DEPARTMENT OF DATA SCIENCE

Scheme and Syllabus for B.Tech. In Data Science –III SEM according to NEP

Course Code	Name of Course	Course Category	Teaching Scheme				Credits	Evaluation Scheme					
								Theory			Practical		Total Marks
			L	T	P	Total Hours		TAE	CAE	ESE	INT	EXT	
SEMESTER-III													
23BSL201DS	Discrete Mathematics and Graph Theory	PCC2	3	1		4	4	10	15	50			75
23BTCSL201/ 23BTCSP201	Data Structures and Algorithms	PCC3	3		2	5	4	10	15	50	25	25	125
23BTDSL201	Multidisciplinary Minor –I: Fundamentals of Data Science (to other Branch)	MD1	2			2	2	10	15	50			75
23BTDSL202	Open elective –I: Web Designing and Analytics (to other Branch)	OE1	4			4	4	10	15	50			75
23BTHUL201DS	Engineering Economics and Industrial Management	EEMC1	2			2	2	10	15	50			75
23BTHUL20XDS	Humanities Elective	VEC1	2			2	2	10	15	50			75
23BTDSP210	Project -I	CEP			4	4	2				50		50
TOTAL			**16**	**1**	**6**	**23**	**20**	**60**	**90**	**300**	**75**	**25**	**550**

Course Title: **Discrete Mathematics and Graph Theory**										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term	ODD	Th	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	BS	3	1	--	4	10	15	50	--	--
Course Code	23BTSHL201									
Teaching Mode	Offline	4			Total	75			--	
Duration of ESE	2.5 hrs					75				

Course Objectives	This course introduces concepts of set theory and graph theory and its application to computer science.
	It also skills to analyze various kinds of sets and groups of objects meeting the criteria.
	It also introduces combinatorial structures and applies algebraic techniques to combinatorial problems.
Course Outcomes	CO1: Know grouping of objects and operation, relation, ordering of objects, concepts of Groups.
	CO2: Classify the algebraic structure for a given mathematical problem.
	CO3: Apply the concept of Boolean algebra in computer science engineering.
	CO4: Solve problems using basic graph theory.
	CO5: Develop algebraic technique to solve combinatorial problems using combinatorial structure.

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

ourse Outcomes	Program Outcomes and Program Specific Outcomes														
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2	PSO 3
CO1	3	3										3			
CO2	3	3										3			
CO3	3	3										3			
CO4	3	3										3			
CO5	3	3										3			
CO6	3	3										3			

Course Contents:

Unit	Contents	Hours
I	**Set Theory** Operations on sets, Laws of algebra of sets, Representation of sets on computer in terms of 0's & 1's. Partition & covering of a set, ordered pair, Product set, Relation–Different types of relations, Graph of relation, Matrix of relation, Transitive closure of relation, Properties of relations, Compatible relation. Functions, Partial ordering & partially ordered set, Hasse diagram of Poset, Totally ordered set, Peano axioms & Mathematical Induction.	10
II	**Group** Algebra or Algebraic systems like semigroup, monoid and examples. Homomorphism, Isomorphism of semigroup & monoid. Groups, properties of algebraic groups. Permutations groups, Subgroups, Cosets, Lagrange's theorem, properties of cyclic groups, generator of group, kernel of Homorphism, quotient group, Rings, types of rings, Fields, subring, Integral domain.	8
III	**Lattices and Boolean algebra** Lattice as Poset & as algebraic system, Types of lattices, Hasse diagrams, Sublattice, direct product of Lattices, Lattice Homomorphism, complement of elements of lattices, Various lattices, composition tables, Lattice, Boolean algebra; Boolean Expressions, Equivalence of Boolean Expression by tables, Simplification of circuit & equivalent circuit by truth tables.	8
IV	**Graph Theory** Graphs and its types, Sub graph, Quotient graph, Euler path, complete path, indegree, outdegree, reachability, cycle, matrix representation of graph. Transitive closure of graph, Adjacency matrix, Trees, Venn diagram, Representation of trees, binary trees, spanning trees, Prim's algorithm.	8
V	**Combinatorics** Counting Theorem and application, multiplication principle of counting, Permutation & Combination with examples, Definition of generating functions and it's examples, proof of simple combinatorial identities. Recursive relations: definitions & examples, explicitly formula for sequence, back tracking to find explicit formula of sequence, Solving recurrence relations. The pigeon hole principle & extended pigeon hole principle and application of pigeon hole principle in solving simple problems.	8

