcomes (COs):

After the successful completion of this course students will be able to:

1. Understand the concept of determinant and matrices.
2. Know the fundamental concept of coordinate geometry.
3. Understand the concept of differential calculus.
4. Know the fundamental principle of vector algebra.

Syllabus

Unit - 1

Determinant: Introduction, Minor and Cofactors, Study properties of determinants, Applications of Determinants (Area of Triangle and Crammer's rule).

Unit - II

Matrices: Introduction, Types of matrices, Addition and subtraction of matrices, Scalar multiplication of matrices, multiplication of matrices, adjoint of a matrix.

Unit - III

Coordinate Geometry: Introduction, Distance formula of two points, section formula, Area of a triangle, condition for collinearity, Equation of straight line (slope intercept form, point slope form, two point slope form), angle between two straight lines.

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DTMA201N		APPLIED MATHEMATICS-II	60	20	20	0	0	3	0	0	3

Unit – IV

Differentiation: Introduction, Fundamental rule for differentiation, differential coefficient of product of two functions, differential coefficient of quotient of two functions.

Unit – V

Vector Algebra: Concept of vector and scalar quantities, different types of vectors, addition of vectors, subtraction of vectors, multiplication of vectors (dot and cross product), applications.

Reference Books:

1. B.K. Paul, *Diploma Engineering Mathematics (Vol-1)*, U.N. Dhār & Sons
2. G.P. Samanta, *a Text Book of Diploma Engineering Mathematics, Volume-1*, Learning Press.
3. Dr. S. Bose & S. Saha, *A Complete Text Book of Mathematics*, Lakshmi Prakasan
4. H.S. Hall & S.R. Knight, *Higher Algebra Book Palace, New Delhi*
5. S.L. Loney, *Trigonometry S. Chand & Co.*
6. H.K. Dass *Engineering Mathematics S. Chand & Co.*
7. B.K. Pal, K. Das, *Engineering Mathematics, Volume-1*, U.N. Dhar & Sons
8. B.C. Das & B.N. Mukherjee, *Differential Calculus U.N. Dhar & Sons*

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Shri Vaishnav Institute of Science

Name of Program: Diploma (All Streams)

(2021-2025)

COURSE CODE	CATE-GORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTCH101	Diploma	Engineering Chemistry	60	20	20	30	20	2	1	2	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit;

*Teacher Assessment shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

To impart a sound knowledge on the principles of chemistry involving the different application-oriented topics required for all diploma engineering branches.

1. To understand the boiler related problems and treatment of hard water for industries and power plants.
2. To acquire the knowledge about the properties of engineering materials, lubricants and fuels.
3. To understand the electrochemical reactions and significance of corrosion control to protect the structure.
4. To acquaint the students with practical knowledge of the basic concepts of chemistry.

Course Outcomes (COs):

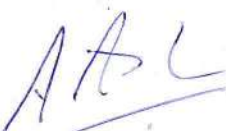
Students will:


1. Understand the properties of water and the importance of its treatment for portable and industrial purposes.
2. They will understand the basic properties of engineering materials, lubricants and fuels
3. To make the students understand the principles and electrochemical reactions involved in corrosion and methods to control corrosion.
4. They can predict the potential applications of chemistry and practical utility to become a good engineer.


Syllabus

Unit-I Water: Characteristics and Treatment

Sources, Impurities, Hardness & its units, Industrial water characteristics, softening of water by various methods (Exrernal & Internal treatment), Boiler trouble causes, effects & remedies, Characteristics of municipal water & its treatment.


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Shri Vaishnav Institute of Science
Name of Program: Diploma (All Streams)
(2021-2025)

(2021-2025)											
COURSE CODE	CATE-GORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTCH101	Diploma	Engineering Chemistry	60	20	20	30	20	2	1	2	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit;

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Unit-II Lubricants

Introduction, Mechanism of lubrication, Classification of lubricants, Properties and Testing of lubricating oils.

