

Effective from Session: 2015-2	2016						
Course Code	LN104	Title of the Course	Essential Professional Communication	L	T	P	C
Year	I	Semester	I	3	1	0	
							4
Pre-Requisite	None	Co-requisite	None				
		C	on and learning language though literature. and cross-cultural communication.				
Course Objectives	Basic commun	*	functional grammar; meaning and process of communication,	verbal	and n	onverbal	
	<ul> <li>Knowled</li> </ul>	ge of reading and compreh	ension of general and technical articles, precise writing, summarizing	ng, abst	racting.		
	Basic cor	ncepts of group discussion,	organizing seminars and conferences. Development of Reading and	l Writii	ng skills		

	Course
	Outcomes
CO1	Basic Understanding of Communication and Professional Communication
CO2	Basic knowledge of structural and functional grammar. Learning Language through literature
CO3	Basic tools of communication and improvement in communicative competence
CO4	Understanding the basic grammar and basic structure of language
CO5	Enhancement of writing skills in English i.e. writing application, report and various types of letters

U n it N o	Title of the Unit	Content of Unit	Conta ct Hrs	Mapp ed CO				
1	Professional Communication	Professional Communication: Its Meaning and Importance, Essentials of Effective Communication, Barriers to Effective Communication. The Cross Cultural Dimensions of Professional Communication.	8	CO1				
2	Language through Literature	Essays: 1. The Effect of Scientific Temper on Man by Bertrand Russell, 2. The Aim of Science and Humanities by Moody E Prior. B. Short Stories: 1. The Meeting Pool by Ruskin Bond, 2. The Portrait of a Lady by Khushwant Singh	8	CO2				
3	Basic Vocabulary	Euphemism, One-word Substitution, Synonyms, Antonyms, Homophones, Idioms and Phrases, Common Mistakes, Confusable Words and Expressions, Portmanteau Words, Foreign Words and Expressions.	8	CO3				
4	Basic Grammar	Articles, Prepositions, Tenses, Concord, (Subject-Verb agreement), Modal Auxiliaries, Verbs: its Kinds and uses, Degrees of Comparison, Punctuation	8	CO4				
5	Basic Composition	Report Writing: What is report? Kinds and Objectives of reports, writing reports, Business Letter						

#### Reference Books:

- Kumar, Sanjay and Pushp Lata., Communication Skills. Oxford University Press, Oxford 2011.
- Raman, Meenakshi, and Sangeeta Sharma Technical Communication: Principals and Practice. Second Edition, Oxford University Press, 2012. Raina, Roshan Lal, Iftikhar Alam, and Faizia Siddiqui, Professional Communication. Himalaya Publication House 2012.
- Agarwal, Malti. Professional Communication. Krishna's Educational Publishers. 2016.

- http://www.uptunotes.com/notes-professional-communication-unit-i-nas-104
- https://www.docsity.com/en/subjects/professional-communication/

							Course	e Artic	ulation l	Matrix: (	(Mapping	of COs wit	h POs and	PSOs)				
P	PO1	PO2	PO	P	PO	PO6	PO7	PO	PO9	PO1	PO11	PO12	PSO1	PSO	PSO4	PSO5	PSO6	PSO7
0-			3	O4	5			8		0				2				
P																		
S																		
0																		
CO	2	3	3	3	3	3	3	3	3	3	3	3	2	1				
1																		
CO	3	3	3	3	3	3	3	3	3	3	3	2	3	1				
2																		
CO	3	3	3	3	3	3	3	3	3	3	2	1	1	2				
3																		
CO	3	3	3	3	3	3	2	3	3	3	3	3	3	1				
4																		
CO	3	3	3	3	3	3	2	3	3	3	3	3	2	1				
5	1	l	l			1		l	1	l	1			l				

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Effective from Session: 2022-23	,						
Course Code	CA110	Title of the Course	Computer fundamentals and C Programming	L	Т	P	C
Year	I	Semester	I	3	1	0	4
Pre-Requisite	None	Co-requisite	None				
Course Objectives	<ul> <li>To under</li> <li>To be abl</li> <li>To learn of</li> <li>To under</li> <li>To learn a</li> </ul>	stand the basics of program e to develop logics in orde decision-making statement stand the use of functions a and implement the concept	nentals, Networks, Internet and operating system aming paradigms and C Programming.  It to create programs and applications using C language.  Is in order to solve problems.  Ind pointer in C programming.  Ind farrays, structure & union.  Ithey can easily switch over to any other language.				

