

SEMESTER I

BTCSH101	UG	Discrete Mathematics	3	0	0	3	60	20	20	-	-
COURSE CODE	CATEGORY	COURSE NAME	L	Т	P	CREDITS	END SEM University Exam	Two Term Exam Two Term Exam		END SEM END SEM University Exam	

 $\label{lem:Legends: L-Lecture; T-Tutorial/Teacher Guided Student Activity; P-Practical; C-Credit;$

COURSE OBJECTIVES

Student will have ability:

1. To introduce fundamental concepts of calculus and discrete mathematics.

COURSE OUTCOMES

Upon completion of the subject, Students will be able:

1. To understand and apply basic concepts of calculus, Boolean algebra and combinatorics.

SYLLABUS

UNIT I

Boolean algebra: Introduction Of Boolean Algebra, Truth Table, Basic Logic Gate, Basic Postulates Of Boolean Algebra, Principle Of Duality, Canonical Form, Karnaugh Map.

UNIT II

Abstract algebra: Set, Relation, Group, Ring, Field.

UNIT III

Combinatorics: Basic Counting, Balls And Bins Problems, Generating Functions, Recurrence Relations. Proof Techniques, Principle of Mathematical Induction, Pigeonhole Principle.

UNIT IV

Graph Theory: Graphs and Digraphs, Complement, Isomorphism, Connectedness and Reachability, Adjacency Matrix, Eulerian Paths And Circuits in Graphs and Digraphs, Hamiltonian Paths and Circuits in Graphs and Tournaments, Trees; Planar Graphs, Euler's Formula, Dual of A Planer Graph, Independence Number And Clique Number, Chromatic Number, Statement of Four-Color Theorem.

UNIT V

Logic: Propositional Calculus - Propositions and Connectives, Syntax; Semantics - Truthassignments and Truth Tables, Validity and Satisfiability, Tautology; Adequate Set of Connectives; Equivalence and Normal Forms; Compactness and Resolution; Formal Reducibility - Natural Deduction System and Axiom System; Soundness and Completeness.

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



- 1. Topics in Algebra, I. N. Herstein, John Wiley and Sons.
- 2. Digital Logic & Computer Design, M. Morris Mano, Pearson.
- 3. Elements of Discrete Mathematics, (Second Edition) C. L. LiuMcGraw Hill, New Delhi.
- 4. Graph Theory with Applications, J. A. Bondy and U. S. R. Murty, Macmillan Press, London.
- 5. Mathematical Logic for Computer Science, L. Zhongwan, World Scientific, Singapore.

REFERENCES:

- 1. Introduction to linear algebra. Gilbert Strang.
- 2. Introductory Combinatorics, R. A. Brualdi, North-Holland, New York.
- 3. Graph Theory with Applications to Engineering and Computer Science, N. Deo, Prentice Hall, Englewood Cliffs.
- 4. Introduction to Mathematical Logic, (Second Edition), E. Mendelsohn, Van-Nostrand, London.



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COURSE CODE	CATEGO RY	COURSE NAME	L	Т	P	CREDITS	END SEM Universit y Exam	Two Term Exam	Teachers Assessme nt*	END SEM Universit	chers ssme t*
BTCSH102	UG	Statistics, Probability and Calculus	3	0	0	3	60	20	20	-	-

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 OBJECTIVES

Student will have ability:

1. To introduce fundamental concepts of statistics and probability.

COURSE OUTCOMES

Upon completion of the subject, Students will be able:

- 1. To learn and understand the basic concepts of probability theory.
- 2. To learn types of data and graphical representation.
- 3. To learn descriptive statistics, probability distribution and sampling techniques.

SYLLABUS

UNIT I

Introduction to Statistics: Definition of Statistics. Basic objectives. Applications in Various Branches of Science with Examples. Collection of Data: Internal and External Data, Primary and Secondary Data. Population and Sample, Representative Sample.

UNIT II

Descriptive Statistics: Classification and Tabulation of Univariate Data, Graphical Representation, Frequency Curves. Descriptive Measures - Central Tendency and Dispersion. Bivariate Data. Summarization, Marginal and Conditional Frequency Distribution.