Unit-III Fuels

Introduction, Definition and classification of fuels, Characteristics of a good fuel, Calorific value, Determination of calorific value by Bomb calorimeter, Proximate and Ultimate analysis of coal and their significance, Carbonization, Cracking of higher Hydrocarbons and its advantages, Knocking, Cetane number, Octane Number.

Unit-IV Electrochemistry and Corrosion

Arrhenius theory of electrolytic dissociation, Transport number, Kohlrausch's law, Electrochemical cells.

Introduction and economic aspects of corrosion, Dry or Chemical Corrosion, Wet or Electrochemical Corrosion, Prevention methods of corrosion.


Unit-V Engineering Materials


Engineering materials and their classification: Refractories, Cement, Polymers. Properties and applications.

References

1. Engg. Chemistry- Rath cengage learning.
2. Applied Chemistry – Theory and Practice, O.P. Viramani, A.K. Narula, New Age Pub.
Chemistry for Environmental Engineering – Sawyer, McCarty and Parkin –McGraw Hill, International.
3. Basic Lubrication theory – Alistair Cameron


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Shri Vaishnav Institute of Science

Name of Program: Diploma (All Streams)

(2021-2025)


COURSE CODE	CATE-GORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
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DTCH101	Diploma	Engineering Chemistry	60	20	20	30	20	2	1	2	4

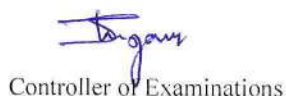
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4. Engineering chemistry- Dr. Jyoti Mitna
5. Engineering chemistry- Dr. Sunita Ratan
6. Applied Chemistry – S.M. Khopkar
7. Introduction of polymer science- G.S. Mishra


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Choice Based Credit System (CBCS) in the Light of NEP-2020

Diploma in Mechatronics

(Common to EI/MX/ET)

w.e.f 2023

COURSE CODE	CATEG ORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTEI301N	DCC	MEASUREMENT AND INSTRUMENTATION	60	20	20	-	-	3	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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Course Educational Objectives (CEOs):

1. To introduce the basic functional elements of instrumentation.
2. To introduce the fundamentals of electrical and electronic instruments.
3. To educate on the comparison between various measurement techniques.
4. To introduce various transducers.
5. To introduce various smart transducers and the data acquisition system.

Course Outcomes (COs):

After completion of this course the students are expected to be able to demonstrate following knowledge, skills, and attitudes.

The students will be able to

1. To apply knowledge of measurement system.
2. To identify, formulate, and solve the fundamentals of electrical and electronic instruments.
3. Demonstrate various types of introduce various modern storage and display devices.
4. Demonstrate various types of transducers and the data acquisition system.

Syllabus

UNIT I

8Hrs.

Definition of Measurement, application and types of measurement System, Accuracy, Precision, sensitivity, Resolution. Functional elements of an instrument, Static and dynamic characteristics, Errors in measurement, Statistical evaluation of measurement data, Standards and calibration.

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Choice Based Credit System (CBCS) in the Light of NEP-2020

Diploma in Mechatronics

(Common to EI/MX/ET)

w.e.f 2023

COURSE CODE	CATEG ORY	COURSE NAME	TEACHING &EVALUATION SCHEME								
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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTEI301N	DCC	MEASUREMENT AND INSTRUMENTATION	60	20	20	-	-	3	0	0	3

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit;

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UNIT II

9Hrs.

Construction and operation of moving coil, moving iron, Theory and Operation of D'Arsonval. Principle and types of analog and digital voltmeters, ammeters, Determination of B-H curve and measurements of iron loss.

UNIT III

7Hrs.

D.C & A.C potentiometers, D.C & A.C bridges, transformer ratio bridges, self-balancing bridges. Multiple earth and earth loops, Electrostatic and electromagnetic interference, Grounding techniques.

UNIT IV

6Hrs.

Introduction to Transducers, Types of transducers, difference between sensor and transducer, Characteristics of transducer, analog and digital transducers.

UNIT V

7Hrs.

