

Name of Program: B.TECH (Garment and Fashion Technology)

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SUBJECT CODE	CATEGORY	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	Р	CREDITS
BTMA101	ODS	APPLIED MATHEMATICS -I	60	20	20	0	0	3	1	0	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 introduce the students with the Fundamentals of the Differential, Integral, Vector Calculus and Numerical Analysis

Course Outcomes (COs):

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

- 1. Understand and apply the basics of the differential calculus.
- 2. Know the fundamental principles of the integral calculus and apply them.
- 3. Apply the techniques in the numerical analysis.
- 4. Know the numerical solution of the system of linear algebraic equations.
- 5. Understand and apply the basics of the vector calculus.

Course Contents:

Unit – I

Differential Calculus

Limits of functions, continuous functions, uniform continuity, monotone and inverse functions. Differentiable functions, Rolle's Theorem, mean value theorems and Taylor's theorem, power series. Functions of several variables, partial derivatives, chain rule, Tangent planes and normals. Maxima, minima, saddle points, Lagrange multipliers, exact differentials

Unit – II

Integral Calculus

Riemann integration, fundamental theorem of integral calculus, improper integrals. Application to length, area, volume, surface area of revolution. Multiple integrals with application to volume, surface area, Change of variables.

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Unit – III

Numerical Analysis

Number Representation and Errors: Numerical Errors; Floating Point Representation; Finite Single and Double Precision Differences; Machine Epsilon; Significant Digits. **Numerical Methods for Solving Nonlinear Equations:** Method of Bisection, Secant Method, False Position, Newton-Raphson's Method, Multidimensional Newton's Method, Fixed Point Method and their convergence.

Unit – IV

Numerical Analysis

Numerical Methods for Solving System of Linear Equations: Norms; Condition Numbers, Forward Gaussian Elimination and Backward Substitution; Gauss-Jordan Elimination; FGE with Partial Pivoting and Row Scaling; LU Decomposition; Iterative Methods: Jacobi, Gauss Siedal; Power method and QR method for Eigen Value and Eigen vector.

Unit – V

Vector Calculus

Gradient and directional derivative. Divergence and Curl of Vector point function, line and surface integrals. Green's, Gauss' and Stokes' theorems and their applications.

Reference Books:

- 1. T. M. Apostol, Calculus, Volume I, 2nd Ed, Wiley, 1967.
- 2. T. M. Apostol, Calculus, Volume II, 2nd Ed, Wiley, 1969.
- 3. K. E. Atkinson, Numerical Analysis, John Wiley, Low Price Edition (2004).
- 4. S. D. Conte and C. de Boor, Elementary Numerical Analysis An Algorithmic Approach, McGraw-Hill, 2005.
- 5. B. S. Grewal, Higher Engineering Mathematics, Khanna Publishers, Delhi

Further References:

- 1. R. G. Bartle and D. R. Sherbert, Introduction to Real Analysis, 5th Ed, Wiley, 1999.
- 2. J. Stewart, Calculus: Early Transcendentals, 5th Ed, Thomas Learning (Brooks/ Cole), Indian Reprint, 2003.
- 3. J. Stoer and R. Bulirsch, Introduction to Numerical Analysis, 2nd Edition, Texts in Applied Mathematics, Vol. 12, Springer Verlag, 2002.
- 4. J. D. Hoffman, Numerical Methods for Engineers and Scientists, McGraw-Hill, 2001.
- 5. M.K Jain, S.R.K Iyengar and R.K Jain, Numerical methods for scientific and engineering computation (Fourth Edition), New Age International (P) Limited, New Delhi, 2004.
- 6. S. C. Chapra, Applied Numerical Methods with MATLAB for Engineers and Scientists, McGraw-Hill 2008.

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SUBJECT CODE	CATEGORY	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	Р	CREDITS
BTPH101	ODS	APPLIED PHYSICS	60	20	20	30	20	3	1	2	5

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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):

- 1. To develop the comprehensive understanding of laws of physics.
- 2. To develop ability to apply laws of physics for various engineering applications.
- 3. To develop the experimental skills, ability to analyze the data obtained experimentally to reach substantiated conclusions.

Course Outcomes (COs):

Student will be able

- 1. To comprehend laws of physics.
- 2. To apply laws of physics for various engineering applications.
- 3. Todetermine physical parameter experimentally and will be able to analyze the data obtained experimentally to draw substantiate conclusions.