	Course Outcomes
CO1	Understand the basic knowledge of Computer fundamental and its application in computers.
CO2	Understand the basic concepts of C programming language and able to identify the need and use of programming in real world environment.
CO3	Design and develop various programming problems using basic concepts of C programming.
CO4	Implement concept of functions, pointers, array and string to resolve real world problems.
CO5	Understand advance C programming concepts like structure, union and enumeration etc.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction to Computer Systems	Introduction and History of Computers, Generations of Computers, Types of Computer, Basic Block Diagram and Functions of Various Components of Computer, Concept of Hardware and Software, Types of Software, Compiler and Interpreter, Memory and its Types, Elementary Concept of Operating System, Basics of Networks and Internet.	8	CO1
2	Introduction of C Language	Introduction and History of C Programming Language, Salient features of C, Structure of C Programs, Execution and Compilation of C programs.  Fundamentals of C Language: Character Set, C Tokens, Keywords, Identifiers, Modifiers, Variables: Declaration and Initialization of Variables, Scope of Variables, Data Types, Error, Types of Error.	8	CO2
3	Operators & Expressions	Types of Operators: Unary and Binary Operators, Assignment, Arithmetic, Relational & Logical Operators, Increment and Decrement Operators, Conditional Operators, sizeof() Operator, Comma Operator, Conditional Operator & Bit wise operators, Type Conversion, Types of Expression. Control Structures: Simple statements, Decision Making Statements, Looping statements, Nesting of Control Structures, Break and Continue statement, goto Statement	8	CO3
4	Functions	Built-in and User-Defined Function, Types of User Defined Function, Function Prototype Declaration, Function Call, and Function Definition, Nesting of Functions, Recursive Functions, Macros and C Preprocessor, Storage Classes.  Pointers: Introduction toPointer Operators (&,*), Pointer Arithmetic, Parameter Passing: Call by Value, Call by Reference, Pointer to Pointer, Dynamic Memory Allocation, calloc() and malloc() Functions.	8	CO4
5	Arrays & String	Defining Array, Types of Array, Declaration and Initialization of Linear and Multidimensional Arrays, Array and Functions, Passing Arrays to Functions, Character Arrays, Arrays and Strings, String Manipulation, String Functions.  Structure and Union: Defining Structure and Union, Declaration and Initialization of Structure and Union Variables, Differences between Structure and Union, Enumeration.	8	CO5

- V. Rajaraman, "Fundamentals of Computers", PHI
- Peter Norton's, "Introduction to Computers", TMH
- Hahn, "The Internet complete reference", TMH
  Gottfried, "Programming in C", Schaum's Series, Tata McGraw Hill. 4.

- https://onlinecourses.swayam2.ac.in/cec19\_cs06/preview
- https://onlinecourses.nptel.ac.in/noc22\_cs40/preview

				Course Articulation Matrix: (Mapping of COs with POs and PSOs)														
PO-	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
PSO																		
CO																		
CO1	3	1				1		1					3	1				
CO2		3	1	1				1					2	1				
CO3	1	3	1	2		2	1	3					1	3				
CO4	1	1	2	1			1						2	2				
CO5		2	3	1		3	1	2					2	1				



Effective from Session:20	23-24													
Course Code	CA114	Title of the Course	Introduction to IT Industry	L	T	P	C							
Year	1	Semester         1         3         1         0												
Pre-Requisite	None	Co-requisite None												
Course Objectives	<ul><li>Acquire an under</li><li>Understand the ic</li><li>Analyze challeng</li></ul>	lea of IT infrastructure and es in IT project manageme	ents of IT and ethical considerations											

	Course Outcomes
CO1	Learn the basic concept of Information Technology
CO2	Learn the concept of IT components and Ethics
CO3	Understand the concept of IT Infrastructure and its challenges
CO4	Understand the IT hierarchy and various roles
CO5	Able to understand the various certifications in IT Industry