UNIT III

Probability: Concept Of Experiments, Sample Space, Event. Definition of Combinatorial Probability. Conditional Probability, Bayes Theorem. Probability Distributions: Discrete & Continuous Distributions, Binomial, Poisson and Geometric Distributions, Uniform, Exponential, Normal, Chi-Square, T, F Distributions.

UNIT IV

Expected Values and Moments: Mathematical Expectation and its Properties, Moments (Including Variance) and their Properties, Interpretation, Moment Generating Function.





Calculus: Basic Concepts of Differential and Integral Calculus, Application of Double and Triple Integral.

TEXT BOOKS:

- 1. Introduction of Probability Models, S.M. Ross, Academic Press, N.Y.
- 2. Fundamentals of Statistics, vol. I & II, A. Goon, M. Gupta and B. Dasgupta, World Press.
- 3. Higher Engineering Mathematics, B. S. Grewal, Khanna Publication, Delhi.

REFERENCES:

- 1. 1 A first course in Probability, S.M. Ross, Prentice Hall.
- 2. Probability and Statistics for Engineers, (Fourth Edition), I.R. Miller, J.E. Freund and R. Johnson, PHI.
- 3. Introduction to the Theory of Statistics, A.M. Mood, F.A. Graybilland D.C. Boes, McGraw Hill Education.
- 4. Advanced Engineering Mathematics, (Seventh Edition), Peter V. O'Neil, Thomson Learning.
- 5. Advanced Engineering Mathematics, (Second Edition) M. D. Greenberg, Pearson Education.
- 6. Applied Mathematics, Vol. I & II, P. N. Wartikar and J. N. Wartikar, Vidyarthi Prakashan.



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COURSE CODE	CATEGORY	COURSE NAME	L	L T	P	CREDITS	END SEM University Exam	Two Term Exam	Teachers Assessmen t*	END SEM University Exam	Teachers Assessmen t*	
BTCSCS103	UG	Fundamentals of Computer Science	2	1	2	4	60	20	20	30	20	

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 OBJECTIVES

Student will have ability:

- 1. To familiarize with basic concepts of computer programming and developer tools and design programs in C, involving different data types and operators.
- 2. To familiarize with decision structures, loop and structured and un-structured programming.
- 3. To familiarize with Function, Recursion, Preprocessor, Standard Library Functions and return types.
- 4. To familiarize with array and pointers and structures.
- 5. To familiarize with Standard I/O, Error Handling
- 6. To familiarize with Unix system Interface

COURSE OUTCOMES

Upon completion of the subject, Students will be able:

- 1. To learn and understanding the basic terminologies of computer science and programming a computer.
- 2. To learn about the process of moving from problem statement to a computational formulation of a method for solving the problem.
- 3. Proficient in using the basic constructs of C, to develop a computer program.
- 4. To use of functions, pointers, arrays and files in programming.
- 5. To understand the fundamentals of procedure-oriented programming and be able to apply it in computer program development and understanding the basic set of commands and utilities in Linux/UNIX systems.

SYLLABUS

UNIT I

General problem Solving concepts: Algorithm, and Flowchart for Problem Solving with Sequential Logic Structure, Decisions and Loops.

Imperative languages: Introduction to imperative language; syntax and constructs of a specific language (ANSIC).

Types Operator and Expressions with discussion of variable naming and Hungarian Notation: Variable Names, Data Type and Sizes (Little Endian Big Endian), Constants, Declarations, Arithmetic Operators, Relational Operators, Logical Operators, Type Conversion, Increment Decrement Operators, Bitwise Operators, Assignment Operators and Expressions, Precedence and Order of Evaluation, Proper Variable Naming and Hungarian Notation

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UNIT II

Control Flow with discussion on structured and unstructured programming: Statements and Blocks, If-Else-If, Switch, Loops — While, do, For, Break and Continue, Goto Labels, structured and un-structured programming

UNIT III

Functions and Program Structure with discussion on standard library: Basics of Functions, Parameter Passing and Returning Type, C main Return as Integer, External, Auto, Local, Static, Register Variables, Scope Rules, Block Structure, Initialization, Recursion, Preprocessor, Standard Library Functions and Return Types

UNIT IV

Pointers and Arrays: Pointers and address, Pointers and Function Arguments, Pointers and Arrays, Address Arithmetic, character Pointers and Functions, Pointer Arrays, Pointer to Pointer, Multi-dimensional array and Row/column major formats, Initialisation of Pointer Arrays, Command line arguments, Pointer to functions, Complicated declarations and how they are evaluated.