Text Books	1.	Discrete Mathematical structure with application to computer science by Trembley & Manohar (Mc. Graw Hill)
	2.	Discrete Mathematical Structure by Kolmann , Busby & Ross (PHI)
	3.	Discrete mathematics by Lipschutz & Lipson , Schaum's outline, TMH
Reference Books	1.	Discrete Mathematics by Liu
	2.	Discrete Mathematics by John Truss (Addison Wesley, 2000)
	3.	Foundations of Discrete Mathematical by K. D. Joshi (Willey Eastern).

Course Title: **Data Structure and Algorithms**										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term	ODD	Th	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	C	3	--	2	4	10	15	50	25	25
Course Code	23BTCSL201/ 23BTCSP201									
Teaching Mode	Online	5			Total	75			50	
Duration of ESE						125				

Course Objectives	This course introduces basic idea of data structure while making aware of methods and structure used to organize large amount of data.
	It's also aimed at developing skill to implement methods to solve specific problems using basic data structures.
	The course also provides career opportunities in design of data, implementation of data, technique to sort and searching the data.
Course Outcomes	CO1: Analyze various techniques for searching, Sorting and Hashing.
	CO2: Illustrate linear arrays and linked lists, including operations such as insertion, deletion, traversal, sorting, and searching.
	CO3: Demonstrate the array and linked representations of stacks and queues and their applications.
	CO4: Apply trees as non-linear data structure to find solution for given engineering applications.
	CO5: Understand the basics of Graphs as non-linear data structures.

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course Outcomes	Program Outcomes and Program Specific Outcomes													
	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
CO1		3	2	3									1	
CO2		2	3	3									2	
CO3		3	3	3									2	1
CO4		3	3	3									3	2
CO5		3	3	2									3	1

Course Contents:

Unit	Contents	Hours
I	**Introduction to Algorithms,** Searching and Sorting Introduction to Algorithms, Common operations on data structures, Types of data structures, Abstract Data Type Time and Space Complexity, Step Count Method, Asymptotic Notations. Searching: Linear Search, Binary Search Sorting: Bubble sort, Selection Sort, Merge-Sort, Shell Sort, Radix Sort, Introduction to Hashing	9
II	**Arrays and Linked Lists** Arrays: Introduction, Linear Arrays, Arrays as ADT, Representation of Linear array in Memory, Traversing Linear Arrays, Insertion and deletion in arrays. Linked List: Introduction, Representation of Linked Lists in Memory, Traversing a Linked List, Searching a Linked List, Memory Allocation; Garbage Collection, Types of linked lists, Insertion and Deletion in Singly Linked List, Insertion and Deletion in Doubly Linked List, Insertion and Deletion in Circular Linked List	9
III	**Stacks, Queue and Recursion** Stacks-Introduction to Stacks ,Array Representation of Stacks ,Linked Representation of Stacks, Stack as ADT, Various operations on stacks using arrays and linked lists, Application of Stacks : Polish Notations, Recursion, Towers of Hanoi Queue: Introduction to Queues, Array Representation of Queues, Linked Representation of Queues, Queues as ADT, Circular Queues, Deques, Priority Queues, Applications of Queues	9
IV	**Trees and Binary Trees** General and Binary Trees, Representation of binary tree in memory, Operations on Binary Trees, Binary Tree Traversals, Threaded Binary Trees, Binary Search Trees ,various operations in Binary Search Trees, AVL Search Trees, Insertion in an AVL Search Tree, Deletion in an AVL Search Tree, m-way Search Trees, B-Trees-Insertion and deletion in B-Tree, B+Trees-Insertion and deletion in B+Tree	10
V	**Graphs and their Applications:** Introduction, Graph Theory Terminology, Representation of Graphs, Operations on Graphs, Traversing a Graph, Posets , Topological Sorting, Spanning Trees, Minimum Spanning Trees	8

Text Books	1.	AVAho, J Hopcroft, JD Ullman, Data Structures and Algorithms, Addison-Wesley, 1983.
	2.	THCormen, CF Leiserson, RL Rivest, C Stein, Introduction to Algorithms, 3rd Ed., MIT Press, 2009.
	3.	Sahni, S., "Data Structures, Algorithms, and Applications in C++", WCB/McGraw-Hill.
E--Books	1.	https://apps2.mdp.ac.id/perpustakaan/ebook/Karya%20Umum/Dsa.pdf
Reference Books	1.	Data Structures & Algorithms, 1e, Alfred V.Aho, Jeffery D. Ullman, Pearson.

	2.	MT Goodrich, R Tamassia, DM Mount, Data Structures and Algorithms in Java, 5th Ed., Wiley, 2010. (Equivalent book in C also exists.)
	3.	Wirth, N., “Algorithms and Data Structures”, Prentice-Hall of India.
On-line TL Material	1.	https://nptel.ac.in/courses/106/102/106102064/
	2.	http://cse01-iiith.vlabs.ac.in/
	3.	https://ds2-iiith.vlabs.ac.in/data-structures-2/

Course Title: Fundamentals of Data Science										
Semester	III	Teaching Scheme				Evaluation Scheme				
						Theory			Practical	
Term	ODD	TH	TU	PR	Credits	TAE	CAE	ESE	INT	EXT
Course Category	MD1	2	--	--	2	10	15	50		
Course Code	23BTDSL 201									
Teaching Mode	Offline				Total	75				
Duration of ESE	2.5					75				

Course Objectives	Apply necessary skills to leverage data for problem-solving in various engineering disciplines.
	Apply to collect, analyze, and interpret data to gain valuable insights and make data-driven decisions
	Apply linear regression and logistic regression on the given dataset.
Course Outcomes	**CO1**: Analyze importance of Data Science and its Applications in Engineering.
	CO2: Analyze Data Collection and Preprocessing tasks.
	CO3: Analyze basics statistics concepts required for Data Science.
	CO4: Apply machine learning algorithms for prediction and classification tasks.
	CO5: Apply these understandings on Real-world problems and challenges.

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course Outcomes	Program Outcomes													
	PO 1	PO2	PO 3	PO4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
CO1	3	--	--	--	--	--	--	--	--	--	2	--	3	1
CO2	3	--	--	--	--	--	--	--	--	--	2	--	3	2
CO3	--	--	3	--	--	--	--	--	--	--	3	--	3	3
CO4	--	--	3	--	--	--	--	--	--	--	3	--	3	3
CO5	--	--	--	--	3	--	--	--	3	--	--	3	3	3

Course Contents:

Unit	Contents	Hours
I	**Introduction to Data Science and its Applications in Engineering**: Overview of the course, Importance of data science in engineering, Real-world examples of data-driven engineering solutions	4
II	**Data Collection and Preprocessing:** Data types and sources, Data collection methods, Data cleaning and preprocessing techniques, Exploratory Data Analysis and Data Visualization, Descriptive statistics, Data visualization techniques using tools:in Python	6
III	**Statistical Analysis for Data Science:** Introduction to Statistical Analysis, Overview of statistical concepts and terms, Probability distributions, Hypothesis testing and significance, Statistical Inference, Estimation and confidence intervals, Parametric and non-parametric tests, Regression analysis	8
IV	**Machine Learning Algorithms:** Introduction to Machine Learning, Basic concepts and types of machine learning algorithms, Supervised vs. unsupervised learning **Regression and Classification**: Linear regression, Simple and Multiple Linear Regression, Logistic regression, Correlation vs. Regression, Precision, Recall, ML Models Score and Error	6
V	**Case Studies and Applications:** Real-world case studies demonstrating the use of data science in engineering, Discussion of ethical challenges and considerations in these case studies.	6

Text Books	1.	Data Science from Scratch: First Principles with Python by joel Grus, O Reilly Publications, 2015.
	2.	Fundamentals of data science, Dr. Aijaz Ali, Khan,Anita Rani Mehta,Vandana Ahuja, Rivers Publication, 2023
	3.	Applied statistics and probability for engineers, Douglas Montgomery, Wiley Publication
Reference Books	1	Python for Data Analysis-by WMc Kinney, OREILLY Publication.
	2.	Data Science and Its Applications, by Aakanksha Sharaff, G R Sinha, CRC press
On line TL Material	1.	https://www.edx.org/course/python-basics-for-data-science
	2.	https://www.coursera.org/learn/python-plotting?specialization=data-science-python
	3.	The Data Science Course 2020: Complete Data Science Bootcamp https://www.udemy.com/course/the-data-science-course-complete-data- science-bootcamp/

Course Title: Web Designing and Analytics										
Semester	**III**	**Teaching Scheme**				**Evaluation Scheme**				
						Theory			**Practical**	
Term	**ODD**	**Th**	**Tu**	**Pr**	**Credits**	**TAE**	**CAE**	**ESE**	**INT**	**EXT**
Course Category	**OE1**	**4**	**–**	**–**	**4**	**10**	**15**	**50**	**–**	**–-**
Course Code	**23BTDSL202**									
					TOTAL	**75**			**–**	
						75				

Course Objectives	To understand the basics of Web Designing using HTML, CSS and Bootstrap.
	To be able to develop, publish and host a website.
Course Outcomes	CO1: Understand the concept of web design principles and its architecture.
	CO2: Demonstrate the various tags which is used to create the layout of the webpage
	CO3: Demonstrate various styling and ways of adding CSS in Web documents.
	CO4: Identify Different Data Collection methods in web analytics
	CO5: Apply web analytics tools for problem solving

Mapping of Course Outcomes with Program Outcomes and Program Specific Outcomes:

Course Outcomes	**Program Outcomes and Program Specific Outcomes**													
	PO1	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**	**PO8**	**PO9**	**PO10**	**PO11**	**PO12**	**PSO1**	**PSO2**
CO1	2	2	1	2	1	1						3	2	2
CO2	2	3	2	2	3	2						3	3	
CO3	2	3	2	2	3	2						3	3	
CO4	2	3	2	2	3	2						3	3	
CO5	3	3	3	3	3	2	3					3	3	2

Unit	Contents	Hours
I	**Introduction to Web Technologies -** Introduction, Web Protocols and programs, Secure connections, Application and development tools, Web browser and Web server Web Design: Web site design principles, Planning the site and navigation, Architecture of Web-based systems-Client/server (2-tier) architecture, 3-Tier architecture. Case study of an e-commerce website.	**6**
II	**HTML -** Introduction to HTML, Prologue, Head section – Link, Base, Meta, Script, Style, Body Section – Header, Paragraphs, Text Formatting, Anchor, Images, Lists, Tables, Frames, Phrase (Special Purpose). HTML Forms: Form Attributes and Elements, Form Inputs types (text, submit, reset, radio, date, password, etc)	**6**
III	**Cascading Style Sheet (CSS) -** Introduction to CSS, Coding, setting properties and values for various tags, Text Fonts, Color Background Cursor, Style Sheet, In-Line, Embedded and External, Selector, Class, ID and Contextual	**6**
IV	**Web Analytics**—Present and Future: A Brief History of Web Analytics, Current Landscape and Challenges, Importance of Web Analytics process, How Web Analytics collects Web Data, Data collection methods in web analytics.	**6**
V	**Web Analytics Fundamentals**: Capturing Data, Web Logs, Techniques and technologies used in web analytics, Web analytics tools: Google Analytics - What is Google Analytics, How to set up Google Analytics, The Basics of Google Analytics, Google Analytics Reports.	**6**
Text Books	Deitel, Deitel and Nieto, "Internet and World Wide Web - How to Program", 5th Edition, PHI, 2011.	
	Bai and Ekedhi, "The Web Warrior Guide to Web Programming", 3rd Edition, Thomson, 2008.	
Reference Books	Web Programming, building internet applications, Chris Bates 2nd edition, Wiley Dreamtech	
	Beginning Web Programming-Jon Duckett WROX.	
	Programming world wide web, R.W. Sebesta. Fourth Edition, Pearson.	
	Internet and World Wide Web – How to program, Dietel and Nieto, Pearson.	
	https://www.oreilly.com/library/view/web-analytics-an/9780470130650/	
Online TL Material	https://html.com/	
	https://www.w3schools.com/html/	
	https://www.tutorialspoint.com/css/index.htm	
	https://analytics.google.com/analytics/academy/course/6	

Course Title: English for International Aspirants (Open Elective –I)										
Semester	**III**	**Teaching Scheme**				**Evaluation Scheme**				
						Theory			Practical	
Term	II	L	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	OE1	4	-	-	4	10	15	50	--	--
Course Code	UNISL201									
Teaching Mode	Offline				**Total**	75			-	
Duration of ESE	NA					**75**				

Course Objectives	To develop the overall skills in a student in order to apply the strategies involved to ace the TOEFL Test
	To enhance the student's ability to identify ideas and keys in order to comprehend the LSRW contents
	To augment critical thinking skills to trigger the existing knowledge and connect it with new information
	To sharpen the comprehensive reading techniques like skimming and scanning with speed and accuracy
	To improve the ability to effective attitude, opinion, inclination and conclusion to speak on a given topic
Course Outcomes	**CO1:** The overall skills to outshine the TOEFL test with good grades
	CO2: The potential to recognize the thought process and the essence conveyed in all the four skills tested
	CO3: The ability to apply his/her critical thinking to arrive at a fair choice of interpretation
	CO4: The competence of applying the reading techniques to answer the lengthy passages within time.
	CO5: The efficiency to excel the skills tested with an effective pace of excellence.

Course Contents:

Unit	Contents
I	**Basics of Reading Skills:** **Vocabulary and Reference** : Understanding Vocabulary from Context - Recognize Referents **Sentences**: Simplify Meanings of Sentences - Insert Sentences Into the Passage - Find Factual Information - Understand Negative Facts **Inferences** - Make Inferences from Stated Facts -Infer Rhetorical Purpose **Reading to Learn** - Select Summary Information - Complete Schematic Tables **Reading skills for TOEFL:** Exam Pattern Overview- Tips and Techniques to excel Reading Skills with effective time management-Passage Types- Content & Strategy- Ways to read- Skimming and Scanning methods with speed and accuracy- Identifying the keys-Paraphrase- Effective Note Taking- Usage of Eviction method-Practice series with previous TOEFL Question sets
II	**Basics of Listening Skills:** **Understanding :** Essence, details, purpose, Speaker's emotions, organization, interactions, connections **Listening Skills for TOEFL:** Exam Pattern Overview- Tips and Techniques to excel Listening Skills with effective time management- Spotting the Idea- Structure- Tone- Transitions- Practice series with previous TOEFL Question sets
III	**Basics of Speaking Skills:** Speaking with adequate planning and practice- Processing any existing information on the topic assigned- Having a viewpoint by thinking out of the box- Points Expansion- Dialogue and Presentation **Speaking Skills for TOEFL:** Exam Pattern Overview- Tips and Techniques to excel Speaking Skills with effective time management- Possibility- Opinion- Attitude- Inclination- summarize
IV	**Basics of Writing Skills**: Effective Daily writing- Writing with adequate planning and practice- Processing any existing information on the topic assigned- Having a viewpoint by thinking out of the box- Points Expansion- Presentation **Writing Skills for TOEFL:** Exam Pattern Overview- Tips and Techniques to excel Writing Skills with effective time management- Possibility- Opinion- Attitude- Inclination- summarize-Advanced writing tips

Course Title: Applied English Communication Skills (Open Elective –I)										
Semester	**III**	**Teaching Scheme**				**Evaluation Scheme**				
						Theory			Practical	
Term	II	L	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	OE1	4	-	-	4	10	15	50	--	--
Course Code	UNISL202									
Teaching Mode	Offline				**Total**	75			-	
Duration of ESE	NA					**75**				

Course Objectives	To train the students on applying their English proficiency in Real time communications
	To enhance the ability to communicate effectively in English on various business scenarios
	To develop the skills of the students in speaking English with accurate pronunciation
	To demonstrate the ability to formulate opinions and facts to exhibit content based speaking
	To equip the students with business writing and presentation techniques for a better career brand
Course Outcomes	**CO1:** The competence to apply their English proficiency in Real time communications
	CO2: The potential to communicate effectively in English on various business scenarios
	CO3: The ability to pronounce English without a regional pull and hence making it neutralised
	CO4: The ability to speak on any content with appropriate implementation of thoughts and opinion
	CO5: The efficiency to excel business writing and presentation skills

Course Contents:

Unit	Contents
I	**Communicative English for Social Scenarios:** Describing daily routines- Making requests and responding to request-Inviting, accepting and refusing an Invitation- Calling for help in an Emergency-Pronunciation drills- Communication within the peers and faculties of the college- Table conversation-Asking for routes- Communication in a bank- Asking for favour- Communication on a random topic
II	**Communicative English for Business Scenarios:** Meeting People, Exchange of Greeting and taking leave- Introduction of people to others- Answering the telephone and seeking Information- Taking and leaving Messages- Making Enquiries over the phone- Giving instructions and seeking Clarifications- Apologizing and responding to an Apology- Diplomatic Language & dealing with criticism- Giving & receiving feedback- Ways to present our self in an argument- Ways to say "No" while requested/demanded for- Negotiation skills in challenging situations- handling and resolving conflicts
III	**Business Writings and Presentations:** E-mail and letter writing for business scenarios- Writing business Memos and Notices-Netiquette- Video Conferencing- Telephone Skills- Presentation in meetings- Drawing inferences from written statements- Taking notes from spoken texts
IV	**Context based speaking**: Dynamics of Group discussion- The art of Public Speaking- Questioning techniques- Role plays- Framing opinions and judgements on a topic- Debating skills

Course Title: Advanced Communication Skills (Open Elective –I)										
Semester	**III**	**Teaching Scheme**				**Evaluation Scheme**				
						Theory			Practical	
Term	II	L	Tu	Pr	Credits	TAE	CAE	ESE	INT	EXT
Course Category	OE1	4	-	-	4	10	15	50	--	--
Course Code	UNISL205									
Teaching Mode	Offline				**Total**	75			-	
Duration of ESE	NA					**75**				

Course Objectives	To introduce the students on the importance of communication in Engineering.
	To build up the listening, speaking, reading and writing skills.
	To familiarize the formal and functional aspects of communication.
	To assist the students on their English proficiency to enhance their Communicative Skills.
	To equip the students with the essential skills for employability.
Course Outcomes	**CO1**: Realize the value and relevance of communication functionalities in their respective streams.
	CO2: Coordinate, collaborate and corroborate through LSRW Skills.
	CO3: Exercise efficient and effective professional conduct.
	CO4: Confidently display their English proficiencies- A prerequisite for being employable.
	CO5: Exhibit their skills related for Employability through effective demeanor.

Course Contents:

Unit	Contents
I	**Communication Skills (LSRW)-** Listening Skills- Practice with Videos/Audios-Conversational English Phrases- Some Common Errors- Spot errors in sentences (Repetition of words, incorrect phrases etc. -Reading Skills-Reading comprehension & Interpretation- Writing Skills-Essay writing.
II	**Skills for Employability-** Self-Introduction- Do's and Don'ts (Internship Specific)-Resume & Application writing-How to draft Resume, Techniques of writing Resume & application.-HR Questionnaire-For Internship & Job.-Speaking Skills- (Group Discussion)-Memo writing or (commercial) Report writing.
III	**Corporate Communication-** Business/Email Writing - Email-Greeting, Subject, Salutation, Body, ending (use of formal words.)-For extensive practice variety of business email scenario.-Telephone Etiquette-Do's and Donts'-Video Conferencing Etiquette-Do's and Donts' -Presentation in a Business Meeting**.**
IV	**Communicative English-** Meeting People, Exchange of Greeting and taking leave- Introduction of people to others, Describing daily routines, Communication within the peers and faculties of the college, Asking for favour& Communication in different setup(at airport ,bank etc.).
V	**Presentation Skills-** Introduction to Presentation skills- Preparation of slides, Delivering the presentation. Public speaking- How to prepare yourself, Techniques of public speaking. Ted Talk- Practice with Video.