Department of Humanities and Languages	Programme: B.B.A./ B.B.A. (FS)/ B.Com. B. C.A/ B. Sc. (Computer Science) B. C. A. (CTIS)/ B.F.A (Animation and VFX) B.Sc.(Cosmetic Science) B.Sc.(Fashion Design) B.Sc.(PCM/CBZ)			
Course Code: TXFE101	Year: First		Semest	er: I
Courses Contomnorow English I	L	Т	Р	С
Course: :Contemporary English I	4			4
Theory: 3 Hrs./Week         Max. University Theory Examination:50 Marks			:50 Marks	
Max. Time for Theory Exam: 3 Hrs.	Continuous Internal Assessment:50 Marks			

Cour	rse Objectives :
	On completion of this course, student should be able to:
1	use acceptable English in academic writing
2	use English language in a more meaningful way with an enriched word power
3	communicate in a professional way using various communication strategies
4	read and comprehend the major points discussed in various types of written texts
5	make notes, write precise, letter and résumé

Cours	se Outcomes	Domain	Level
CO1	Uses acceptable English in appropriate context	Cognitive,	Analyze, synthesize &
		Psychomotor	Apply
CO2	Makes use of comprehensive and suitable	Cognitive,	Understand, synthesize&
	vocabulary	Psychomotor &	Apply
		Affective	
<b>CO3</b>	Communicates professionally by using the	Cognitive,	Remembering,
	strategies learnt	Psychomotor &	synthesize& Apply
		Affective	
<b>CO4</b>	Applies cognizance while comprehending various	Cognitive,	Understand, Comprehend
	types of written texts	Psychomotor	& Apply
CO5	Writes and speaks in English, precisely with clarity	Cognitive,	Understand, Synthesize &
	and accuracy	Psychomotor &	Apply
		Affective	

Unit No.	Syllabus	Hrs.
1	<ul><li>Listening Skills(Only for Internal Assessment)</li><li>i. Classroom listening (Teachers' reading of short stories, essays or reports)</li></ul>	03
2	<ul> <li>Vocabulary(These topics should be incorporated while teaching texts)</li> <li>i. Word and Sense</li> <li>ii. Synonyms</li> <li>iii. Antonyms</li> <li>iv. Lexical webs</li> </ul>	08

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	v.	Collocations	
	vi.	Affixation	
3	Read	ing Skills (Understanding the text, skimming, scanning, speed reading,	07
	Read	mg charts and maps etc.)	07
	1.	The Eyes Have It – Ruskin Bond	
	11.	The Astrologer's Day- R. K. Narayan	
4	Read	ing and Responding(Critical Appreciation, Paraphrasing and Analysing)	
4	i.	Where the Mind is Without Fear – Rabindranath Tagore	08
	ii.	The Road Not Taken- Robert Frost	
	iii.	Night of the Scorpion – Nissim Ezekiel	
5	Creat	emer (I SDW Shille) (These testing threadd he in commended with the third sector)	
5	Gran	Derts of Supersh	07
	1.	Parts of Speech	
	11.	lenses	
6	Spea	king Skills(Conversational Skills)	
	- i.	Greetings	
	ii.	Introducing Yourself and Others	
	iii.	Asking for Information	07
	iv.	Requesting	07
	v.	Inviting	
	vi.	Group Discussion	
	vii.	Interview Skills	
	Writ	ing Skills	
7	i	Paragraph Writing	
	ii	I etter - Informal/Formal	08
	iii	Email Writing	
	111.	Total	18
			40

Resources	
Recommended	1.Wren and Martin: High School English Grammar and Composition
Books	2.G. Radhakrishna, Pillai, K. Rajeevan. Spoken English for You. CIEFL. Emerald
	Publication.
	<b>3.K. S. Smita, Annie Pothen</b> . English Conversational Practice. Sterling Publication Pvt.
	Ltd.
	4.Dr. Saraswati. Success with Spoken English for Undergraduate
	5.Tickoo and Subramaniam: A Functional Grammar with Usage and Composition
	6.Ruskin Bond, Eyes Have It
	7.R. K. Narayan, The Astrologer's Day
	8.Rabindranath Tagore, Where the Mind is Without Fear

