C P PATEL AND F H SHAH COMMERCE (AUTONOMOUS) COLLEGE, ANAND AFFILIATED TO SARDAR PATEL UNIVERSITY, VVNAGAR NAAC Reaccredited - CGPA 3.30 - GRADE 'A⁺'UGC - MHRD, Govt of India

Course Code	BVS01MAC01	Titleofthe Course	Algorithms and Programming in C
TotalCredits OftheCourse	4	Hoursper Week	4

CourseObj	1. To provide basic understandin of problem solving using algorithms and
ectives:	flowcharts.
	2. To impart knowledge on fundamental
	conceptsoftheCProgramminglanguage.

Cours	CourseContent		
Unit	Description	Weightage *(%)	
1.	 ConceptofAlgorithm,FlowchartandLanguages Conceptof an algorithm anda flowchart, need anddefinition Symbolsusedtodrawaflowchart Typical examplesofflowchartsandalgorithms Generationsofcomputerlanguages High-levelandlow-levellanguages Translators Introductiontoeditorsanddetailsaboutoneoftheeditors 	25%	
2.	 BasicsofProgramming Problem analysis Variables, expressions & manipulation Data types in a high-level language, operators I/O statements, Assignment statements Control strategies, Conditions 	25%	
3.	 Structured Programming and Arrays Loop statements Method of structured programming Arrays 	25%	

4.	Strings, Library Functions and Command-line arguments	
	– Introduction	
	 String handling. 	25%
	 Common standard library functions 	
	 Command-line arguments 	

Teaching-	Multipleteaching approaches
LearningMet	lectureanddiscussion, exploration and inquiry, cooperative group work,
hodology	demonstrations, and presentations.

EvaluationPattern		
Sr.No.	DetailsoftheEvaluation	Weightage *(%)
1.	Internal Written/Practical Examination	15%
2.	InternalContinuousAssessmentintheformofPractical,Viva-voce, Quizzes, Seminars, Assignments.	15%
3.	UniversityExamination	70%

CourseOutcomes:Havingcompletedthiscourse,thelearnerwillbeableto		
1.	1. Solveproblemsusingalgorithmsandflowcharts.	
2.	Developsimpleprograms using the CProgramming language.	

Suggested	Suggested References:		
Sr.No.	References		
1.	Balagurusami:ProgramminginANSIC. Tata McGrawHillPublication,2019.		
2.	Kernighan B. RitchieD:TheCProgrammingLanguage,PrenticeHall,1988.		
3.	CooperH.&MullishH:TheSpritofC,JaicoPublicationHouse,NewDelhi,1988.		

Course Code	BVS01MAC02	Titleofthe Course	Algorithms and Programming Practical Lab
Total Credits OftheCourse	4	Hours per Week	8

CourseObj	1. Toimpartknowledgegeto designalgorithmsandflowcharts.
ectives:	2. Toimpartskilltosolvesimpleprogrammingproblems.

Course	CourseContent		
Sr.No	Description	Weightage *(%)	
1.	Part-1Practical BasedonAlgorithmsandProgramming in C (BVC01MAC01) (Unit-1&Unit-2)	50%	
2. Part-2Practical BasedonAlgorithmsandProgrammingin C (BVC01MAC01)(Unit-3&Unit-4)		50%	

Teaching-	
LearningMet	Handsontrainingthroughrequired ICTtools.
hodology	

EvaluationPattern		
Sr.No	DetailsoftheEvaluation	Weightage *(%)
1.	InternalWritten/PracticalExamination	-
2.	InternalContinuousAssessmentintheformofPractical,Viva- voce,Quizzes,Seminars,Assignments,Attendance	-
3.	UniversityExamination	100%

С	CourseOutcomes:Havingcompletedthiscourse,thelearnerwillbeableto		
1		Designalgorithmsandflowcharts.	
2	2. SolvesimpleprogrammingproblemsinC.		

SEM-I

CourseCode	BVS01MIC03	Titleofthe Course	Basics of I.T
TotalCredits Of the Course	4	Hoursper Week	4

CourseObj	Material for this course will be presented using multiple teaching approaches:
ectives:	lecture and discussion, exploration and inquiry, cooperative group work,
	demonstrations, and presentations