Course Contents:

Unit – I

Quantum Physics

Introduction to Quantum hypothesis, Matter wave concept, Wave Group and Particle velocity and their relations, Uncertainty principle with elementary proof and applications to microscope and single slit, Compton Effect, Wave function and its physical significance. Development of time dependent and time independent Schrodinger wave equation, Applications of time independent Schrodinger wave equation

Unit – II

Solid State Physics

Free electron model, Qualitative Analysis of Kronig Penney Model, Effective mass, Fermi level for Intrinsic and Extrinsic semiconductors, P-N junction diode, Zener diode,

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Tunnel diode, Photodiode, Solar- cells, Hall Effect, Introduction to Superconductivity, Meissner effect, Type I & II Superconductors.

Unit – III

Nuclear Physics

Nuclear Structure & Properties Nuclear models: Liquid drop with semi-empirical mass formula & shell model. Particle accelerators: Cyclotron, Synchrotron, Betatron. Counters and Detectors: Giger-Muller counters, Bainbridge Mass Spectrograph and Auston Mass Spectrograph.

Unit – IV

Laser & Fibre Optics

Stimulated and Spontaneous Emission, Einstein's A&B Coefficients, Population Inversion, Pumping, Techniques of Pumping, Optical Resonator, Properties and Applications of Laser, Ruby, Nd:YAG, He-Ne lasers.Introduction to Optical fiber, Acceptance angle and cone, Numerical Aperture, V- Number, Ray theory of propagation through optical fibre, Pulse dispersion, applications of optical fiber.

Unit – V

Wave Optics

Introduction to Interference, Fresnel's Bi-prism, Interference in Thin films, Newton's rings experiment, Michelson's interferometer and its application, Introduction to Diffraction and its Types, Diffraction at single slit, double slit, resolving power, Rayleigh criterion, Resolving power of grating, Concept of polarized light, Double refraction, quarter and half wave plate, circularly & elliptically polarized light.

References:

- 1. Engineering Physics by Dr. S. L. Gupta and Sanjeev Gupta, Dhanpat Rai Publication, New Delhi.
- 2. Engineering Physics by Navneet Gupta, Dhanpat Rai Publication, New Delhi.
- 3. Engineering Physics by H. J. Sawant, Technical Publications, Pune, Maharastra.
- 4. Engg Physics by M.N. Avdhanulu & P.G. Kshirsagar, S.Chand & Co.Edition (2010).
- 5. Fundamentals of Physics by Halliday, Wiley, India.
- 6. Concepts of Modern Physics by Beiser, TMH, New Delhi.
- 7. Solid State Physics by Kittel, Wiley India.
- 8. Atomic and Nuclear physics by Brijlal and Subraminiyan.

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- 9. LASERSs and Electro Optics by Christopher C. Davis, Cambridge Univ. Press (1996).
- 10. Optroelectronics an Introduction by J. Wilson & J.F.B.Hawkes, "" Prentice-Hall II Edition.
- 11. LASER theory and applications by A. K. Ghatak & Tyagarajan, TMH (1984).
- 12. Optics by Ghatak, TMH.

List of Experiments (Any Ten)

- 1. Measurement of radius of curvature "R" of convex lens by Newton's ring experiment.
- 2. Measurement of Numerical aperture of fiber by LASER.
- 3. Determination of Energy band gap E_g' of Ge using Four Probe method.
- 4. Measurement of Frequency of A.C. mains by electrically maintained vibrating rod.
- 5. Measurement of Resolving Power of Telescope.
- 6. Measurement of " λ " of LASER light source using Diffraction Grating.
- 7. Determination of Planck's constant by using photocell.
- 8. Determination of Energy band gap (E_g) using PN Junction Diode.
- 9. To determine the mass of cane sugar dissolved in water using half shade polarimeter.
- 10. To study forward and reverse characteristics of Zener diode.
- 11. To study forward and reverse characteristics of P-N diode.
- 12. To study characteristics of Photo diode.
- 13. To study characteristics of LDR.
- 14. μ and ω of given prism using spectrometer
- 15. Measuring height of a given object using Sextant.

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SUBJECT CODE	Category	SUBJECT NAME	END SEM UNIVERSITY EXAM	TWO TERM EXAM	TEACHER ASSESSTMENT*	END SEM UNIVERSITY EXAM	TEACHER ASSESSTMENT*	L	Т	Р	CREDITS
BTME102	ODS	FUNDAMENTALS OF MECHANICAL ENGINEERING	60	20	20	30	20	3	1	2	5

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 introduction with (A) Engineering Materials, (B) Thermodynamics, heat engines (C) Boiler and Steam (D) Refrigeration & Air conditioning, (E) Production.