Structures: Basic Structures, Structures and Functions, Array of structures, Pointer of structures, Self-referral Structures, Table look up, Typedef, Unions, Bit-fields

UNIT V

Input and Output: Standard I/O, Formatted Output – printf, Formated Input – scanf, Variable length argument list, File access including FILE structure, fopen, stdin, sdtout and stderr, Error Handling including exit, perror and error.h, Line I/O, Related miscellaneous functions

Unix system Interface: File Descriptor, Low level I/O – read and write, Open, create, close and unlink, Random access – lseek, Discussions on Listing Directory, Storage allocator **Programming Method:** Debugging, Macro, User Defined Header, User Defined Library Function, Makefile Utility.

TEXT BOOKS:

- 1. The C Programming Language, (Second Edition) B. W. Kernighan and D. M. Ritchi, PHI.
- 2. Programming in C, (Second Edition)B. Gottfried, Schaum Outline Series.

REFERENCES:

- 1. C: The Complete Reference, (Fourth Edition), Herbert Schildt, McGraw Hill.
- 2. Let Us C, YashavantKanetkar, BPB Publications.

List of Practical's:

- 1. Algorithm and flowcharts of small problems like GCD
- 2. Structured code writing with:
 - i. Small but tricky codes
 - ii. Proper parameter passing



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- iii. Command line Arguments
- iv. Variable parameter
- v. Pointer to functions
- vi. User defined header
- vii. Make file utility
- viii. Multi file program and user defined libraries
- ix. Interesting substring matching / searching programs
- x. Parsing related assignments
 - i. Interesting substring matching / searching programs
 - ii. Parsing related assignments



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						Š	TEACHING & EVALUATION SCHEME THEORY PRACTICAL				
COURSE CODE	CATEGORY	COURSE NAME	L	Т	P	CREDITS	END SEM Universit y Exam	Two Term Exam	Teachers Assessm ent*	END SEM Universit	Teachers Assessm ent*
BTCSH104	UG	Principles of Electrical Engineering	3	0	2	4	60	20	20	30	20

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 OBJECTIVES

Student will have ability:

1. To introduce fundamental concepts of DC and AC circuits, Electrostatics electromagnetism, transformer, electrical wiring.

COURSE OUTCOMES

Upon completion of the subject, Students will be able:

- 1. To apply Knowledge of basic concepts of work, power, energy for electrical, mechanical and thermal systems.
- 2. To calculate current in electrical network using Kirchhoff's law and network theorems.
- 3. To describe construction, principle of operation ,specifications and applications of capacitors and batteries .
- 4. To defines basic terms of single phase and three phase AS circuits and supply system.
- 5. To describe types of wiring and earthing system.

SYLLABUS

UNIT I

Introduction: Concept of Potential difference, Voltage, Current, Fundamental Linear Passive and Active Elements to their Functional Current-Voltage Relation, Terminology and Symbols in Order to Describe Electric Networks, Voltage Source and Current Sources, Ideal and Practical Sources, Concept of Dependent and Independent Sources, Kirchhoff-S Laws and Applications to Network Solutions Using Mesh and Nodal Analysis, Concept of Work, Power, Energy, and Conversion of Energy.

UNIT II

DC Circuits: Current-Voltage Relations of the Electric Network by Mathematical Equations to Analyze the Network (Thevenin's Theorem, Norton's Theorem, Maximum Power Transfer Theorem) Simplifications of Networks using Series-Parallel, Star/Delta Transformation. Superposition Theorem.

UNIT III

AC Circuits: AC Waveform Definitions, Form Factor, Peak Factor, Study of R-L, R-C,RLC Series Circuit, R-L-C Parallel Circuit, Phasor Representation in Polar and Rectangular form, Concept of Impedance, Admittance, Active, Reactive, Apparent and Complex Power, Power Factor,

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3 Phase Balanced AC Circuits (λ-Δ&λ-λ).