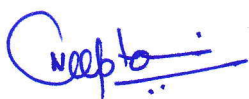
Introduction to Smart sensors: Temperature sensor, Level sensor, Humidity sensor, Infrared sensor Introduction to Data Acquisition System (DAS) and its Industrial Application.

Text Books:

1. H.S. Kalsi, "Electronic Instrumentation", Tata McGraw Hill, 4th Edition 2019.
2. D.V.S. Moorthy, "Transducers and Instrumentation", Prentice Hall of India Pvt Ltd, 2nd Edition 2011.

References:

1. Martin Reissland, "Electrical Measurements", New Age International (P) Ltd., Delhi, reprint, 2010.



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Choice Based Credit System (CBCS)
Diploma in Electrical Engineering
Common to EE/Solar Engineering/TX
(2022-2025)

(2022-2023)											
COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTEE202		Basic Electronics Engineering	60	20	20	30	20	2	1	2	4

Legends: L - Lecture; T - Tutorial/Teach; P - Guided Learning

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P - Practical; C - Credit;

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Course Educational Objectives (CEOs):

The course objective is to make students of all the branches of Engineering to understand the efficacy of electronic principles which are pervasive in engineering applications.

Course Outcomes (COs):

After studying this course, students will be able to:

1. Appreciate the significance of electronics in different applications.
2. Understand the applications of diode in rectifiers, filter circuits and wave shaping.
3. Apply the concept of diode in rectifiers, filters circuits.
4. Design simple circuits like amplifiers (inverting and non-inverting), comparators, adders, integrator, and differentiator using OPAMPS.
5. Compile the different building blocks in digital electronics using logic gates and implement simple logic function using basic universal gates,

Syllabus

UNIT I

9 Hrs.

Semiconductor and Diodes: Semiconductor: Definition, Classification, Intrinsic and Extrinsic, N type and P type materials concept of hole, majority and minority charge carriers -formation of depletion layer in P-N junction - barrier voltage - biasing the P-N junction - forward bias, reverse bias, P-N junction diode - symbol V-I characteristics - forward and reverse characteristics. Zener diode: Construction & Working Principle - Characteristics -Zener break down - Avalanche break down.


UNIT II

8 Hrs.

Bipolar Junction Transistors: Transistor: NPN and PNP transistor - operation - Transistor as an amplifier -Transistor as a switch- Transistor biasing : Fixed bias, Collector base bias, Self-bias - CB, CE, CC Configurations -Characteristics - Comparison between three configurations in terms of Input impedance, Output impedance, Current gain, Voltage gain - classification of amplifiers.


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Diploma in Electrical Engineering
Common to EE/Solar Engineering/TX
(2022-2025)

COURSE CODE	CATEGORY	COURSE NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTEE202		Basic Electronics Engineering	60	20	20	30	20	2	1	2	4

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UNIT III

9 Hrs.

Special Purpose Diodes and Transistors: Light emitting diode (LED). Zener diode, Zener diode circuit for voltage regulation, Photo diode, Solar cell. PIN diode, Varactor, Schottky diode, Varistors, Tunnel diode, Seven Segment display, identify segments on pin using multi-meter, Dot-matrix LED display, Photo transistor.

UNIT IV

10 Hrs.

Digital Electronics: Number Systems. Decimal Number System. Binary Number System. Basic gates AND, OR, NOT, NAND, NOR, EX-OR, EX-NOR, Building AND, OR Gate with diodes, Basics of Digital logic families RTL, DTL, TTL, CMOS.

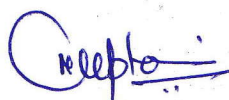
UNIT V

8 Hrs.

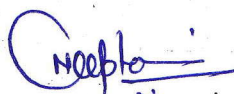
Flip-Flops: Introduction to Flip-Flops, NAND Gate Latch/ NOR Gate Latch, RS Flip-Flop, Gated Flip-Flops: Clocked RS Flip-Flop.