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	9.Robert Frost, The Road Not Taken			
10.Nissim Ezekiel, Night of the Scorpion				
Reference	1. Murphy, Raymond: Essential English Grammar, Cambridge University Press			
Books 2.Bygate, M. Speaking. Oxford: Oxford University Press.				
	3.Maison, Margaret M.: Examine Your English			
	4.Fitikides, T.J.: Common Mistakes in English			
	5.McCarthy. Michael: English Vocabulary In Use and Felicity O. Dell			
1				

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School: Computer Sciences and Engineering	Programme: BCA IILP			
Course Code: TXCA102	Year: First Year Semester			
Course: Open Source Technology	L T P			С
	3	0	2	5
Theory: 4 Hrs/Week	Max. University Theory Examination:50 Marks			
Max. Time for Theory Exam.:3 Hrs	Continuous Internal Assessment:50 Marks			

Objectives	
1	To help students choose between the various open source licenses and learn their implications.
2	To help use the communication modes particular to the open source world throughparticipation.
3	To make students familiar with and adapt using the tools of open source development.
4	Write software that integrates and interacts with the open project's code.
5	Learn and understand open source software using case studies.

Unit Details Number	Hours
Introduction: open Source, Free Software, Free Software vs. Csoftware, Public Domain Software, FOSS does not mean any cBSD, The Free Software Foundation and the GNU Project.	pen Source ost. History: <b>13</b>
2 Open Source History, Initiatives, Principle and methodologies. Software Freedom, Open Source Development Model Licenses a What Is A License, Important FOSS Licenses (Apache,BSD, copyrights and copylefts, Patents Economics of FOSS : Zero Ma Income-generation opportunities, Problems with traditional software, Internationalization	Philosophy : nd Patents: GPL, LGPL), <b>13</b> rginal Cost, commercial
Case Studies: Apache, BSD, Linux, Mozilla (Firefox), Wikipedia, Ja Open Office.	oomla, GCC, <b>11</b>
4 Starting and Maintaining an Open Source Project, Open Source Open Source Design, Open source Teaching. and Open source me	e Hardware, dia. <b>11</b>
Open source vs. closed source Open source government, Open so	urce ethics. 12

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5	Social and Financial impacts of open source technology, Shared software, Shared source	
	Total	60

Resources	
Recommended Books	<ol> <li>Cathedral And Bazaar By Eric Raymond</li> <li>Code Reading: The Open Source Perspective By DiomidisSpinellis.</li> <li>Fundamentals Of Open Source Software by M.N. Rao, PHI publishers.</li> </ol>
Reference Books	1. Producing Open Source Software by Karl Fogel.

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School: Computer Sciences & Engineering	Progra	mme: BC	A IILP	
Course Code: TXCA101	Year: First Year Semester - I			
Course: Problem Solving Technique using C	L	Т	Р	С
	3		4	5
Theory: 3Hrs/Week	Max. University Theory Examination: 50			
	Marks	-	-	
Max. Time for Theory Exam.:3 Hrs	Contin	uous Inte	rnal Assessme	ent:50 Marks

Objectives			
1	To understand the general Problem Solving Concepts and Techniques		
2	Learntomap problems to programming features ofC		
3	To learn the programming logic, use of programming instruction, syntax and programming		
	structure		
4	Create foundation for students to learn other complex programming languages like		
	C++,Java etc.		

Course Ou	itcomes
On succes	ssful completion of the course students will be able to:
1	Understanding the concept of Problem Solving
2	Understand the fundamentals of C programming
3	Implement different Operations on arrays.
4	Write C program for simple applications of real life using structures and files
5	Implement file Operations in C programming for a given application

Unit	Details	Hours
Number		
1	<b>General Problem Solving Concepts-</b> Types of problems, problems solving with computers, difficulties with problem solving, programming language as tools: Machine Languages, Assembly Languages, High Level Languages Translators- Assembler, Compiler, Interpreter	10
2	<b>Fundamentals of "C Language":</b> Structure of c program, Constants, Variables, Operators and Expressions, Standards and Formatted statements, Keywords, Data Types: int, char, float, array, structure, union etc and Identifiers.	12
3	<b>Control Structures</b> : Introduction, Decision making with if – statement, if-else and Nested if, while and do-while, for loop. Jump statements: break, continue, goto statement	9
4	<b>Functions:</b> Introduction to Functions, Function Declaration, Function Categories, Standard Functions, Parameters and Parameter Passing, Call – by value/reference, Recursion, Global and Local Variables,	8

