

**KG COLLEGE OF ARTS AND SCIENCE**

Autonomous Institution | Affiliated to Bharathiar University

Accredited with A++ Grade by NAAC

ISO 9001:2015 Certified Institution

KGiSL Campus, Saravanampatti, Coimbatore - 641 035

Regulations 2026-27 for Undergraduate Programme**Learning Outcomes Based Curriculum Framework- (LOCF) model with Choice Based Credit System (CBCS)****Programme: B.Sc. Computer Science (B.Sc. CS)****Programme Code: BCS****(Applicable for the Students Admitted During the Academic Year 2026 - 27 onwards)****Eligibility**

The Student should have passed Higher Secondary Examination and wherever the students have not studied mathematics knowledge be imparted through Residential/Bridge Course.

(As per the eligibility condition given Ref. BU/R/B3-B4/Eligibility Condition/2026/7425 dated 15/05/2026).

Program Learning Outcomes (PLOs)

The successful completion of B.Sc. CS Programme shall enable the students to:

PLO1	Develop an ability to analyze a given problem statement, identify and define the computing requirements for finding the appropriate solution.
PLO2	Prepare students to equip themselves involving problem solving skills using computer science and technologies to become software developer.
PLO3	Develop the ability to pursue advanced studies and to excel in research in the field of Computer Science.
PLO4	Inspire the students to become entrepreneurs or technopreneurs to innovate and create.
PLO5	Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.

B.Sc. Computer Science**Distribution of Credits and Hours for all the Semesters**

Part	Course Category	No. of Courses	Hours		Credits	Total		Semester
I	Language – I : Tamil	4	4 X 4	16	3	12	12	1-4
II	Language - II : English	4	4 X 4	16	3	12	12	1-4
III	Core Theory (6 Hours / Week)	4	4 X 6	24	4	16	100	3,6
	Core Theory (5 Hours / Week)	9	9 X 5	45	4	36		1,2,4,5
	Core Lab (4 Hours / Week)	4	4 X 4	16	2	8		1-4
	Core Lab (5 Hours / Week)	3	3 X 5	15	3	9		5,6
	Allied	4	4 X 4	16	3	12		1-4
	Electives	2	2 X 5	10	3	6		5,6
	Project	1	1 X 6	6	5	5		6
	SEC: Internship	1	-	-	2	2		5
	Skill Enhancement (SEC)	3	3 X 2	6	2	6		3, 4, 6
IV	Foundation Course (FC)	2	2 X 2	4	2	4	14	1,2
	Foundation Course (FC)	1	-	-	2	2		3
	Ability Enhancement Compulsory Course (AECC)	3	3 X 2	6	2	6		1,2,4
	Ability Enhancement Compulsory Course (AECC) – MOOC	1	-	-	2	2		3
V	Liberal Arts (Extra-curricular and Co-curricular)	-	-	-	2	2	2	4
Total		46		180		140	140	

**Consolidated Semester wise and Component wise
Hours and Credits Distribution**

Semester	Part I		Part II		Part III		Part IV		Part V		Total	
	Hrs.	Credits	Hrs.	Credits	Hrs.	Credits	Hrs.	Credits	Hrs.	Credits	Hrs.	Credits
1	4	3	4	3	18	13	4	4	-	-	30	23
2	4	3	4	3	18	13	4	4	-	-	30	23
3	4	3	4	3	22	15	-	4	-	-	30	25
4	4	3	4	3	20	15	2	2	-	2	30	25
5	-	-	-	-	30	23	-	-	-	-	30	23
6	-	-	-	-	30	21	-	-	-	-	30	21
Total	16	12	16	12	138	100	10	14	-	2	180	140

Curriculum Framework

Semester – 1

Semester – 1									
Course Code	Part	Course Category	Course Name	Hours/ Week	Examination				Credits
					Duration in Hours	Max Marks			
						CIA	ESE	Total	
26TAM11L	I	Language- I	Tamil – I	4	3	25	75	100	3
26HIN11L	I		Hindi – I						
26MAL11L	I		Malayalam – I						
26FRE11L	I		French – I						
26ENG12L	II	Language- II	English – I	4	3	25	75	100	3
26BCS13C	III	Core – I	Computing Fundamentals and C Programming	5	3	25	75	100	4
26BCS14P	III	Core Lab – I	C Programming Lab	4	3	40	60	100	2
26BCS15C	III	Core – II	Responsive Web Design and Content Management	5	3	25	75	100	4
26BCS16A	III	Allied – I	Numerical Methods and Statistics	4	3	25	75	100	3
26ENV1FC	IV	FC – I	Environmental Studies	2	2	50	-	50	2
26SOF1AE	IV	AECC – I	Soft Skills	2	2	-	50	50	2
Total				30				700	23

Semester – 2									
Course Code	Part	Course Category	Course Name	Hours/ Week	Examination				Credits
					Duration in Hours	Max Marks			
						CIA	ESE	Total	
	I	Language – I	Tamil – II	4	3	25	75	100	3
	I		Hindi – II						
	I		Malayalam – II						
	I		French – II						
	II	Language– II	English – II	4	3	25	75	100	3
	III	Core – III	Java Programming	5	3	25	75	100	4
	III	Core Lab – II	Java Programming Lab	4	3	40	60	100	2
	III	Core – IV	Operating Systems	5	3	25	75	100	4
	III	Allied – II	Discrete Mathematics	4	3	25	75	100	3
	IV	FC – II	Human Rights	2	2	50	-	50	2
			Disaster Management						
	IV	AECC – II	Innovation & Design Thinking/	2	2	-	50	50	2
			Intellectual Property Rights /						
			Entrepreneurship Development						
Total				30				700	23

Semester – 3									
Course Code	Part	Course Category	Course Name	Hours/ Week	Examination				Credits
					Duration in Hours	Max Marks			
						CIA	ESE	Total	
	I	Language – I	Tamil – III	4	3	25	75	100	3
	I		Hindi – III						
	I		Malayalam – III						
	I		French – III						
	II	Language – II	English – III	4	3	25	75	100	3
	III	Core – V	Python Programming	6	3	25	75	100	4
	III	Core Lab – III	Python Programming Lab	4	3	40	60	100	2
	III	Core – VI	Data Structures	6	3	25	75	100	4
	III	Allied – III	Operation s Research	4	3	25	75	100	3
	III	SEC – I	Interactive Java Script Programming Lab	2	3	40	60	100	2
	IV	FC – III	Basic Tamil /	-	2	50	-	50	2
			Advanced Tamil /						
			Indian Knowledge Systems (IKS)						
	IV	AECC – III	Online Course – MOOC	-	-	50	-	50	2
Total				30				800	25