CourseContent		
Unit	Description	Weightage *(%)
1.	 Introduction to MS Windows. Operating system-Definition & functions Basic components of windows Learning about icons, types of icons, taskbar, activating windows, using desktop title bar, running applications, exploring computer, managing files and folders copying and moving files and folders. Control panel –display properties, adding and removing software and hardware, setting date and time, screensaver and appearance using windows accessories. 	25%
2.	 Introduction to Word Documentation Using MS-Word Introduction to word processing interface, Toolbars, Menus Creating & Editing Document Formatting Document Finding and replacing text Header and footer concepts Drop cap Auto-text, Autocorrect, Spelling and Grammar Tool Document Dictionary, Page Formatting, Bookmark, Previewing and printing document Advance Features of MS-Word-Mail Merge, Macros, Tables, File Management, Printing, Styles, linking and embedding object, Template. 	25%

3	Introduction to excel	
	 IntroductiontoSpreadsheetsandSpreadsheetpackages 	
	 Creating & Editing Worksheet 	
	 Database Management using Excel-Sorting Filtering 	
	 Formatting and Essential Operations 	
	 Conditional formatting. 	
	 Moving and copying data in excel 	25%
	– Header and footer	
	– Formulas and Functions	
	 Charts, Cell referencing, Page setup, Macros 	
	 Advance features of MS-Excel-Pivot table & Pivot Chart 	
	 Linking and Consolidation 	
	 Data analysis using What-if analysis 	
4	Introduction to PowerPoint	
	 Presentation using MS-PowerPoint 	
	- Presentations, Creating, Manipulating & Enhancing Slides	
	- Organizational Charts, Excel Charts, Word Art, Layering art	
	Objects	25%
	 Animations and Sounds 	
	 Inserting Animated Pictures or Accessing through Object 	
	 Inserting Recorded Sound Effect or In-Built Sound Effect 	

Teaching-	Materialforthiscoursewillbepresentedusingmultipleteachingapproaches:		
LearningMet	lecture and discussion, exploration and inquiry, cooperative groupwork,		
hodology	demonstrations, and presentations		

EvaluationPattern		
Sr. No.	DetailsoftheEvaluation	Weight age
1.	InternalWritten/PracticalExamination	15%
2.	InternalContinuousAssessmentintheformofPractical,Viva- voce,Quizzes,Seminars,Assignments,Attendance	15%
3.	UniversityExamination	70%

Cou	CourseOutcomes:Havingcompletedthiscourse,thelearnerwillbeableto	
1.	understand the concept of Conceptual Framework of Accounting & Accounting Cycle	
2.	Understand features of word processing, presentation tool and spreadsheets.	

Suggeste	SuggestedReferences:	
Sr.No.	References	
1.	ManualsofPCSoftware	
2.	Taxali R K : PC Software made simple for Windows, Tata McGraw-Hill PublishingCo.Ltd., 2000.	
3.	Naheshgwari S. N. : Introduction to Accounting, Vikas Pub. House 1986	
4.	R.L. Gupta &V.K.Gupta : Principles and practices of accounting, Sultan Chand & Sons, 2019.	
5.	Rana&Dalal : Advances Accounting and Auditing :III SudhirPrakashan Ahmedabad, 2005.	
6.	J.C.Gandhi :Marketing : A managerial Introduction Tata McGraw Hill Publishing CO. Ltd. New Delhi, 1989.	

Course Code	BVS01MIC04	Title of the Course	Basic Business Application Lab
Total Credits Of the Course	4	Hours per Week	8

	CourseObj	To enable students to work with Word documents, Excel sheets and power point
ectives:	ectives:	presentations.

CourseContent		
Sr. No.	Description	Weight age*(%
	Practical based on MS Word	
	Formatting Document	
1.	Finding and replacing text	500/
1.	Header and footer concepts	50%
	Drop cap	
	Mail Merge	
	Practical based on MS Excel and MS Power Point	
	Conditional formatting	
	Linking and Consolidation	
2.	Data analysis using What-if analysis	50%
	Excel Charts	
	Animations and Sounds	
	Inserting Animated Pictures	

Teaching- LearningMet hodology	Hands on training through required ICT tools.
nouology	

EvaluationPattern		
Sr. No.	6	
1.	1. InternalWritten/PracticalExamination	
2.	2. InternalContinuousAssessmentintheformofPractical,Viva- voce,Quizzes,Seminars,Assignments,Attendance	
3.	3. UniversityExamination	

CourseOutcomes:Havingcompletedthiscourse,thelearnerwillbeableto		
]	1.	Work with Word documents, Excel sheets and create power point presentations.

Course Code	BVS01SEC06	Title of the Course	Logical Organization of Computer
TotalCredits Of the Course	2	Hoursper Week	4

CourseObj ectives:	• 1. To provide basic understanding of logical organization and architecture of a computer.
	• 2. To introduce fundamental concepts related to number systems and representation of information.