Unit No.	Title of the Unit	Content ofUnit	Contact Hrs.	Mapped CO
1	Information Technology	Information Technology: Evolution, IT Industry Classification, IT Governance Frameworks, IT Roles in Digital Transformation, Information flow in IT, Storage Technology in IT. The Nature of Information Technology Projects, Why IT Projects Fail, The Context of Project Management, The Project Life Cycle and IT Development, Extreme Project Management, Evolution of Software Development Methodologies,  SDLC an Introduction: Planning, Analysis, Design, Implementation, Maintenance, SDLC - IT Perspective	8	CO1
2	IT Components	IT Components: Components of IT Infrastructure, IT Applications, Client-Server Model, Cloud: SaaS, PaaS, IaaS, IoT. Software Development: Frontend and Backend Technologies, Content Management Systems, Application Package Interface, Continuous integration, Continuous delivery and Continuous deployment. Enterprise Level IT Components. IT Ethics: Cyber Ethics, Intellectual Property, Privacy and Law, Computer Forensics, Ethics and Internet, Cyber Crimes Indian IT Act.	8	CO2
3	IT Infrastructure	IT Infrastructure: Introduction, challenges, design issues in IT organization and IT infrastructure, Determining customer's requirements, IT systems, management process, IT service management process, Information system design process, patterns for IT systems management, IT infrastructure library	8	
4	Hierarchy in	IT Hierarchy: Qualification/Skill Set, Organization structure, Reporting manager, Project type, Role, Performance metrics, SLA (Service Level Agreement), Technology & knowledge, Job Layers: Software Layer, Hardware Layer, Network Layer, Security Layer, Storage Layer. Roles in IT: IT support staff, IT System Administrator, IT Engineer, IT Analyst, IT Specialist, IT Manager, IT Project Manager, and Chief Technical Officer.IT Architect, Product Manager, Project	8	CO3
4	IT	Manager, Troject Manager, and Chief Technical Officer. If Alcinicer, Floduct Manager, roject Manager, Tester, Quality & Assurance Engineers, Business Analyst, Data Engineer, Data Scientist, DevOps Engineer, Scrum Master, Frontend Developer, Backend Developer, Full Stack Developer, Mobile Application Developer, UI & UX Designer, System Administrator, SEO Specialist, Database Administrator, Cloud Architect, Network Engineer, Big Data Engineer.	8	CO4
5	Certifications in IT Industry	Basic IT Certification: Google's IT Support Professional Certificate. Cyber Security: Certified Information Security Manager (CISM), CompTIA Security+, Certified Information Systems Auditor (CISA). Systems Security Certified Practitioner (SSCP). Network and Systems: CompTIA Server+, Cisco Certified Network Associate (CCNA). Data Analyst: IBM Data Analyst Professional Certificate, Google Data Analytics Professional Certificate. Cloud: AWS Solutions Architect, Microsoft Certified: Azure Fundamentals, Google Associate Cloud Engineer.	`8	CO5
Referenc	e Books:			•

- "Computer Fundamentals" by P.K.Sinha
- "Information Technology and Organizational Learning: Managing Behavioral Change in the Digital Age", by Arthur M. Langer

### e-Learning Source:

https://www.udemy.com/course/understanding-the-it-industry/

							Cour	se Artic	culation	Matrix:	(Mappi	ng of COs	with POs a	and PSOs)				
PO-																		
PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
CO																		
CO1	1	1	1															
CO2	1	1	1		1													
CO3	1	1	1		1		1											
CO4	1	1	1	1	1	1	1											
CO5	1	1	1	1	1	1	1											



Effective from Session:							
Course Code	ES115	Title of the Course	Fundamentals of Environmental Science	L	T	P	C
Year	I	Semester	Ι	3	1	0	4
Pre-Requisite	None	Co-requisite	None				
Course Objectives	<ul><li>To study about the N</li><li>To study about Biod</li><li>To study Environme</li></ul>	Invironment and ecosystem latural Resources. iversity and Conservation. ntal pollution, its policies an pulation and Environmental	•				