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	Storage classes. <b>Arrays:</b> Introduction to Arrays, Array Declaration, Types of Array, Memory Representation, Strings, String handling functions.	
5	<ul> <li>Pointers: Introduction to Pointers, Address operator and pointers, Declaring and Initializing pointers, Assignment through pointers, Pointers and Arrays.</li> <li>Files: Introduction, Creating a data file, opening and closing a data file, processing a data file.</li> </ul>	9
	Total	48

Resources			
	1. Let us C, Yashvant P Kanetkar, Seventh Edition, BPB Publications,		
<b>Recommended Books</b>	New Delhi.		
	2. Programming in C, Byron S. Gottfried, Second Edition, McGraw		
	Hills.		
	3. Programming in ANSI C, E. Balagurusamy, Fourth Edition, Tata		
	McGraw Hill		
Reference Books	1. The C Programming Language, Kernighan & Richie, Second Edition,		
	PHI Publication		

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School: Computer Sciences and Engineering	Programme: BCA IILP			
Course Code: TXCA101	Year: First Year Semester :I			
<b>Course: :-Lab Course based on problem</b> Solving Technique using C	L	Т	Р	С
			4	2
Practical: UG - 4 Hrs/Batch (20 Students)	Practical Examination: 25 Marks			
	Formative CIA/Term Work: 25 Marks			

Practical	Objective				
1	This will give hands on practice to student about programming language C.				
2	Understand the basic concept of C Programming, and its different modules that				
	includes conditional and looping expressions, Arrays, Strings, Functions, Pointers,				
	Structures and File programming				
3	Acquire knowledge about the basic concept of writing a program				
4	Role of Functions involving the idea of modularity				

Set of Suggested assignment list is provided in 3 groups -A, B, C. Instructor is suggested to design assignment list by selecting/ designing at least 12 suitable assignments as a study assignments. 1.At least 6 assignments from group A. 2.At least 4 assignments from group B. 3.At least 2 assignments from group C.

Sr. No.	Description
	Group A: (Any SIX Assignments)
1	Write a Program to find whether a given number is prime number or not.
2	Write a C Program to generate and print first N FIBONACCI numbers.
3	Write a C Program to read two matrices and perform addition and subtractions of two
	matrices.
4	Write a C Program to input numbers and to find mean variance and standard deviation.
5	Write a Program to find the root of the given quadratic equation using switch case.
6	Write a C Program that reverse a given integer number and check whether the number is
	palindrome or not.
7	Write a Program to find the GCD and LCM of two integer numbers
8	Write a C Program to read a string and check whether it is palindrome or not
9	Write a Program to find the factorial of a number using function
	Group B: (Any FOUR Assignments)

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Note: - Practical/ Oral/ Presentations

Practical/ Oral/ Presentations shall be conducted and assessed jointly by internal and external examiners. The performance Practical/ Oral/ Presentations shall be assessed by at least one pair of examiner appointed as examiner by the university. The examiners will prepare the mark/ Grade sheet in the format as specified by the university, the authenticated and seal it. Seal enveloped shall be submitted to the head of the department or authorized person.

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School: Computer Sciences & Engineering	Programme: BCA IILP			
Course Code: TXCA103	Year: First Year Semester – I			Semester – I
<b>Course: Discrete Mathematics</b>	L	Т	Р	С
	3	1 4		
Theory: 3 Hrs/Week	Max. University Theory Examination: 50 Marks			
Max. Time for Theory Exam.:3 Hrs	Continuous Internal Assessment:50 Marks			

Object	ives
	On completion of this course, student should be able to:
1	To Demonstrate a working knowledge of set notation and elementary set theory, recognize
	the connection between set operations and logic
2	To study Relations, its Closure and apply algorithms to prove the relations
3	To study Functions and its types and Apply counting principles to solve problems
4	To determine Semi Groups and Groups and Solve problems on Lattices
5	To study Graph Theory and Trees and analyze Euler and Hamiltonian Paths and Circuits.