Semester – 4									
Course Code	Part	Course Category	Course Name	Hours / Week	Examination				Credits
					Duration in Hours.	Max Marks			
						CI A	ESE	Total	
	I	Language – I	Tamil – IV	4	3	25	75	100	3
			Hindi – IV						
			Malayalam – IV						
			French – IV						
	II	Language – II	English – IV	4	3	25	75	100	3
	III	Core – VII	Database Management System	5	3	25	75	100	4
	III	Core Lab – IV	Database Management System Lab	4	3	40	60	100	2
	III	Core – VIII	Software Engineering	5	3	25	75	100	4
	III	Allied – IV	Arduino Systems and Applications	4	3	25	75	100	3
	III	SEC Lab – II	ReactJS Development Lab	2	3	40	60	100	2
	IV	AECC – IV	Innovation & Design Thinking/	2	2	-	50	50	2
			Intellectual Property Rights/						
			Entrepreneurship Development						
	V	Extra-curricular and Co-curricular	Liberal Arts	-	2	50	-	50	2
Total				30				800	25

Semester – 5									
Course Code	Part	Course Category	Course Name	Hours /Week	Examination				Credits
					Duration in Hours	Max. Marks			
						CIA	ESE	Total	
	III	Core – IX	Artificial Intelligence and Expert Systems	5	3	25	75	100	4
	III	Core Lab – V	Node.js & MongoDB Lab	5	3	40	60	100	3
	III	Core – X	Linux & Shell Programming	5	3	25	75	100	4
	III	Core Lab – VI	Linux & Shell Programming Lab	5	3	40	60	100	3
	III	Core – XI	Visual Basic	5	3	25	75	100	4
	III	Elective – I	Cloud Services Management (Cloud Computing)	5	3	25	75	100	3
			Computer Networks and Security (Networking & Cyber Security)						
			Data Mining (Data Mining)						
	III	SEC – III	Internship	-	2	50	-	50	2
Total				30				650	23

Semester – 6									
Course Code	Part	Course Category	Course Name	Hours/ Week	Examination				Credits
					Duration in Hours	Max. Marks			
						CIA	ESE	Total	
	III	Core – XII	Graphics and Multimedia	6	3	25	75	100	4
	III	Core Lab -VII	Graphics and Multimedia Lab	5	3	40	60	100	3
	III	Core – XIII	Cybersecurity	6	3	25	75	100	4
	III	Elective – II	DevOps (Cloud Computing)	5	3	25	75	100	3
			Information Security Management (Networking & Cyber Security)						
			Big Data Analytics (Data Mining)						
	III	SEC – IV	Agile Software Development	2	3	40	60	100	2
	III	Core	Project Work	6	3	40	60	100	5
Total				30				600	21
Grand Total				180				4250	140

Semester – 1

Part – I: Language I – Tamil – I

Course Code	Course Name	Category	Hours / Week	Credits
26TAM11L	Tamil - I	Language – I	4	3

Course Objectives

The Course intends to cover

- இலக்கியத்தின் வளர்ச்சி நிலைகளைக் கற்பித்தல்
- மொழியியல் அடிப்படையில் இலக்கணம் கற்பித்தல்
- திறனாய்வு முறையினை ஊக்குவித்தல்
- படைப்பாக்கத் திறன் பயிற்சி அளித்தல்

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO	CLO Statements	Knowledge Level
CLO1	புதுக்கவிதையின் மூலம் வாழ்வியல் விழுமியங்களை உணர்ந்து கொள்வர்.	K1, K2
CLO2	சிறந்த மற்றும் வாழும் கவிஞர்களின் கவிதை வழியாக தர்மம், அன்பு, ஈகை போன்ற மனித மாண்புகளை அறிந்து கொள்வர்.	K2, K3
CLO3	சிறந்த படைப்பாளர்களின் சிறுகதைகள் மற்றும் குறுநாவலில் வெளிப்படும் சமூகச் சிந்தனைகளை அறிந்து ஒழுகுதல்.	K3
CLO4	தற்கால இலக்கியங்களான புதுக்கவிதை, சிறுகதை தோன்றி வளர்ந்த பின்புலத்தை அறிதல்.	K1, K3
CLO5	மொழித்திறனைக் கற்றலின் வாயிலாக நடைமுறை வாழ்வியலுக்குத் தேவையான சிறுகதை மற்றும் புதுக்கவிதைகளைப் படைத்தல்.	K2, K3
K1 - Remember; K2 - Understand; K3 – Apply		

Part – I: Language – I: தமிழ் - I

Unit	Content	No. of Hours
I	நாட்டுப்பற்று 1. பாரதியார் - உலகத்தை நோக்கி வினவுதல் 2. பாரதிதாசன் - தமிழ்ப்பேறு 3. கவிமணி - ஒற்றுமையே உயிர்நிலை 4. தேவதேவன் - சாலையும் மரங்களும் செருப்பும், புதிய வீடு 5. அப்துல் ரகுமான் - போட்டி, பாதை 6. கவிஞர் வாலி - புத்தகச் சந்தை	14
II	சமூகம் 1. ஈரோடு தமிழன்பன் - எட்டாவது சீர்... 2. கவிஞர் தாமரை - தொலைந்து போனேன் 3. நா. காமராசன் - திருநங்கைகள் காகிதப் பூக்கள் 4. வைரமுத்து - மரங்களைப் பாடுவேன் 5. அமுத பாரதி - புள்ளிப் பூக்கள் (ஹைக்கூ) 6. நாட்டுப்புறப் பாடல்கள் (தாலாட்டுப் பாடல், தெம்மாங்கு பாடல், உழவுத்தொழில்)	14
III	வாழ்வியல் சிறுகதை 1. காஞ்சனை - புதுமைப்பித்தன் 2. சோற்றுக் கணக்கு - ஜெயமோகன் 3. மரத்தைக் கர்ப்பம் சுமந்தவள் - ஆண்டாள் பிரியதர்சினி குறுநாவல் : ஆயிஷா – இரா.நடராசன்	12
IV	இலக்கிய வரலாறு 1. மரபுக்கவிதையின் தோற்றமும் வளர்ச்சியும் 2. புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும் 3. ஹைக்கூ கவிதையின் தோற்றமும் வளர்ச்சியும் 4. சிறுகதையின் தோற்றமும் வளர்ச்சியும்	10
V	இலக்கணம் மற்றும் படைப்பாற்றல் 1. எழுத்துகள் (முதல் எழுத்துகள், சார்பெழுத்துகள்) 2. எழுத்துக்களின் பிறப்பு 3. மாத்திரைகள் படைப்பாற்றல் திறன்(சிறுகதை மற்றும் புதுக்கவிதைப் படைத்தல்)	10
Total Hours		60