Textbooks:

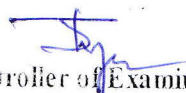
1. S.Salivahanan, N.Suresh Kumar, A.Vallavaraj, "Electronic Devices and Circuits", Tata McGraw – Hill Publication 2016/3rd Edition.
2. Boylestad & Nashelsky, "Electronic Devices and Circuit Theory", Prentice Hall of India, New Delhi 2009/4th Edition.
3. V.K. Mehta, "Principle of Electronics", S.Chand Tata McGraw – Hill Publication 2009/3rd Edition.



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DTEE202		Basic Electronics Engineering	60	20	20	30	20	2	1	2	4

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

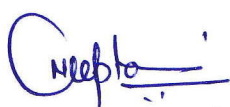
***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

List of Experiments:

1. Plotting of forward V-I characteristics for a P-N junction diode (Silicon & Germanium diode).
2. To Plot the input and output characteristics and calculation of parameters of a transistor in common base configuration.
3. To Plot input and output characteristics and calculation of parameters of a transistor in common emitter configuration.
4. Verification and interpretation of truth tables for AND, OR, NOT NAND, NOR and Exclusive OR (EXOR) and Exclusive NOR (EXNOR) gates.
5. Measure voltage and current of a given circuit using analog and digital multimeters.
6. Operate all controls of CRO front panel.
7. Measure voltage and frequency of any given signal using oscilloscope.
8. Measure parameters of various signals.
9. Test performance of transistor as a switch.
10. Identify various connectors & draw their diagram.



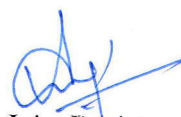
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HUMANITIES

For Diploma (Engineering all branches)

Semester II

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DTHU101	-	Communication Skills	0	0	0	30	20	0	0	4	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course educational Objectives (CEOs): The students will be

- **CEO1** Learn the different nuances of communication. .
- **CEO2** Understand the features of listening and reading skills.
- **CEO3** Develop competency in professional communication.
- **CEO4** Study the essential aspects of effective written communication through Business letters and email writing for professional success.
- **CEO5** re-engineer their attitude and understand its influence on behaviour.

Course Outcomes (Cos): The students will be able to

- **CO1** Develop a comprehensive understanding of the theoretical and practical aspects of communication.
- **CO2** Understand and the different aspects of listening and reading.
- **CO3** Demonstrate different strategies for using professional communication skills
- **CO4** Draft effective business correspondence (letters) with brevity and clarity depending on the various prescribed formats.
- **CO5** acquire communication, Problem solving skills, Negotiation and Time management skills

COURSE CONTENTS:

UNIT I

Introduction to LSRW skills, Art of Communication, Basic Soft skills, Body Language at workplace.

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Choice Based Credit System (CBCS) in Light of NEP-2020
HUMANITIES

For Diploma (Engineering all branches)

Semester II

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DTHU101	-	Communication Skills	0	0	0	30	20	0	0	4	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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UNIT II

Reading Comprehension:

Short Stories: 1. A Letter to God 2. An Astrologer's Day

UNIT III

Interviewing Skills –Role of Interviewer and Interviewee, Types of interviews, Types of Interview Questions

UNIT IV

Business Correspondence: Business Letter, Parts & Layouts of Business Resume and Job application, E-mail writing.

UNIT V

Problem Solving, Negotiation Skills, Time Management, Anger and Stress Management.

Suggested Readings

- Ashraf Rizvi.(2005). *Effective Technical Communication*. New Delhi:Tata Mc Graw Hill
- Adair, John (2003). *Effective Communication*. London: Pan Macmillan Ltd.
- A.J. Thomson and A.V. Martinet(1991).*A Practical English Grammar*(4th ed). Newyork: Oxford IBH Pub.
- Kratz, Abby Robinson (1995). *Effective Listening Skills*. Toronto: ON: Irwin Professional Publishing.
- Prasad, H. M.(2001) *How to Prepare for Group Discussion and Interview*. New Delhi: Tata McGraw-Hill.
- Pease, Allan. (1998).*Body Language*. Delhi: Sudha Publications.

