

Detailed Program

Bachelor of Computer Applications

(BCA)

Semester-I

(2024-28)

DOC202406220004



RNB
GLOBAL UNIVERSITY
Educating stars for tomorrow

RNB GLOBAL UNIVERSITY

RNB Global City, Ganganagar Road,
Bikaner, Rajasthan 334601

OVERVIEW

RNB Global University follows Semester System along with Choice Based Credit System as per latest guidelines of University Grants Commission (UGC). Accordingly, each academic year is divided into two semesters, **Odd (July-December)** and **Even (January-June)**. Also, the university follows a system of continuous evaluation along with regular updating in course curricula and teaching pedagogy.

The curriculum for BCA for Odd Semester (July-December) 2024 along with examination pattern is as follows:

Semester –I

S. No.	Course Code	Course Category	Course Name	L	T	P	Credits
1	BCAC14100	DSC 1 (a)	Fundamentals of Programming with C	3	0	0	3
2	BCAC14101	DSC 1 (b)	Programming with C Lab	0	0	2	1
3	BCAC14102	DSC 2	Mathematics- I	3	1	0	4
4	BCAC14103	DSC 3	Software Engineering	3	1	0	4
5.		GE 1	One from the Pool of GE – Group A	3	1	0	4
6	AECH55002	AEC -1	Hindi – I	2	0	0	2
7	SEC077001	SEC -1	Ability and skill enhancement-I	2	0	0	2
8		VAC -1	One from the pool of VAC group A	2	0	0	2
9	WHNN99000		Workshops & Seminars/ Human Values & Social Service/NCC/NSS	-	-	-	1
Total				18	3	2	23

DSC – Discipline specific Course

DSE – Discipline Specific Elective

SEC – Skill Enhancement Course

VAC – Value addition course

GE – General Elective

General Electives (GEs)

S.No.	Course Code	Course Name	L	T	P	Credits
1.	GEC066001	Business Communication	4	0	0	4

Value Added Courses (VACs)

S.No.	Course Code	Course Name	L	T	P	Credits
1.	VAC088001	Electoral Literacy (VAC -1)	2	0	0	2

EVALUATION SCHEME- THEORY

The evaluation of the theory paper of BCA would be based on Internal and External Assessments. Internal Assessment would consist of 50% of the marks (50 marks) and external assessment (in form of End Term Exam) would consist of remaining 50% marks (50 marks). Detailed scheme of Internal and External Assessments as follows:

Internal Assessment

Type	Details	Marks
Mid Term	One Mid-term Sessional	25
Marks obtained in various Tests, Assignments, Presentations, Quiz, Tutorials, etc.	Average of marks obtained	20
Attendance	75% + : 5 marks	5
TOTAL	50	

External Assessment

Type	Marks
Theory	50

EVALUATION SCHEME -PRACTICAL

The evaluation of the practical paper of BCA would be based on Internal and External

Assessments. Internal Assessment would consist of 50% of the marks (50 marks) and external assessment (in form of End Term Exam) would consist of remaining 50% marks (50 marks). Detailed scheme of Internal and External Assessment is as follows:

Internal Assessment

Type	Details	Marks
Marks obtained in various manuals, practical file, participation, any model prepared, output of practical	Average of marks obtained	45
Attendance	75%+ : 5 marks	5
TOTAL	50	

External Assessment

Type	Marks
Practical	50

EVALUATION SCHEME- WORKSHOPS & SEMINARS AND HUMAN VALUES & SOCIAL SERVICE/NCC/NSS

1. The evaluation of Workshops & Seminar and Human Values & Social Service/NCC/NSS will be completed from Semester I – Semester VI. It will be evaluated internally by the various Forums & Schools Concerned. The credit for this will be given at the end of each Semester.
2. The students have to join club/clubs/Forums with the active participation in different activities of club. The students would be continuously assessed from Semester-I to Semester-IV and credits and marks would be given after the end of each Semester.

1. Vision

To create an environment where a holistic education is given in order to ignite an inquisitive mind, inculcate the qualities of excellence, perceive the intricacies of research, seek out obstacles, overcome them, and carve out a niche for oneself.

2. Mission

- Enabling students to maximize their potential and use their professional standards through ethics and education to raise their level of competence and become change agents.
- Fostering a scholarly culture that fosters the phenomenon of giving back to society via research and creative endeavors.
- To integrate partnerships that enhance knowledge in order to create a dynamic intellectual capital.
- To employ emerging technology to create an inclusive learning environment that is integrated with an improved educational process.
- To create a teaching-learning atmosphere that fosters resilience, sensitivity, and critical thinking, ultimately leading to the development of a strong personality.

3. Programme Educational Objectives (PEOs)

PEO1: To facilitate in development of basic fundamentals of Computer Applications that fit as a perfect foundation towards a beginning a professional career in industry.

PEO2: To develop programming skills of students by using fundamental knowledge of computer science.

PEO3: To apply new designs and solutions to complex real life problems using technologies.

PEO4: To play a creative role during professional life through turning problems to opportunities.

4. Program Outcomes (POs)

- P01: Technical understanding:** Solve complicated problems using mathematics, physics, technical foundations, and a specialization in technology.
- P02: Problem analysis:** Identify, formulate, analyze research materials, and analyze complex engineering problems using foundational principles of mathematics, natural sciences, and sciences to reach justifiable conclusions.
- P03: Application of modern technologies:** Create, select, and apply appropriate approaches, tools, and advanced engineering and IT tools, such as predictions and modelling, to technically challenging processes while taking into account the constraints.
- P04: Expert Principles and Cyber Systems:** The ability to use and provide expert principles and cyber systems in a global monetary environment.
- P05: Ultimate Education:** Determine the demand for and expand the capacity to work as a Computing certified in permanent education.
- P06: The expert and society:** Apply reasoning informed by contextual information to evaluate societal, health, safety, legal, and cultural issues, as well as the obligations that come with them, in the context of professional engineering activity.
- P07: Environmental and sustainable development:** Display knowledge of the need for sustainable development by identifying the implications of professional technological solutions in society and the environment contexts.
- P08: Personality and Cooperative Learning:** Ability to work as a member or manager in a variety of diverse teams.
- P09: Ethics:** Adhere to professional ethics, duties, and automotive technology norms by adopting ethical ideas.
- P010: Communication:** Interact well with the technical community and society at large on associated technical activities, such as being able to understand and write effective reports and design documentation, give and receive clear directions.
- P011: Finance and project management:** Demonstrate knowledge and understanding of technical and professional principles and apply those to one's own work, as a member of the team and leader, to manage projects and in multidisciplinary domains.
- P012: Life-long learning:** With socio-technological advancements, students will be able to engage in independent and life-long learning.

5. Program Specific Outcomes (PSOs)

PS01: Prepare for a potentially lucrative and employable profession of computer applications.

PS02: Continue your education in Computer Science/Applications.