Reference Books

1	பேரா. குருசாமி, ம.ரா.போ. (2014), பாரதி பாடல்கள், ஆய்வுப் பாதிப்பு, தமிழ்ப் பல்கலைக் கழகம், தஞ்சாவூர்.
2	அப்துல் ரகுமான்,(2000), ஆலாபனை, கவிக்கோ பதிப்பகம்.
3	தாமரை, (1995), ஒரு கதவும் கொஞ்சம் கள்ளிப்பாலும் கவிதை தொகுப்பு, காந்தளகம் பதிப்பகம், சென்னை.
4	வரதராசனார் மு, (2021), தமிழ் இலக்கிய வரலாறு, சாகித்ய அகாடமி பதிப்பு.
5	முனைவர் பஞ்சாங்கம் கா, (2017), தமிழ் இலக்கிய வரலாறு, காவ்யா பதிப்பகம்.
6	முனைவர் வேங்கடராமன் கா. கோ (2008), தமிழ் இலக்கிய வரலாறு, கலையக வெளியீடு.
7	ஜெயமோகன், (2024), அறம் (சிறுகதை), விஷ்ணுபுரம் பதிப்பகம்.
8	இரா.நடராசன், (2022) ஆயிஷா, பாரதி புத்தகாலயம்.
9	குமரன் கோ (2010), தமிழ் இலக்கணம் எளிய அறிமுகம் , சந்தியா பதிப்பகம்.
10	சக்திவேல் சு,(2012), நாட்டுப்புறவியல், மணிவாசகர் பதிப்பகம்.

Part – I : Language I – Hindi – I

Course Code	Course Name	Category	Hours / Week	Credits
26HIN11L	Hindi - I	Language - I	4	3

Course Objectives

The Course intends to

- Improve grammatical knowledge
- Continue to read and learn about articles and think about them
- Read and understand short stories and understand the thoughts and life of the people of this country
- Provide translation knowledge and the ability to read and analyse a message are also gained

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO	CLO Statements	Knowledge Level
CLO1	Understand the text styles and grammatical elements.	K1
CLO2	Discuss the content of a reading passage.	K2
CLO3	Develop an interest in the appreciation of short stories.	K2, K3
CLO4	Comprehend the grammatical structures and sentence making.	K3
CLO5	Understand the language and developing English to Hindi translation skill.	K4
K1 - Remember; K2 - Understand; K3 – Apply; K4-Analyse		

Part – I: Language – I - Hindi - I

Unit	Content	No. of Hours
I	Prose : Bharthi Gadya Sangrah 1. Sanskurthi hai kya? (Lalith nibandh)- Ramdhari singh Dinkar 2. Voh cheeni Bhayi (Rekha chitra) – Mahadevi varma 3. Badthe shor ka gahratha sankat (pradoshan) - Rajendrakumr ray & Ravindra Varma 4. Ghar Loutthe huye – (Athma katha) – Harivamshraai Bacchan 5. Paramanu urja evam khadya padarth samrakshan (vaigyanik lek) - Parmaanurja vibhag (Bharth sarkar) 6. Cinema (film) – Manmohan Chdda	14
II	Non Detailed Text Short Stories: Aat Kahaniyan 1. Vrat-bang - Jayashankar Prasad 2. Sath gathi - Premchand 3. parda - Yespal 4. Apna apna bhagya - Jaynendrakumar 5. Bhrammarakshas ka shishya - Mukthibhodh 6. Dana-bhusa - Markandeya	14
III	Grammar : Shabdha Vichar only (Noun, Pronoun, Adjective, Verb, Tense, Case Endings) Theoretical & Applied.	12
IV	Translation : English – Hindi only Anuvadh Abhyas – III (1-15 Lessons only)	10
V	Comprehension: 1 Passage From Anuvadh Abhyas–III (16-30)	10
Total Hours		60

Text Books

1	Bharathi gadya sangrah, editor: Madhudhavan, publisher: Vani prakashan, 4697/5,Daryaganch, New Delhi – 110002.
2	Aatt Kahaniyan, Editor : Dr. H.R. Mihir, Publisher : Jaya bharthi prakashan, 267 B, Maya press Road, Allahabad–211 003

Reference Book

1	Naveenhindivvyakaran, 2002,Dakshin Bharat Hindi Prachar, Sabha,Chennai–600017
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Part – I: Language – I - Malayalam – I

Course Code	Course Name	Category	Hours / Week	Credits
26MAL11L	Malayalam - I	Language - I	4	3

Course Objectives

The Course intends to

- Improve grammatical knowledge
- Read and learn about articles and think about them
- Read and understand short stories and understand the thoughts and life of the people of this state
- Provide translation knowledge and the ability to read and analyze a message

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO	CLO Statements	Knowledge Level
CLO1	Understand the text styles and grammatical elements	K1
CLO2	Discuss the content of a reading passage	K1
CLO3	Develop an interest in the appreciation of short stories	K2
CLO4	Comprehend the grammatical structures and sentence making	K3
CLO5	Understand the language and developing English to Malayalam translation skill	K4
K1 - Remember; K2 - Understand; K3 – Apply ; K4-Analyse.		

Part – I: Language – I - Malayalam – I

Unit	Content	No. of Hours
I	Novel – Njanabharam - E. Santhoshkumar	14
II	Novel – Njanabharam - E. Santhoshkumar	14
III	Short Story - Ente Priyapetta Kadhakal – Sara Joseph	12
IV	Short Story - Ente Priyapetta Kadhakal – Sara Joseph	10
V	Composition & Translation (English to Malayalam)	10
	Total Hours	60

Text Books

- 1 Novel -Njanabharam - E. (2018) Santhoshkumar, Mathrubhumi Books, Kochi, Kerala.
- 2 Short Story-Ente Priyappeta Kadhakal -Sara Joseph, (2005) D.C.Books,Kottayam, Kerala.
- 3 Expansion of ideas, General Essay and Translation. (A Simple passage).

Reference Books

- 1 Malayala Novel SahithyaCharitram-K.M.Tharakan (2018) (N.B.S.Kottayam)
- 2 Cherukatha Innale Innu-M.Achuyuthan (2020) (D.C Books, Kottayam)
- 3 Sahithya Charitram Prasthanangalilude- Dr.K.M George, (2017) (D.C.Books Kottayam)
- 4 Malayala Sahithyavimarsam- Sukumar Azheekode (2022) (D.C.books)

Part – I: Language I – French - I

Course Code	Course Name	Category	Hours / Week	Credits
26FRE11L	French - I	Language - I	4	3

Course Objectives

The Course intends to cover

- Familiar everyday expressions and basic phrases aimed at the satisfaction of concrete needs.
- Key aspects and recognize of Francophone cultures such as greetings, etiquette, daily life, and basic geography of French-speaking countries.
- Short, simple texts such as postcards, emails, or short descriptions about themselves and their immediate environment.
- Construction of simple sentences using correct word order and basic vocabulary.
- The developing of sensitivity to cross-cultural differences in communication and social practices.
- The reading and understanding of short, simple texts such as personal messages, advertisements, menus, and schedules.

