<u>Detailed</u> <u>SyllabusLecture-wise</u> <u>Breakup</u>

Course Code	15B11HS112	Semester: Odd Semester:I Session 2020-2021		Session 2020-2021	
			Mon	h from	July 20 to Dec 20
Course Name	English				
Credits	3		Contact Hours		2-1-0

Faculty (Names)	Coordinator(s)	Dr Monali Bhattacharya (Sect 62) Dr NiluChaudhary(Sect128)	
	Teacher(s) (Alphabetically)	Dr AnshuBanwari, Dr EktaSrivastava, Dr Monali Bhattacharya, Dr NiluChaudhary, Ms PuneetPannu , Ms Rashmi Jacob, Dr Santosh Dev	

COURSE OUTCOMES		COGNITIVE LEVELS
C114.1	Develop an understanding and appreciate the basic aspects of English as a communication tool.	Understand (C2)
C114.2	Apply the acquired skills in delivering effective presentations	Apply (C3)
C114.3	Demonstrate an understanding of different forms of literature and rhetorical devices	Understand (C2)
C114.4	Examine literature as reflection of individual and society	Analyse (C4)
C114.5	Compose different forms of professional writing	Create (C6)
C114.6	Apply Phonetics through theory and practice for better pronunciation	Apply (C3)

Module No.	Title of the Module	Topics in the Module	No. of Lectures for the module
1.	English as a	Basic aspects of English	10
	Communication Tool	·LSRW: Listening, Speaking, Reading, Writing	
		Non Verbal Communication: Body Language, Voice	
		Modulation, Posture	
		Gambits	
		Phonetics: Pronunciation, Stress, Rhythm, Intonation	

2.	Language through	Short Stories	10	
Literature		·Too Bad by IsaacAsimov		
		·The Castaway by RabindranathTagore		
		Poems		
		·The Highwayman by AlfredNoyes		
		·"If" by RudyardKipling		
		·Ode to Clothes by PabloNerruda		
		One act Play		
		Refund by FritzKarinthy		
		Famous Speech		
		·Swami Vivekanand's ChicagoSpeech		
3.	Professional	Textual Organization	8	
	Application/Writing	·LetterWriting		
		·Circulars		
		·Notices		
		·Agenda		
		·Minutes		
		·ReportWriting		
		Total number of Lectures	28	
Evalua	tion Criteria			
Compo	onents N	MaximumMarks		
T1 -		20		
T2		20		
I	nesterExamination	35		
TA		25 (Project, Assignment)		
Total		100		

Recommended Reading material: Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format) C.L.Bovee, J.V.Thill, M.Chaturvedi, Business Communication Today, 9th Ed, Pearson Education, 1. copyright@ Dorling Kinderslay (India) Pvt Ltd,2009 Kelly M. Quintanilla and S.T.Wahl, Business and Professional Communication, Sage Publications Pvt 2. India Ltd,2011 S. Kumar and PushpLata, Communication Skills, Oxford University Press, 1st, Ed. 2011 3. R.K Bansal, and J.B Harrison, Spoken English for India, Orient Longman, 2018 4. Alfred Noyes, "The Highwayman", Oxford University Press, USA, Sep 1999 5 Rabindranath Tagore, "Where the Mind is without Fear", BK Classics 6

7	Rudyard Kipling, "If", If Handbook, Creative Editions, 2014					
8	Pablo Neruda, "Ode To Clothes" Late & Posthumous Poems, 1968-74					
9	Isaac Asimov, "Too Bad", Robot Visions, ROC Books, New York, NY, USA, 1991					
10	RabindraNath Tagore, "The Castaway", Selected Short Stories, Introduction & translated by William Radice", Penguin Classics, 2005					
11	Fritz Karinthy, "The Refund", A Play in One Act adapted by Percival Wilde, French's Acting Edition, London, 1958					
12	Swami Vivekananda &SankarSrinivasan, "Sisters & Brothers of America: Speech at World Parliament of Religions, Chicago, 1893", Creative Space Independent Publishing Platform, 2015					

Detailed Syllabus Lab-wise Breakup

Course Code	15B17CI171	Semester ODD	Semester: 1st Session: 2020 -2021		
			Month from: Aug –Dec		
Course Name	Software Deve	elopment Fundamentals Lab-1			
Credits	1	Contact Hours	4		