PS03: Work for yourself in the Indian and worldwide software markets.

PS04: Comply with all applicable industrial standards.

6. Course Outcomes (COs)

1. Course Outcomes		
Course Codes & Course Names	After completion of these courses' students should be able to	
BCAC14100 - Fundamentals of Programming with C	C01	List the fundamentals of computer programming vocabulary.
	C02	Apply the concepts of Arrays and Strings in 'C' language for user defined problems. Develop software with decision structures, loops, and functions.
	C03	Apply the concept of functions and pointers.
	C04	Associate the programs with structure using 'C' language
	C05	Discuss to read and write data from/to files in 'C' Programs.
BCAC14101 - Programming with C Lab	C01	Define advanced C-language ideas to write programmed.
	C02	Apply the concept of conditionals and loops in C programs Choose C to create graphical programmers.
	C03	Develop the C programs with arrays and strings
	C04	Classify different functions, unions and pointers
	C05	Examine the use of sequential and random-access file processing
BCAC14102 - Mathematics- I	C01	Demonstrate proficiency in the subjects that make up the mathematics major's core.
	C02	Demonstrate an understanding of and ability to construct mathematical proofs.
	C03	Solve mathematical issues using appropriate technology.
	C04	Build relevant mathematical models to handle a number of actual situations.
	C05	Explain common matrix operations such as addition, scalar multiplication, multiplication, and transposition
BCAC14103- Software Engineering	C01	Relate the importance of the stages in the software life cycle.
	C02	Infer the various process models.
	C03	Develop the design software by applying the software engineering principles.
	C04	Analyse new software models, techniques and technologies to bring out innovative and novelistic solutions for the growth of the society in all aspects and evolving into their

		continuous professional development.
	C05	Enhances value and is valued by their professional teammates
GEC066001 - Business Communication	C01	Explain historical background and the development of communication; Importance and role of communication in everyday life.
	C02	Understand Mechanics behind the communication process, difficulties experienced in communication. Different types of communication, impedance due to extraneous factors called “barriers”
	C03	Apply different types of communication, impedance due to extraneous factors called “barriers”.
	C04	Analyze the Important non-verbal parameters in communication. So, to make communication effective and attractive.
	C05	Apply the appropriate body language for making presentation more effective
SEC077001 - Ability & Skill Enhancement– I	C01	Understand the relevance and method of writing impactful and structured resume.
	C02	Explain the need for right etiquettes to be followed in the professional world.
	C03	Develop confidence in public speaking and expressing their opinions and ideas clearly and effectively.
	C04	Build employability skills like critical thinking, team work, conflict management and leadership skills.
	C05	Communicate effectively in English
VAC088001- Electoral Literacy	C01	Demonstrate comprehensive knowledge of the Indian electoral system, including the Election Commission’s structure, powers, and functions. Explain the process of voter registration, constituency delimitation, and the recognition of political parties.
	C02	Explain the step-by-step electoral process, including nomination filing, security deposit, campaign regulations, and the Model Code of Conduct. Evaluate the role of election officials and the significance of EVM and VVPAT systems in ensuring fair elections.
	C03	Identify key shortcomings in the electoral system and assess various reforms aimed at improving electoral transparency, voter participation, and accountability.
	C04	Apply knowledge of SVEEP initiatives to promote informed voting. Engage with electoral literacy platforms such as ELC, Chunav Pathashala, and VAF to enhance public awareness of ethical voting practices.

	C05	Implement voter registration drives, social media campaigns, and awareness programs to promote electoral participation. Lead initiatives like setting up Electoral Literacy Clubs, observing Voter Awareness Forums, and conducting surveys to encourage voter engagement and fair electoral practices.
AECH55002 – Hindi -I	C01	हिंदी भाषा के मूल इतिहास और उसकी हलहि देवनागरी को समझाने में
	C02	हिंदी शब्द की उत्पत्ति, अर्थ और प्रयोग समझाने में
	C03	हिंदी लिपि के विकास को समझाने में सक्षम
	C04	हिंदी भाषा की सभी प्रकार की बोलियों को सूचीबद्ध करने में
	C05	देवनागरी की विशेषताएँ एवं लिपि की हिहशष्टता समझाने में

7.CO PO Mapping

BCAC14100	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01	3	2	1	3	2	1	-	3		3	2	2
C02	2	-	3	1	2	3	2		2	2	1	3
C03	3	3	3	2	-	3	2	-	3	1	2	2
C04	-	3	-	3	3	2	1	2	3	-	2	3
C05	2	-	2	-	3	3	3	3	-	-	-	-

BCAC14101	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01	2	3	3	1	-	3	3	2	1	-	2	2
C02	3	3	3	-	3	2	1	3		-	3	3
C03	-	3	3	3	2	2	1	-	3	-	2	3
C04	3	2	2	-	2	1	-	3	2	-	2	1
C05	3	-	3	3	3	-	3	-	3	-	-	3

BCAC14102	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01	3	2	2	-	2	1	-	3	2	-	2	1
C02	2	-	3	1	2	3	2	-	2	2	1	3
C03	3	3	3	-	3	2	1	3	-	-	3	3
C04	3	2	1	3	2	1		3	-	3	2	2
C05	-	3	-	3	-	3	3	-	3	3	-	-

BCAC14103	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01	2	3	3	-	3	-	3	-	3	2	2	3
C02	2	-	2	3	2	2	2	3	-	-	2	3
C03	2	2	2	2	2	3	3	1	3	3	3	3
C04	1	3	1	-	-	-	2	2	2	1	-	3
C05	-	3	3	3	-	3	3	3	-	3	3	-

GEC066001	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01	2	3	3	3	3	2	2	3	1	2	-	3
C02	-	2	3	3	2	1	-	-	2	2	-	3
C03	2	-	1	3	3	2	-	3	2	-	2	3
C04	2	1	2	2	1	-	-	-	-	2	2	1
C05	3	2	3	2	3	-	-	2	-	2	2	2

AECH55002	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01		2	3	3	2	2	3	3	3	2	3	3
C02	2	2	2	2	2			3	2	3		3
C03		3	3	2		3	3		3	2	3	3
C04	3	2		2	2	3	3	3	2	2	2	2
C05	2	3	2	3	2	3	2	3	2		2	3

VAC088001	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01		2	3	3	2	3	3	3	3	2	3	3
C02	2	2	2	2	2	2		3	2	3	2	3
C03		3	3	2		3	3		3	2	3	3
C04	3	2	2	2	2		3	3	2	2	2	2
C05	2	3	2	3	2	3	2	3	2		2	3

WHNN99000	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01	3	3	2	-	3	-	2	3	2	-	3	
C02	2	3	3	3	-	2	2	2	3	2	-	3
C03	2	3	2	3	1	-	-	-	2	3	2	1
C04	2	1	3	2	3	-	-	2	3	-	3	2
C05	3	3	3	3	3	3	3	3	3	3	3	3

SEC077001	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012
C01	3	3	3	1	-	3	3	3		3	3	3
C02	3	2	2	1	1		3	3	3	3	3	2
C03	3	2	3	2	3	3	-	-	3	2	2	3
C04	2	3	3	-	2		3	1	2	-	-	2
C05	-	3	3	3	-	3	-	3	2	3	3	-

Course Name: Fundamentals of Programming with C

Course Code: BCAC14100

Objectives

- To be able to build own logic for a given problem and finally develop one's own programs.
- To understand the syntax and the semantics of C programming language.