Course Outcomes

On the successful completion of the course, student will be able to

CLO	CLO Statements	Knowledge Level
CLO1	Improve all the four French language skills (speaking, listening, reading, and writing) (Effective communicators).	K1
CLO2	Comprehend French and other Francophone nations' cultures and civilizations.	K2
CLO3	Comprehend the fundamentals of language structure, vocabulary, grammar and phonetics (language skill).	K3
CLO4	The French DELF-A1 Certification is appreciated.	K4
K1 - Remember; K2 - Understand; K3 – Apply; K4-Analyse		

Part – I: Language – I French – I

Unit	Content	No. of Hours
I	Grammaire: pg(122-124) Bienvenue (pg 10-17)	14
II	Contacts(pg 18-28) Grammaire: pg(125-128)	14
III	Communication pg(29-33) Grammaire: pg(129-130)	12
IV	Qu'est-ce qu'il font pg(34-44) Grammaire: pg(131-136)	10
V	Communication pg(45-49) Grammaire: pg(137-139)	10
Semester I Portions from Textbook « Nouvelle Génération A1» :UNITÉ 1, UNITÉ 2 Cahier d'exercices (Pg122-139)		(Pg 10-49).
Total Hours		60

Reference Books

1	Luca Giachino, Carla Baracco, Romain Chrétien (DELF), (2022) Nouvelle Génération A1, Didier FLE.
2	Nathalie Hirschsprung, Tony Tricot, 2017, Cosmopolite, Hachette.

Part – II: Language – II - English –I
(All the Undergraduate Programmes)

Course Code	Course Name	Category	Hours / Week	Credits
26ENG12L	English-I	Language-II	4	3

Course Objectives

The course intends to cover

- Textual analysis of poetry and short stories that explore themes of *nature* and *morality*.
- Vocabulary through contextual guessing, lexical relations and diverse word formation processes.
- Usage of Grammar and Communication

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO	CLO Statements	Knowledge Level
CLO1	Identify and interpret poetic elements in nature poetry to nurture aesthetic sensibility, creativity, and cultural awareness.	K1, K2
CLO2	Apply characterization and narrative techniques to appreciate literary qualities in short stories and to comprehend ethical responsibility through textual analysis.	K2,K3
CLO3	Employ grammatical proficiency in nouns, pronouns, and verbs to enhance clarity and correctness in academic and workplace communication.	K3, K4
CLO4	Apply vocabulary strategies to enhance clarity in diverse communicative situations.	K3
CLO5	Demonstrate effective communication skills that support professional growth and lifelong learning.	K3
K1 - Remember; K2 - Understand; K3 – Apply; K4-Analyse		

Language II : Part II - English-I

Unit	Content	No. of Hours
I	Poetry : Nature 1. I Wandered Lonely as a Cloud - William Wordsworth 2. The Bird Sanctuary - Sarojini Naidu 3. Stopping by Woods on a Snowy Evening – Robert Frost	12
II	Short Stories: Morality 1. The Necklace – Guy de Maupassant 2. The Taxi Driver – K.S. Duggal 3. The Monkey’s Paw - W. W. Jacobs	12
III	Grammar 1. Nouns: Types, Singular vs. Plural forms, Case and Gender, Common errors with nouns 2. Pronouns: Types, Personal, Possessive, Reflexive, Intensive (Emphatic), Demonstrative, Relative, Interrogative, Indefinite, and Reciprocal pronouns, Common errors with pronouns 3. Verbs: Action verbs and linking verbs, Transitive and intransitive verbs, Auxiliary verbs and Modal verbs, Verb tenses, Common errors with verbs	12
IV	Language Competency: Vocabulary 1. Vocabulary: Synonyms, Antonyms, Guessing meaning from context, 2. Word Formation: Homonyms, Homophones, Homographs, Portmanteau words, Collocations, Compounding Words, Root Words, Prefixes and Suffixes, Clipping, Acronym, Abbreviations, Reduplication	12
V	English for Communication 1. Listening for General and Specific Information. 2. Self - Introduction, Introducing others, Greetings. 3. Intensive Reading - a prose passage, a poem and a short story 4. Descriptive writing – writing descriptive essays in two to three paragraphs.	12
Total Hours		60
Reference Books		
1.	Carter, R., McCarthy, M., Mark, G., & O’Keeffe, A. (2016). English Grammar Today. Cambridge University Press.	
2.	Swan, M. (2021). Practical English Usage (4 th ed.). Oxford University Press.	
3.	McCarthy, M., & O’Dell, F. (2017). English Vocabulary in Use: Advanced (3 rd ed.). Cambridge University Press.	
4.	Ramazani, J., Ellmann, R., & O’Clair, R. (Eds.). (2003). The Norton Anthology of Modern and Contemporary Poetry (Vols. 1–2). W. W. Norton & Company.	
5.	Wren, P. C., & Martin, H. (2015). High School English Grammar and Composition (50 th ed.). S. Chand & Company.	
6.	Jones, L. (2015). Cambridge English for Life Skills. Cambridge University Press.	
Web Resources (Swayam/NPTEL)		
1.	https://nptel.ac.in/courses/109105205	

Course Code	Course Name	Category	Hours / Week	Credits
26BCS13C	Computing Fundamentals and C Programming	Core – I	5	4

Course Objectives

The course intends to cover

- The fundamentals of Computer Programming.
- The techniques in C Programming.
- Usage of C Programming for Problem solving.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO	CLO Statements	Knowledge Level
CLO1	Understand the Computer fundamentals and techniques for problem solving.	K1, K2
CLO2	Understand the basic concepts of C Programming.	K2
CLO3	Summarize different decision making and looping statements available in C.	K2
CLO4	Demonstrate the concept of user defined Functions, Recursions, Scope and Lifetime of Variables, Structures and Unions.	K2
CLO5	Construct C programs using Pointers, Arrays and file management.	K3
K1 - Remember; K2 - Understand; K3 - Apply		

CLO – PLO Mapping

CLOs/PLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	3	3	2	2
CLO2	3	2	3	3	2
CLO3	3	3	3	2	2
CLO4	3	3	3	2	3
CLO5	3	3	3	3	2
3 - Substantial (high)		2 - Moderate (medium)		1 - Slight (low)	