CourseContent		
Unit	Description	Weightage *(%)
1.	Introduction to Computers	
	 History of Development of Computers 	
	 Generation of Computers 	
	 Types of Computers (Microcomputers, Minicomputers, Mainframes, Super Computers) 	
	 Hardware, Software & Firmware 	50%
	Architecture of a Computer	0070
	 Block Diagram & Functional Units 	
	- Hardware components: Mother board, Processor, Memory, ports	
	 Fetch-decode-execute cycle 	
	– BIOS, POST	
2	Number Systems and Memory	
	- Various number systems (Binary, Octal, Hexadecimal, Decimal)	
	 Conversion among various number systems 	
	 Binary addition & subtraction 	
	 Hexadecimal addition & subtraction 	
	– Parity Scheme	50%
	- ASCII Character Code, Memory organization, Addressing Modes	
	- Memory types: RAM, ROM, FLASH, PROM, EPROM, EEPROM	
	Concepts of virtual memory, Cache memory	
	Storage Devices and I/O Devices	
	 Floppy Disks: structure, reading/writing, formatting 	

 Hard disk and its architecture 	
- CD-ROM, DVD ROM	
- Back up Devices	
- Printers: Line printer, DOT matrix, Laser, Inkjet	
- Plotters: Scanners, OCR, OMR	
– Keyboard, Mouse	
 Other Devices: Joysticks, Touch pads, pens etc. 	
Monitors (CRT Flat Screen LCD)	

Teaching-	Multiple teaching approaches: lecture and discussion, exploration and inquiry,
LearningMet	cooperative group work, demonstrations, and presentations
hodology	

Evalı	EvaluationPattern		
Sr. No.			
1.	InternalWritten/PracticalExamination	15%	
2.	InternalContinuousAssessmentintheformofPractical,Viva- voce,Quizzes,Seminars,Assignments,Attendance	15%	
3.	UniversityExamination	70%	

Cou	CourseOutcomes:Havingcompletedthiscourse,thelearnerwillbeableto	
1.	Understand the fundamental concepts related to organization of a computer system	
2.	Understand the fundamental concepts related to number systems and representation of information.	

Suggeste	SuggestedReferences:	
Sr.No. References		
1.	Tanenbaum A.S., Structured Computer Organization, Prentice-Hall of India Pvt Ltd, 5th edition, 2005.	
2.	Rajaraman V, Computer Fundamentals, Prentice-Hall of India PvtLtd(4th Edition), 2003.	
3.	P.K. Sinha, Priti Sinha, Computer Fundamentals, 6th Edition, 2003.	

CourseCode	BVS01AEC05	Titleofthe Course	Business Communication-I
TotalCredits Of the Course	2	Hoursper Week	2

CourseObj	1. Introduce themselves, describe person, place or situation	
ectives:	2. Structure sentences for variety of purposes	
	3. Make or respond to enquiries; raise queries as and when required	
	4. Write letters for specific purposes	
	5. Use modal auxiliaries efficaciously	
	6. Communicate in Active and Passive Voice precisely	

CourseContent			
Unit	Description	Weight age(%)	
1	Introducing Business Communication:		
	- Concepts, Definition & Attributes of Communication		
	 Objectives Of business communication 	50%	
	 Process of communication 		
	 Importance of effective communication in business 		
2	Business Etiquettes:		
	- Concept & Importance		
	– Etiquettes for:		
	• Meeting	50%	
	Telephone/CellphoneConversation		
	- Etiquettes with stakeholders(external-		
	- Etiquettes at workplace (internal-superiors, peers & subordinates)		

Teaching-	
LearningMet	Role Play, Discussion and Debate, Think Pair Share, Traditional classroom
hodology	teaching as well as usage of ICT tools.

EvaluationPattern		
Sr. No.	DetailsoftheEvaluation	Weightage
1.	InternalWritten/PracticalExamination	
2.	InternalContinuousAssessmentintheformofPractical,Viva- voce,Quizzes,Seminars,Assignments,Attendance	
3.	UniversityExamination	100%

CourseOutcomes:Havingcompletedthiscourse,thelearnerwillbeableto	
1.	Introduce themselves, describe person, place or situation.
2.	Structure sentences for variety of purposes.
3.	Make or respond to enquiries; raise queries as and when required.
4.	Write letters for specific purposes
5.	Use modal auxiliaries efficaciously.
6.	Communicate in Active and Passive Voice precisely.