Faculty	Coordinator(s)	Dr. Dharmveer Singh Rajpoot (J62), Ms. Kritika Rani (J128)
(Names)	Teacher(s) (Alphabetically)	Akanksha Mehndiratta, Alka, Amanpreet Kaur, Amarjeet, Ambalika Sarkar, Amrit Pal Singh, Anita Sahoo, Ankita, Anubhuti Mohindra, Anuja Arora, Aparajita Nanda, Archana Purwar, Arpita Jadhav Bhatt, Arti Jain, Avinash Pandey, Bansidhar Joshi, Bharat Gupta, Bindu Verma, Charu, Chetna Dabas, Chetna Gupta, Deepti, Dhanalakshmi G, Gagandeep Kaur, Gaurav Kumar Nigam, Himani Bansal, Himanshu Agrawal, Himanshu Mittal, Indu Chawla, K Vimal Kumar, Kashav Ajmera, Kavita Pandey, Kirti Aggarwal, Manju, Mradula Sharma, Mukta Goyal, Neeraj Jain, Nitin Shukla, Niyati Aggrawal, Parmeet Kaur, Parul Agarwal, Pawan Kumar Upadhyay, Pawan Mehra, Payal Khurana Batra, Potukuchi Raghu Vamsi, Prantik Biswas, Pulkit Mehndiratta, Raju Pal, Rashmi Kushwah, Rupesh Kr. Koshariya, Sakshi Agarwal, Sangeeta Mittal, Sarishty Gupta, Shailesh Kumar, Shardha Porwal, Shariq Murtuza, Sherry Garg, Shikha Mehta, Shikha Jain, Shilpa Budhkar, Shruti Jaiswal, Shulabh, Somya Jain, Sonal, Suma Dawn, Swati Gupta, Taj Alam, Varsha Garg, Vartika Puri, Vivek K. Singh

COURS	COURSE OUTCOMES		
C172.1	Develop programs/logic for data types, expressions and	Apply (level 3)	
	conditional structure.		
C172.2	Perform programs for array and functions.	Apply (level 3)	
C172.3	Implement programs for structure and union.	Apply (level 3)	
C172.4	Perform programs of pointers and recursive functions.	Apply (level 3)	
C172.5	Implement menu driven programs to perform basic file	Apply (level 3)	
	operations.		

Module No.	Title of the Module	Topics in the Module	No. of Weeks (2 Labs/Week)
1	Flow chart and Logic Building	Developing logic/flow-chart/pseudo code to solve problems, simple/logical games, puzzles	2 Weeks