Course Outline

Unit I

C basics, C character set, Identifiers and keywords, Data types, constants, variables and arrays, declarations, expressions statements, symbolic constants, compound statements, arithmetic, operators, unary operators, relational and logical operators, assignment operators, conditional, operators, bit operators .C constructs: If statement, if....else statement, if.....else if....else statement, while statement, do....while statement, for statement, switch statement, nested control statement, break operator, continue operator, comma operator, go to statement.

Unit II

C Functions: Functions: declaration, definition & scope, recursion, call by value, call by reference. Storage Classes: automatic, external (global), static & registers.

Unit III

Arrays: Arrays, pointers, array & pointer relationship, pointer arithmetic, dynamic memory allocation, pointer to arrays, array of pointers, pointers to functions, array of pointers to functions, Pre-processor directives: #include, #define, macro's with arguments, the operators #and ##, conditional compilations.

Unit IV

Structures: Structures, unions, passing structure to functions, bit fields, file handling [text(ASCII), binary]

Unit V

String manipulation functions and other standard library functions from stdio.h, stdlib.h, conio.h, ctype.h, math.h, string.h, process.h. Usage of command line arguments.

Suggested Readings:

1. Ashok N. Kamthane, "Computer Basics and C Programming", Pearson Education.
2. E. Bala Guruswamy, "Programming in ANSI C", 2008.
3. V Rajaraman, "Computer Basics and C Programming", PHI.
4. Herbert Schildt, "C The Complete Reference" Fourth Edition, 2000.
5. Yashwant Kanetkar, "Let us C" eighth edition, 2002.
6. Kernighan and d. Ritchie, "The ANSI C Programming Language", 2000.
7. Stephenn Prata, "C Primer Plus" Fourth Edition, 2001.
8. Schaum's Outline Series, "Programming with C", 2nd Edition, 1996.

Course Name: Programming with C Lab**Course Code: BCAC14101****Objective**

- To learn problem solving through procedural language programming technique and
- Understand fundamentals of programming such as variables, conditional and iterative execution, methods, etc

Course Outline**List of Lab Experiments:**

Sr.No	Name of the program
1.	C programming basics & structure of C programs
2.	Program to find area of circle.
3.	Program to find Simple Interest.
4.	Program to perform Arithmetic operations
5.	Program to find area of a triangle using three sides
6.	Program to find the largest of three numbers.
7.	Program to perform the Sum of N natural numbers.
8.	Program to find day of the week.
9.	Program to perform factorial of a given number.
10.	Program to find the given number is palindrome or not.
11.	Program to reverse the given number.
12.	Program to find the given character is vowel or not.
13.	Program Compute Their Sum Using Function Add nums ()
14.	Program to Illustrate Passing Array as An Argument To A Called Function.
15.	Program to Illustrate A Call by Value Parameter Passing Mechanism

16. Program to Compute Its Factorial By Recursive Function
17. Program to Accept the Information of A C_Book Such As Number, Author, Publisher And Price And Also Display It.
18. Program to Illustrate The Call_By_Value Method To Interchange The Contents Of Two Integer Variable
19. Program to Create A File Called Emp. Rec And Store Information About Person, In terms Of His Name, Age And Salary
20. Program to Illustrate The Function fputc () And fputs () To Write A Single Character And String To A Data File

Course Name: Mathematics-I

Course Code: BCAC14102

Objective

- To get the knowledge about the matrices, determinants and limits.
- To study the basics of differential and integral calculus

Course Outline

Unit I: Determinants

Definition, Minors, Cofactors, Properties of Determinants MATRICES: Definition, Types of Matrices, Addition, Subtraction, Scalar Multiplication and Multiplication of Matrices, Adjoint, Inverse, Cramers Rule, Rank of Matrix Dependence of Vectors, Eigen Vectors of a Matrix, Cayley-Hamilton Theorem (without proof).

Unit II: Limits & Continuity

Limit at a Point, Properties of Limit, Computation of Limits of Various Types of Functions, Continuity at a Point, Continuity Over an Interval, Intermediate Value Theorem, Type of Discontinuities.

Unit III: Differentiation

Derivative, Derivatives of Sum, Differences, Product & Quotients, Chain Rule, Derivatives of Composite Functions, Logarithmic Differentiation, Rolle's Theorem, Mean Value Theorem, Expansion of Functions (Maclaurin's & Taylor's), Indeterminate Forms, L' Hospitals Rule, Maxima & Minima, Curve Tracing, Successive Differentiation & Leibnitz Theorem.

Unit IV: Integration

Integral as Limit of Sum, Fundamental Theorem of Calculus(without proof.), Indefinite

Integrals, Methods of Integration Substitution, By Parts, Partial Fractions, Reduction Formulae for Trigonometric Functions, Gamma and Beta Functions(definition).

Unit V: Vector Algebra

Definition of a vector in 2 and 3 Dimensions; Double and Triple Scalar and Vector Product and physical interpretation of area and volume.

Suggested Readings:

1. B.S. Grewal, "Elementary Engineering Mathematics", 34th Ed., 1998.
2. Shanti Narayan, "Integral Calculus", S. Chand & Company, 1999
3. H.K. Dass, "Advanced Engineering Mathematics", S. Chand & Company, 9th Revised Edition, 2001.

Course Name: Software Engineering

Course Code: BCAC14103

Objectives

- To provide the knowledge regarding the software requirement process, designing process, testing and coding process so that students should get to know that how we are developing a complete software.

Course Outline

Unit I: Introduction

Introduction to Software Engineering, importance of Software, The Software Evolution, Software Characteristics, Software Applications, Software Crisis: Problem and Causes

Software Development Life Cycle: Waterfall model, Incremental and Evolutionary process models, Personal Software process (PSP) and Team Software process (TSP), Overview of agile process and aspect-oriented programming

Unit II: Software Requirement Specification

Problem Analysis, Requirement elicitation and Validation, Requirements modeling: Scenarios, Information and analysis classes, flow and behavioral modeling, documenting Software Requirement Specification (SRS).

System Design: Design Concepts, design models for architecture, component, data and user interfaces; Problem Partitioning, Abstraction, Cohesiveness, Coupling, Top Down and Bottom Up design approaches; Functional Versus Object Oriented Approach, Design Specification, 4GL.