	Course Outcomes
CO1	To study about the Environment and the Ecosystem.
CO2	To study about the Natural Resources.
CO3	To study about Biodiversity and Conservation.
CO4	To study Environmental pollution, its policies and practices.
CO5	To study Human Population and Environmental Ethics.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Introduction to Environment and Ecosystems	Environment, its components and segments, Multidisciplinary nature of Environmental studies Scope and Importance, Concept of Sustainability and sustainable development, Environmental movements (Chipko and Bishnois etc.), Ecosystem, Structure, Function and types, Energy flow in the Ecosystem, Food chains, Food webs, Ecological Pyramids and Ecological Succession.	8	CO1
2	Energy Resources:	Renewable and non renewable energy sources, Soil erosion and desertification, Deforestation its causes and impacts, Impact of Modern Agriculture activities on Environment, Impact of Mining Activities on Environment, Water: Use and over exploitation of surface and ground water, Impacts of large Dams (Advantages and Disadvantages), Case studies.	8	CO2
3	Biodiversity and Conservation	Levels of biological diversity (Genetic, Species and Ecosystem diversity), Hot spots of biodiversity (Indian /Global), India as a Mega Diversity Nation, Endangered and endemic species of India, Threats to Biodiversity: Habitat Loss, Poaching of Wildlife, Man-Wildlife Conflicts, Conservation of Biodiversity: In-situ and Ex-situ conservation of biodiversity, Ecosystem and biodiversity services (Ecological, Consumptive, Productive, Social, Ethical, Aesthetic, National and Option values).	8	CO3
4	Environmental Pollution, Policies and Practices	Environmental pollution: types, causes, effects and controls, Solid waste management (urban and industrial waste), Ill effects of fireworks, Climate change, Ozone layer depletion, acid rain and impacts on human communities and Environment, Environmental Laws: Environment Protection Act, Air (Prevention & Control of pollution)Act, Water (Prevention & Control of pollution)Act, Wildlife protection Act, Forest conservation Act, International agreements: Montreal and Kyoto protocols and convention on Biological Diversity (CBD), Tribal rights, Human wildlife conflicts in Indian context.	8	CO4
5	Human Population and the Environment	Human population growth: Impacts on environment, human health and welfare, Resettlement and rehabilitation of project affected persons, case studies, RR, EIA, Environmental ethics: Role of Indian and other religions and cultures in environmental conservation, Environmental communication and public awareness, case studies.	8	CO5

#### Reference Books:

- 1. Agarwal, K.C. 2001 Environmental; Biology, Nidi Pub. Ltd.Bikaner.
- 2. Bharucha Erach, the Biodiversity of India, Mapin Pub. Pvt. Ltd., Ahemdabad-380, India.
- 3. Brunner R.C. 1989. Hazardous waste incineration, Mc Graw Hill.
- 4. Clark R.S. Marine Pollution, Clanderon Press Oxford (TB).
  - . Cunningham W.P.2001.Cooper, T.H. Gorhani, E & Hepworth, Environmental encyclopedia, Jaicob Publication House, Mumbai.

#### e-Learning Source:

- 1. https://www.biologydiscussion.com/ecosystem/ecosystem-its-structure-and-functions-with-diagram/6666
- 2. https://youmatter.world/en/definition/definitions-biodiversity-what-is-it-definition-protection-loss-and-csr-commitments/
- 3. https://www.conserve-energy-future.com/environmental-ethics.php

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO/PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
СО																		
CO1	1	1	1	1	3	2	1	1					3	1				
CO2	1	1	1	1	2	2	1	1					2	1				
CO3	1	1	1	1	3	2	1	1					2	1				
CO4	1	1	1	1	2	2	1	1					2	1				·
COS	1	1	1	1	2	2	1	1					2	1				

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Effective from Session: 2015-1	16						
Course Code	MT151	Title of the Course	Computational Mathematics	L	T	P	C
Year	I	Semester	I	3	1	0	4
Pre-Requisite	None	Co-requisite	None				
Course Objectives			Ils in mathematics which is necessary for grooming them into s for specialized studies in science field.	success	ful gradı	uate. The	;

	Course
	Outcomes
CO1	Students will be able to understand Trigonometry: Trigonometric functions of angles of any magnitude, Compound and multiple angles, Inverse circular functions and geometry of two dimensions.
CO2	Students will be able to analyze Complex Numbers: Modulus, Argument, Complex Conjugate, Algebraic operations, De-Moivre's theorem, Root of a complex number.
CO3	Students will be able to understand different types of matrices, Algebraic operations, Symmetric and Skew-Symmetric Matrices, Transpose of Matrix, Orthogonal Matrix, Rank of Matrix, Determinant of a square matrix, Inverse of a square matrix, Solution of a system of Linear equations by Cramer's rule and Gauss-Elimination Method, Eigen Values and Eigen Vectors of a square matrix.
CO4	Students will be able to describe Central value of a set of data along with deviation from central value. Also, establish the relation between two variables.
CO5	Students will be able to understand the basic concept of Probability and their applications.