Core – I: Computing Fundamentals and C Programming

Unit	Content	No. of Hours
I	Fundamentals of Computers & Problem Solving in C: Introduction - History of Computers - Generations of Computers - Classification of Computers - Basic Anatomy of a Computer System -Input Devices - Processor - Output Devices - Memory Management - AI Memory System - Types of Software - Overview of Operating System - Programming Languages - Translator Programs - Problem Solving Techniques.	15
II	Overview of C: Introduction - Character set - C tokens - keyword & Identifiers - Constants - Variables - Data types - Declaration of variables - Assigning values to variables - Defining Symbolic Constants - Arithmetic, Relational, Logical, Assignment, Conditional, Bitwise, Special, Increment and Decrement operators - Arithmetic Expressions - Evaluation of expression - Precedence of arithmetic operators - Type conversion in expression - Operator precedence & associativity - Mathematical Functions - Reading & Writing a character - Formatted input and output.	16
III	Decision Making, Looping and Arrays: Introduction - if, if... else, Nesting of, if...else statements - elseif ladder - the switch statement, The ?: operator - the goto Statement. Decision Making and Looping: Introduction - the while statement - the do statement - the for statement - jumps in loops. Arrays: Character Arrays and Strings.	14
IV	User - defined Functions, Structures and Unions: Introduction - need and elements of user - defined functions -Definition - Return Values and their types - Function Calls - Declarations - Category of Functions - Nesting of Functions – Recursion - Passing Arrays and Strings to Functions - The Scope, Visibility and Lifetime of Variables - Multifile Programs- Structures and Unions - Dynamic Memory Allocation – malloc(), calloc(), free().	15
V	Pointers & File Management: Pointers : Introduction - Understanding Pointers - Accessing the address of a variable - Declaration and Initialization of pointer variable - Accessing a variable through its pointer - Chain of Pointers - Pointer Expressions - Pointer Increments and Scale factor - Pointers and Arrays - Pointers and Strings - Array of Pointers - Pointers as Function Arguments - Functions returning Pointers - Pointers to Functions - Pointers and Structures. File Management in C.	15
Total Hours		75

Text Books

1.	E.Balagurusamy (2017), Computing Fundamentals & C Programming – 2 nd Edition, Tata McGraw-Hill.
2.	Yeswanth P Kanetkar, (2022), Let us C, 19 th Edition, BPB Publications.

Reference Books

1.	Ashok N Kamthane (2002), Programming with ANSI and Turbo C, Pearson.
2.	Henry Mullish & Hubert L. Cooper(1996), The Spirit of C, Jaico.
3.	Deitel & Deitel (2022), C How to Program, 9 th Edition, PHI/Pearson Education Asia.

Web Resources(NPTEL/Swayam)

1.	https://nptel.ac.in/courses/106106210
2.	https://nptel.ac.in/courses/106105171

Course Code	Course Name	Category	Hours /Week	Credits
26BCS14P	C Programming Lab	Core Lab – I	4	2

S. No.	List of Programs
	Sample programs.
1.	Write a C program to find the sum, average, standard deviation for a given set of numbers.
2.	Write a C program to generate n prime numbers.
3.	Write a C program to generate Fibonacci series.
4.	Write a C program to check whether a number is an Armstrong number.
5.	Write a C program to reverse a number.
6.	Write a C program to print magic square of order n where n>3 and n is odd.
7.	Write a C program to display day of the week using switch case.
8.	Write a C program to sort the given set of numbers in ascending order.
9.	Write a C program to check whether the given string is a palindrome or not using pointers.
10.	Write a C program to count the number of vowels in the given sentence.
11.	Write a C program to find the factorial of a given number using recursive function.
12.	Write a C program to print the students mark sheet assuming roll no, name, and marks in 5 subjects in a structure. Create an array of structures and print the mark sheet in the university pattern.
13.	Write a function using pointers to add two matrices and to return the resultant matrix to the calling function.
14.	Write a C program which receives two filenames as arguments and check whether the file Contents are same or not. If same delete the second file
15.	Write a program which takes a file as command line argument and copy it to another file. At The end of the second file write the total i) no of chars ii) no. of words and iii) no. of lines.
Total Hours	
60	
Text Books	
1.	E.Balagurusamy (2017), Computing Fundamentals & C Programming – 2 nd Edition, Tata McGraw-Hill.
2.	Yeswanth P Kanetkar, (2022), Let us C, 19 th Edition, BPB Publications.
Reference Books	
1.	Ashok N Kamthane(2002), Programming with ANSI and Turbo C, Pearson.
2.	Henry Mullish & Hubert L. Cooper(1996), The Spirit of C, Jaico.
3.	Deitel & Deitel (2022), C How to Program, 9 th Edition, PHI/Pearson Education Asia.
Web Resources (Swayam / NPTEL)	
1.	https://nptel.ac.in/courses/106106210
2.	https://nptel.ac.in/courses/106105171

Course Code	Course Name	Category	Hours / Week	Credits
26BCS15C	Responsive Web Design and Content Management	Core-II	5	4

Course Objectives

The Course intends to cover

- Semantic HTML5 for building well-structured, accessible, and SEO-optimized web pages.
- CSS3 layout models, responsive design, and animation techniques for creating modern web interfaces.
- Production of dynamic websites using responsive UI components and deploying in GitHub.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO	CLO Statements	Knowledge Level
CLO1	Understand the elements of HTML5.	K1, K2
CLO2	Apply CSS3 layout models and design responsive user interfaces.	K3
CLO3	Build production-ready responsive UI components.	K3
CLO4	Implement Git-based version control and deploy live websites using Netlify and Vercel.	K3
CLO5	Build and manage dynamic websites.	K3
K1 - Remember; K2 - Understand; K3 – Apply		

CLO – PLO Mapping

CLOs/PLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	2	3	2	1	1
CLO2	2	3	3	1	1
CLO3	2	3	3	2	2
CLO4	1	2	3	3	2
CLO5	2	3	3	2	2
3 - Substantial (high)		2 - Moderate (medium)		1 - Slight (low)	

Core - II: Responsive Web Design and Content Management

Unit	Content	No. of Hours
I	HyperText Markup Language (HTML5): Web Technologies Overview - HTML5 Document Structure - Semantic Elements - Text, Hyperlinks and Navigation - Images and Media - Forms and Validation - Tables - Accessibility and SEO - Browser DevTools and Emmet. Hands-on Exercises: 1. Build a college department page with semantic elements and SEO meta tags. 2. Create a validated registration form, an accessible timetable, and embed responsive video and images. 3. Build a 3-page website (Home, Events, Registration) with full HTML5 validation and accessibility.	15
II	Cascading Style Sheets (CSS3): CSS Fundamentals — Selectors, Specificity, Cascade - Box Model and Typography - Colors, Backgrounds and Gradients - Flexbox Layout - CSS Grid Layout - Positioning and Stacking Contexts - Responsive Design — Media Queries and Container Queries - Pseudo-classes and Pseudo-elements - Transitions, Animations and Scroll-driven Animations - Modern CSS — Variables, calc(), clamp(), Nesting, @layer. Hands-on Exercises: 1. Build a sticky Flexbox navbar and a CSS Grid dashboard with named areas and mobile collapse. 2. Create a spinner, glowing button, scroll progress bar, and dark/light theme using CSS variables. 3. Design a blog page with hero, 2-column grid, sticky sidebar, fluid typography, and dark mode.	15
III	Tailwind CSS: Utility-First Philosophy and Comparison with Bootstrap - Tailwind Setup — CDN, CLI, PostCSS - Core Utilities — Spacing, Sizing, Colors, Typography - Flexbox and Grid Utilities - Responsive Prefixes — sm:, md:, lg:, xl: - State Variants — hover:, focus:, active:, dark: - Tailwind Configuration — tailwind.config.js - @apply Directive and Reusable Components - Dark Mode - Typography Plugin and Headless UI Overview. Hands-on Exercises: 1. Build a full landing page — navbar, gradient hero, features grid, CTA — with dark mode support. 2. Design a 3-tier pricing table with ring-2 highlight; configure tailwind.config.js with custom brand colors and fonts. 3. Build a responsive dashboard — collapsible sidebar, stat cards, and data table — using Tailwind.	15