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COURSE CODE	CATEGORY	COURSE NAME	TEACHING &EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTHU101	-	Communication Skills	0	0	0	30	20	0	0	4	2

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

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Shri Vaishnav Institute of Technology and Science
Choice Based Credit System (CBCS) in the Light of NEP-2020
Diploma (All Branch) w.e.f. 2024 batch

COURSE- CODE	CATE- GORY	COURSE NAME	TEACHING &EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTET201		Computer Basics	0	0	0	30	20	0	0	2	1

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

Course Educational Objectives (CEOs):

The subject introduces the fundamentals of computer system for using various hardware and software components. An exposure to fundamentals of computer programming is very essential for all diploma holders. This course is intended to make new students comfortable with computing environment - learning basic computer skills, learning basic application software tools, understanding computer hardware.

Course Outcomes (COs):

After completion of this course the students will be able to:

1. Identify the various components of a computer system.
2. Differentiate between hardware and software part of the computer.
3. Comfortably work on computer, install and configure OS, assemble a PC and connect it to External devices, write documents, create worksheets, prepare presentations etc.

Syllabus

UNIT I

9 Hrs.

Introduction to Computer Fundamentals: Brief history of development of computers, Basic Applications of Computer, Software and hardware, Computer block diagram, Classification of Computers, Components of Computer System, Computer architecture.

UNIT II

8 Hrs.

Basics of Operating System: Operating system concepts, purpose and functions, Operations of Windows OS, Creating shortcut of application on the desktop, Overview of control Panel, Taskbar, Applications in windows (Paint, Notepad, WordPad, Calculator)

UNIT III

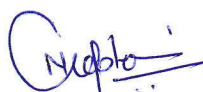
8 Hrs.

Introduction to Internet: Basic of Computer networks: LAN, WAN and MAN. Concept of Internet, Applications of Internet.

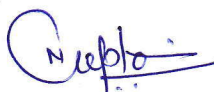
UNIT IV

9 Hrs.

Introduction to Office: MS-Word: Introduction, Starting Word Screen and its Components, Elementary Working with Word Processing Software.



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COURSE- CODE	CATE- GORY	COURSE NAME	TEACHING &EVALUATION SCHEME								
			THEORY			PRACTICAL		L	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTET201		Computer Basics	0	0	0	30	20	0	0	2	1

Legends: L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

***Teacher Assessment** shall be based on following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

MS-Excel: Introduction, Starting Spread Sheet, Basics of Spreadsheet, Spread Sheet Screen and its Components, Formatting in excel, Working with formulas, Printing worksheets.

MS-Power point: Introduction, Starting PowerPoint Presentation, Basics of PowerPoint, PowerPoint Screen and Its Components, Formatting in PowerPoint, Using Templates, Inserting charts, Inserting tables, Printing presentations.

UNIT V

9 Hrs.

Memory: Memory: Primary memory, types of memory: RAM & ROM: Static and Dynamic ROM, PROM, EPROM, EEPROM, Flash memory, Secondary memory: Harddisks, CD ROM, CD-R, CD-RW, DVD-R, DVD-RW, concepts of latest storage devices- Blu-ray disk, HVD.

Text Books:

1. V. Rajaraman, "Introduction to Computers", 6th Edition, Prentice-Hall India, 2015.
2. R.S. Salaria, "Computer Fundamentals", Khanna Publishing House, 1st Edition, 2017

References:


1. Anita Goel, "Computer Fundamentals", 1st Edition, Pearson Publication, 2010.
2. Sonal Abhyankar, "Emerging trends in Information Technology", Nirali Prakashan, 2014.

List of Experiment:

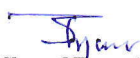
1. Identify the internal and external hardware/peripheral components.
2. Installation of operating system like Windows / Linux.
3. Creating and Formatting a Document in MS Word.
4. Working with Tables in MS Word.
5. Creating a Resume and Mail Merge in MS Word.
6. Basic Calculations in MS Excel.
7. Using Charts in MS Excel.
8. Using presentation tool, Create a simple Presentation consisting of 4-5 slides about Input and Output Devices or other content.
9. Email id creation, sending and receiving of email with attachments.
10. Create a Google form and analyze it.



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