Control Flow Develop C programs using conditional structure (if, if-else, nested if), and iterative control structure (do-while, while, for). Implement switch case statement.	2	Statements, Expressions, Operators operators – binary, unary, ternary, operator precedence, associativity		1 Week		
String operations with array, one dimensional, two-dimensional array, strings, and related operations like addition, multiplication, traversal, transpose etc. 5 Functions User defined functions and inbuilt functions, Functions definition, declaration, calling, Pass by value, functions with array 6 Structures and Union Structure and Union, Structure variable, dot operator, arrow operator, Array of Structures, structure using functions. 7 Pointers Pointers in C, Dynamic memory allocation for 1D/2D array and structures, Arithmetical operations on pointers, functions like palindrome, factorial, fibonacci series, number system etc 8 File Handling File creation, Modes of File Handling like read, write, update; different types of files like binary file and text file and respective operations like, opening, closing, reading, writing, end of file, traversing the file for structured and unstructured data Total Number of Weeks Evaluation Criteria Components Maximum Marks Lab Test -1 20 Lab Test -2 20 Day to Day 60 Evaluation 1 15 Evaluation 2 15 Project 15 Attendance 15	3	Control Flow	(if, if-else, nested if), and iterative control structure (do-while, while, for).			
Functions definition, declaration, calling, Pass by value, functions with array 6 Structures and Union Structure and Union, Structure variable, dot operator, arrow operator, Array of Structures, structure using functions. 7 Pointers Pointers in C, Dynamic memory allocation for 1D/2D array and structures, Arithmetical operations on pointers, functions using pass by reference, recursive functions like palindrome, factorial, fibonacci series, number system etc 8 File Handling File creation, Modes of File Handling like read, write, update; different types of files like binary file and text file and respective operations like, opening, closing, reading, writing, end of file, traversing the file for structured and unstructured data Total Number of Weeks Evaluation Criteria Components Maximum Marks Lab Test -1 20 Lab Test -2 20 Day to Day 60 Evaluation 1 15 Evaluation 2 15 Project 15 Attendance 15	4	•	operations with array, one dimensional, two- dimensional array, strings, and related operations like addition, multiplication,	2 Weeks		
Union variable, dot operator, arrow operator, Array of Structures, structure using functions. Pointers Pointers in C, Dynamic memory allocation for 1D/2D array and structures, Arithmetical operations on pointers, functions using pass by reference, recursive functions like palindrome, factorial, fibonacci series, number system etc File Handling File creation, Modes of File Handling like read, write, update; different types of files like binary file and text file and respective operations like, opening, closing, reading, writing, end of file, traversing the file for structured and unstructured data Total Number of Weeks Evaluation Criteria Components Maximum Marks Lab Test -1 20 Lab Test -2 20 Day to Day 60 Evaluation 1 15 Evaluation 2 15 Project 15 Attendance 15	5	Functions	Functions definition, declaration, calling, Pass	1 Week		
Total Number of Weeks	6		variable, dot operator, arrow operator, Array of	2 Weeks		
File Handling File creation, Modes of File Handling like read, write, update; different types of files like binary file and text file and respective operations like, opening, closing, reading, writing, end of file, traversing the file for structured and unstructured data Total Number of Weeks Evaluation Criteria Components Maximum Marks Lab Test -1 20 Lab Test -2 20 Day to Day 60 Evaluation 1 15 Evaluation 2 15 Project 15 Attendance 15	7	Pointers	1D/2D array and structures, Arithmetical operations on pointers, functions using pass by reference, recursive functions like palindrome,	2 Weeks		
Evaluation Criteria Components Lab Test -1 Lab Test -2 Day to Day Evaluation 1 Evaluation 2 Project Attendance Maximum Marks 20 60 15 15 15 15 15 15 15 15 15 1	8	File Handling	write, update; different types of files like binary file and text file and respective operations like, opening, closing, reading, writing, end of file, traversing the file for structured and	2 Weeks		
ComponentsMaximum MarksLab Test -120Lab Test -220Day to Day60Evaluation 115Evaluation 215Project15Attendance15	Total Nu	imber of Weeks		14 Weeks		
Lab Test -1 20 Lab Test -2 20 Day to Day 60 Evaluation 1 15 Evaluation 2 15 Project 15 Attendance 15						
Day to Day Evaluation 1 Evaluation 2 Project Attendance 60 15 15 15 15 15 15	Lab Test -1		20			
Evaluation 1 15 Evaluation 2 15 Project 15 Attendance 15						
Project 15 Attendance 15	Evaluation 1					
Attendance 15	_ :					
Total 100						
	Total		100			

Recommended Reading material: Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)

- H. Cooper and H. Mullish, Jaico Publishing House. "Spirit of C", 4th Edition, Jaico Publishing House, 2006
- 2 Herbert Schildt. "The Complete Reference C", 4th Edition, TMH, 2000

- Brian W. Kernighan and Dennis M. Ritchie ,"The C Programming Language", 2nd Edition, Prentice-Hall India, New Delhi, 2002
 Peter Norton, "Introduction to Computers", 5th edition, Tata McGraw-Hill, Delhi., 2005.
 Balaguruswamy, Programming in ANCI C", 2nd Edition, TMH, 2001.
 Ashok N. Kamthane , "Programming with ANSI and Turbo C", Pearson Education, Delhi, 2003
 Rajaraman V., "Fundamentals of Computer", 3rd Edition, Prentice-Hall India, New Delhi,
- Rajaraman V., "Fundamentals of Computer", 3rd Edition, Prentice-Hall India, New Delhi, 2005.
- B. A. Forouzan, R. F. Gilberg "Computer Science: A Structured Programming Approach Using C", 2nd Edition, Thomson Press, New Delhi, 2006.
- 9 Avi Silberschatz, Henry F. Korth, and S. Sudarshan, "Database System Concepts", 6th edition, McGraw-Hill, 2010.