Unit	Content	No. of Hours
IV	Version Control, Markdown & Deployment: Git & GitHub: Introduction to Version Control - Core Git Commands - Branching, Merging and Conflict Resolution - Remote Repositories - GitHub — Fork, Pull Requests, .gitignore, GitHub Pages. Markdown: Markdown Syntax — Headings, Lists, Code Blocks, Tables, Links - GitHub Flavored Markdown (GFM) — Task Lists, Collapsible Sections - Writing Professional README.md — Badges, Screenshots, Contributing Guide. Deployment: Web Hosting Overview — Static vs Cloud Platforms - Netlify — Drag-and-Drop and Git-based Continuous Deployment - Vercel — GitHub Import, Preview Deployments, Custom Domains - Netlify vs Vercel — Feature Comparison - Custom Domain and HTTPS — DNS Configuration, SSL Certificates. Hands-on Exercises: 1. Create branches, merge, resolve a conflict, push to GitHub, and write a professional README.md with badges and a task list. 2. Deploy the Tailwind landing page to both Netlify (drag-and-drop + Git CD) and Vercel (GitHub import + preview deployments). 3. Manage the SaaS dashboard using Git Flow, write README and CHANGELOG, and deploy live on both platforms with custom subdomains.	15
V	CMS WordPress: Introduction to CMS — WordPress.org vs WordPress.com Installation and Setup — XAMPP, Directory Structure, wp-config.php - WordPress Dashboard and Settings - Posts and Pages — Gutenberg Block Editor - Themes — Customizer, Child Themes - Plugins — Yoast SEO, Contact Form 7, Elementor Overview - Menus, Widgets and Media Library - User Roles and Security - SEO with Yoast — Sitemap, Meta Descriptions, Focus Keywords - WooCommerce Overview and WordPress REST API. Introduction to AI-Powered Chatbots. Hands-on Exercises: 1. Install WordPress on XAMPP, create pages and blog posts using Gutenberg blocks, and customize a theme using the Theme Customizer. 2. Install Contact Form 7 (build and embed a form), configure Yoast SEO (sitemap, meta), and create a dropdown navigation menu. 3. Build a 5-page WordPress site with a child theme, Yoast SEO, contact form, 3 user roles, and deploy live on free hosting.	15
Total Hours		75
Text Books		
1.	Duckett J (2011). HTML and CSS: Design and build websites. John Wiley & Sons.	
2.	Frain B (2022). Responsive web design with HTML5 and CSS (4th ed.). Packt Publishing.	
3.	Chacon S & Straub B (2022). Pro Git (2nd ed.). Apress.	
4.	Williams B (2015). WordPress: The missing manual (3rd ed.). O'Reilly Media.	
Reference Books		
1.	Meyer E. A & Weyl E (2023). CSS: The definitive guide (5th ed.). O'Reilly Media.	
2.	Loeliger J., & McCullough M (2012). Version control with Git (2nd ed.). O'Reilly Media.	
Web Resources(NPTEL/Swayam/Others)		
1.	https://nptel.ac.in/courses/106106156	
2.	https://swayam.gov.in/nd1_noc21_cs86	
3.	https://www.claysys.com/blog/ai-chatbots/	

Part – III: Allied Course

(B.Sc. Computer Science / BCA / B.Sc. Information Technology / B.Sc. Computer Technology)

Course Code	Course Name	Category	Hours / Week	Credits
26BCS16A	Numerical Methods and Statistics	Allied	4	3

Course Objectives

The course intends to cover

- The fundamental concepts of numerical methods and their importance in solving mathematical problems computationally.
- The statistical methods with real-world computing problems such as machine learning and network analysis.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO	CLO Statements	Knowledge Level
CLO1	Illustrate numerical solutions of algebraic and transcendental equations.	K2
CLO2	Solve the numerical solutions of simultaneous linear equations using different methods.	K2
CLO3	Use of numerical methods to solve differentiation and integration of functions.	K2
CLO4	Apply measures of central tendency and measures of variation to grouped and ungrouped data.	K3
CLO5	Apply the results of correlation and regression analysis.	K3
K2 - Understand; K3 - Apply		

CLO – PLO Mapping

CLOs/PLOs	PLO1	PLO2	PLO3	PLO4	PLO5
CLO1	3	1	1	1	1
CLO2	2	2	2	1	2
CLO3	2	2	2	1	2
CLO4	2	2	2	1	2
CLO5	1	2	2	2	1
3 - Substantial (high)		2 - Moderate (medium)		1 - Slight (low)	

Allied - I: Numerical Methods and Statistics

Unit	Content	No. of Hours
I	The Solution of Numerical Algebraic and Transcendental Equations: Bisection Method - Iteration Method - Convergence Condition – Regula Falsi Method – Newton - Raphson Method	12
II	Solution of Simultaneous Linear Algebraic Equations: Gauss Elimination Method - Gauss Jordan Method- Gauss Jacobi Method - Gauss Seidel Method.	12
III	Numerical Differentiation: Newton's Forward Difference - Newton's Backward Difference - Derivative using Stirling's formula. Numerical Integration: Trapezoidal rule -Simpson's $1/3^{\text{rd}}$ and $3/8^{\text{th}}$ rules.	12
IV	Measures of Central Tendency: Mean- Median-Mode - Central Tendency in IKS. Measures of Dispersion: Range- Standard Deviation- Co-efficient of Variation.	12
V	Correlation: Meaning and Definition- Scatter Diagram-Karl Pearson's Co-efficient of correlation-Spearman's Rank Correlation. Regression: Meaning and Uses of Regression -Two Regression Lines-Methods of Forming the Regression Equations.	12
Total Hours		60
(Problems – 100%)		
Text Books		
1	P. Kandasamy, K.Thilagavathy & K. Gunavathi (2007), Numerical methods, S. Chand and Company Ltd, New Delhi. Unit I : Chapter 3 : Section 3.1 – 3.4 Unit II : Chapter 4 : Section 4.1, 4.2, 4.8, 4.9 Unit III: Chapter 9 : Section 9.1 – 9.4	
2	P.A.Navanitham (2023)., Business Mathematics and Statistics, Jai Publishers. Part II Unit IV: Chapter 7 : Pg. No. 159 – 250 Chapter 8 : Pg. No. 301 – 307, 325 – 368 Unit V: Chapter 12 : Pg. No. 503 – 522, 540 – 578	
Reference Books		
1	K. Sankara Rao (2018), Numerical Methods for Scientists and Engineers, Prentice Hall India.	
2	P.R.Vittal (2003), Business Mathematics, Margham publications 2 nd edition.	
Web Resources (Swayam / NPTEL/Others)		
1	https://archive.nptel.ac.in/courses/111/107/111107105/	
2	https://infinitylearn.com/maths/central-tendency	