UNIT IV

Electrostatics and Electro-Mechanics: Electrostatic Field, Electric Field Strength, Concept of Permittivity in Dielectrics, Capacitor Composite, Dielectric Capacitors, Capacitors in Series and Parallel, Energy Stored in Capacitors, Charging and Discharging of Capacitors, Electricity and Magnetism, Magnetic Field and Faraday's Law, Self and Mutual Inductance, Ampere's Law, Magnetic Circuit, Single Phase Transformer, Principle of Operation, EMF Equation, Voltage Ratio, Current Ratio, KVA Rating, Efficiency and Regulation, Electromechanical Energy Conversion.

UNIT V

Measurements and Sensors: Introduction To Measuring Devices/Sensors and Transducers (Piezoelectric and Thermo-Couple) Related to Electrical Signals, Elementary Methods for the Measurement of Electrical Quantities in DC and AC Systems(Current & Single-Phase Power). Electrical Wiring And Illumination System: Basic Layout Of The Distribution System, Types of Wiring System & Wiring Accessories, Necessity of Earthing, Types of Earthing, Safety Devices & System. **For Further Reading -** Principle of Batteries, Types, Construction and Application, Magnetic Material and B-H Curve, Basic Concept of Indicating and Integrating Instruments.

TEXT BOOKS:

- 1. Electric Machinery, (Sixth Edition) A.E. Fitzgerald, Kingsely Jr Charles, D. Umans Stephen, Tata McGraw Hill.
- 2. A Textbook of Electrical Technology,(vol. I),B. L. Theraja, Chand and Company Ltd., New Delhi
- 3. Basic Electrical Engineering, V. K. Mehta, S. Chand and Company Ltd., New Delhi.
- 4. Theory and problems of Basic Electrical Engineering, (SecondEdition), J. Nagrath and Kothari, Prentice Hall of India Pvt. Ltd.

REFERENCES:

- 1. Basic of Electrical Engineering, T. K. Nagsarkar and M. S. Sukhija, Oxford University Press.
- 2. T. K. Nagsarkar and M. S. Sukhija, Basic of Electrical Engineering, Oxford University Press, 2011.
- 3. Introduction to Electrodynamics, D. J. Griffiths, (Fourth Edition), Cambridge University Press.
- 4. Engineering Circuit Analysis, William H. Hayt& Jack E. Kemmerly, McGraw-Hill Book Company Inc.
- 5. Fundamentals of Electrical and Electronics Engineering, Smarjith Ghosh, Prentice Hall (India) Pvt. Ltd.

List of Practical's:

- 1. Familiarization of electrical Elements, sources, measuring devices and transducers related to electrical circuits
- 2. Determination of resistance temperature coefficient
- 3. Verification of Network Theorem (Superposition, Thevenin, Norton, Maximum Power
- 4. Transfer theorem)
- 5. Simulation of R-L-C series circuits for XL>XC, XL< XC
- 6. Simulation of Time response of RC circuit
- 7. Verification of relation in between voltage and current in three phase balanced star and delta connected loads.

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8. Demonstration of measurement of electrical quantities in DC and AC systems.



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COURSE CODE	CATEGORY	COURSE NAME	L	Т	P	CREDITS	END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*
BTCSH105	UG	Physics for Computing Science	3	0	2	4	60	20	20	30	20

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

COURSE OBJECTIVES

The student will have ability to:

- 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

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

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

SYLLABUS

UNIT I

Oscillation: Periodic Motion-Simple Harmonic Motion-Characteristics of Simple harmonic Motion-Vibration of Simple Spring Mass System. Resonance-Definition., Damped harmonic Oscillator – Heavy, Critical and Light Damping, Energy Decay in a Damped Harmonic oscillator, Quality Factor, Forced Mechanical and Electrical Oscillators.

UNIT II

Interference-principle of superposition-young's experiment: Theory of Interference Fringes-Types of Interference-Fresnel's Prism-Newton's Rings, Diffraction-Two kinds of Diffraction-Difference between Interference and Diffraction-Fresnel's Half Period Zone and Zone Plate-Fraunhofer Diffraction at Single Slit-Plane Diffraction Grating. Temporal and Spatial Coherence.