CourseCode	BVS01IKC07	Titleofthe Course	Indian Knowledge Systems
TotalCredits Of the Course	2	Hoursper Week	2
CourseObj ectives:	 ExaminetheBh and itsimplicat Analysethecon ceinpreservings Highlighttheco csandastronom Explorethe Bha Studythescienc Provideanovery and pioneersing 	nceptofBhartiya co artiyaphilosophyo ionsforthe Bhartiy ceptofIndianKnov anddisseminatingi ntributionsofIKSt y. artiya wisdomrela ceofarchitectureina viewofAyurveda,i thefield.	oncept tofspiritualityandits variouspaths. oflifederivedfromShashtras(ancientscriptures) valifestyle. wledgeSystems(IKS)andemphasizeitsimportan indigenous knowledge. otheworld,particularlyinthefieldsofmathemati

	CourseContent	
Unit	Description	Weightage* (%)
1	 Spiritual Bharat and Introduction to IKS Bhartiya Concept of Spirituality : Gyaan Marg, Bhakti Marg, Karmmarg, Yog Marg Bhartiya Spiritual Thinking Leading to Unity Bhartiya Philosophy of Life Derived from Shashtras and its Implications for Bhartiy Life Style Introduction to IKS and Its Importance Introduction of Various Indian Knowledge Systems 	50 %
2	 Contribution of IKS to the World Bhartiya Contribution in Mathematics and Astronomy Bhartiya Wisdom related to Life Science: Physics, Chemistry, Botany Bhartiy Science of Architecture with reference to Lothal, Mohan Jo Daro, Dholavira, Temple Architecture Ayurveda : Concept, Branches, Books and Pioneers Bhartiya Literature and Bhartiy Theory of Aesthetics and Rasa 	50 %

Teaching- LearningMet hodology	Lecture-cum-discussion, Group Discussion, Presentations, Seminars,tutorials,Research Exercises
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EvaluationPatternSr.
No.DetailsoftheEvaluationWeight age1.InternalWritten/PracticalExamination
Internal Continuous Assessment in the form of Practical,
Vivavoce,Quizzes,Seminars, Assignments, Attendance30%2.UniversityExamination70%

Cou	CourseOutcomes:Havingcompletedthiscourse,thelearnerwillbeableto		
1.	Understand the diverse paths of spirituality in Bhartiya culture, including Gyaan Marg,Bhakti Marg, Karm Marg, and Yog Marg, and recognize their significance in individualandcollectivespiritualgrowth.		
2.	EvaluatetheBhartiyaphilosophyoflifederivedfromShashtrasandanalyzeitsimplications for contemporary Bhartiya lifestyles, fostering a deeper understanding oftheconnection between spiritualityand everydaylife.		
3.	Explain the concept ofIndian Knowledge Systems (IKS)and recognizeits importancen preserving and promoting indigenous knowledge, fostering a sense of cultural identityandpride.		
4.	Demonstrate knowledge of various Indian knowledge systems, such as Ayurveda, Vedicsciences,Yoga,Vedanta,andJyotish,and appreciate etheircontributionstohumanknowledgeand well-being.		
5.	Recognize and appreciate the significant contributions of IKS to the world, particularlyin the fields of mathematics and astronomy, and understand their impact on modernscientificadvancements.		
6	Analyze the Bhartiya wisdom related to life sciences, including physics, chemistry, andbotany,asdescribedinancienttexts,andunderstandtheirrelevanceandpotentialapplicatio ns in contemporaryscientificresearch.		
7	Identify and analyze the unique architectural features and principles of ancient Indiansites like Lothal, Mohenjo-daro, Dholavira, and temple architecture, understanding theircultural, historical, and spiritual significance.		

SuggestedReferences:

- Radhakrishnan, S. (1992). The Hindu View of Life. Harper Collins Publishers.
- Singh,A.P.,&Yagnik,S.(Eds.).(2019). Indian KnowledgeSystems:UnderstandingtheHuman Uniqueness.Springer.
- Frawley, D., & Ranade, S. (2001). Ayurveda, Nature's Medicine. Lotus Press.
- Lad, V.,&Frawley,D.(1986).TheYogaofHerbs:AnAyurvedicGuidetoHerbalMedicine.Lo tus Press.
- Dasgupta, S. (1947). A History of Indian Philosophy. Cambridge University Press.
- Pollock, S. (2006). The Language of the Gods in the World of Men: Sanskrit, Culture, and Powerin Premodern India. University of California Press.
- Sarma, K. V. (2008). Indian Astronomy: A Source-Based Approach. National CouncilofEducation Researchand Training.
- Narlikar, J.V., & Padmanabhan, T. (Eds.). (2016). Development of Physics in India. Spring er.
- Mahdihassan, S. (1982). Ancient Indian Botany: Its Bearing on Art and Literature.DeccanCollegePost-Graduateand ResearchInstitute.