Outco	Outcomes			
	On completion of this course, student should be able to:			
1	The students will be able to perform various operations on sets			
2	To understand and solve problems related to relations and functions			
3	To comprehend with groups and its properties			
4	To form trees and graphs and solve problems on it			
5	To apply principle of discrete structures for computational calculations			

Unit Number	r Details	
1	<b>Set Theory</b> : Definitions: Sets, Subsets, Fundamental laws of sets and examples, Types of sets, Power set, Complement of a set, Operations on sets, Venn Diagram & Examples. Principle of inclusion and exclusion.	10
2	<b>Relations:</b> Introduction to Relation, Properties of Binary Relations, Closure of relations, Warshall's algorithm, Equivalence Relations and partitions.	9
3	<ul><li>Functions: Definition, types of function, Invertible functions composition of functions.</li><li>Counting - Permutation, Combinations, The pigeonhole principle, Recurrence relation, Mathematical Induction</li></ul>	9
	Semi Groups & Groups: Binary operations, Semi groups, isomorphism	9

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4	and Home	morphism, Product and Quotient of semi groups, Groups,					
	subgroups,	products and Quotient of groups.					
	Lattices: - Lattice concepts, isomorphic Lattices, Properties of lattices,						
	Finite Boo	Finite Boolean algebras.					
	Graph Th	eory: Basic concepts, types of graphs, Representation of graph					
5	in memory	, Euler path and circuits, Hamiltonian Path and circuits.	11				
	Trees: Bas	ic concepts, Labeled trees, Undirected trees.					
	Total						
Resources	5						
Recomme	nded	1. Kolman, Busby and Ross, "Discrete mathematical Structur	es				
Books		and graph theory"					
		2. Alan Doerr, K. Levasseur, "Applied discrete structure for					
		computer science", Galgotia publications, 1988					
		3. Discrete Mathematics By Norman Biggs					
<b>Reference Books</b>		1. Trembley&Manohar, "Discrete mathematical Structures with application					
		to computer science", McGraw Hill, 1987.					
		2. Lipschutz, Lipson,"Discrete Mathematics", Schaum's Out	lines				

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School: Computer Sciences & Engineering	Programme: BCA IILP			
Course Code: TXCA104	Year: First Year Semester - I			r <b>- I</b>
Course: Introduction to Operating System and	L	Т	Р	С
Office365	3			3
Theory: 3Hrs/Week	Max. University Theory Examination: 50			
Marks				
Max. Time for Theory Exam: 3 Hrs.	Continuous Internal Assessment:50 Marks			

# Objectives

- · · J · · · · ·	
1	To understand basics of different types Operating system
2	To Learn basics elements of operating system
3	Use Microsoft Office 365 to promote, support, andmodel creative thinking and innovation.
4	Use Sky drive to share resource files across groups and user accounts.
5	Understand the concept of groups in Office365

Course Outcomes					
On succes	On successful completion of the course students will be able to:				
1	To understand the basics of different types Operating system				
2	To understand the concepts of Operating System				
3	Use Microsoft Office 365 to promote, support, andmodel creative thinking and innovation,.				
4	To learn the basic for Using Sky drive to share resource files across groups and user				
	accounts.				
5	Create and manage groups in Office365				

Unit	Details	Hours
Number		
	Introduction to Operating System:Definition, Need of Operating	
1	System, functions of operating system, Popular Operating Systems,	
	difference between windows and Linux operating system, introduction	9
	to GUI and Command line	
	<b>Operating system Basics:</b> Architecture of Operating System,	
2	Memory, Types of Memory, Goals, Process, Context switch, Access	12
	and Security aspects: Security threat, attack on security, Computer	
	worms, Computer virus	
	Introduction to Microsoft Office 365: Microsoft Office 365: Office	
3	on demand, Office Web Apps, SksyDrive and SkyDrive Pro, Most	9
	Used Office Applications, Creating a Microsoft Account, Managing	
	Account Settings.	
	Microsoft Skydrive and SkyDrive Pro: Getting Started with	
4	SkyDrive, Creating a Document, Sharing a Document, Using SkyDrive	7

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	App, Uploading Files from Your Computer, Uploading Files on the Web, Getting Started with SkyDrive Pro, Creating a Document, Sharing a Document, Uploading Files on the Web, Checking Your E- mail.	
5	<b>Configuring groups in Office365:</b> Introduction, creating and working with security groups in Office365, creating office365 groups, managing security group membership in office365, Mofifying the membership and ownership in Office365 groups, creating Distribution list in Office365, Adding and Removing distribution list owners.	8
	Total	45

Resources	
Recommended Books	1. Kevin Wilson, Using Office 365: With windows 8, 2014, Apress 978-1430266853
	<ol> <li>A Silberschatz, P.B. Galvin, G. Gagne, Operating Systems Concepts, 8th Edition, John Wiley Publications 2008.</li> </ol>
Reference Books	1. AchyutGodbole," Operating Systems", Mac Graw Hill Publications
	2. William Stanek "Office 365 & Exchange Online: Essentials for Administration (IT Pro Solutions)", IT Pro Solutions

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Object	lives
1	To understand the basics of computer system.
2	To understand the Fundamental algorithm.
3	To understand the concepts Operating Systems & its functions.
4	Use Microsoft Office 365 to promote, support, andmodel creative thinking and innovation, Use Sky
	drive to share resource files across groups and user accounts.