U n it N o	Title of the Unit	Content of Unit	Conta ct Hrs	Mapp ed CO
1	Geometry and Trigonometry	Trigonometry-Trigonometric Functions, Functions of angles of any magnitude, Compound and multiple angles, Inverse circular functions. Geometry- Straight Lines, Circle, Parabola, Ellipse, Hyperbola in two dimensions.	8	CO1
2	Complex Numbers	Modulus, Argument of a complex number, Polar form, Vector form, Complex Conjugate, Algebraic operations, De-Moivre's theorem, Root of a complex number.	8	CO2
3	Matrix	Definition of different types of matrix. Algebraic operations, Symmetric and Skew-Symmetric Matrices, Transpose of Matrix, Orthogonal Matrices, Rank of Matrix, Determinant of a square matrix, Inverse of a square matrix, Solution of a system of Linear equations by Cramer's rule and Gauss-Elimination Method, Eigen values & Eigen vectors of a square matrix.	8	CO3
4	Statistical Model	Measures of Central Tendency-Mean, Median Mode, Standard Deviation and Variance, Correlation-Karl Pearson Correlation coefficients, Rank Correlation coefficients, Regression lines, Properties of regression coefficients.	8	CO4
5	Probability	Definition of probability, Elementary properties, Conditional Probability, Baye's Theorem (without proof), Binomial Distribution, Poisson Distribution and Normal Distribution.	8	CO5

#### Reference Books:

- Advanced Engineering Mathematics, Wiley Eastern Ltd.
- Advanced Engineering Mathematics, Khanna Publication.
- Higher Engineering Mathematics, Khanna Publication.
- Advanced Engineering Mathematics, CBS Publication.
- Introduction to Engineering Mathematics-I, S.Chand & Company, New Delhi

- https://archive.nptel.ac.in/courses/111/108/111108157/
- https://nptel.ac.in/courses/111105090 https://nptel.ac.in/courses/111103070

T	1100000					Cour	se Articı	ılation M	Iatrix: (N	Mapping of	of COs wi	th POs an	d PSOs)					
P O- P S O	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PS O1	PS O2	PS O3	PS O4	PS O5	PS O6
CO 1	1	-	2	2	ı	1	2	2					2	2				
CO 2	1	-	2	2	ı	2	2	1					2	2				
CO 3	1	ı	3	3	i	2	3	3					3	2				
CO 4	1	2	3	3	-	2	2	2					3	2				
CO 5	1	2	3	2	-	2	1	2					2	2				



Effective from Session: 2015-20	)16														
Course Code	CA103	Title of the Course	C Programming Lab	L	T	P	C								
Year	I	Semester	I	0	0	3	2								
Pre-Requisite	None	Co-requisite	CA110												
	• To impleme	implement the basic concepts and programming techniques of the C programming language.													
	<ul> <li>To impleme</li> </ul>	nt the types of data types (	characters, strings, integers, floats), and special symbols in the C pr	ogramı	ning lan	guage.									
Course Objectives	<ul> <li>To impleme</li> </ul>	nt the decision-making co	ntrol statements and different types of loops in the C programming l	anguag	e.										
Course Objectives	<ul> <li>To impleme</li> </ul>	nt the functions and pointe	ers in the C programming language.												
	<ul> <li>To impleme</li> </ul>	nt the various operations of	on arrays, structures, and unions in the C programming language.												

	Course Outcomes
CO1	To identify the needs and uses of programming languages in a real-world environment.
CO2	Implementing the basic data types, variables, and arithmetic operations in the C programming language.
CO3	To develop a program using decision-making statements and different types of loops in the C programming language.
CO4	Able to design a program using functions and pointers in the C programming language.
CO5	To develop programs using arrays, structures, and unions in the C programming language.