<u>Detailed Syllabus</u> Lecture-wise Breakup

Course Code	15B11PH111	Semester: Od Semester	d		er: 1 st Session: 2020 -2021 fromJune21 to July 21 ed)
Course Name	PHYSICS-1				
Credits	4		Contact I	Hours	3+1

Faculty (Names)	Coordinator(s)	Anshu D. Varshney & Ashish Bhatnagar
	\1 xipiiabcicaii \ /	AlokPratap Singh Chauhan, Anuj Kumar, AnurajPanwar, AnshuD. Varshney, Ashish Bhatnagar, ManojTripathi,Papia Chowdhury, R.K. Dwivedi.S. C. Katyal, Suneet Awasthi

COURSE	OUTCOMES	COGNITIVE LEVELS
C101.1	Recall the basic principles of physics related to optics, relativity, quantum mechanics, atomic physics and thermodynamics.	Remembering (C1)
C101.2	Illustrate the various physical phenomena with interpretation based on the mathematical expressions involved.	Understanding (C2)
C101.3	Apply the concepts/principles to solve the problems related to wave nature of light, relativity, quantum mechanics and atomicphysics.	Applying (C3)
C101.4	Analyze and examine the solution of the problems using physical and mathematical concepts involved.	Analyzing (C4)

Module No.	Title of the Module	Topics in the Module	No. of Lectures for the module			
1.	Physical Optics	Analytical treatment of interference, Intensity distribution of fringe system, Fresnel's Biprism, Newton's rings, Michelson interferometer, Diffraction (limited to Fraunhoffer class) from Single slit, double slit and Diffraction grating, Polarization, Phenomenological understanding of Birefringence, Principles of use of uniaxial crystals in practical polarizers, compensators and wave plates, Production and analysis of completely polarized light. Optical activity, Polarimeter	15			
2.	Relativity	Michelson-Morley experiment, Lorentz transformations, Addition of velocities, Mass variation with velocity, Massenergy relation.	5			
3.	Radiation	Black body radiation, Wein's law, Rayleigh Jeans law, Planck's law of radiation.	3			
4.	Quantum Mechanics	Wave-particle duality, Compton scattering, Matter waves, Heisenberg's uncertainty principle, Schrödinger wave equation and its applications to the free particle in a box, potential barrier and Harmonic oscillator.	9			
5.	Atomic Structure	Origin of spectral lines, spin and orbital angular momentum, Quantum numbers, Atoms in magnetic field, Zeeman effect.	4			
6.	Thermodynamics	Review of the basic laws of thermodynamics, Entropy and Clausius-Cleyperon equation.	4			
	Total number of Lectures 4					

Eval	luation	Crito	ria
r,va	шапоп	Crue	ГІИ

7.

Components Maximum Marks

Mark W. Zemansky, Thermodynamics, Tata McGraw Hill.

T1 20 T2 20 End Semester Examination 35

TA 25 [2 Quiz (7M), Attendance (7M), PBL(6M) and Class performance (5M)]

Total 100

Recommended Reading material: Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)
 A. K. Ghatak, Optics, Tata McGraw Hill.
 E. Hecht, Optics, Pearson Education.
 F. A. Jenkins and H. E. White, Fundamentals of optics, Tata McGraw Hill.
 R. S. Sirohi, Wave Optics, Orient and Longman.
 Reshnick, Relativity, New Age.
 A. Beiser, Concepts of Modern Physics, Mc Graw Hill International.

<u>Detailed Syllabus</u> Lab-wise Breakup

Course Code	15B17PH171	Semester:ODD		Semester: 1 st Session:2020 -2021 Month fromJune21 toJuly 21 (deferred)		
Course Name	Physics Lab-1					
Credits	01		Contact Hours 02		02	
Faculty (Names)	Coordinator(s)	Anuraj Panwar and S K Awasthi				
	Teacher(s)	Alok Pratap Singh Chauhan, Amit Verma, Anuj Kumar, Ashish				

Taculty (Names)	Coordinator(s)	Thataj Fahwar and STE Fiwasan			
	Teacher(s) (Alphabetically)	Alok Pratap Singh Chauhan, Amit Verma Bhatnagar, Manoj Tripathi, N. K. Sharma Prashant Chauhan, R. K. Dwivedi, S. P. P Vikas Malik	, Papia Chowdhury,		
COURSE OUTCOMES COGNITIVE LEVEL					

COURSE	OUTCOMES	COGNITIVE LEVELS
C170.1	Recall optics and modern physics principles behind the experiments.	Remembering (C1)
C170.2	Explainthe experimental setup and the principles involved behind the experiments performed.	Understanding (C2)
C170.3	Plan the experiment and set the apparatus and take measurements.	Applying (C3)
C170.4	Analyze the data obtained and calculate the error.	Analyzing (C4)
C170.5	Interpret and justify the results.	Evaluating (C5)