Course Outcomes (COs):

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

- 1. Students would be able to understand the need of engineering materials, and its property, need and defects.
- 2. Students would be able to analyses basics of thermodynamics and able to understand various mechanical instruments.
- 3. Students would be able to understand I C engines, their working and operating conditions.
- 4. Students will be able to understand the basics of refrigeration & air conditioning.
- 5. Students would be able to recognize production methodology and their need.
- 6. Students would be able to demonstrate various case studies based on heat engines, basics of thermodynamics, productions.

Note: - Steam table is permit during examination.

Chairperson Board of Studies Shri Vaishnav Vidyapeeth Vishwavidyalaya Indore

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Syllabus

Unit – I

Introduction to Engineering Materials: Introduction, classification materials, need of engineering materials, mechanical properties like strength, hardness, toughness, ductility, brittleness, malleability etc. of materials, Stress-strain diagram of ductile and brittle materials, Hooks law and Modulus of elasticity.

Unit – II

Introduction to Thermodynamics: Definition of thermodynamics, thermodynamic systems, Macroscopic and Microscopic views, thermodynamic equilibrium, properties of system, point & path function, Zeroth, First and second law of thermodynamics, thermodynamic processes at constant pressure, volume, enthalpy & entropy.

Unit – III

Introduction to Heat Engines: Introduction, need of heat engines, types of heat engines.

IC Engines: Introduction, terminology of IC engine, Carnot, Otto and Diesel cycles P-V & T-S diagrams and its efficiency, two and four stroke engines, latest technologies used in engines of vehicle.

Boilers: Introduction, classification of boilers, working of Cochran, Lancashire, Locomotive and Babcock and Wilcoxboilers, mountings & accessories.

Introduction of steam, steam formation, properties of steam, use of steam table.

Unit – IV

Introduction to Refrigeration: Introduction, need of refrigeration, reverse Carnot cycle, unit of refrigeration, coefficient of performance, Vapor compression cycle, P-h and T-S diagrams, deviations from theoretical cycle.

Air Conditioning:Introduction and need of air conditioning, air conditioningcomponents and control.

Unit-V

Introduction to Manufacturing: Introduction of basic manufacturing process, introduction to casting, Rolling, Extrusion, Arc and Gas welding, Brazing, Soldering. Introduction to Lathe and Drilling machines and their various operations.

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Reference Books:

- 1. "Mechanical Engineering", by R. K. Rajput
- 2. "Basic Mechanical Engineering", by D. K. Gupta
- 3. "Basic Mechanical Engineering (MP",) by Domkundwar
- 4. "Mechanical Engineering", Handbook (CRC Press)
- 5. "Mechanical Engineering Reference Book", by E.H. Smith
- 6. "An Introduction to Mechanical Engineering", by Wickert/Lewis
- 7. "Engineering Fundamentals: An Introduction to Engineering:, by Moaveni
- 8.

List of Experiments

- 1. To perform tensile test, plot the stress-strain diagram and evaluate the tensile properties of a given metallic specimen.
- 2. To calculate Mechanical Advantage, Velocity ratio and efficiency of various temperature and pressure measuring devices and plot graphs.
- 3. To study Two-Stroke and Four-Stroke Diesel Engines.
- 4. To study Two-Stroke and Four-Stroke Petrol Engines.
- 5. To study Cochran and Babcock and Wilcox boilers.
- 6. To study Lancashire and Locomotive boilers.
- 7. To study working and function of mountings and accessories in boilers.
- 8. To study the Refrigeration System.
- 9. To study the functioning of Window Room Air Conditioner.
- 10. To Study Lathe & Drilling Machines and various operation.
- 11. To perform Arc and Gas Welding operation on metal.

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SUBJECT CODE	CATEGORY	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	Р	CREDITS
BTGF101	DCS	INTRODUCTION TO GARMENT AND FASHION TECHNOLOGY	60	20	20	30	20	3	1	2	5

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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):

- 1. To develop the understanding of garment and fashion trends.
- 2. To create awareness about the basic parts and accessories used in various garments.
- 3. To prepare students to work in garment and fashion industry.

Course Outcomes (COs):

Students will be able

- 1. To apply their knowledge in Apparel design and production processes effectively.
- 2. To design a product to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- 3. To prepare technical documents related to garment production in industry and present effectively.
- 4. To identify and prepare the accessories required for particular garments.

Course Contents:

Unit – I

History and Evolution of Fashion in India and Globally, Introduction of Fashion

Unit – II

Design Concept: Introduction to Elements of fashion, Introduction to Fashion terminology, Fashion cycle

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Unit – III

Colours: Psychology of colours, Elements of design, Principle of design, Colour and design.

Unit – IV

Garment Industry: Industrial garment production, Designing and marker planning, Merchandising, Quality controlling, Marketing & product costing

Unit – V

Garment Components: Ladies and men's tops -basic blocks, collars, sleeves, cuffs, pleats, gatherings and darts, skirts. Ladies and men's bottoms, trousers basic blocks, pockets, welts, yolk.

List of Practical (Expand it if needed):

- 1. Designing of Specification sheet
- 2. Designing of Swatch board
- 3. Designing of Mood board
- 4. Designing of Client board
- 5. Designing of Accessories board
- 6. Draw the fashion cycle of garment
- 7. Identification of parts of garment- jacket
- 8. Identification of parts of garment- trouser
- 9. Identification of parts of garment- shirt
- 10. Identification of parts of garment-skirt

References:

- 1. Materials Management in Clothing Production by David Tyler
- 2. Technology of Clothing Manufacturing by Carr & Latham (C&L) Second Edition 1996
- 3. Apparel Manufacturing Handbook Jacob Solinger (JS) Second Edition 1988
- 4. Gerry Cooklin Introduction to Clothing Manufacture
- 5. Clothing Technology by Europa
- 6. Introduction to Clothing Manufacture, by A J Chutter

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SUBJECT CODE	CATEGORY	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	Р	CREDITS
BTEE102	ODS	FUNDAMENTAL OF ELECTRICAL ENGINEERING	60	20	20	30	20	3	1	2	5

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Course Educational Objectives (CEOs):

- 1. To impart the basic knowledge about the Electric and Magnetic circuits.
- 2. To explain the working principle, construction, applications of DC machines, AC machines.

Course Outcomes (COs):

Students will be able :

- 1. To understand and Analyze basic circuit concepts.
- 2. To apply knowledge of mathematics to analyze and solve electrical circuit problems.
- 3. To understand the AC fundamentals.
- 4. To illustrate basic knowledge about the Electric and Magnetic circuits.
- 5. To distinguish the working Principles of various Electrical Machines.

Course Contents:

Unit – I

Electrical circuit analysis- Definition of electric circuit, network, linear circuit, nonlinear circuit, bilateral circuit, unilateral circuit. Kirchhoff's law. Voltage and current sources, dependent and independent sources, source conversion, DC circuits analysis using mesh & nodal

method, Thevenin's theorem, Norton's theorem, Superposition theorem, star-delta transformation.

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Unit – II

A C Fundamentals- Production of alternating voltage, waveforms, average and RMS values, peak factor, form factor, phase and phase difference, phasor representation of alternating quantities, phasor diagram, behavior of AC series, parallel and series parallel circuits, power factor, power in AC circuit, 1-phase AC circuits under sinusoidal steady state, active, reactive and apparent power, physical meaning of reactive power, power factor, 3-phase balanced and Unbalanced supply, star and delta connections.

Unit – III

Electromagnetism: Biot-savart law, Ampere's circuital law, field calculation using Biotsavart and ampere's circuital law. Magnetic circuits, Analogous quantities in magnetic and electric circuits, Faradays's law, self and mutual inductance. Energy stored in a magnetic field, Hysteretic and Eddy current losses. Electro-mechanical energy conversion.

Unit – IV

Transformers-Review of laws of electromagnetism, mmf, flux, and their relation, analysis of magnetic circuits. Single-phase transformer, basic concepts and construction features, voltage, current and impedance transformation, equivalent circuits, phasor diagram, voltage regulation, losses and efficiency, OC and SC test.

Unit – V

Basic concepts of Rotating Electric machines- Constructional details of DC machine, Basic concepts of winding (Lap and wave). Principle of operation, EMF equation, characteristics (open circuit, load). DC motors: Principle of operation, Speed-torque Characteristics (shunt and series machine), starting (by 3 point starter), speed control (armature voltage and field control).

Induction machine and Synchronous machine, Working principle of 3-Phase Induction motor, Emf equation of 3-Phase induction motor, Concept of slip in 3- Phase induction motor, Explanation of Torque-slip characteristics of 3-Phase induction motor. Principle of operation of Synchronous Machine.

References:

- 1. Basic Electrical engineering, D.P Kothari & I.J Nagrath, TMH, Second Edition.
- 2. Basic Electrical Engineering, V.N Mittle & Arvind Mittal, TMH, Second Edition.
- 3. Electrical Engineering Fundamental, Vincent.D.Toro, Pearson Education, Second Edition.

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List of Experiments:

- 1. Verification of KCL and KVL Law's.
- 2. Separation of resistance and inductance of choke coil.
- 3. Study of Transformer, name plate rating.
- 4. Determination of Turns ratio and polarity of Single Phase Transformer.
- 5. Determination of equivalent circuit parameters of a single phase transformer by O.C. and S.C. tests.
- 6. Measurement of power in a three phase circuit by two wattmeter method.
- 7. Measurement of power in a three phase circuit by three wattmeter method
- 8. Measurement of various line & phase quantities for a 3-phase circuit.
- 9. Study of No load characteristics of D.C shunt Generators.
- 10. Study of comparative features of Synchronous Machine and Induction Machine.

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SUBJECT CODE	CATEGORY	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*	L	Т	Р	CREDITS	
BTCS101	ODS	COMPUTER PROGRAMMING-I	0	0	0	30	20	0	0	2	1	

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Course Objectives:

- 1. To introduce the fundamental concepts of computer programming.
- 2. To design programs in C involving different data types, decision structures, loops and functions, arrays and pointers.
- 3. To equip students with techniques for developing structured computer programs.
- 4. To equip students with sound skills in C/C++ programming language.

Course Outcomes:

Upon completion of the subject, students will be able to:

- 1. Understand the basic terminologies used in computer programming.
- 2. Be proficient in using the basic constructs of C/C++, to develop a computer program.
- 3. Understand the use of functions, pointers, arrays and files in programming.
- 4. Understand the fundamentals of object-oriented programming and be able to apply it in computer program development.

UNIT-I

Introduction to Programming Languages : What is a Programming Language; Types of Programming Languages – Machine-level, Assembly-level and Highlevel Languages, Scripting Languages, Natural Languages, Advantages and Limitations of programming language, High-level Programming Language Tools – Compiler, Linker, Interpreter, Intermediate Language Compiler and Interpreter, Editor, MATLAB, GUI, Overview of some popular High level Languages –

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FORTRAN, COBOL, BASIC, Pascal, C, C++, JAVA, LISP, Characteristics of a Good Programming Language.

UNIT-II

Design of Program:Introduction to Algorithms, Complexities and Flowchart, Introduction to Programming, Categories of Programming Languages, Program Design, programming language processing, Algorithm / pseudo code, program development steps, selecting a Language out of many Available Languages for Coding an Application, Subprograms and subroutines.

UNIT-III

Basics of C language : Introduction to C language, Basic Programming concepts, Program structure in C,header files, C preprocessor, Variables and Constants, Data types, User Defined Data Types – Structure and Union, Conditional statements, control statements, Functions, Arrays, Structures, pointers, strings, File Systems, c preprocessor and macro expansion.

Structure of C program, Expressions, type conversion, selection making decisions, initialization and updating, loops in C, Standard Library functions, Control Structures, Loop Structures, Functions, Scope Rule of Functions, Calling Convention, Advanced Features of Functions.

UNIT-IV

C Programming : Arrays - Pointers and arrays, two-dimensional arrays, arrays of pointer, String Manipulation functions, Structures & Unions, Processing and use of structures, arrays of structure.

Pointers - Operations on Pointers, Pointers and Multidimensional Arrays, Array of pointers, pointers to pointers, bitwise operators, and dynamic memory managements functions.

Files - File creation, File processing, Opening and closing a file, text files and binary files, streams, error handling.

UNIT-V

C++ Programming: Introduction to C++, Tokens, expressions and control structures, Functions in C++, Basic principles of Object Oriented Programming.

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Text Books:

- 1. Fundamentals of Computers : E Balagurusamy, TMH
- 2. Fundamentals of Computers : V Rajaraman, PHI
- 3. Yashavant P. Kanetkar. "Let Us C", BPB Publications, 2011.
- 4. Robert Lafore, "Object Oriented Programming in C++", SAMS Publication.