Exper iment No.	Title of the Experiment	Content of Unit	Contact Hrs.	Mapped CO
1	Basic Programming	Basic Introduction to C program and turbo C setup (Compile/Run program) Simple program using scanf/printf Program using if/else/if-else/nested if-else Program using operators (++,, %, &, , etc.) Switch case programs	3	CO1
2	Control Statement and Functions	Programs of loops (while loop, dowhile loop) Program of Nested loops (patterns using for loop) Programs using goto statements Program of Functions (no parameter, no return value) Program of Functions (parameter, no return value)	3	CO2
3	Advanced features of the functions and Arrays	Program of Functions (no parameter, return a value) Program of Functions (parameter, return value) Program for scope of functions (global, local, static, register) Simple program of one-Dimensional array (searching, sorting) Programs of two-dimensional array (addition/multiplication of matrix)	3	CO3
4	Function with array and pointer	Program of array and function String Programs (using string function) String Programs (without using string function) Simple program using pointer (display value and its address) Program of pointer and array	3	CO4
5	Functions and pointers	Program of pointer using function Simple program of structure (read values and display the values) Program of structure using functions Program of structure using pointers Simple program of union (read values and display the values)	3	CO5

### Reference Books:

- 1. V. Rajaraman, "Fundamentals of Computers", PHI
- 2. Peter Norton's, "Introduction to Computers", TMH

### e-Learning Source:

- 1. https://onlinecourses.swayam2.ac.in/cec19\_cs06/
- 2. https://onlinecourses.nptel.ac.in/noc22\_cs40/

							Cours	e Artic	ulation	Matrix:	(Mappin	g of COs	with POs	and PSOs)				
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
CO1	3	3	2	3		1	3	3					3	1				
CO2	2	2	2	2	1		3	3					2	2				
CO3	2	3	3	3		3	3	3					1	2				
CO4	1	2	2	2	1		3	3					2	1				
CO5	2	2	2	2	1	2	3	3					2	2				

1-Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation



Effective from Session: 2015-2016												
Course Code	CA104	Title of the Course	Computer Application Lab	L	T	P	C					
Year	I	Semester	I	0	0	3	2					
Pre-Requisite	None	Co-requisite	None									
Course Objectives	Understanding computer prog	g the concept of input and gramming ne subject is on introducing	amming in a simple language to all undergraduate students, regard output devices of Computers and how it works and recognize the skills relating to computer basics, computer applications, program	basic	termin	ology 1	used in					

	Course Outcomes									
CO1	Understands the concept of Computer's Input/output devices, the concept of dynamic memory, data types, loops, functions, array, pointers, string, structures and files.									
CO2	Accomplish creating basic documents, worksheets, presentations with their properties.									
CO3	Be able to identify computer hardware and peripheral devices									
CO4	Utilize the Internet Web resources and evaluate on-line e-business system. Identify categories of programs, system software and applications.  Describe various types of networks network standards and communication software.									
CO5	To understand and make effective use of Linux utilities and shell scripting language to solve problems. Students will be able to understand the basic commands of Linux operating system and can write shell scripts.									

Unit No.	Title of Unit	Content of Unit	Contact Hrs.	Mapped CO
		Basic Windows elements		
	Basics of Windows	File management through Windows		
1	and MS-DOS	Use of Pop-up windows & Down bar	2	CO1
		Introduction to MS-DOS		
		Internal and External commands, Autoexec.bat & Damp; Config.sys		
		Basic functionality of Microsoft Word.		
	Introduction to MS-	Working with tables, paragraphs and columns.		
2	Word	Reviewing (track changes, adding comments etc.) and proof reading a document	2	CO2
		i.e. spells check and grammar etc.		
		Working with page layout, page setup and Mail merge.		
		Creating bulleted and numbered lists.		
		Creation of Excel sheet with multiple functionalities.		
	Introduction to MS-	Working with formulae and functions.		
3	Excel	Sorting and filtering data (auto and advanced filter).	2	CO3
		Working with charts (2D and 3D).		
		Adding comments, password protection to the workbook.		
		Creating and formatting slides in a presentation.		
	Introduction to MS-	Create a master slide with a logo, footer, and font.		
4	Powerpoint	Add notes to each slide and implementing background.	2	CO4
		Insert a graphic or picture and transitions for each slide.		
		Applying various effects (custom animation and transitional effects) in a presentation.		
		Basic knowledge of World Wide Web, browsers and search engines.		
5	Introduction to	Basic Communication over the Internet (Email, Browsing and Searching)	2	CO5
	Internet	Downloading and Storing Data.		
		Safe Surfing Tips and Techniques (Firewall, Antivirus).		
		Basics of E-Commerce.		
Referenc	e Books:		•	•

#### Reference Books:

- 1. V. Rajaraman, "Fundamentals of Computers", PHI
- 2. Peter Norton's, "Introduction to Computers", TMH