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



Polarization of light: Polarization - Concept of Production of Polarized Beam of Light from two SHM Acting at Right Angle; Plane, Elliptical and Circularly Polarized Light, Brewster's Law, Double Refraction.

UNIT III

Basic Idea of Electromagnetisms: Continuity Equation for Current Densities, Maxwell's Equation in Vacuum and Non-Conducting Medium.

Quantum Mechanics: Introduction- Planck's Quantum Theory- Matter Waves, De-Broglie Wavelength, Heisenberg's Uncertainty Principle, Time Independent and Time Dependent Schrödinger's Wave Equation, Physical Significance of Wave Function, Particle in a One Dimensional Potential Box, Heisenberg Picture.

UNIT IV

Crystallography: Basic Terms-Types of Crystal Systems, Bravais lattices, Miller Indices, D Spacing, Atomic Packing Factor for SC, BCC, FCC and HCP Structures.

Semiconductor Physics: Conductor, Semiconductor and Insulator; Basic concept of Band theory.

Thermodynamics: Zeroth Law of Thermodynamics, First Law of Thermodynamics, Brief Discussion on Application of 1st Law, Second Law of Thermodynamics and Concept of Engine, Entropy, Change in Entropy in Reversible and Irreversible Processes.

UNIT V

Laser and Fiber optics: Einstein's Theory of Matter Radiation Interaction and A and B Coefficients; Amplification of light by Population Inversion, Different Types of Lasers: Ruby Laser, CO2 and Neodymium Lasers; Properties of Laser Beams: Mono-Chromaticity, Coherence, Directionality and Brightness, Laser Speckles, Applications of Lasers in Engineering. Fiber Optics and Applications, Types of Optical Fibers.

TEXT BOOKS:

- 1. Concepts of Modern Physics, (Fifth Edition) A Beiser, McGraw Hill International.
- 2. Fundamentals of Physics, David Halliday, Robert Resnick and Jearl Walker, Wileyplus.

REFERENCES:

- 1. Optics, (Fifth Edition) Ajoy Ghatak, Tata McGraw Hill.
- 2. Sears & Zemansky University Physics, Addison-Wesley.
- 3. Fundamentals of Optics, (Third Edition) Jenkins and White, McGraw-Hill.

List of Practical's:

- 1. Magnetic field along the axis of current carrying coil Stewart and Gee
- 2. Determination of Hall coefficient of semi-conductor
- 3. Determination of Plank constant

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- **4.** Determination of wave length of light by Laser diffraction method
- 5. Determination of wave length of light by Newton's Ring method
- **6.** Determination of laser and optical fiber parameters
- 7. Determination of Stefan's Constant.

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COURSE CODE	CATEGORY	COURSE NAME	L	Т	P	CREDITS	END SEM Univers ity		her sss	SEM SEME CINICAL SEME SEME SEME SEME SEME SEME SEME SEM	
BTCSH 106	UG	Business Communication and Value Science - I	2	1	2	4	60	20	20	30	20

Course ID:

1.6 (Year 1 Semester 1)

	Leadershi	p Oriented Learning (LOL)	
	·		
Nature of Course)	Behavioral	
Pre requisites		Basic Knowledge of high school English	
Course Objective	es:		
1		life skills are and their importance in leading a l	nappy and well-adjusted life
2	Motivate student	s to look within and create a better version of sel	f
3	Introduce them to	key concepts of values, life skills and business	communication
Course Outcomes Upon completion		dents shall have ability to	
C1.6.1	Recognize	the need for life skills and values	[U]
C1.6.2	Recognize	own strengths and opportunities	[U]
C1.6.3	Apply the l	ife skills to different situations	[AP]
C1.6.4	Understand	I the basic tenets of communication	[U]
C1.6.5	Apply the l	pasic communication practices in different types ation	of [AP]
Course Contents			
	ne course with imi		
☐ Overview of b	iz communicatior	l	
Self-awarenes	s, confidence and	communication	