Module No.	Title of the Module	List of Experiments			
1.	Optics	 1.To determine the wavelength of sodium light with the help of Newton's rings setup 2.To determine the wavelength of sodium light with the help of Fresnel's Bi-prism 3. To find the specific rotation of cane- sugar solution by a polarimeter at room temperature, using half-shade / Bi-quartz device. 4. To determine the dispersive power of the material of a prism with the help of a spectrometer. 5. To determine the wavelength of prominent spectral lines of mercury light by a plane transmission grating using normal incidence method 	1-5		
2.	Modern Physics	6. To study the Photoelectric effect and determine the value of Planck's constant.7. Determination of Planck's constant by measuring radiation in a fixed spectral range.	1-5		
3.	Electricity and Magnetism	Electricity Magnetism 8. To verify Stefan's law by electrical method. 9. To determine the resistance per unit length of Carey Foster's bridge wire and specific resistance of the material of the given wire using Carey Foster's bridge. 10. To study the variation of magnetic field with distance, along the axis of Helmholtz galvanometer, and to estimate the radius of			
Evaluation	Criteria				

Components	Maximum Marks	
Mid Term Viva (V1)	20	
End Term Viva (V2)	20	
D2D	60	
Total	100	

Recommended Reading material: Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books, Reference Books, Journals, Reports, Websites etc. in the IEEE format)

- 1. Dey and Dutta, *Practical Physics*, Kalyani Publication.
- **2.** Experiment hand-outs.

Course Description

Course C	ode	15B11MA1	.11	Semester Od	d	Semester I Session Month from Aug 20			
Course N	ame	Mathematic	es-1	2					
Credits		4			Contact	Hours	3-1-0		
Faculty	Faculty Coordinat		or(s)		!				
(Names)	(Names) Teacher(s) (Alphabetic		cally)						
COURSE	E OUT	COMES		,					COGNITIVE LEVELS
After purs				ourse, the stud					
C105.1		in the concep ons of severa		nits, continuity	and differ	entiabili	ty of		Understanding Level (C2)
C105.2	Expla	in the Taylor'	's series	s expansion of the sima and minir			l variable	es	Applying Level (C3)
C105.3		use of doubles and surfaces		iple integrals to	find area	and volu	ıme of		Applying Level (C3)
C105.4	Gauss	divergence t	heorem	ector calculus a s in engineerin	g problem	S.			Applying Level (C3)
C105.5				ntial equations ring engineerin			ncepts of	:	Applying Level (C3)
C105.6				solving a system vectors, diagon				m.	Applying Level (C3)
Module No.	Title Modu		Topic	s in the Modu	le				No. of Lectures for the module
1.	Partia differ	l entiation	functi	rule, change on of two or na of function of	more va	riables,	maxima	and	7
2.	Doub	le integrals	and l volum	ge of order and Beta functions nes, Equations well known cu	s, Applicato curves	ations to and surfa	areas	and	7
3.	Vecto Differ	r entiation		ent, divergence lane surface.	e and curl,	, Normal	and tan	igent	3
4.	Vecto Integr			ntegrals, Green als, Gauss and			lane, su	rface	7
5.	Differ Equat	rential ions	Cauch	ny-Euler equat	ential Equations with constant coefficients, y-Euler equations, Equations of the form y), simple applications.			6	
6.	Lapla Trans				e Transform, inverse Laplace transform, delta and unit step function, Solution of IVPs.				6
7.	Matri	ces	echelo	r dependence a on form, Ran values and	k, Gauss	eliminat	ion met	thod,	6

		Reduction to diagonal form Quadratic forms.	
	*	Total number of lectures	42
Eva	luation Criteria		
Cor	nponents	Maximum Marks	
T1	_	20	
T2		20	
End	Semester Examination	35	
TA		25 (Quiz, Assignments, Tutorials, PBL)	
Tot	al	100	
II .	C	rerial: Author(s), Title, Edition, Publisher, Year of Publis, Journals, Reports, Websites etc. in the IEEE format)	cation etc.
1.	Jain, R. K. &Iyenger, International, 2013.	S. R. K., Advanced Engineering Mathematics, 4 th Ec	1., Alpha Science
2.	Prasad, C., (a) Mather Mudranalaya, 1982.	natics for Engineers (b) Advanced Mathematics for I	Engineers, Prasad
3.	Lipschutz, S., Lipsom,	M., Linear Algebra, 3 rd Ed, Schaum Outline Series, 200	1.
4.	· · · · · · · · · · · · · · · · · · ·	Finney, R. L., Calculus and Analytical Geometry, 9 in Wesley), New Delhi, 2000.	9th Ed., Pearson