- 1. https://onlinecourses.swayam2.ac.in/cec19\_cs06/
- 2. https://onlinecourses.nptel.ac.in/noc22\_cs40/

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO- PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
CO																		
CO1	3	1	2			1	1						2	1				
CO2	1	2	1	1	1		1						2	2				
CO3	3	2	2	1		1							1	2				
CO4	3	1	2	1	1								2	1				
CO5	2	1	2	1	2		1						1	1				

Effective from Session: 2015-16  Course Code LN152 Title of the Course Basic Professional Communication Lab L T P													
Course Code	LN152	Title of the Course	L	T	P	C							
Year	I	Semester	I	0	0	2	1						
Pre-Requisite	None	Co-requisite	None										
Course Objectives	through The key which is The Dep commun Student which v professi The con	the study of language and component of the various s now a global language. Deartment of Languages cate nication with a marked emps will be given new insight will help them choose and onal ethics also.	types of professional communication is basically communication ers to the needs of the students aspiring for training, expertise and exphasis on English for Specific/Special Purposes (ESP). Its into the concepts of soft skills & professional communication to build a better career which depends not only on the hard skills, but ome their fear & anxiety of public speaking & guide them to	in the lacellend boost it on or	English ce in pro	language fessional nfidence skills &	; ! :						

	Course									
	Outcomes									
CO1	Students will be introduced to the basic understanding of communication and Professional Communication. Knowledge of Professional, cultural and cross-cultural communication will be imparted. Meaning and process of communication, verbal and nonverbal communication will be focused.  Basic Understanding of communication and Professional/Business Communication will be provided. They will also learn & practice how to introduce oneself in professional setting & how to manage speaking anxiety.									
CO2	Corrections in basic English sounds and correct pronunciations will be practiced by various Listening exercises & word games to help them become better conversationalist.									
CO3	Basic tools of communication and improvement in communicative competence.  Improvement in communicative competence will be done by using various software applications, showing them cultural movies & involving them in exercises like small & situational talk.									
CO4	Phonetic Alphabet and Phonetic Transcriptions will be taught & practiced to improve vocal clarity & pronunciation. Understanding the structural and functional grammar and basic structure of language.									
CO5	Intonation & Stress will be practiced to make them learn how paralinguistic features dramatically affect meaning & how it can help one in becoming a persuasive & engaging speaker.									

U n it N o	Title of the Unit	Content of Unit	Conta ct Hrs	Mapp ed CO
1	Introduction	Difference between Introduction and Description, SWOT Analysis	6	CO1
2	Software -I	Listening exercises, Pronunciation improvement through self- testing, Vocabulary improvement through word games	6	CO2
3	Software – II	Conversational skills, Exercises based on Language Skills/ Small talk, Cultural movies	6	CO3
4	Phonetics	Phonetic Alphabet and Phonetic Transcriptions	6	CO4
5	Non-verbal communication	Intonation and Stress	6	CO5

### Reference Books:

- 1. Gerson, Sharon J. Technical Writing: Process and Product (5th edition). Prentice Hall, 2005.
- 2. K. Floyd, Interpersonal Communication: The Whole Story. McGraw Hill, 2009.
- 3. Greenbaum, Sidney and Nelson Gerald, An Introduction to English Grammar. Routledge, 2009.
- 4. Swan, Michael, Practical English Usage. OUP, 2005.
- 5. Murphy, Raymond. English Grammar in Use. Cambridge University Press, 2019.
- 6. Kumar, Sanjay and Pushp Lata., Communication Skills. Oxford University Press, Oxford 2011.
- 7. Raman, Meenakshi, and Sangeeta Sharma. Technical Communication: Principals and Practice. Second Edition, Oxford University Press, 2012. 8. Gerson, Sharon J. *Technical Communication: Process and Product* (9<sup>th</sup> edition). Longman Pub., 2016.

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						C	ourse A	rticulati	on Matri	ix: (Mapp	ing of Co	Os with Po	Os and PS	Os)				
P O - P S O	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5	PSO 6
CO	3	2	3	3	3	3	3						3	1				
1	)	3	3	3	)	)	3						3	1				
CO 2	3	3	3	3	3	3	3						2	2				
CO 3	3	3	2	3	3	3	3						2	2				
CO 4	3	3	2	3	3	3	3						3	1				
CO	3	3	3	3	3	3	3		·		·	·	2	1				

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1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation