AND STORY OF THE PARTY OF THE P

KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE - 638 107

B.C.A



(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE - 638 107

2021-2022

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE - 638 107

SYLLABUS

Sem	Course Code	Core I: Professional English -I	Total Ma	rks:100	Hours Per Week	Credits	
1	21UAJCT101		CIA: 50	ESE:50	4	4	

- 1. To develop the language skills of students.
- 2. To enhance the lexical, grammatical, socio-linguistic and communicative competence.
- To focus on developing students' knowledge in domain specific registers and the required language skills.

Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Identify the correct usage of vocabulary and grammar in speaking and writing	
CO 2	Apply the language for speaking efficiently and confidently	
CO 3	Build the reading skill by using unfamiliar texts with comprehension	K1 - K4
CO 4	Demonstrate the language skills through academic writing	
CO 5	Develop the leadership quality and team building through linguistic competence	

K1: Remember; K2: Understand; K3: Apply; K4: Analyze

Unit -I COMMUNICATION

Listening: Listening to audio text and answering questions - Listening to Instructions.

Speaking: Pair work and small group work.

Reading: Comprehension passages - Differentiate between facts and opinion.

Writing: Developing a story with pictures.

Vocabulary: Register specific - Incorporated into the LSRW tasks.

Unit - II DESCRIPTION

Listening: Listening to process description - Drawing a flow chart.

Speaking: Role play (formal context).0.

Reading: Skimming Scanning Reading passages on products, equipment and gadgets.

Writing: Process Description - Compare and Contrast Paragraph - Sentence Defining Mixtended

definition - Free Writing. 107

Vocabulary: Revisier specific Incorporated into the LSRW tasks.

KONGU ARTS AND SCIENCE COLLEG

MAN ANAMURAMI ERROBE - 638 107.

Unit - III NEGOTIATION STRATEGIES

Listening: Listening to interviews of specialists / Inventors in fields (Subject Specific).

Speaking: Brainstorming (Mind Mapping) - Small group discussions (Subject Specific).

Reading: Longer Reading text.

Writing: Essay Writing (250 words).

Vocabulary: Register specific - Incorporated into the LSRW tasks.

Unit - IV PRESENTATION SKILLS

Listening: Listening to lectures.

Speaking: Short talks.

Reading: Reading Comprehension passages.

Writing: Writing Recommendations - Interpreting Visuals inputs.

Vocabulary: Register specific - Incorporated into the LSRW tasks.

Unit - V CRITICAL THINKING SKILLS

Listening: Listening comprehension - Listening for information.

Speaking: Making presentations (with PPT-practice).

Reading: Comprehension passages - Note making. (Comprehension: Motivational article on

Professional Competence, Professional Ethics and Life Skills).

Writing: Problem and Solution essay - Creative writing - Summary writing.

Vocabulary: Register specific - Incorporated into the LSRW tasks.

Skill Development Activities

- 1. Listening and Answering.
- 2. Speaking Activities through Role Play.
- 3. Reading and Answering.
- 4. Resume Preparation.
- 5. Vocabulary Enhancement Activities Definitions, Synonyms, Antonyms, Keywords etc...

TEXT BOOK

1 Professional English for Physical Sciences-I - TANSCHE.

638 107

REFERENCE BOOKS

Dr. N. RAMAN

Simulation, Cambridge Line ersity Press, 2003.

NAMUANAPURAM, ERODE - 338 167

ì

			KASC BCA 2021 - 2022
2	Michael McCarthy, Felicity O'Dell, En Edition, Cambridge University Press, 200		in Use: Advanced, First South Asian
	Web	Resources	
1	https://nptel.ac.in/courses/109/104/109	104030/	
2	https://www.edubull.com/courses/onlinilets/basic-courses/professional-english		ing-courses-video-english/tofel-
С	Course Designed By Verif	ied By	Approved By HOD
Mr	S.Muruganantham 70 Ms.S.	vito Yasmin	Dr.T.A.Sangeetha
	QUESTION	PAPER PATTE	RN
S	SECTION - A (10 X 1 = 10 Marks)	SECT	ION - B (4 X 10 = 40 Marks)
	bulary)), Info-gap questions - domain specific ulary)	passages with and analysis - 2	o long domain-specific comprehension questions pertaining to understanding 20 Marks) scriptive/narrative/persuasive writing aining to domain-specific vocabulary -
	Mapping of Co	Os with POs and	PSOs
I	PO/PSO PO		PSO

PO/PSO CO	PO						PSO					
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	S	S	S	S	S	М	М	М	М	S	S	М
CO 2	S	S	S	S	S	М	М	М	S	S	S	М
CO 3	S	S	М	М	M	М	S	М	M	S	S	М
CO 4	S	S	M	М	М	М	М	М	М	S	S	М
CO 5	S	S	S	S	М	S	S	М	S	S	S	М

S-Strong, M-Medium, L-Low

ERODE 638 107 Dr. N. RAMAN

PRINCIPAL,

KONGU ARTS AND SCIENCE COLLEGE

(AUTONOMOUS)

NANJANAPURAM, ERODE - 638 107.

Sem	Course Code	Core II: Programming in C	Total Ma	rks:100	Hours Per Week	Credits
1	21UAJCT102		CIA: 50	ESE :50	4	4

- To provide exposure to problem-solving skill through C Programming.
- To train the student to the basic concepts of the C Programming language.
- 3. To equip and indulge Learners in problem solving using C.

Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Define data types and use them in simple data processing applications	
CO 2	Build simple C Programs using Looping and Control Structures	
CO 3	Apply the right data representation formats based on the requirements of the problem	K1 - K4
CO 4	Demonstrate the concept of User defined functions, Recursions, Scope and Lifetime of Variables, Structures and Unions	
CO 5	Develop C programs using pointers and files	

K1 :Remember; K2 :Understand; K3 :Apply; K4 :Analyze

Overview of C Unit-I

Importance of C - sample C program - C program structure - executing C program - Character set - C tokens keywords and identifiers - constants - variables - data types - declaration of variables - Assigning values to variables - Assignment statement - declaring a variable as constant as volatile.

Arithmetic, Relational, logical, assignment, increment, decrement, conditional, bitwise and special operators arithmetic expressions - operator precedence - type conversions - mathematical functions -Reading and writing a character - formatted input/output.

Chapters 1 to 4

Unit - II **Decision Making and Looping and Arrays**

Decision making with If - simple IF, IF ELSE, nested IF ELSE, ELSE IF ladder - switch - The:? Operator -GOTO statement NE borng: While, Do-While, For - Jumps in loops.

Declaration and accessing of one & two-dimensional arrays - initializing two-dimer multidime 13

NANJAWAPURAM

Chapters

Unit - III Functions

Declaring and initializing String Variables - Reading and Writing Strings - Arithmetic Operations and comparison of strings - String Handling Functions - The form of C functions - calling a function - categories of functions - Nested functions - Recursion - call by value - call by reference.

Chapters 8 and 9

Unit - IV Structures and Unions

Defining - giving values to members - initialization and comparison of structure variables - arrays of structure - arrays within structures - unions.

Chapters 10

Unit - V Pointers and Files

Definition - declaring and initializing pointers - access a variable through address and through pointer - pointer expressions - Opening, closing and I/O operations on files - Random access to files - command line arguments.

Chapters 11 and 12

Skill Development Activities

- 1. Develop a program to inscribe the given string on the screen using C concept.
- 2. Compare the scope of looping and branching tools to be used in the languages.
- 3. List out the real time applications can be done using C Programming languages

TEXT BOOK

1 E. Balagurusamy, "Programming in ANSI C", Fourth Edition, Tata McGraw-Hill.

REFERENCE BOOKS

- Schaum's Outline Programming with C, Byron Gottfried, Second Edition, Tata McGraw-Hill
- 2 Let Us C, Yashavant Kanetkar, Eighth Edition, BPB Publications.
- The C Programming Language, Kernighan and Ritchie, Second Edition, Prentice Hall, 1998.

Web Resources Dr. N. RAMAN PRINCIPAL, Www.np.coramming.com/c-programming Www.np.coramming.com/c-programming Www.np.coramming.com/c-programming Www.np.coramming.com/c-programming Www.np.coramming.com/c-programming Web Resources Dr. N. RAMAN PRINCIPAL, (AUTONOMOUS) NANJANAPURAM ERODE. 638 167

										KAS	C BCA	2021 -	- 2022
4	www.uo	demy.co	m		71.912							/ 100	
Cour	rse Des	igned B	у		Ve	rified E	Ву			Appro	ved By	HOD	
Ar.	Zovjerr N.Raja	√ sekaran		Ms.S. Hemalatha				Dr.T.A.Sangeetha					
				QU	ESTIC	N PAP	PER PA	TTER	N			2 3 2	
SECTION - A				SECTION - B					SEC	CTION	- C		
10 x 1 = 10 Marks (Multiple choice, Four options) Two questions from each unit				5 x 3 = 15 Marks (Either or choice) Two questions from each unit				$5 \times 5 = 25$ Marks (Either or choice) Two questions from each unit					
				Марр	oing of	COs w	ith PO	and P	SOs				
PO	/PSO				РО				PSO				
		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO
СО	1	S	М	S	S	М	М	S	S	S	S	S	М
СО	2	S	L	S	S	L	М	S	S	S	S	S	S
СО	3	S	М	S	S	М	М	S	S	S	S	S	S
СО	4	S	M	S	S	М	М	S	S	S	S	S	М
СО	5	S	М	S	S	М	М	S	S	S	S	S	S

S-Strong, M-Medium, L-Low



Dr. N. RAMAN
PRINCIPAL,
KONGU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
NANJANAPURAM, ERODE - 638 187.

Şem	- Course Code	Core III: Professional English -	Total Ma	rks:100	Hours Per Week	Credits
11	21UAJCT201		CIA: 50	ESE:50	4	4

- To develop their competence in the use of English with particular reference to the workplace situation.
 - 2. To enhance the creativity of the students which will enable them to think of innovative ways to solve issues in the workplace.
 - 3. To develop their competence and competitiveness and thereby improve their employability skills.

Outcomes (CO): On completion of the course, students should be able to

CO 1	Identify the importance of linguistic competence in workplace situations	
CO 2	Develop LSRW skills for academic and career purposes	
CO 3	Build the employability skills through various speaking and writing tasks	K1 - K4
CO 4	Relate the communication skills suitable for employability	
CO 5	Illustrate the digital competence with innovation and imagination	

K1: Remember; K2: Understand; K3: Apply; K4: Analyze

Unit - I Communicative Competence

Listening: Listening to two talks/lectures by specialists on selected subject specific topics - (TED Talks) and answering comprehension exercises (inferential questions).

Speaking: Small group discussions (the discussions could be based on the listening and reading passages - open ended questions).

Reading: Two subject-based reading texts followed by comprehension activities/exercises.

Writing: Summary writing based on the reading passages.

Unit - II Persuasive Communication

Listening: Listening to a product launch- sensitizing learners to the nuances of persuasive communication.

Speaking: Debates - Just-A Minute Activities

Reading: Reading 1966 on advertisements (on products relevant to the subject areas) and answering inferential questions.

Writing: Dialogue Wining an argumentative / persuasive essay.

Unit - III Digital Competence

Listening: Listening to interviews (subject related).

Speaking: Interviews with subject specialists (using video conferencing skills) - Creating Vlogs (How to become a vlogger and use vlogging to nurture interests – subject related).

Reading: Selected sample of Web Page (subject area).

Writing: Creating Web Pages.

Reading Comprehension: Essay on Digital Competence for Academic and Professional Life.

The essay will address all aspects of digital competence in relation to MS Office and how they can be utilized in relation to work in the subject area.

Unit - IV | Creativity and Imagination

Listening: Listening to short (2 to 5 minutes) academic videos (prepared by EMRC/ other MOOC videos on Indian academic sites - E.g. https://www.youtube.com/watch?v=tpvicScuDy0).

Speaking: Making oral presentations through short films - subject based.

Reading: Essay on Creativity and Imagination (subject based).

Writing - Basic Script Writing for short films (subject based) - Creating blogs, flyers and brochures (subject based) - Poster making - writing slogans/captions (subject based).

Unit - V Workplace Communication and Basics of Academic Writing

Speaking: Short academic presentation using PowerPoint.

Reading & Writing: Product Profiles, Circulars, Minutes of Meeting.

Writing an introduction, Paraphrasing, Punctuation (period, question mark, exclamation point, comma, semicolon, colon, dash, hyphen, parentheses, brackets, braces, apostrophe, quotation marks, and ellipsis), Capitalization (use of upper case).

Skill Development Activities

- 1. Group Discussion
- 2. Persuasive Speaking Conversation
- 3. Listening Activities Watching Videos and answering questions and summarizing the content
- 4. Creative Writing Flyers, Brochures, Slogans, Captions
- 5. PowerPoint Presentation

638 107

TEXT BOOK

1. Polessional English for Physical Sciences-II - TANSCHE.

DEFEDENCE POOL

Dr. N. RAMAN

RTS AND SCIENCE COLLEGE

REFERENCE BOOKS RAUTONO

Alice Oshima & Ann Hogue, Writing Academic English, Second Edition, Addison Wesley Publishing Company, 1991.

1.

KASC BCA 2021 - 2022 Lyn R. Clark, Kenneth Zimmer, Joseph Tinervia, Business English and Communication, Seventh 2. Edition, MacMillan / McGraw-Hill, Imprint 1991. Web Resources 1. https://www.coursera.org/learn/speak-english-professionally 2. https://www.ted.com/talks/pranav rajan computer science education Course Designed By Verified By Approved By HOD S.Muruganantham Dr.T.A.Sangeetha **QUESTION PAPER PATTERN** SECTION - A $(10 \times 1 = 10 \text{ Marks})$ SECTION - B $(4 \times 10 = 40 \text{ Marks})$ (Reading: Two long domain-specific comprehension passages with questions pertaining to understanding (Vocabulary) and analysis - 20 Marks) (MCQ, Info-gap questions - domain specific

			Maj	oping of	COs w	ith POs	and PS	Os				
PO/PSO CO	PO							PSO				
	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO 5
CO 1	S	S	S	М	S	М	М	М	S	S	S	М
CO 2	S	S	М	S	М	M	S	М	M	S	S	М
CO 3	S	S	S	М	S	М	М	М	M	S	S	M
CO 4	S	S	М	S	S	M	S	М	S	S	S	M
CO 5	S	S	S	M	М	М	М	S	S	S	S	M

20 Marks)

vocabulary)

ERODE

Dr. N. RAMAN
PRINCIPAL,
KONGUARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
NANJANAPURAM ESTOR 632 144

(Writing: Descriptive/narrative/persuasive writing

questions pertaining to domain-specific vocabulary -

Sem	Course Code	Core IV: Programming in	Total Ma	rks:100	Hours Per Week	Credits
11	21UAJCT202		CIA: 50	ESE :50	4	4

- 1. To expose the students skill with the concepts of OOPs and to make them represent the real world entities.
- 2. To introduce the concepts of converting the real time problems into objects and methods and their interaction with one another to attain a solution.
- 3. To make them design Applications using Applet and GUI.

Course Outcomes (CO): On completion of the course, students should be able to

CO 1	Build the java applications using OOP Concepts for stand-alone applications.	
CO 2	Develop the packages as reusable components.	
CO 3	Apply the concept of multi threading and Synchronization in java programs.	K1 - K4
CO 4	Detect the possible errors by applying the concepts of Exception Handling.	
CO 5	Design Applets and Graphical Programming.	

K1:Remember; K2:Understand; K3:Apply; K4:Analyze

Unit -I Fundamentals of Object-Oriented Programming

Object Oriented Paradigm, Basic Concepts of OOP, Benefits of OOP, Application of OOP, Java Evolution: History – Features – How Java Differs from C and C++. Overview of Java Language: Simple Java Program – More on Java – An Application with Two Classes – Java Program Structure – Java Tokens – Java Statements – Java Virtual Machine - Constants, Variables and Data types.

Self Study: Operators and Expressions - Decision Making and Branching - Decision Making and Looping.

Chapters 1 to 7

Unit - II Classes, Objects, Methods, Arrays and Interfaces

Classes, Objects and Methods: Defining a Class – Field Declaration – Creating Objects – Accessing Class Members – Constructors – Method Overloading – Static Members – Nesting of Methods – Inheritance – Overriding Methods – Final Variables and Methods – Final Classes – Finalizer Classes – Abstract Methods and Classes. Array Strings of Vectors: One-Dimensional Arrays – Creating an Array – Two-Dimensional Arrays – Strings – Vectors – Wrapper Classes – Enumerated Types. Interfaces: Defining – Extending A Miplementing – Accessing Interfaces:

Chapters 8 to 10

KONGU ARTS AND SCIENCE COLLEGE (AND FORMOUS)

Unit - III Packages and Thread Programming

Java API Packages: Using System Packages – Naming Conventions – Creating Packages – Accessing Package – Using a Package – Adding Classes to a Package – Hiding Classes – Static Import. Multithreaded Programming: Creating Thread – Extending Thread – Stopping and Blocking a Thread – Life Cycle of a Thread – Using Thread Method – Thread Exception: Thread Priority – Synchronization – Implementing the Runnable Interface – Inter-Thread Communication.

Chapters 11 and 12

Unit - IV Managing Errors & Exceptions and Handling Files

Managing Errors and Exceptions: Types of Errors – Exceptions – Syntax of Exception Handling Code – Multiple Catch Statements – Using Finally Statement – Throwing our own Exceptions – Using Exceptions for Debugging. Managing Input / Output Files in Java: Concept of Streams – Stream Classes – Byte Stream Classes – Character Stream Classes – Using Streams – Other Useful I/O Classes – Using File Class – Input / Output Exceptions – Creation of Files – Reading/Writing Characters – Reading/Writing Bytes – Handling Primitive Data Types – Concatenating and Buffering Files – Random Access Files – Interactive Input and Output – Other Stream Classes.

Chapters 13 and 16

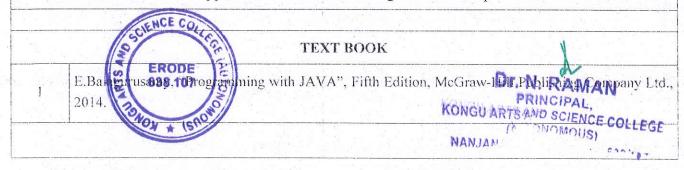
Unit - V Applet Programming

Applet Programming: How Applets Differ From Applications – Preparing to Write Applets – Building Applet Code – Applet Life Cycle – Creating an Executable Applet – Designing a Webpage – Applet Tag – Adding Applet to HTML File – Running the Applet – Passing Parameter to Applet – Aligning the Display – More about HTML Tags – Displaying Numerical Values – Getting Input from the User – Event Handling. Graphics Programming – The Graphic Class – Lines and Rectangles – Circles and Ellipse – Drawing Arcs – Drawing Polygons – Line Graphs – Using Control Loops in Applets – Drawing Bar Charts – Introduction to AWT Package - Introduction to Swings.

Chapters 14 and 15

Skill Development Activities

- 1. To develop a program to inscribe the given string on the screen using JAVA concepts.
- 2. Compare the scope of looping and branching tools to be used in the languages.
- 3. List out the real time applications can be done using OOPS Concepts.



				4	REFE	RENC	E BOO	KS					
1	"The Complete Reference JAVA 2", Herbert Schildt, Fifth Edition, Tata McGraw-Hill Publishing Company Ltd., 2005.												
2	"Java: The Complete Reference", Herbert Schildt, McGraw Hill Education, Oracle Press 10 Edition, 2018												
3	Program	nming w	vith Java	a – Johr	R. Hul	bard, 2	nd Editio	on, TM	Н.				
					W	eb Res	ources						
1	https://nptel.ac.in/courses/106/105/106105191/												
2	https://www.w3schools.in/java-tutorial/												
3	https://www.programiz.com/java-programming/online-compiler/												
4	https://www.tutorialspoint.com/compile_java_online.php												
Со	urse Desi	gned By	,	Verified By					Approved By HOD				
Ms.S.Dhivya				SVM Ms.S.Hemalatha					Dr.T.A.Sangeetha				
				Q	UESTIC	ON PAP	ER PA	FTERN					
	SECTIO	N-A			SEC	CTION -	-B			SEC	CTION	- C	
10 x 1= 10 Marks (Multiple choice, Four options) Two questions from each unit				5 x 3 = 15 Marks (Either or choice) Two questions from each unit					5 x 5 = 25 Marks (Either or choice) Two questions from each unit				
Mappin	ng of COs	with P	Os and	PSOs:							11 - A		
PO	O/PSO			PO					PSO				
		PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3	PSO 4	PSO S
C	01	S	М	S	S	М	М	S	S	S	S	S	M
C	O 2	S	L	S	S	L	М	S	S	S	S	S	S
C	03	CIENCE	COL	S	S	М	М	S	S	S	S	S	S
C	04	S	M	S	S	М	М	S	S	NSR	AWA	S	M
C	05		107M	S	S	M	M	S	\$ -	PRINC	PAUCE	COLLEC	S



(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE - 638 107

ACTIVITIES



(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE - 638107

DEPARTMENT OF COMPUTER APPLICATIONS

Personality Development Programme on 31.03.2022 & 04.04.2022

A Two day Personality Development Programme was organized by Department of Computer Applications on 31 March, 2022 & 04th April 2022 for I and II year B.C.A students. The session was handled Dr.S.Subramaniam, Associate Professor & Head, Department of Management Studies, Info Institute of Engineering, Coimbatore. The aim of the programme is to develop a good personality and building confidence among the students. The resource person insisted about the moral values that should be followed in their academic activities. Further, he cleared the doubts of participants in the Query session. This PDP was attended by I and II BCA students (96 nos.) of our department.





HEAD OF THE DEPARTMENT
DEPARTMENT OF COMPUTER APPLICATIONS
KONGU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
ERODE - 638 107.



Or. N. RAMAN
PRINCIPAL
KONGU ARTS AND SCIENCE GOLLEGE
(AUTONOMOUS)
NANJANAPURAM, ERODE - 638 107