



Shri Vaishnav Vidyapeeth Vishwavidhyalaya, Indore

Name of Program DIPLOMA (Garment and Fashion Technology)

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTMA101	ODS	APPLIED MATHEMATICS-I	60	20	20	0	0	2	1	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 10 marks.

Course Educational Objective (CEOs):

To introduce the students with the Fundamentals of the Engineering Mathematics.

Course Outcomes (Cos):

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

1. apply the techniques of the modern algebra.
2. understand the Quadratic Equations & Binomial Theorem.
3. know the fundamental principles of the vector algebra.
4. study the trigonometric properties used in the engineering.
5. understand the concepts of the coordinate geometry.

Syllabus

UNIT 1

ALGEBRA: Logarithm, Definition of natural and common Logarithm, Laws of Logarithm. Simple Problems. Complex Numbers: Definition of Complex numbers, Cartesian and polar. Exponential forms of complex numbers. Modulus, amplitude & conjugate of a complex number, Algebra of Complex numbers (Equality, Addition, Subtraction, Multiplication). Cube roots of unity & its properties. De Moivre's theorem (statement only) and simple problems.

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UNIT 2

Quadratic Equations & Binomial Theorem: Definition of Quadratic Equations, Analysing the nature of roots using discriminant, Relation between roots & coefficients, Conjugate roots, Binomial Theorem: Definition of factorial notation, definition of permutation and combination with formula, Binomial theorem for positive index (statement only), General term and middle term. Binomial theorem for negative index (statement only), Partial Fraction: Definition of polynomial fraction, proper & improper fractions and definition of partial fractions, Resolving proper fractions into partial fractions with denominator containing non repeated linear factors, repeated linear factors and irreducible non repeated quadratic factors.

UNIT 3

Vector Algebra: Definition of a vector quantity. Concept of Position vector and Ratio formula. Rectangular resolution of a vector. Algebra of vectors – equality, addition, subtraction & scalar multiplication. Scalar (Dot) product of two vectors with properties. Vector (cross) product of two vectors with properties. Applications: Application of dot product in work done by a force and projection of one vector upon another. Application of cross product in finding vector area and moment of a force.

UNIT 4

TRIGONOMETRY: Trigonometric Ratios of associated, compound, multiple and sub-multiple angles. Inverse trigonometric functions – Definition, formulae and simple problems. Properties of Triangle – sine, cosine and tangent formulae - Simple Problems.

UNIT 5

COORDINATE GEOMETRY & MENSURATION: Co-ordinate System, Cartesian & Polar co-ordinate system, Distance formula and section formula, Area of a triangle and condition for collinearity. Straight Line, Equation of straight line in slope point form, intercept form, two-point form, two-intercept form, normal form. General equation of a straight line. Angle between two straight lines – Condition for parallelism and perpendicularity. Length of perpendicular from a point on a line. Perpendicular distance between two parallel lines. CIRCLE: Equation of circle in standard form, centre-radius form, diameter form, two-intercept form. General equation of circle with a given centre and radius. Simple Problems. Conic Section: Standard equations of parabola, ellipse & hyperbola. Definition of focus, vertex, directrix, axes, eccentricity. Simple problems.

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MENSURATION: Regular Polygon of n sides – Formula for area and perimeter. Prism and Pyramid – Formula for volume & Surface area. Simple Problems.

Reference

1. B.K. Paul, Diploma Engineering Mathematics (Vol-1), U.N. Dhar & Sons
2. A. Sarkar, Mathematics (First Semester), Naba Prakashani
3. G.P. Samanta, A Text Book of Diploma Engineering Mathematics, Volume-1, Learning Press
4. Dr. S. Bose & S. Saha, A Complete Text Book of Mathematics, Lakshmi Prakasan
5. H.S. Hall & S.R. Knight, Higher Algebra Book Palace, New Delhi
6. S.L. Loney, Trigonometry S. Chand & Co.
7. H.K. Dass Engineering Mathematics S. Chand & Co.
8. T.M. Apostol Calculus, Volume-1, John Wiley & Sons
9. B.K.Pal, K.Das, Engineering Mathematics, Volume-1, U.N. Dhar & Sons
10. B.C. Das & B.N. Mukherjee, Differential Calculus U.N. Dhar & Sons
11. KAR, Engineering Mathematics, Tata McGraw- Hill
12. SINGH, Engineering Mathematics Tata McGraw- Hill