Unit III: Coding

TOP-DOWN and BOTTOM-UP structure programming, Information Hiding, Programming Style, and Internal Documentation, Verification. Software Testing: Levels of Testing, Functional Testing, Structural Testing, Test Plan, Test Case Specification, Software Testing Strategies, Verification & Validation, Unit, Integration Testing, Top Down and Bottom Up Integration Testing, Alpha & Beta Testing, White box and black box testing techniques, System Testing and Debugging.

Software Quality Assurance: Software Configuration Management, Overview of Software Quality Control and Quality Assurance, ISO 9000 Certification for Software Industry, SEI Capability Maturity Model (CMM) and Comparison between ISO & SEI CMM.

Unit IV: Technical Metrics for Software

A Framework for Technical Software Metrics, Metrics for the Analysis Model, Metrics for Design Model, Metrics for Source Code, Metrics for Testing, Metrics for Maintenance.

CASE (Computer Aided Software Engineering): CASE and its Scope, CASE support in Software Life Cycle, Documentation Support, Architecture of CASE Environment. Exposure to CASE tools like Rational Software suit, Turbo Analyst, Silk Suite.

Suggested Readings:

1. Roger S. Pressman, Software Engineering, A Practitioner's Approach, McGraw Hill International Edition (2009) 7th edition.
2. Ian Sommerville, Software Engineering, Addison-Wesley Publishing Company, (2006) 8th ed.
3. Watts Humphery, A discipline for Software Engineering, Addison Wesley, Massachusetts (1995).
4. James F. Peter, Software Engineering - An Engineering Approach, John Wiley (2004).
5. Pankaj Jalote, An integrated Approach to Software Engineering, Narosa (2005).

Course Name: Business Communication

Course Code: GEC066001

Objectives:

- To equip students of the BCA course effectively to acquire skills in reading, writing, comprehension and communication, as also to use electronic media for business communication.
- To provide an overview of the various business communication skills and groom students professionally.

Course Outline

Unit I: Nature of Communication

Process of Communication, Types of Communication (Verbal & Non-Verbal), Importance of Communication, Different forms of Communication Barriers to Communication Causes, Linguistic Barriers, Psychological Barriers, Interpersonal Barriers, Cultural Barriers, Physical Barriers, Organizational Barriers.

Unit II: Business Correspondence

Letter Writing, presentation, Inviting quotations, Sending quotations, Placing orders, Inviting tenders, Sales letters, claim & adjustment letters and social correspondence, Memorandum, Inter -office Memo, Notices, Agenda, Minutes, Job application letter, preparing the Resume.

Unit III: Report Writing

Business reports, Types, Characteristics, Importance, Elements of structure, Process of writing, Order of writing, the final draft, check lists for reports.

Unit IV: Vocabulary

Words often confused Words often misspelt, common errors in English.

Unit V Oral Presentation: Importance, Characteristics, Presentation Plan, Power point presentation, Visual aids.

Suggested Readings:

1. Bovee, and Thill, Business Communication Today, Pearson Education.
2. Lesikar, R.V. & Flatley, M.E. Kathryn Rentz; Business Communication Making. Connections in Digital World, 11th ed., McGraw Hill Education.
3. Shirley Taylor, Communication for Business, Pearson Education.
4. Locker and Kaczmarek, Business Communication: Building Critical Skills, TMH.

Course Name: Hindi I

Course Code: AECH55002

Course Outlines:

हिंदी भाषा और उसकी लिपि का इतिहास

ईकाई-1 : हिंदी भाषा के विकास की पूर्वपीठिका

- भारोपीय भाषा-परिवार एवं अर्थभाषाएँ (संस्कृत, पालि, प्राकृत, अपभ्रंश आदि)
- हिंदी का आरंभिक रूप
- 'हिंदी' शब्द का अर्थ एवं प्रयोग
- हिंदी का विकास (आदिकाल, मध्यकाल, आधुनिककाल)

ईकाई-2 : हिंदी भाषा का क्षेत्र एवं विस्तार

- हिंदी भाषा : क्षेत्र एवं बोलियाँ
- हिंदी के विविध रूप (बोलचाल की भाषा, राष्ट्रभाषा, राजभाषा, संपर्क-भाषा, संचार भाषा)
- हिंदी का अखिल भारतीय स्वरूप
- हिंदी का अंतर्राष्ट्रीय संदर्भ

ईकाई-3 : लिपि का इतिहास

- भाषा और लिपि का अंतःसंबंध
- परिभाषा, स्वरूप एवं आवश्यकता
- लिपि के आरंभिक रूप (चित्रालिपि, भावलपि, ध्वनि-लिपि)
- भारत में लिपि का विकास

ईकाई-4 : देवनागरी लिपि

- देवनागरी लिपि का परिचय एवं विकास
- देवनागरी लिपि का मानकीकरण
- आदर्श लिपि के गुण और देवनागरी लिपि की विशेषताएँ
- देवनागरी लिपि और कम्प्यूटर

सहायक ग्रंथ

- हिंदी भाषा का इतिहास . धीरेंद्र वर्मा
- भारतीय पुरालिपि . डॉ. रामबलि पाण्डेय (लोकभारती प्रकाशन)
- हिंदी भाषा का उद्गम और विकास . उदयनारायण तिवारी
- हिंदी भाषा की पहचान से प्रतिष्ठा तक . डॉ. हनुमानप्रसाद शुक्ल
- लिपि की कहानी . गुणाकर मुले
- भाषा और समाज . रामविलास शर्मा

Course Name: Ability & Skill Enhancement I

Course Code: SEC077001

Objective

To sensitize students to the nuances of the four basic communication skills – Listening, Speaking, Reading and Writing.

- To enable students to convert the conceptual understanding of communication into everyday practice. Besides making English Learning an interesting activity, the curriculum aims to develop and enhance creativity of the students.

Course Outline - Final Assessment – Written Paper

Unit I: Ice Breaking Session & Recap of Language Skills

Ice Breaking Session, Phrase, Clause, Sentence, Word Classes (Parts of Speech).

Unit II: Recap of Language Skills

Tenses (Present, Past Future), Modals, Articles (a, an, the).

Unit III: Reading Skills & Fluency Building

Reading Process, Importance & Types of Reading, Techniques of Reading, and Strategies to Improve Reading Abilities, Comprehension, Reading Aloud, Reading News.

Unit IV: Writing Skills

Generating ideas/gathering data, organizing ideas, Note taking, Outlining, drafting, Editing, and Proof Reading, Story Writing (through pictures/videos), Dialogue Writing, Email Writing.

Unit V: Listening & Speaking Skills

Types and Essentials of good listening, Listening Process, Barriers to Listening and Strategies to improve Listening, Listening to Inspirational Movies/Clips, Listening News Techniques of Effective Speaking, Introducing Oneself and others, Extempore, Situational Conversations (Practicing Short Dialogues).