Set of Suggested assignment list is provided in 3 groups – A, B, C.

Instructor is suggested to design assignment list by selecting/ designing at least 12 suitable assignments as a study assignments.

- 1.At least 6 assignments from group A.
- 2.At least 4 assignments from group B.
- 3.At least 2 assignments from group C.

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	Group A: (Any Six Assignments)								
1	Identify desktop and server by its type and verify its specification.								
2	Identify hardware components on motherboard.								
3	Install operating system-windows family (windows 7/ windows 10)								
4	Partition and manage hard disk, format hard drives with different file systems. Troubleshoot								
	Hard disk problem.								
5	Install Local Printer and share printer in network.								
6	Assemble and dis	assemble desl	ctop syste	em.					
7	Write a C program	n to find facto	orial of n	integer.					
	Group B: (Any H	Four Assignm	nents)						
8	Create the following	ing one page of	document	s in MS-	Word.	•			
	a) Compos	se a note invit	ing friend	ds to a get	t-toge	ther	at your	house, inclu	ding a list of
	things to	o bring with t	hem.	• ,	<i>.</i> .	•.1	1 1	1.4	1 /
0	b) Design	a certificate in	n landscaj	pe orienta	tion v	with	a borde	r around the	document.
9	first page of the h	s plans to rele	ease a ne	W DOOK ( ecificatio	ne in	MS	as per y -word	our synabus	5. Design the
	a) The title o	f the book sho	ould appe	ar in bold	lusing	g 20	-point A	vrial font.	
	b) The name	of the author	and his o	qualificat	ions s	hou	ld be in	the center o	f the page in
	16-point A	Arial font.		•					ĨŬ
	c) At the bot	tom of the do	ocument s	should be	the n	name	e of the	publisher an	nd address in
	16-point Times New Roman.								
10	d) The detail	s of the office	$\frac{1}{1}$ s of the p	$\frac{1}{\sqrt{1-1}}$	only		$\frac{1}{100}$ sh	ould appear	in the footer.
10	Create the following	ing document	111 MS-W	ord: A no	ewsie	tter v	with a h		2 columns in
11	The following tabl	e (MS-Excel)	gives a ve	e mage s	ale fig	nue	of five s	ı. alesmen in R	s
	Salesman	2000	2001	241 W13C 30				2003	
	S1	10000	12000	)	2000	00		50000	
	S2	15000	18000		5000	00		60000	
	<u>S3</u>	20000	22000		7000	00		70000	_
	<u>S4</u> <u>30000</u> <u>30000</u> <u>S5</u> <u>40000</u> <u>45000</u>				1250	000		90000	
	i Calculate t	otal sale year	wise	,	1250	/00		20000	
	ii. Calculate t	the net sales m	ade by ea	ch salesm	an				
	iii. Calculate t	he commission	n for each	salesman	unde	r the	e conditi	on :-	
	a) If total s	ales is greater	than Rs.	4, 00,000/	-, ther	n coi	mmissio	n is 5% of to	tal sale made
	by the sale	sman.	1 colo						
	b) Other wi	150, 270 01 1014	i sale.						
	iv. Calculate the maximum sale made by each salesman.								
	v. Calculate the maximum sale made in each year.								
	vi. Draw a bai	r graph represe	enting the	sale made	e by ea	ach s	salesmar	1. 	
12	Consider the follow	ving employed	e workshe	sale made $rate made $	: Uy sa Excel	·_	nen m ye	eal 2001.	
	Full Name Gr	ade Basic	HRA	PF	Gross		Net	(VA)	
	(First Last) 1/2	2/3 Salary	III	11	01055	,	1101	Vehicle	
	Allowance								
				Por N		Incr	In No. /	Dropored	Approved
	Docume	ent Ref.		Date	0./	Dat	te NO./	by	by
SUN	J/SOCSE/BCA/IILP <u>/S</u>	EM I/2019		20/8/20	19	28/1	1/2019		