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			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTPH101	ODS	APPLIED PHYSICS	60	20	20	30	20	3	0	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 Objective (CEOs):

Students should be able to;

1. Identify different systems of units and convert units from one system to other as well as conversant with practical units.
2. Estimate and minimize the errors.
3. Select proper measuring instrument considering least count, range and precision required.
4. Select appropriate materials required for a specific purpose by studying properties of materials.
5. To understand and apply the concepts of charge, current, resistance, capacitance and electromagnetism to solve field problems..
6. To understand the properties of laser to apply them for various engineering applications including optical fibre communication.

Course Outcomes (Cos):

Students will be able to;

1. Convert units from one system to other.
2. Estimate and minimize the errors in measurements.
3. Take precision measurement by selecting proper measuring instrument considering least count, range of precision required.
4. Select appropriate materials required for a specific purpose.
5. Apply the concepts of charge, current, resistance, capacitance and electromagnetism to solve field problems.
6. To handle instruments consists laser and optical fibres for various engineering applications.

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Syllabus

Unit:I

Measurements:

- 1.1 Units: Requirements of standard unit, various units systems (CGS, FPS, MKS, SI), conversions, fundamental and derived physical quantities and their units, dimensions and dimensional analysis.
- 1.2 Errors: Accuracy, precision of instruments, errors, types of errors, minimization of errors, significant figures, problems.
- 1.3 Measuring instruments: Vernier caliper, micrometer screw gauge, spherometer, thermometer, galvanometer, voltmeter, Ammeter with least count and range, errors in them and correction to it.

Unit:II Properties of matter

- 2.1 Elasticity: Deformation, restoring force, stress, strain, Hooke's law, stress-strain diagram for some materials (steel, aluminum, cast iron, concrete), breaking stress.
- 2.2 Viscosity: Newton's law of viscosity, coefficient of viscosity, streamline and turbulent flow, critical velocity, Reynold's number, problems, Stokes' law, determination of viscosity, factors affecting viscosity.
- 2.3 Surface tension: Cohesive and adhesive forces, angle of contact, surface tension, capillary action, problems, factors affecting surface tension.

Unit: III

Optics

- 3.1 Wave theory of light: Huygen's theory, wavefronts, laws of reflection and refraction, total internal reflection, dispersion, angle of deviation, problems.
- 3.2 Interference and diffraction: Principle of superposition, constructive and destructive interference, conditions to obtain steady interference pattern, Young's double slit experiment, diffraction, fresnel and fraunhofer diffraction, applications and problems.
- 3.3 Polarization: Polarized and unpolarized light, qualitative treatment of polarizer and analyzer, half shade polarimeter, applications.

Unit: IV

Electricity and Electromagnetism

- 4.1 Electricity and Electromagnetism: Coulomb's Law, Electric Field, Intensity of Electric field and Electric Potential, Capacitance, capacitors in series and parallel. Ohm's law, resistance, conductance, resistivity, conductivity, series and parallel combination of resistors, problems.
- 4.2 Electromagnetism: Oersted experiment, magnetic field, magnetic flux, magnetic flux density, Biot-Savart law, magnetic field near straight conductor and at the centre of current carrying coil, problems.

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Unit: V

Laser and Fiber Optics

5.1 Laser: Stimulated and Spontaneous Emission, Population Inversion, Pumping, Optical Resonator, Properties and Applications of Laser, Ruby, He-Ne lasers.

5.2 Optical fiber: Introduction to Optical fibre, Ray theory of propagation through optical fibre, Acceptance angle and cone, Types of Optical fibre, Numerical Aperture, V- Number, Fractional refractive index change Δ , applications of optical fibre.