Course Name: Electoral Literacy

Course Code: VAC088001

Objectives:

- To understand the nature of Indian democracy and the main features of the Electoral System in India.
- To know the role of the Election Commission of India and the office of the CEO.
- To search various platforms instituted by ECI for increasing voter registration, voting percentage, and strengthening democracy.

Course Outline:

Unit I: Understanding the electoral system & processes

- a. Main Features of the Indian Electoral System; Election Commission of India, Composition, Tenure and Removal, Powers and Functions of The Election Commission, Delimitation of Constituencies, Preparation of Electoral Rolls, Recognition of Political Parties, Allotment of Symbol. Officers on Election Duty; Returning Officer, Presiding Officers, Polling Officers.
- b. Voter registration (Enrolment)/ Special Summary Revision
- c. Electoral Processes; Notification for Election, Filing of Nomination, Security Deposit, Scrutiny and Withdrawal, Election Campaign,
- d. Model Code of Conduct, Scrutinization of Expenses, Polling, Counting and Declaration of Result, Re-poll, Countermanding of Election
- e. Journey from ballot paper to EVM & VVPAT
- f. Shortcomings of the Indian Electoral System, Electoral Reforms

Unit II: SVEEP (Systematic Voter's Education and Electoral Participation): Process & Philosophy

- a. Ethical & informed voting
- b. Electoral literacy platforms: ELC, Chunav Pathashala & VAF
- c. Challenges & initiatives for strengthening democracy

Unit III will consist of any of the following projects/ assignments

- a. To register at least 25 eligible voters in their respective constituencies
- b. To aware voters of the deletion of names from voters' lists to update the voters' list and help them fill up the application form for the same in person (25 voters).
- c. Creating posts on social media for advertising voter registration in the electoral roll, deletion/ corrections in the voters' lists, special summary revision programs
- d. Creating and actively leading the Electoral Literacy Club in their colleges, organizing programs on issues related to elections, ethical voting, and democratic empowerment.
- e. Leading initiatives on fair poll at the college level.
- f. Organize programs related to elections, ethical voting, etc. in coordination with the BLOS of the respective areas.

- g.** To observe and inspect whether a Voter Awareness Forum has been set up at Government offices, NGOs, and Corporate companies in the respective areas.
- h.** To conduct surveys in villages/ localities/ housing societies on registration of voters and encourage registration process/ help with the updates in voters' lists.

Suggested Readings:

1. "Electoral Literacy: A Comparative Study" by Rajni Kant Pandey, published by Mittal Publications
2. "Electoral Literacy for Citizens" by ECI, published by Election Commission of India
3. "Democracy and Election Laws" by V.S. Rama Devi, published by Asia Law House

8. Lesson Plans

BCAC14100- Fundamentals of Programming with C

Unit	Particulars	Class No.	Pedagogy of Class
Unit- I	C basics, C character set	C-1	Lecture
Unit- I	Identifiers and keywords, Data types	C-2	Lecture
Unit- I	constants, variables and arrays	C-3	Lecture
Unit- I	declarations, expressions statements, symbolic constants , compound statements	C-4	Lecture
Unit- I	arithmetic, operators, unary operators, relational and logical operators,	C-5	Lecture
Unit- I	assignment operators, conditional, operators, bit operators.	C-6	Lecture
Unit- I	C constructs: If statement, if.... else statement, if.....else if....else statement	C-7	Lecture
Unit- I	C constructs: If statement, if.... else statement, if.....else if....else statement	C-8	Lecture
Unit- I	while statement, do.... while statement,	C-9	Lecture
Unit- I	while statement, do.... while statement,	C-10	Lecture
Unit- I	For statement, switch statement	C-11	Lecture
Unit- I	Home Assignment		Home Assignment
Unit- I	For statement	C-12	Lecture
Unit- I	switch statement	C-13	Lecture
Unit- I	nested control statement, break operator,	C-14	Lecture
Unit- I	Continue operator, comma operator	C-15	Lecture
Unit- I	Tutorial	C-16	Lecture
Unit- I	go to statement.	C-17	Lecture
Unit- I	Lab based Mini Project	C-18	Lecture
	Class room Assignment	C-19	Class room Assignment
	Clarification Class	C-20	Clarification Class
Unit -II	C Functions:	C-21	Lecture
Unit -II	Functions: declaration	C-22	Lecture
Unit -II	definition & scope, recursion	C-23	Lecture
Unit -II	call by value, call by reference.	C-24	Lecture
Unit -II	Storage Classes: automatic, external (global),	C-25	Lecture
Unit -II	static & registers; Recursion	C-25	Lecture
Unit -II	Presentations	C-26	Lecture
Unit -II	Class Room Assignment	C-27	Class room Assignment
	Clarification Class	C-28	Clarification Class

Unit -III	Arrays: Arrays	C-29	Lecture
	Home Assignment		Home Assignment
Unit -III	Pointers	C-30	Lecture
Unit -III	Pointers	C-31	Lecture
Unit -III	array & pointer relationship	C-32	Lecture
Unit -III	pointer arithmetic, dynamic memory allocation,	C-33	Lecture
Unit -III	pointer to arrays	C-34	Lecture
Unit -III	array of pointers	C-35	Lecture
Unit -III	pointers to functions	C-36	Lecture
Unit -III	pointers to functions	C-37	Lecture
Unit -III	array of pointers to functions,	C-38	Lecture
Unit -III	Pre-processor directives: #include	C-39	Lecture
Unit -III	Pre-processor directives: #define	C-40	Lecture
Unit -III	macro's with arguments	C-41	Lecture
Unit -III	the operators # and ##, conditional compilations	C-42	Lecture
	Clarification Class	C-43	Clarification Class
	Presentations	C-44	Presentations
Unit-IV	Structures: Structures	C-45	Lecture
Unit-IV	Structures: Structures	C-46	Lecture
Unit-IV	Unions	C-47	Lecture
Unit-IV	passing structure to functions	C-48	Lecture
Unit-IV	bit fields,	C-49	Lecture
Unit-IV	File handling [text(ASEII), binary]	C-50	Lecture
Unit-IV	File handling [text(ASEII), binary]	C-51	Lecture
	Home Assignment		Home Assignment
	Class Room Assignment	C-52	Class Room Assignment
	Clarification Class	C-53	Clarification Class
Unit-V	String manipulation functions and	C-54	Lecture
Unit-V	other standard library functions from stdio.h stdlib.h, conio.h	C-55	Lecture
Unit-V	ctype.h,	C-56	Lecture
Unit-V	math.h, string.h, process.h	C-57	Lecture
Unit-V	Usage of command line arguments	C-58	Lecture
Unit-V	Usage of command line arguments	C-59	Lecture
	Clarification	C-60	Clarification