	Grade HRA % (of Basic)
	1 40%
	2 35%
	3 30%
	Gross = Basic + HRA + VA
	Net = Gross - PF
	PF is 8% for all Grades
	VA is 15000, 10000 and 7000 for Grades 1, 2 and 3.
	i. Find max, min and average salary of employees in respective Grade
	ii. Count no. of people where VA>HRA
	Group C: (Any Two Assignments)
13	Create five Power Point slides to give advantages/disadvantages of computer, application of
	computers and logical structure of computer.
14	Create five Power point slides. Each slide should support different format. In these slides
	explain areas of applications of IT. Make slide transition time as 10 seconds.
15	Demonstrate Local Area Network.

## Term Work:

Term Work assessment shall be conducted for the Project, Tutorials and Seminar. Term work is continuous assessment based on work done, submission of work in the form of report/journal, timely completion, attendance, and understanding. It should be assessed by subject teacher of the institute. At the end of the semester, the final grade for a Term Work shall be assigned based on the performance of the student and is to be submitted to the University.

Not	es
1	The experiments from the regular practical syllabus will be performed (15 Marks).
2	The regular attendance of students during the syllabus practical course will be monitored and marks will be given accordingly (5 Marks).
3	Good Laboratory Practices (5 Marks)

### **Practical/Oral/Presentation:**

Practical shall be conducted and assessed jointly by internal and external examiners. The performance in the Practical examination shall be assessed by at least a pair of examiners appointed as examiners by the University. The examiners will prepare the mark/grade sheet in the format as specified by the University, authenticate and seal it. Sealed envelope shall be submitted

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to the head of the department or authorized person.

Not	es
1	One experiment from the regular practical syllabus will be conducted. (Total 15 Marks).
2	Complete laboratory journal (05 Marks).
3	Viva-voce (05 Marks).

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School: Computer Sciences & Engineering			Progra	mme: BCA IILP
Course Code: TXCA102	Year : First <mark>Year</mark>		Sem	ester - I
Course: Lab Course based on Open	L	Т	Р	С
Source Technology			2	1
Practical: UG - 4 Hrs./Batch (20	Practical Examination: 25Marks			
Students)	Formative CIA/Term Work: 25 Marks			

Obje	ectives
1	Able to recognize the benefits and features of Open Source Technology.
2	Interpret, Contrast and compare open source products among themselves
3	Understand and demonstrate Version Control System along with its commands

Set of Suggested assignment list is provided in 3 groups – A, B, C.

Instructor is suggested to design assignment list by selecting/ designing at least 12 suitable assignments

as a study assignments.

- At least 6 assignments from group A.
- At least 4 assignments from group B.
- At least 2 assignments from group C.

Sr. No	Description
110.	Group A: Computer Networks (Any SIX Assignments)
1	Case study on Open Source software
2	Perform Kernel Configuration, compilation and Installation
3	Study of Virtualization environment
4	Implement Compilation from source
5	Perform Packet management system
6	Perform Installation of software packages
7	Write user space driving using fuse
	Group B: (Any Four Assignments)
8	Implement GUI Programming
9	Implement Simple Applications using PHP
10	Perform Simple Applications using Python
11	Perform Setting up the Network Interface
12	Case study on PERL.
	Group C: (Any Two Assignments)
13	Implement Version Control system setup and usage
14	Perform Text Processing with PERL
15	Write PERL program to connect with MYSQL database.

# Term Work:

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Term Work assessment shall be conducted for the Project, Tutorials and Seminar. Term work is continuous assessment based on work done, submission of work in the form of report/journal, timely completion, attendance, and understanding. It should be assessed by subject teacher of the institute. At the end of the semester, the final grade for a Term Work shall be assigned based on the performance of the student and is to be submitted to the University.

#### Notes:

- 1 The experiments from the regular practical syllabus will be performed (30 Marks).
- 2 The regular attendance of students during the syllabus practical course will be monitored and marks will be given accordingly (10 Marks).
- 3 Good Laboratory Practices (10 Marks)

### **Practical/Oral/Presentation:**

Practical shall be conducted and assessed jointly by internal and external examiners. The performance in the Practical examination shall be assessed by at least a pair of examiners appointed as examiners by the University. The examiners will prepare the mark/grade sheet in the format as specified by the University, authenticate and seal it. Sealed envelope shall be submitted to the head of the department or authorized person.

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