☐ Applicati	s of Business co on of communi on of Life Skill ent	cation skills	
		Total Ho	urs:
Text Books:		65	
	There are no pr links shared.	escribed texts for Semester 1 – there will be handouts a	and reference
Reference Books:			
1	English vocab	ulary in use – Alan Mc'carthy and O'dell	
2	APAART: Sp	eak Well 1 (English language and communication)	
	1.D. 1.D.T. G	1 777 11 2 (2 . 5 . 21 . 11 .)	
3	APAART: Sp	eak Well 2 (Soft Skills)	
4	Business Com	munication – Dr. Saroj Hiremath	
Web References:			
1		nd to perform under pressure- Simon sinek	
		com/videos/simon-sinek-on-training-your-mind-to-pe	rform-under-
2	pressure-captur	•	
2		ne CEO rallied his team in the middle of layoffs c.com/video/simon-sinek-explains-why-you-should-pu	t-neonle-hefore-
	numbers.html	c.com/ video/simon-sinex-explains-why-you-should-pu	t-people-before-
3		op Ten rules for success	
	https://www.yo	utube.com/watch?v=bBsT9omTeh0	
Online Resources:			
1	https://www.c	oursera.org/learn/learning-how-to-learn	
2	https://www.c	oursera.org/specializations/effective-business-commur	nication
Assessment Methods	& Levels (based	l on Blooms'Taxonomy)	
Formative assessment	•	• /	
2 of man to assessment	Bloom's	/	
Course	Level	Assessment Component	Marks
Outcome		Immonion (interview)	_
C1.6.1	Understand	Immersion (interview)	5





C1.6.3	Apply	Group Assignment – community service	5
C1.6.4	Understand	Group activities	3
C1.6.5	Apply	Record a conversation	3
\$	Summative As	ssessment based on End Semester Project	
Bloom's Level			
Understand	Paper		50
Apply	Trek followe	d by project	
Analyse			

Lesson Plan

Unit	Objective	Bloom's	Content	Type of	Duration
No		Level		Class	
1	Recognize the	Understand	Overview of LOL (include	Lecture &	1 hour
	need for life		activity on introducing self)	reflection	
	skills and		Class activity – presentation	Activity	1 hour
	values		on favorite cricket captain in		
			IPL and the skills and values		
			they demonstrate		
			Self-work with immersion –	Immersion	2 hours
			interview a maid, watchman,	activity	
			sweeper, cab driver, beggar		
			and narrate what you think are		
			the values that drive them		
			Overview of business	Lecture	1 hour
			communication	with videos	
			Activity : Write a newspaper	Class	1 hour
			report on an IPL match	activity	
				with 3	
				iterations -	
				Formative	
				Evaluation	
			Activity: Record a	Class	1 hour
			conversation between a	activity	
			celebrity and an interviewer	with 3	
				iterations -	
				Formative	
				Evaluation	
			Quiz Time	Summative	30 mins
				Evaluation	
				for Unit	





Unit No	Objective	Bloom's Level	Content	Type of Class	Duration
		Understand	Self-awareness – identity, body awareness, stress management	Anubhaab Activities	4 hours
				(Please conduct at least one activity per	
				week and include the Meditation session in it)	
2	Understand the basic tenets of communication Unit name: Be At Ease (BAE) (in Millennial lingo it means Before Anyone Else)	Understand	Essential Grammar – I: Refresher on Parts of Speech – Listen to an audio clip and note down the different parts of speech followed by discussion Tenses: Applications of tenses in Functional Grammar – Take a quiz and then discuss	Lecture with audio and video	1 hour
	Lise		Sentence formation (general & Technical), Common errors, Voices. Show sequence from film where a character uses wrong sentence structure (e.g. Zindagi Na MilegiDobara where the characters use 'the' before every word)	Lecture with video/audio	1 hour
			Communication Skills: Overview of Communication Skills		
			Barriers of communication, Effective communication		1 hour
			Types of communication- verbal and non – verbal – Role-play based learning	Activity based learning	1 hour
			Importance of Questioning	Activity	1 hove
			Listening Skills: Law of nature- Importance of listening skills, Difference between listening and hearing, Types of listening.	Activity based learning	1 hour
	Recognize own strengths and	Understand	Expressing self , connecting with emotions, visualizing and	Anubhaab Activities	4 hours