BCAC14101– Programming with C Lab

S. No.	Particulars	Class No.	Pedagogy of Class
1.	Write a program sum of two numbers	P-1,2	Practical/Demo
2.	Write a program to check either the number is even or odd	P-3,4	Practical/Demo
3.	Write a program calculate simple interest.	P-5,6	Practical/Demo
4.	Write a program to calculate the marks of four subject and percentage	P-7,8	Practical/Demo
5.	Write a program to check either the year is leap year or not.	P-9,10	Practical/Demo
6.	Write a program to find out the grade using if/elseif statement.	P-11,12	Practical/Demo
7.	Write a program to find out the greater Number between two number.	P-13,14	Practical/Demo
8.	WAP to read base and height of a triangle, calculate the area using formula: i. Area =1/2*base*height; CIRCLE Area=PI*(R*R);SQUARE = SIDE*SIDE;	P-15,16	Practical/Demo
9.	WAP to read marks obtained and maximum marks of a student and calculate its percentage and display it.	P-17,18	Practical/Demo
10.	Write a program to print even number up to n.	P-19,20	Practical/Demo
11.	Write a program to print odd number up to n.	P-21,22	Practical/Demo
12.	Write a program to print table.	P-23,24	Workshop
13.	Workshop	P-25,26	Practical

BCAC14102- Mathematics-I

Unit	Particulars	Class No.	Pedagogy of Class
Unit-I	Determinant -Definition with Example	C-1	Lecture
Unit-I	Minors and Cofactors with Example and Properties of Determinant	C-2,3	Lecture
Unit-I	Matrice And Types of Matrices with	C-4,5	Lecture
Unit-I	Types of Matrices	C-6	Lecture
Unit-I	Addition, Subtraction And	C-7	Lecture
Unit-I	Multiplication of Matrices with Example	C-8	Lecture
Unit-I	Adjoint And Inverse of Matrix with Example	C-9	Lecture
Unit-I	Cramer's Rule Dependence	C-10	Lecture
Unit-I	Independence of Matrix with Example	C-11	Lecture
Unit-I	Rank of Matrix and Eigen Value and Eigen Vectors with Example	C-12	Lecture
Unit-I	Cayley-Hamilton Theorem with Example	C-13	Lecture
	Class Room Assignment	C-14	Class Room Assignment
	Quiz	C-15	Quiz
	Clarification Class	C-16	Clarification Class
Unit-II	Limit at A Point and Properties of Limit	C-17,19	Lecture
Unit-Ii	Computation of Limits of Various Types of Function	C-20,21	Lecture
Unit- II	Continuity at A Point and Continuity Over an Interval	C-22,24	Lecture
Unit- II	Intermediate Value Theorem	C-25,26	Lecture
Unit-II	Types Of Discontinuities	C-27,28	Lecture
Unit-II	Derivative Of Sum, Difference	C-29	Lecture
Unit-II	Clarification Class	C-30	Clarification Class
Unit-III	Derivative, Product And Quotient, Chain Rule.	C-31,33	Lecture
Unit-III	Derivative Of Composite Function,	C-34	Lecture
Unit-III	Logarithmic Differentiation.	C-35	Lecture
Unit-III	Rolle's Theorem	C-36	Lecture
Unit-III	Presentation	C-37	Presentation
Unit-III	Mean Value Theorem	C-38	Lecture
Unit-III	Expansion Of Function	C-39	Lecture
Unit-III	Maclaurin's Theorem And Taylor's Theorem.	C-40	Lecture
Unit-III	Indeterminate Forms	C-41	Lecture
Unit-III	L' Hospital Rule,	C-42	Lecture
Unit-III	Maxima And Minima	C-43	Lecture
	Class room Assignment	C-44	Class room Assignment
Unit-III	Curve Tracing, Successive Differentiation And	C-45	Lecture
Unit-III	Leibnitz Theorem.	C-46	Lecture

	Home Assignment		Home Assignment
Unit-III	Clarification Class	C-47	Clarification Class
Unit-IV	Integral as Limit Of Sum	C-48	Lecture
Unit-IV	Presentation	C-49	Presentation
Unit-IV	Fundamental Theorem of Calculus (Without Proof)	C-50	Lecture
Unit-IV	Indefinite Integrals and Method Of Integration Substitution by Parts and Substitution Rule	C-51	Lecture
Unit-IV	Reduction Formulae for Trigonometric Function, Beta and Gamma	C-52	Lecture
Unit-IV	Home Assignment		Home Assignment
Unit-IV	Function (Definition) Definition of Vector In Two And Three Dimensions	C-53	Lecture
Unit-IV	Clarification Class	C-54	Clarification Class
Unit-V	Double and Triple Scalar	C-55	Lecture
Unit-V	Double and Triple Scalar and Vector Product	C-56	Lecture
	Class Room Assignment	C-57	Class Room Assignment
	Quiz	C-58	Quiz
Unit-V	Physical Interpretation Of Area And Volume	C-59	Lecture
Unit -V	Clarification Class	C-60	Clarification Class

BCAC14103– Software Engineering

Unit	Particulars	Class No.	Pedagogy of Class
Unit- I	Introduction to Software Engineering, importance of Software	C-1	Lecture
Unit- I	The Software Evolution, Software Characteristics	C-2	Lecture
Unit- I	Software Applications, Software Crisis: Problem and Causes	C-3	Lecture
Unit- I	Software Development Life Cycle: Waterfall model,	C-4	Lecture
Unit- I	Incremental	C-5	Lecture
Unit- I	Evolutionary process models	C-6	Lecture
Unit- I	Evolutionary process models	C-7	Lecture
Unit- I	Personal Software process (PSP)	C-8	Lecture
Unit- I	Team Software process (TSP)	C-9	Lecture
Unit- I	Overview of agile process, Aspect oriented programming	C-10	Lecture
Unit- I	Clarification Class	C-11	Lecture
	Class Assignment	C-12	Clarification Class
	Presentation	C-13	Presentation
Unit -II	Software Requirement Specification & System Design, Problem Analysis	C-14	Lecture
Unit -II	Requirement elicitation and Validation	C-15	Lecture
Unit -II	Requirements modelling: Scenarios, Information and analysis classes	C-16	Lecture
	Home Assignment		Home Assignment
Unit -II	Guest Lecture	C-17	Guest lecture
Unit -II	Flow and behavioral modelling	C-18	Lecture
Unit -II	Documenting Software Requirement Specification (SRS)	C-19	Lecture
Unit -II	System Design: Design Concepts, design models for architecture	C-20	Lecture
Unit -II	Component, Data and user interfaces, Problem Partitioning	C-21	Lecture
Unit -II	Abstraction, Cohesiveness	C-22	Lecture
Unit -II	Coupling, Top Down	C-23	Lecture
Unit -II	Bottom Up design approaches	C-24	Lecture
Unit -II	Functional Versus Object Oriented Approach	C-25	Lecture
Unit -II	Design Specification, 4GL	C-26	Lecture
	Clarification Class	C-27	Clarification Class
	Class Room Assignment	C-28	Class Assignment
	Home Assignment		Home Assignments