<u>Detailed Syllabus</u> Lecture-wise Breakup

Course Code	15B11CI111	Semester Odd		Semester I Session-2020-21		
		(specify Odd/Even)		Month from: July to December		
Course Name	Software Developme	Software Development Fundamentals – I				
Credits	4 Contact Hours 4			4		
Faculty (Names)	Coordinator(s) Dr. Manish Kumar Thakur, Ms. Mradula Sharma (J62) / Dr. Avinash					

Faculty (Names)	Coordinator(s)	Dr. Manish Kumar Thakur, Ms. Mradula Sharma (J62) / Dr. Avinash Pandey (J128)
	(Alphabetically)	Dr. Manish Kumar Thakur, Ms. Mradula Sharma ,Dr. Arpita Jadhav Bhatt, Ms. Deepti, Dr. Dharmveer Singh Rajpoot, Ms. Sakshi Agarwal, Ms. Sonal, Dr. Suma Dawn Dr Avinash Pandey, Akanksha Bhardwaj, Nitin Shukla, Bindu Verma, Payal Khurana Batra, Rashmi Kushwah, Shailesh Kumar, Swati Gupta

COURSE OUTCOMES		COGNITIVE LEVELS
C109.1	Explain various phases of software development life cycle and	Understand Level (Level 2)
C109.2	Explain various data types, memory allocation schemes. precedence of arithmetical and logical operations, and need of array, and structures	Understand Level (Level 2)
C109.3	Draw the flow chart and write the high level code for different problems	Understand Level (Level 2)
C109.4	Apply and implement functions with or without pointers for different Problems	Apply Level (Level 3)
C109.5	Demonstrate and implement various operations like traverse, insertion, deletion, <i>etc</i> . on files	Apply Level (Level 3)

Module No.	Title of the Module	Topics in the Module	No. of Lectures for the module
1.	Introduction	Introduction to Software Development Life Cycle, Step by step solution to simple problems, developing logic/flow-chart/pseudo code to solve problems like 2D screen saver, simple/logical games, puzzles	9
2.	Data types, operators, and Control Flow	Data, variables and constants, data types, operators – binary, unary, ternary, operator precedence, operations using different operators, if, if-else, while, do-while, for, switch-case in C Programming	9
3.	Array	Fundamentals of Array, Implementation of 1D/2D Array and related operations like insertion, traversal, updating, etc. in C programming using different problems	6
4.	Functions	Introduction to Functions and its implementation in C programming language, Functions using Pass by value, recursive functions	4
5.	Structures and Union	Introduction and implementation of Structures and Union in C programming, Array of Structures and related operations like insertion, traversal, updating, etc. in C programming using different problems, Structures using function	4
6.	Pointers	Pointers in C, Dynamic memory allocation for 1D/2D array and structures, Arithmetical operations on pointers, functions using pass by reference	6

7.	File Handling	Introduction to File, creation of files in C programming	4		
		language, Modes of File Handling like read, write, update;			
		different types of files like binary file and text file and			
		respective operations like, opening, closing, reading, writing,			
		end of file, traversing the file, for structured and unstructured data			
		Total number of Lectures	40		
		Total number of Lectures	42		
Evaluati	on Criteria				
Components Maximum Marks					
T1		20			
T2		20			
End Sem	ester Examination	35			
TA		25 (Quiz and Assignment (15), Attendance (10)			
Total		100			
Recomm	Recommended Reading material: Author(s), Title, Edition, Publisher, Year of Publication etc. (Text books,				
Reference Books, Journals, Reports, Websites etc. in the IEEE format)					
1	Herbert Schildt. "The Complete Reference C", 4th Edition, TMH, 2017				
2	Brian W. Kernighan and Dennis M. Ritchie, "The C Programming Language", 2nd Edition, Pearson				
_	Education India, 201				
3	H. Cooper and H. Mullish, Jaico Publishing House. "Spirit of C", 4th Edition, Jaico Publishing House,				
	2006				
4	B. A. Forouzan, R. F. Gilberg "Computer Science: A Structured Programming Approach Using				
	Edition, Cengage, No				
5	Ashok N. Kamthane, "Programming with ANSI and Turbo C", 3 rd Edition, Pearson Education, Delhi,				
	2013	' ' ANGLOW E' 1.1 1'.' TEME A010			
6	Balagurusamy, Progr	ramming in ANSI C", Eighth edition, TMH, 2019			