References:

- 1. Byron S Gottfried, "Programming with C", Schaum's Outlines, Second Edition, Tata McGraw-Hill, 2006
- 2. Herbert Schildt, "The Complete Reference", 4th Edition, MGH Publication.
- 3. Dromey R.G., "How to Solve it by Computer", Pearson Education, Fourth Reprint, 2007

Practical's List:

- 1. Study of procedural programming paradigm and object-oriented programming paradigm.
- 2. To demonstrate use of data types.
- 3. Write a program on operators (Arithmetic Operator, Relational Operators and Conditional Operators etc.).
- 4. Write a program using decision making statements (switch case, if and if-else, nested structures).
- 5. Write a program using simple loops and nested loops.(For, While, Do-While Loop)
- 6. Write a program to user defined functions using C.
- 7. Write a program for recursive functions.
- 8. Write a program for array and multidimensional array (2-d arrays).
- 9. Write a program of pointers and strings (strings and pointers).
- 10. Write a program of dynamic memory allocationusingcalloc(), malloc() and realloc().
- 11. Write a program on structure and union.
- 12. Write a program in C++ using (i) if-then-else (ii) loops
- 13. Write a program illustrate Function in C++
- 14. Write a program for Operator overloading in C++
- 15. Write a program for nested function call.
- 16. Write a program of call by value using C++
- 17. Write a program of call by reference using C++
- 18. Write a program for Inline Function.
- 19. Write a program for Friend Function.
- 20. Write a program of dynamic memory management using new and delete.
- 21. Write a program on file handling using C++

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SUBJECT CODE	CATEGORY	SUBJECT NAME	END SEM University Exam	Two Term Exam	Teachers X	END SEM University Exam	Teachers Assessment*	L	Т	Р	CREDITS
BTHU101	ODS	COMMUNICATION SKILLS- I	0	0	0	0	50	0	0	2	1

Name of Program: B.TECH (Garment and Fashion Technology)

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):

- 1. To develop ,enhance and demonstrate LSRW Skills.
- 2. To enable students to acquire oral presentation skills.
- 3. To prepare students to become more confident and active participants in all aspects of their undergraduate programs.

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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Course Contents:

Unit – I

Basics of Communication

Technical Communication: features; Distinction between General and Technical communication; Language as a tool of communication; Levels of communication: Interpersonal, Organizational, Mass communication; The flow of Communication: Downward, Upward, Lateral or Horizontal (Peer group); Importance of technical communication; Barriers to Communication.

Unit – II

Presentation Strategies

Defining Purpose; Audience & Locale; Organizing Contents; Preparing Outline; Audiovisual Aids; Nuances of Delivery; Body Language; Space; Setting Nuances of Voice Dynamics; Time- Dimension.

Unit – III

Developing Reading Skills

Reading Comprehension, Process, Active & Passive Reading, Reading Speed Strategies, Benefits of effective reading, note-making, note- taking, Reading comprehension of technical material and SQ3R reading technique

Unit – IV

Words and Phrases:

Word formation. Synonyms and Antonyms; Homophones; Select vocabulary of about 500-1000 New words; Requisites of Sentence Construction: Paragraph Development: Techniques and Methods - Inductive, Deductive, Spatial, Linear, Chronological etc; The Art of Condensation- various steps.

Unit – V

Professional Writing

Sales and Credit letters; Letter of Enquiry; Letter of Quotation, Order, Claim and Adjustment Letters; Job application and Resumes. Official Letters: D.O. Letters; Govt. Letters, Letters to Authorities etc.Reports: Types; Significance; Structure, Style & Writing of Reports.TechnicalProposal; Parts; Types; Writing of Proposal; Significance. Technical Paper, Project. Dissertation and Thesis Writing: Features, Methods & Writing

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References:

- 1. Sharma. Business Correspondence and Report Writing.; TMH.
- 2. W.S. Allen, Living. English Structure. Longmans.
- 3. Ehrlich .English Grammar. Schaum Series; TMH.
- 4. R.K. Bansal and IB Harrison. Spoken English . Orient
- 5. Joans and Alexander. New International Business English .Longman.; OUP.
- 6. Ashraf Rizvi.(200**5).Effective Technical Communication**. New Delhi:Tata Mc Graw Hill
- A.J. Thomson and A.V. Martinet.(1991) A Practical English Grammar(4th ed). Newyork: Oxford IBH Pub.

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)

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