Unit No	Objective	Bloom's Level	Content	Type of Class	Duration
	opportunities		experiencing purpose		
	Tr			(Please	
				conduct at	
				least one	
				activity per	
				week and	
				include the Meditation	
				session in it)	
	Apply the basic	Apply	Activity: Skit based on	Formative	4 hours
	communication	1-1913	communication skills	Evaluation	. Hours
	practices in		Evaluation on Listening	Formative	30 mins
	-			Evaluation	30 IIIIIS
	different types of		skills – listen to recording and	Evaluation	
	-		answer questions based on		
2	communication	77.1	them		
3	Understand the	Understand	Email writing: Formal and	Activity	1 hour
	basic tenets of		informal emails, activity	based	
	communication			learning	
	Talk Mail		Verbal communication:	Audio and	30
	Write (TMW) -		Pronunciation, clarity of	video	minutes
	In Millennial it		speech	based	
	means That			learning	
	Moment When		Vocabulary Enrichment:	Activity	1 hour
			Exposure to words from	based	
			General Service List (GSL) by	learning	
			West, Academic word list	(Group	
			(AWL) technical specific	Discussion)	
			terms related to the field of	Flipped	
				classroom	
			technology, phrases, idioms,	where	
			significant abbreviations		
			formal business vocabulary –	students	
			Read Economic Times,	will study	
			Reader's Digest, National	words	
			Geographic and take part in a	before	
			GD, using the words you	coming to	
			learnt/liked from the articles.	class	
			Group discussion using words		
			learnt		
			Practice: Toastmaster style	Activity	2 hours
			Table Topics speech with	based	over 2/3
			evaluation	learning	days
			Written Communication:	Activity	1 hour
			Summary writing, story	based	
			writing writing, story	learning	
			Build your CV – start writing	Formative	30
			your comprehensive CV	Evaluation	minutes
			including every achievement	Lvaldation	minucs
			meruumg every acmevement		







Unit No	Objective	Bloom's Level	Content	Type of Class	Duration	
			in your life, no format, no page limit			
	Apply the basic communication practices in different types of communication	Apply	Project: Create a podcast on a topic that will interest college students	Formative Evaluation	1 hour	
	Recognize own strengths and opportunities	Understand	Life skill: Stress management, working with rhythm and balance, colours, and teamwork	Anubhaab Activities (Please conduct at least one activity per week and include the Meditation session in it)	4 hours	
	Apply the basic communication practices in different types of communication	Apply	Project: Create a musical using the learnings from unit	Formative Evaluation	2 hours	
4	Unit 4 Recognize the need for life skills and values Unit name: Realities of Facing Life (ROFL)	Understand	Understanding Life Skills: Movie based learning — Pursuit of Happyness. What are the skills and values you can identify, what can you relate to?	Interactive learning	3 hours	
			Introduction to life skills What are the critical life skills	Activity and Video	1 hour	
			Multiple Intelligences Embracing diversity – Activity on appreciation of diversity	Video and activity based	1 hour	
	Apply the life skills to different	Apply	Life skill: Community service – work with an NGO and make a presentation	Field work: Formative Evaluation	10 hours	
	situations		Life skill:Join a trek – Values to be learned: Leadership, teamwork, dealing with ambiguity, managing stress,	Field work: Formative Evaluation	12 hours	





Unit No	Objective	Bloom's Level	Content	Type of Class	Duration	
			motivating people, creativity, result orientation			
		•		TOTAL	65 hours	
	Summative Bloom's Evaluation Level		Type of Assessment	Marks	Total	
		Understand	Knowledge Test	20 marks	50	
		Apply	Project (to be evaluated by TCS)	20 marks	marks	
		Apply	Group discussion (to be evaluated by TCS)	10 marks		





	CATEGORY	COURSE NAME	L	Т	A CREDITS		TEA THE		EVALUATION SCHEME PRACTICAL		
COURSE CODE							END SEM University Exam	Two Term Exam	Teachers Assessment*	END SEM University Exam	Teachers Assessment*
	UG	Induction Program (Non- Credit)	-	-		•	-	-	-	-	-