Text Book: -

1. *Engineering Physics by Gaur R. K. and Gupta S. L., Dhanpat Rai Publications, New Delhi, Eighth Edition, 2001., Physics Text Book of 11th & 12th std.(NCERT)*

References:-

1. *Fundamentals of Physics Extended, By Halliday D., Resnik R. and Walker, Wiley, India, New Delhi, Eighth Edition, 2008.*
2. *Physics for scientists and Engineers by Serway R. A. and Jewett, Jr. J. W., Thomson Learning (Indian reprint), New Delhi, Sixth Edition, 2007.*

List of Laboratory experiments

1. Use of micrometer screw gauge and determination of zero error.
2. Use of micrometer screw gauge and observations with traveling microscope.
3. Use of vernier caliper and observations with spectrometer.
4. Determination of resistivity of a given wire.
5. Determination of volume of a given vessel by spherometer.
6. To find unknown resistance by PO box.
7. To verify Hooke's law.
8. To determine internal resistance of cell using potentiometer.
9. To find refractive index of material of prism.
10. To find refractive index of material of glass slab.
11. To verify Ohm's law.

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			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTEE101	ODS	BASIC ELECTRICAL ENGINEERING	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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Course Educational Objectives (CEOs):

To introduce the students with the

1. Component and type of components.
2. Material used for the type of component.
3. Construction and the working principle of the component.

Course Outcomes (COs):

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

1. Identify various types of components.
2. Use multi meter for measuring various quantities like voltage(dc & ac), current, resistance.
3. Assemble and test components on breadboard.
4. Solder one simple circuit on a general purpose PCB.

Syllabus

Unit I

RESISTORS: Basic concepts. Ohm's Law. Fixed and Variable type.

Fixed: Carbon composition, carbon film, metal film, Ceramic & Vitreous Enamel wire-wound types.

Variable: Rheostat, Carbon track and wire-wound potentiometers (Linear & Non-Linear), Preset resistors.

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Their construction, power rating, tolerance (accuracy) temperature coefficient, and typical applications.

E6, E12 & E24 series of resistors. Colour Code of Standard Resistors.

Unit II

CAPACITORS: Fixed and Variable type.

Fixed: Ceramic, Mica, Polyester and Electrolytic

Variable: Air Gang and Trimmer.

Their construction, voltage rating & typical applications. Colour Coding of capacitors.

Unit III

INDUCTORS: Construction & application of air core, iron core, ferrite core, inductor coils(winding) used in Motors, Generators, Transformers, Tube-light chokes, D.C. power supply Filter chokes, loudspeakers and ignition system of vehicles.

Unit IV

CABLES/WIRES: Types: flexible, hook-up, coaxial and fiber optic. Multi-core Power and Control cables.

Their construction and applications.

Unit V

SWITCHES: Types: Slide, Toggle, Push to ON, Push to OFF, Rocker, Rotary & Reed switches. Their construction & applications.

RELAYS: Construction, rating & working principle of general purpose relay, Reed relay.

Text Book: - Electronic Circuits Handbook, 3rd Edition by Michael H Tooley. (BPB Publications).

Reference Books:-

1. Basic Electronics and Linear Circuits, 4th Edition by N Bhargava, D C Kulshreshtha & S C Gupta. (Tata McGraw – Hill Publishing Company Limited)
2. Electronic Components & Materials, 2nd Edition by S M Dhir, (Tata McGraw - Hill Publishing Company Limited).
3. Electronic Components and Materials, 2nd Edition by Grover & Jamwal (Dhanpat Rai & Sons).

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List of Laboratory Experiments:-

Drawing of symbols/conventions of various Electrical & Electronic components used in Engineering.