Part – IV : Foundation Course**(All the Undergraduate Programmes)**

Course Code	Course Name	Category	Hours / Week	Credits
26ENV1FC	Environmental Studies	FC- I	2	2

Unit	Content
I	The Multidisciplinary nature of environmental studies Definition; Scope and importance, Need for public awareness.
II	Natural Resources: Renewable and non-renewable resources: Natural resources and associated problems. - Forest resources: Use and Over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people. - Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams benefits and problems. - Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. - Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. - Energy resources: Growing energy needs, renewable and non-renewable energy sources, use of alternate energy sources, Case studies. - Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles.
III	Ecosystems - Concept of an ecosystem. - Structure and function of an ecosystem. - Producers, consumers and decomposers. - Energy flow in the ecosystem. - Ecological succession. - Food chains, food webs and ecological pyramids. - Introduction, types, characteristic features, structure and function of the following ecosystem: - a. Forest ecosystem b. Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries).

Unit	Content
IV	Biodiversity and its Conservation - Introduction-Definition: genetic, species and ecosystem diversity. - Bio geographical classification of India. - Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values. - Biodiversity at global, National and local levels. - India as a mega-diversity nation. - Hot-spots of biodiversity. - Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. - Endangered and endemic species of India. - Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
V	Environmental Pollution Definition - Causes, effects and control measures of: - a. Air pollution b. Water pollution c. Soil pollution d. Marine pollution e. Noise pollution f. Thermal pollution g. Nuclear hazards - Solid waste Management: Causes, effects and control measures of urban and industrial wastes. - Role of an individual in prevention of pollution. - Pollution case studies. - Disaster management: floods, earthquake, cyclone and landslides.
VI	Social Issues and the Environment - From Unsustainable to Sustainable development. - Urban problems related to energy. - Water conservation, rain water harvesting, watershed management. - Resettlement and rehabilitation of people; its problems and concerns. Case studies. - Environmental ethics: Issues and possible solutions. - Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies. - Wasteland reclamation. - Consumerism and waste products. - Environment Protection Act. - Air (Prevention and Control of Pollution) Act. - Water (Prevention and Control of Pollution) Act. - Wildlife Protection Act. - Forest Conservation Act. - Issues involved in enforcement of environmental legislation. - Public awareness.

Unit	Content
VII	Human Population and the Environment - Population growth, variation among nations. - Population explosion-Family welfare Programme. - Environment and human health. - Human Rights. - Value Education. - HIV/AIDS. - Women and Child Welfare. - Role of information Technology in Environment and human health. - Case Studies. Biosafety and Biosecurity The basic principles of biosafety. - Biological hazards and assess risk in laboratory settings. - Biosafety protocols to minimize risks associated with biological agents. - Role of biosafety in the protection of public health, environment, and national security. The theoretical knowledge as well as practical applications to prepare learners for real-world biosafety challenges.
	1. Introduction to Biosafety - Definition and importance of biosafety. - Historical perspective on biosafety incidents. - Biosafety vs. biosecurity: Key differences. 2. Biological Hazards and Risk Assessment - Classification of biological agents (e.g., bacteria, viruses, fungi, parasites). - Risk assessment methodology: Identifying hazards, evaluating risks, and control measures. 3. Biological Waste Management - Types of biological waste: Solid, liquid, sharps, etc. - Waste disposal techniques: Autoclaving, incineration, chemical disinfection. - Environmental impact and regulations surrounding waste management. 4. Standard Operating Procedures (SOPs) and Safety Practices - Developing and implementing SOPs for laboratory safety. - Practices for handling, storing, and disposing of biological materials.
VIII	Field Work (Practical). - Visit to a local area to document environmental assets-river/forest/grassland/hill/mountain. - Visit to a local polluted site-Urban/Rural/Industrial/Agricultural. - Study of common plants, insects, birds. - Study of simple ecosystems-pond, river, hill slopes, etc.
Total Hours	
30	
Reference Resources	
1.	https://www.ugc.gov.in/oldpdf/modelcurriculum/env.pdf
2.	Biosafety in Microbiological and Biomedical Laboratories (CDC, NIH). (BMBL) 6 th Edition
3.	Sateesh, M. K. (2010). Bioethics and Biosafety. New Delhi: I. K. International Pvt Ltd.
4.	Additional Readings: Relevant journal articles, government publications, and guidelines (e.g., WHO, CDC, European Union, etc.). https://www.iberdrola.com/innovation/what-is-biosafety

Part – IV : Ability Enhancement Compulsory Course(AECC)
(All the Undergraduate Programmes)

Course Code	Course Name	Category	Hours / Week	Credits
26SOF1AE	Soft Skills	AECC - I	2	2

Course Objectives

The course intends to cover

- The essential soft skills that is crucial for success in today's dynamic and interconnected workplace.

Course Learning Outcomes

On the successful completion of the course, students will be able to

CLO	CLO Statements	Knowledge Level
CLO1	Understand the comprehensive skills to participate actively in conversation, writing short texts with expression	K1, K2, K3
CLO2	Infer the cohesive devices to describe and discuss any objects, pictures using compound, complex sentence forms.	K2, K3
CLO3	Comprehend the logic in the given situation to organize the ideas to write formal and informal letters.	K2, K3
CLO4	Understand the given material to organize it in a logical sequence to present a paragraph with main and supporting ideas with concluding sentences.	K3
CLO5	Present valuable ideas in conversation to emulate the main ideas and key points in short essays.	K3
K1 - Remember; K2 - Understand; K3 - Apply;		