Unit-III	Coding, Software Testing & Quality Assurance, Top-Down And Bottom-Up structure Programming	C-29	Lecture
Unit-III	Information Hiding, Programming Style	C-30	Lecture
Unit-III	Internal Documentation, Verification	C-31	Lecture
Unit-III	Software Testing: Levels of Testing	C-32	Lecture
Unit-III	Functional Testing, Structural Testing	C-33	Lecture
Unit -III	Test Plan, Test Case Specification	C-34	Lecture
Unit- III	Webinar	C-35	Webinar
Unit- III	Software Testing Strategies, Verification & Validation	C-36	Lecture
Unit-III	Unit, Integration Testing, Top Down and Bottom Up Integration Testing	C-37	Lecture
Unit-III	Class Room Assignment	C-38	Class Assignment
Unit-III	Guest Lecture	C-39	Guest lecture
Unit-III	Alpha & Beta Testing, White box and black box testing techniques	C-40	Lecture
Unit-III	System Testing and Debugging	C-41	Lecture
Unit-III	Software Quality Assurance: Software Configuration Management	C-42	Lecture
Unit-III	Overview of Software Quality Control and Quality Assurance	C-43	Lecture
Unit-III	ISO 9000 Certification for Software Industry	C-44	Lecture
Unit-III	Capability Maturity Model (CMM) and Comparison between ISO & SEI CMM	C-45	Lecture
	Clarification Class	C-46	Clarification Class
	Presentation	C-47	Presentation
	Activity	C-48	Activity
	Seminar	C-49	Seminar
	Home Assignment		Home Assignments
Unit-IV	Technical Metrics for Software & CASE Tools, A Framework for Technical Software Metrics	C-50	Lecture
Unit-IV	Metrics for the Analysis Model, Metrics for Design Model	C-51	Lecture
Unit-IV	Metrics for Source Code, Metrics for Testing, Metrics for Maintenance.	C-52	Lecture
Unit-IV	Case (Computer Aided Software Engineering): Case And Its Scope	C-53	Lecture
Unit-IV	Webinar	C-54	Webinar
Unit-IV	Case Support in Software Life Cycle, Documentation Support	C-55	Lecture
Unit-IV	Architecture of Case Environment	C-56	Lecture
Unit-IV	Exposure to Case Tools Like Rational Software Suit	C-57	Lecture
Unit-IV	Turbo Analyst, Silk Suite	C-58	Lecture

	Clarification Class	C-59	Clarification Class
	Quiz	C-60	Quiz

GEC066001- Business Communication

Unit	Particulars	Class No.	Pedagogy of Class
Unit-I	Business Communication and its nature	C-1	Lecture
Unit-I	Communication definition	C-2	Lecture
Unit-I	Types of Communication	C-3	Lecture
Unit-I	Types of communication verbal and nonverbal	C-4	Lecture
Unit-I	Types of communication Non-Verbal and verbal	C- 5	Discussion
Unit-I	Types of communication verbal and nonverbal	C- 6	Lecture
Unit-I	Different forms of communications	C- 7,8	Lecture
Unit-I	Forms of communications	C-9	Lecture
Unit-I	Organizational barriers	C -10,11	Lecture
Unit-I	Communication Barriers	C -12,13	Lecture
Unit-I	Linguistic barriers, cultural Barriers	C- 13	Lecture
Unit-I	Physical barriers, Organizational barriers	C- 14	Activity
Unit-I	Clarification class	C- 15	Clarification class
Unit-II	Quiz	C- 16	Quiz
Unit-II	Class Assignment	C -17	Class Assignment
Unit-II	Presentation of Business letter writing	C -18,19	Lecture
Unit-II	format of sales letters	C -20	Lecture
Unit-II	how to write sales letters	C -21,22	Lecture
Unit-II	Assignments on sales letters	C -23	Lecture
Unit-II	Notices	C -24	Lecture
Unit-II	Home Assignment	C- 25	Home Assignment
Unit-II	Job Application letter	C -26	Lecture
Unit-II	Job Application letter	C- 27	Lecture
Unit-II	Job Application letter assignment	C -28	Lecture
Unit-II	How to prepare Resume	C -29,30	Lecture
Unit-II	Resume preparation	C -31,32	Lecture
Unit-III	Format of Report writing	C- 33	Lecture
Unit-III	Business report writing	C- 34	Lecture
Unit-III	Types and characteristic of report writing	C -35	Lecture
Unit-III	Assignment on Report writing	C- 36	Lecture
Unit-III	Vocabulary words often confused	C- 37	Lecture
Unit-III	Vocabulary words often confused assignment	C- 38,39	Lecture
Unit-III	Words often misspelt	C- 40,41	Lecture
Unit-III	Common errors in English	C- 42,43	
Unit-III	Quiz	C- 44	Quiz
Unit-III	Clarification	C- 45	Clarification
	Home Assignment		Home Assignment
Unit-IV	Oral presentation importance	C-46,47	Lecture
Unit-IV	Oral presentation importance	C-48,49	Lecture
Unit-IV	Characteristics of oral presentation	C-46,47	Lecture

Unit-IV	Characteristics of oral presentation	C-48	Lecture
Unit-IV	Presentation plan	C-49,50	Lecture
Unit-IV	Power point presentation	C-50,51	Lecture
Unit-IV	Class room Assignment	C-52,53	Class room Assignment
Unit-IV	Assignment	C-54,55	Lecture
Unit-IV	Lecture	C-56,57	Lecture
Unit-IV	Visual aids	C-59,58	Lecture
Unit-IV	Clarification	C-60	Clarification

SEC077001– Ability & Skill Enhancement – I

S. No.	Particulars	Class No.	Pedagogy of Class
Unit-I	Ice Breaking Session: Introduction to ASE, Introduction and overview of the course	C-1	Lecture
Unit-I	Phrase, Clause, Sentence, Word Classes (Parts of Speech)	C-2	Lecture
Unit-I	Word Classes (Parts of Speech)	C-3	Lecture
Unit-II	Tenses - Present Tense	C-4	Lecture
Unit-II	Present Tenses: Written & spoken exercise	C-5	Activity
Unit-II	Tenses – Past Tense	C-6	Lecture
Unit-II	Take Home Assignment	C-7	Take Home Assignment
Unit-II	Past Tenses: Written & spoken exercise	C-8	Activity
Unit-II	Tenses – Future Tense	C-9	Lecture
Unit-II	Future Tenses: Written & spoken exercise	C-10	Lecture
Unit-II	Modals & Exercises	C-11	Activity
Unit-II	Articles: Exercise	C12	Activity
Unit-II	Quiz	C-13	Activity
Unit-III	Reading Skills: Reading Process, Importance & Types of Reading, Techniques of Reading, and Strategies to Improve Reading Abilities	C-14	Activity
Unit-III	Reading aloud, Reading News, Reading Comprehension	C-15	Activity
Unit-III	Clarification Class	C-16	Clarification Class
Unit-IV	Writing Skills: Generating ideas/gathering data, organizing ideas, Note taking, Outlining, drafting, Editing, and Proofreading,	C-17	Activity
Unit-IV	Presentation	C-18	Activity
Unit-IV	Story Writing (through pictures/videos)	C-19	Lecture
Unit-IV	Email Writing	C-20	Activity
Unit-IV	Dialogue Writing, News Writing	C-21	Activity
Unit-IV	Presentation	C-22	Presentation
Unit-V	Types and Essentials of good listening, Listening Process, Barriers to Listening and Strategies to improve Listening	C-23	Activity
Unit-V	Listening to Inspirational Movies/Clips/Listening News	C-24	Activity
Unit-V	Techniques of Effective Speaking	C-25	Lecture
Unit-V	Class Room Assignment	C-26	Activity
Unit-V	Introducing Oneself and others Situational Conversations (Practicing Short Dialogues)	C-27	Activity
Unit-V	Public Speaking	C-28	Lecture
Unit-V	Extempore	C-29,30	Activity

AECH55002- Hindi-I

Unit	Particulars	Class No.	Pedagogy of Class
Unit-I	हिंदी भाषा के विकास की पूर्वपीठिका	C-1	Lecture
Unit-I	भारोपीय भाषा-परिवार एवं अर्थभाषाएँ (संस्कृत, पालि, प्राकृत, अपभ्रंश आदि)	C-2	Lecture
Unit-I	हिंदी का आरंभिक रूप	C-3	Lecture
Unit-I	हिंदी शब्द का अर्थ एवं प्रयोग	C-4	Lecture
Unit-I	हिंदी का विकास (आदिकाल, मध्यकाल)	C-5	Lecture
Unit-I	शहंदी का विकास (आधुनिककाल)	C-6	Lecture
Unit-I	बसंतपपिबंजपवद बसें	C-7	Clarification Class
Unit-II	हिंदी भाषा का क्षेत्र एवं विस्तार	C-8	Lecture
Unit-II	हिंदी भाषा : क्षेत्र एवं बोलियाँ		Take Home Assignments
Unit-II	बसें त्ववउ षपहदउमदज	C-9	Class Room Assignment
Unit-II	हिंदी के विविध रूप (बोलचाल की भाषा, राष्ट्रभाषा, राजभाषा, संपर्क-भाषा, संचार भाषा)	C-10	Lecture
Unit-II	हिंदी का अखिल भारतीय स्वरूप	C-11	Lecture
Unit-II	Clarification Class	C-12	Clarification Class
Unit-II	Class Room Assignment	C-13	Class Room Assignment
Unit-II	हिंदी का अंतर्राष्ट्रीय संदर्भ	C-14	Activity
Unit-III	थलपि का इतिहास	C-15	Lecture
Unit-III	भाषा और लिपि का अंतः संबंध	C-16	Activity
Unit-III	परिभाषा, स्वरूप एवं आवश्यकता	C-17	Lecture
Unit-III	लिपि के आरंभिक रूप (चित्रा लिपि, भाव लिपि, ध्वनि-लिपि)	C-18	Activity
Unit-III	Clarification Class	C-19	Clarification Class
Unit-III	Presentation	C-20	Presentation
Unit-III	भारत में लिपि का विकास	C-21	Lecture
Unit-IV	छेवनागरीलिपि	C-22	Lecture
Unit-IV	छेवनागरी लिपि का परिचय एवं विकास	C-23	Lecture

Unit-IV	छेवनागरी लिपि कामान की करण	C-24	Lecture
Unit-IV	वामेमदजंजपवद	C-25	Presentation
Unit-IV	आदर्श लिपि के गुण	C-26	Lecture
Unit-IV	देवनागरीलिपि की विशेषताएँ	C-27	Seminar
Unit-IV	छेवनागरी लिपि और कम्प्यूटर	C-28	Webinar
Unit-IV	थहंदी भाषा और उसकी लिपि का इतिहास	C-29	Guest lecture
Unit-IV	Clarification Class	C-30	Clarification Class

VAC088001: Electoral Literacy

Unit	Particulars	Class No.	Pedagogy of Class
Unit-I	Main Features of the Indian Electoral System,	C-1	Lecture
Unit-I	Election Commission of India, Composition, Tenure and Removal	C-2	Lecture
Unit-I	Powers and Functions of The Election Commission,	C-3	Lecture
Unit-I	Tenure and Removal, Powers and Functions of The Election Commission of India, Composition	C-4	Lecture
Unit-I	Delimitation of Constituencies, Preparation of Electoral Rolls,	C-5	Lecture
Unit-I	Recognition of Political Parties, Allotment of Symbol. Officers on Election Duty	C-6	Lecture
Unit-I	Returning Officer, Presiding Officers, Polling Officers	C-7	Lecture
Unit-I	Voter registration (Enrolment)/ Special Summary Revision.	C-8	Lecture
Unit-I	Electoral Processes; Notification for Election, Filing of Nomination,	C-9	Lecture
Unit-I	Security Deposit, Scrutiny and Withdrawal, Election Campaign,	C-10	Lecture
Unit-I	Model Code of Conduct, Scrutinization of Expenses, Polling, Counting and Declaration of Result, Re-poll, Countermanding of Election	C-11	Lecture
Unit-I	Journey from ballot paper to EVM & VVPAT Shortcomings of the Indian Electoral System, Electoral Reforms	C-12	Lecture
Unit-I	Clarification Class-1	C-13	Clarification Class
	Class Room Assignment-1	C-14	Class Room Assignment
	Home Assignment-1		Home Assignment
Unit-II	SVEEP (Systematic Voter's Education and Electoral Participation): Process & Philosophy	C-15	Lecture
Unit-II	Ethical & informed voting	C-16	Lecture
Unit-II	Electoral literacy platforms: ELC	C-17	Lecture
Unit-II	Chunav Pathashala & VAF	C-18	Lecture
Unit-II	Challenges & initiatives for strengthening democracy	C-19	Lecture
Unit-II	Clarification Class-2	C-20	Clarification Class

Unit-II	Class Room Assignment-2	C-21	Class Room Assignment
Unit-II	Home Assignments-2		Home Assignment
Unit-III	Challenges & initiatives for strengthening democracy	C-22	Lecture
Unit-III	Course-related field work and Assignments	C-23	Activity
Unit-III	Course-related field work and Assignments	C-24	Lecture
Unit-III	Course-related field work and Assignments	C-25	Activity
Unit-III	Course-related field work and Assignments	C-26	Activity
Unit-III	Course-related field work and Assignments	C-27	Activity
Unit-III	Course-related field work and Assignments	C-28	Activity
Unit-III	Course-related field work and Assignments	C-29	Activity
Unit-III	Course-related field work and Assignments	C-30	Activity

Note: The review of Syllabus happens on periodic basis for the benefit of the students. In case there are changes in curriculum due to review, students would be intimated in writing.

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