1. To identify the value, tolerance of resistors and capacitors by colour code.
2. To measure the value of resistor/s using multimeter.
3. To test rheostat, linear potentiometer, logarithmic potentiometer, preset variable resistors.
4. Testing of LDR on multimeter.
5. Testing of Germanium, Silicon PN diodes on multimeter.
6. Use of breadboard & testing of different colour LED's, 7 segments LED Display on breadboard.
7. Testing of switches by measuring their contact resistance on multimeter.
8. Wiring and soldering of one circuit on a general purpose PCB.
9. Wiring and testing of AC 230V, 50 Hz extension supply board.
10. observe motors, generators, transformers and identify the Inductor coils (windings) used therein.

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			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTME101	ODS	ENGINEERING DRAWING	60	20	20	30	20	2	0	4	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):

(A) Use drawing equipment, instruments & Materials (B) Follow and apply standard practice as per bureau of I.S. Develop the ability to draw various curves used in engineering practice. (C) Develop the ability to draw orthographic view of objects and draw the projections of point, line and planes.

Course Outcome (COs):

1. Develop the ability to draw sectional view of various types of solids and construct development of surfaces.
2. Develop the concept and ability to draw the isometric projections and views.
3. Sketch the various Fasteners & tools used in mechanical engineering.

Syllabus

Unit-I

Uses of Drawing Aids: Drawing equipment instruments and materials, planning & layout of drawing, I.S. codes for planning & layout.

Lines, lettering & dimensioning: Different types of lines, Vertical capital & lower case letters, inclined capital & lower case letters, Numerals & Greek alphabets. Dimensioning methods- aligned method & unilateral with chain, parallel, progressive & combined dimensioning.

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Unit-II

Engineering Curves: Construction of Polygons. Various types of curves like Ellipse, parabola, hyperbola, cycloid, epicycloid, hypocycloid, Involute & spiral.

Unit-III

Projections of Points, Lines & Planes: Reference planes, Orthographic projections, 1st Angle and 3rd Angle projection, Projections of points, Projections of Lines- Determination of true lengths & inclinations, Projections of plane- circular, square, rhombus, triangular, regular pentagonal & hexagonal plane surfaces, determination of true shape.

Unit-IV

Orthographic Projections: Simple Orthographic and Sectional Orthographic Projections of simple machine parts. **Isometric Projections:** Difference between isometric projections & isometric drawing. Isometric views & isometric projections.

Unit-V

Introduction to Computer Drafting: Introduction to different commands in the drawing software.

References

1. *Elements of Engg. Drawing – N.D. Bhatt*
2. *Engineering Drawing – P.J. Shah.*
3. *Fundamentals of Engg. Drawing – W.J. Luz Zadar.*
4. *Fundamentals of Drawing – K.R. Gopal Krishna*
5. *Fundamentals of Engg. Drawing – French & Vierck*

List of experiments

1. Three sheets on problems from geometrical constructions, lettering & types of lines
2. Five Sheets on the topic of Engineering Curves.
3. Four Sheets on Projections of Points & Projections of Straight Lines.
4. Three Sheets on Projections of Planes.
5. Five Sheets on the topic of Orthographic Projections. B. Demonstration of drafting software to the students.

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Diploma in Garment and Fashion Technology

SUBJECT CODE	Category	SUBJECT NAME	TEACHING & EVALUATION SCHEME								
			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTTX101	DCS	INTRODUCTION TO GARMENT TECHNOLOGY	60	20	20	0	0	2	1	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 10 marks.

Course Educational Objective (CEOs):

To introduce the students about the garment industry and process line of garment making with basic patterns and stitching machines.

Course Outcomes (Cos):

Student will:

1. Develop the different size of garment according to human anatomy
2. Design and make the various garment pattern
3. Analyse the process flow and production planning
4. Suggest the desired stitches for garment according to their application and end use
5. Analyse and control the quality of finishing of garment

Syllabus

Unit I

Pattern Development Human anatomy, Human figure, types and variations,. Anthropometric measurements, vertical, horizontal, circumference Pattern making tools, & equipments.

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Unit II

Methods of pattern making (drafting, draping, flat pattern techniques). Preparation of basic Bodice block, front, back, Sleeve. Dart manipulation. Pattern grading and marker making manual and computerised method

Unit III

Apparel Industry: Introduction to apparel industry. Organization of apparel industry. Over view of apparel manufacturing technology. Overview of cutting department spreading, Types of lay-single ply, multiply, stepped ply.

Unit IV

Introduction to sewing, history of sewing machines, types of sewing machines, parts & functions of single needle machine, double needle machine, over lock machine.

Unit V

Garment finishing, quality inspection, Terms and definition related to garment packing and export management.

References:

1. Rajesh Bheda "Managing Productivity in the Apparel Industry" CBS Publishers & Distributors (2006)
2. Helen Joseph Armstrong "Pattern Making for Fashion Design", Dorling
3. Kindersley India Pvt.Ltd.(2009)
4. Mary Mathews, "Practical clothing construction" Thomson & co., madras, 1974.
5. Jacob Solinger., "Apparel Manufacturing Handbook", VanNostrand Reinhold
6. Company(1980).
7. Herold Carr and Barbara Iatham "The technology of clothing
8. manufacture", Om book service 1994

List of Practicals:

1. To discuss the garment process line
2. To study pattern making
3. To study marker making
4. To prepare basic bodice block of women's shirt
5. To prepare basic bodice block of Men's Shirt
6. To study hand sewing machine
7. To study lock stitch machine
8. To study interlock machine
9. To study overlock machine
10. To study button sewing and button holing machine
11. To study feed off arm machine
12. To study bartack machine

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			THEORY			PRACTICAL		Th	T		P
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTHU101	ODS	COMMUNICATION SKILLS	0	0	0	30	20	0	1	2	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 Objective (CEOs):

A diploma holder is supposed to write official, business and personal letters. Technical report writing forms another activity of diploma holders. Keeping in view, the above and continuing education needs of diploma holders, communication skill has been considered as essential human science subject. The emphasis of teaching should be to develop necessary competencies (knowledge and skill) in written and oral communication in English.

Course Outcomes (Cos):

1. The students will be able to enhance confidence in their ability to read, comprehend, organize, and retain written information.
2. The students will be able to write grammatically correct sentences for various forms of written communication to express oneself.
3. The students will be able to improve upon their language skills, oral communication skills, group discussion, personal development and confidence level.
4. The students will be able to express his /her ideas and thoughts in speech or writing,
5. The students will be able to bridge the language gap vital to their success.
6. The students will be able to communicate effectively.

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Syllabus

Unit-I

Prose (Text book) writing in English

1. Introduction to communication skills in English language.
2. Concept, principle and procedure for prose selection.
3. Study and practice in English prose as recommended in the prescribed book (5-lessons)

Unit-II

Correspondence in English: OFFICIAL, BUSINESS AND PERSONAL LETTERS

1. Introduction and understanding of writing letters in English.
2. Concept, principle and procedure in writing official letters.
3. Concept, principle and procedure in writing business letters.
4. Concept, principle and procedure in writing personal letters.
5. Classification of text of letters as Title, Body and closing procedure.

Unit-III

English Grammar

Basic Language Skills : Grammar and usage- Types of Sentences, Phrases & Clauses, Parts of Speech , Direct - Indirect, Active - Passive voice, S-V Agreement, Tenses.

Unit-IV

Communication Techniques

All forms of written communications including drafting reports, notices, agenda note, business correspondences, preparations of summaries and précis, circulars, representations, press release and advertisements. Telephonic communication.