Ability Enhancement Compulsory Course(AECC) - I : Soft Skills

Unit	Module	Details	No. of Hours
I	Presentation Skills		
	1	Getting to Know You: Grammar: Introduction to Tenses, Everyday English, Role-Play. Reading Activity: Different ways of communication. <i>Activities:</i> Fill in the blanks (Listening), Self Introduction (Speaking).	6
	2	My Day: Grammar: Present simple positive & negative/Adverbs of Frequency, Vocabulary & Speaking about Daily Activities. Listening: Observe and Answer/ Telling the time. <i>Activities:</i> Reading & Writing: Describe where you live.	
	3	Your World: Grammar: Possessive determiners. Listening: Positive & negative contractions. Reading & Writing: Personal profile. <i>Activities:</i> Talk about countries, nationalities (Vocabulary & Speaking).	
	4	The World of Work: Grammar: Yes/No & Wh Questions. Vocabulary & Speaking: Jobs. Listening: Recognize the schwa sound. <i>Activities:</i> Opening and closing an email (Reading & Writing).	
	5	Places and Things: Grammar: There is / there are, articles. Vocabulary & Speaking: Talk about rooms & furniture. Listening: Directions. Reading & Writing: Imperatives.	
	6	24 Hours: Grammar: Likes & Dislikes. Vocabulary & Speaking: Speak about hobbies and interests. Reading: Match the photos with descriptions. Writing: Write complete sentence using prompt. <i>Activities:</i> Observe & answer (Listening).	
		Practice: Listening & Speaking Presentations - Talking about how you learn – Understanding key information in a presentation – Writing sentences about you.	
II	Confidence		
	1	Clothes and Shopping: Grammar: Modal verbs/Adverbs of Frequency/Adjectives and Adverbs. Vocabulary & Speaking: Shopping. Reading & Writing: Product Review. <i>Activities:</i> Observe & answer (Listening).	6
	2	Travel & Transport: Grammar: Past simple questions. Vocabulary & Speaking: Talk about holidays. Listening: At the train station. <i>Activities:</i> Email - A perfect holiday (Reading & Writing).	
	3	Health & Fitness: Grammar: Past simple irregular verbs; Listening: Listen & Answer; Reading & Writing: Time sequencers; <i>Activities:</i> Talk about a healthy lifestyle (Vocabulary & Speaking)	
	4	Music: Grammar: Present perfect simple; Vocabulary & Speaking: Survey about music; Listening: Listen two people talk about music; <i>Activities:</i> Use adjectives and create sentences (Reading)	
	5	Let's go shopping: Vocabulary & Speaking: Town Survey; Listening: Listen and answer; Reading & Writing: Read and match; <i>Activities:</i> Countable & Uncountable (Grammar)	
		Practice: Writing a personal statement.	

Unit	Module	Details	No. of Hours
III	Creativity		6
	1	Cooking & Eating: Grammar: Some & Any, Quantifiers. Vocabulary & Speaking about Food & Drink. <i>Activities</i> Kitchen conversation (Listening). Reading an article & answering.	
	2	Survival: Grammar: Comparison of adjectives. <i>Activities</i> Describing people (Speaking and Vocabulary). Listening to an audio & Answering. Reading & Writing: Read and Answer.	
	3	Working Together: Grammar: Verb + Noun phrases. <i>Activities</i> Technology (Vocabulary & Speaking). Listening: Listen & Answer. Reading & Writing: Notice.	
	4	Music: Grammar: Present perfect simple. <i>Activities</i> Survey about music (Vocabulary & Speaking). Listen to two people talking about music (Listening). Reading: Use adjectives and create sentences.	
	5	Culture and Arts: Grammar: Present perfect. Vocabulary & Speaking activity: Speak on the phone. <i>Activities:</i> Listen and answer. Reading & Writing activity: Review.	
		Practice: Writing comparison sentences & paragraphs.	
IV	Problem-Solving		6
	1	Do's and Don'ts: Grammar, Modal Verbs. <i>Activities</i> Roleplay (Speaking). Holidays in January (Listening). Reading an article & answering.	
	2	Body: Grammar: First conditional. Vocabulary & Speaking about Personality & Appearance. <i>Activities</i> Conversations about personality (Listening), Reading & Writing: Read and Answer about your skills.	
	3	Speed: Grammar: Present simple passive. Vocabulary & Speaking about relationships. Listening: Listen & Answer. Reading and Error spotting.	
	4	Work: Grammar: Adverbs of manner. Vocabulary & Speaking about work advice. Listening: Observe & Answer; Reading: Read & check your ideas.	
		Practice: Writing argumentative and descriptive essays.	
V	Critical Thinking		6
	1	Influence: Grammar: would / past habits. Listening: Sentence Correction. <i>Activities</i> Your inspiration (Speaking). Picture description (Reading). Rewrite the sentences (Writing).	
	2	Money: Grammar: Second conditional. <i>Activities:</i> Radio programme (Listening). Talk about games (Speaking). Reading & Writing: Fill in the blanks.	
	3	Things that changed the world: Grammar: articles. <i>Activities</i> :Talk about chewing gum (Speaking & Listening). Reading & Writing: Read and write a book review.	
		Practice: Writing Emails, reports and proposals.	
Total Hours			30

Components for Internal Assessment and Distribution of Marks for CIA and ESE (Theory)

Max Marks	Marks for		Components for CIA						
100	CIA	ESE	CIA		Model		Attendance	Active Engagement	Total
	25	75	Actual	Weightage	Actual	Weightage	5	5	25
			50	5	75	10			

Question Paper Pattern

Component	Duration in Hours	Section A			Section B			Section C			Total
		Type of Question	No. of Questions	Marks	Type of Question	No. of Questions	Marks	Type of Question	No. of Questions	Marks	
CIA	2	MCQ	8	8x1=8	Either or	3	3x6=18	Either or	3	3x8=24	50
Model Exam / ESE	3	MCQ	10	10x1=10	Either or	5	5x5=25	Either or	5	5x8=40	75

Components for Internal Assessment and Distribution of Marks for CIA (Lab)

Max Marks	Marks for		Components for CIA						
	CIA	ESE	Test		Model		Experiments / Programs	Observation	Total
	100	40	60	Actual	Weightage	Actual	Weightage	Marks	5
50				10	60	15	10		

Examination Pattern

Component	Duration in Hours	Marks			Weightage
		Practical Exam	Record	Total Marks	
Test	2	50	-	50	10
Model	3	60	-	60	15
Experiments Completed	-	-	-	10	10
Observation Note	-	-	-	05	05
Total Marks - CIA					40
ESE	3	50	10	-	60

Components for Internal Assessment and Distribution of Marks for CIA (Foundation Course -Theory)

Max Marks	Marks for		Components for CIA				
50	CIA	ESE	CIA		Model		Total
			Actual	Weightage	Actual	Weightage	
	50	-	50	25	50	25	50

Question Paper Pattern

Duration in Hours	Mode of Exam	Type of Questions	No. of Questions	Marks
2	Offline	Open Choice	5 (Out of 8)	5 x 10=50

**Components for and Distribution of Marks for ESE (Theory)
Ability Enhancement Compulsory Courses (AECC)
&
Question Paper Pattern**

Duration in Hours	Mode of Exam	Type of Questions	No. of Questions	Marks
2	Online	MCQ	50	50x1=50