Unit-V

Precis and Comprehension

1. Introduction and understanding of writing precise in English.
2. Concept/ principle or procedure for précis writing.
3. Organizing and summarizing the selected paragraph to develop scheme in précis writing.
4. Text book prescribed by State Board of Technical Education to be followed

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List of Experiments

1. Basic Grammar & Vocabulary Practice (Synonyms, Antonyms, Analogies, Sentence Completion, Correctly Spelt Words, Idioms, Proverbs, Common Errors).
2. Phonetic Symbols, Pronunciations
3. Listening Skills – Including Listening Comprehension
4. Extempore and JAM (Just a Minute Session)
5. Role Play
6. Body Language
7. Debate
8. Oral Presentation – Preparation & Delivery using Audio – Visual Aids with stress on body language and voice modulations. (Topics to be selected by the Instructor)

References

1. TTTI-Chandigarh. **A Book of English for Polytechnic, Prose Selection.** MacMillan, India
2. Krishna Mohan and Meera Bannerji. **Developing Communication Skills.** MacMillan, India
3. N.K. Aggarwal. **Better English Grammar & Composition.** Arnold Publication, New Delhi
4. Thomas Huckin and Leslie Olson. **Technical Writing and Professional Communication.** McGraw Hill, New Delhi
5. R K Bansal and J B Harrison. **Spoken English for India.** Orient Longman, New Delhi

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			THEORY			PRACTICAL		Th	T	P	CREDITS
			END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*				
DTCS101	-	Computer Application-I	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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Course Educational Objectives (CEOs):

1. To understand the concepts of programming languages (object oriented programming and its implementation).
2. To understand the concept of program design, program coding, debugging, testing for development.
3. To describe the concepts of loops, arrays.
4. To understand the concepts of memory, pointers, functions, variables.
5. To understand the concepts of class, constructor, destructor.

Course Outcomes (COs):

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

1. Student will able to explain and implement the object oriented programming concepts.
2. Student will design, develop & test program for development.
3. Student will able to apply loop concept in program and design an array program.
4. Student will able to apply & implement the concept of class, constructor & destructor.

Syllabus

UNIT-I

Basic concepts of Computers, Basic LINUX Concepts and Vi – Editor, Internal and external DOS Commands, Shell programming. Basic concepts of MS-word, excel, PowerPoint and MS access Database.

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UNIT-II

Learning OS Commands Practice of all Internal and External DOS Commands, Writing simple batch programs, Exposure to Windows environment, Practice of UNIX commands and Vi editor, Writing simple shell script

UNIT-III

Introduction to C: Basic Programming concepts, Program structure in C, Variables and Constants, Data types, Conditional statements, control statements, Functions, Arrays, Structures, Introduction to pointers, and Introduction to File Systems.

UNIT-IV

C Programming: Practicing programs to get exposure to basic data types, algebraic expressions, Conditional statements, Input Output Formatting, Control structures, arrays, functions, structures, pointers and basic file handling.

References:

1. Kernighan, B.W., "The elements of programming style", McGraw-Hill.
2. Yourdon, E., "Techniques of program structures and design", Prentice-Hall. Press, W.H., Teukolsky, S.A., Vetterling W.T. & Flannery, B.P., "Numerical Recipes in C".
3. "Introduction to Computers" by Peter Norton.
4. Yashvant Kanethkar "Shell Programming".

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List of Experiments:

1. Creation and editing of Text files using MS- word.
2. Creation and operating of spreadsheet using MS-Excel.
3. Creation and editing power-point slides using MS- power point
4. Creation and manipulation of database table using MS-Access.
5. Study and practice of Internal & External DOS commands.
6. Using basic DOS commands like date, time, dir, copy con, type, ren etc. Exercise
7. Creating the directory structure and Batch file in the DOS
8. Using Windows XP graphical user interfaces (GUI).
9. Using basic Linux commands
10. Study of Shell programming (Writing shell scripts using control structures)
11. Study and practice of Basic linux Commands – ls, cp, mv, rm, chmod, kill, psetc
12. Using vi editor Shell Programming (Writing simple shell scripts, use of conditional structures).
13. Study and Practice of MS windows – Folder related operations, My-Computer, window explorer, Control Panel.
14. WAP to illustrate constructor & Destructor
15. WAP to illustrate Object and classes.
16. WAP to illustrate Operator overloading
17. WAP to illustrate Function overloading
18. WAP to illustrate Derived classes & Inheritance.

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