



KG COLLEGE OF ARTS AND SCIENCE

Affiliated to Bharathiar University

Accredited by NAAC

ISO 9001:2015 Certified Institution

KGiSL Campus, Coimbatore – 641 035

Criterion 1 – Curricular Aspects

Key Indicator – 1.1 Curricular Planning and Implementation

1.1.1 The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment

- ★ [Academic Calendar](#)
- ★ [Log book](#)
 - Time table
 - Course objectives
 - Syllabus
 - Macro and Micro plan
 - Attendance record
- ★ [Effective Curriculum Delivery](#)
- ★ [Question Bank in e-Campus](#)
- ★ [Time Table for Continuous Internal Assessments](#)
- ★ [Question Pattern Settings](#)
- ★ [Question Paper](#)
- ★ [Marks Entry in Log Book](#)
- ★ [Course Outcome Attainment](#)
- ★ [Unitwise Feedback](#)
- ★ [Syllabus Completion Feedback](#)

Academic Calendar

	<p>KG COLLEGE OF ARTS AND SCIENCE Affiliated to Bharathiar University and Accredited by NAAC An ISO 9001 : 2015 Certified Institution</p> <p>Academic Calendar 2021-2022</p>																																																																																																																																																																														
<p>Semester : Even Semester Class Timings :</p>																																																																																																																																																																															
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26.	21	11	11	11.3.2022	Friday	
27.	22	12	12	12.3.2022	Saturday	
28.				13.3.2022	Sunday	
29.	23	13	13	14.3.2022	Monday	
30.	24	14	14	15.3.2022	Tuesday	
31.	25	15	15	16.3.2022	Wednesday	
32.	26	16	16	17.3.2022	Thursday	
33.	27	17	17	18.3.2022	Friday	
34.				19.3.2022	Saturday	Holiday
35.				20.3.2022	Sunday	Holiday
36.	28	18	18	21.3.2022	Monday	Assignment – I
37.	29	19	19	22.3.2022	Tuesday	Assignment – I
38.	30	20	20	23.3.2022	Wednesday	Assignment – I
39.	31	21	21	24.3.2022	Thursday	Assignment – I
40.	32	22	22	25.3.2022	Friday	Assignment – I
41.	33	23	23	26.3.2022	Saturday	Assignment – I
42.				27.3.2022	Sunday	Holiday
43.	34	24	24	28.3.2022	Monday	CIA – I
44.	35	25	25	29.3.2022	Tuesday	CIA – I
45.	36	26	26	30.3.2022	Wednesday	CIA – I
46.	37	27	27	31.3.2022	Thursday	CIA – I
47.	38	28	28	1.4.2022	Friday	CIA – I
48.				2.4.2022	Saturday	Telugu New year – Holiday
49.				3.4.2022	Sunday	Holiday
50.	39	29	29	4.4.2022	Monday	
51.	40	30	30	5.4.2022	Tuesday	
52.	41	31	31	6.4.2022	Wednesday	
53.	42	32	32	7.4.2022	Thursday	
54.	43	33	33	8.4.2022	Friday	
55.	44	34	34	9.4.2022	Saturday	
56.				10.4.2022	Sunday	Holiday
57.	45	35	35	11.4.2022	Monday	
58.	46	36	36	12.4.2022	Tuesday	
59.	47	37	37	13.4.2022	Wednesday	
60.				14.4.2022	Thursday	Tamil New Year – Holiday
61.				15.4.2022	Friday	Good Friday – Holiday
62.				16.4.2022	Saturday	Holiday
63.				17.4.2022	Sunday	Holiday
64.	48	38	38	18.4.2022	Monday	Assignment – II
65.	49	39	39	19.4.2022	Tuesday	Assignment – II

S. No.	I Year Working Day	II Year Working Day	III Year Working Day	Date	Day	Activity
66.	50	40	40	20.4.2022	Wednesday	Assignment – II
67.	51	41	41	21.4.2022	Thursday	Assignment – II
68.	52	42	42	22.4.2022	Friday	Assignment – II
69.	53	43	43	23.4.2022	Saturday	Assignment – II
70.				24.4.2022	Sunday	Holiday
71.	54	44	44	25.4.2022	Monday	CIA – II
72.	55	45	45	26.4.2022	Tuesday	CIA – II
73.	56	46	46	27.4.2022	Wednesday	CIA – II
74.	57	47	47	28.4.2022	Thursday	CIA – II
75.	58	48	48	29.4.2022	Friday	CIA – II
76.	59	49	49	30.4.2022	Saturday	CIA – II
77.				1.5.2022	Sunday	Holiday
78.	60	50	50	2.5.2022	Monday	
79.	61	51	51	3.5.2022	Tuesday	
80.	62	52	52	4.5.2022	Wednesday	
81.	63	53	53	5.5.2022	Thursday	
82.	64	54	54	6.5.2022	Friday	
83.	65	55	55	7.5.2022	Saturday	
84.				8.5.2022	Sunday	Holiday
85.	66	56	56	9.5.2022	Monday	Model Practical Exam
86.	67	57	57	10.5.2022	Tuesday	Model Practical Exam
87.	68	58	58	11.5.2022	Wednesday	Model Practical Exam
88.	69	59	59	12.5.2022	Thursday	Model Practical Exam
89.	70	60	60	13.5.2022	Friday	Model Practical Exam
90.				14.5.2022	Saturday	Holiday
91.				15.5.2022	Sunday	Holiday
92.	71	61	61	16.5.2022	Monday	
93.	72	62	62	17.5.2022	Tuesday	
94.	73	63	63	18.5.2022	Wednesday	
95.	74	64	64	19.5.2022	Thursday	Project Viva -Model Exams
96.	75	65	65	20.5.2022	Friday	
97.	76	66	66	21.5.2022	Saturday	
98.				22.5.2022	Sunday	Holiday
99.	77	67	67	23.5.2022	Monday	Model Theory Exam
100.	78	68	68	24.5.2022	Tuesday	Model Theory Exam
101.	79	69	69	25.5.2022	Wednesday	Model Theory Exam
102.	80	70	70	26.5.2022	Thursday	Model Theory Exam
103.	81	71	71	27.5.2022	Friday	Model Theory Exam
104.				28.5.2022	Saturday	Holiday

Log book-Time Table

(EVEN SEMESTER)

Day order	Hour	1	2	3	4	5	6
I	Class	II CS A				II CSA	III CS B
	Subject	LINUX				LINUX	Project
II	Class	← II CS A		II CSA →		III CS B	
	Subject	← LINUX		CAB →		Project	
III	Class		II CSA			II CSA	
	Subject		LINUX			LINUX	
IV	Class					← III CS B →	
	Subject					← ST LAB →	
V	Class		II CS A				II CS A
	Subject		LINUX				LINUX

Red
21.3.22

WORK LOAD

S.No.	Class	Subject	Hours
1.	II B.Sc.CS 'A'	LINUX & SHELL PROGRAMMING	6
2.	II B.Sc.CS 'A'	PROGRAMMING LAB - LINUX	3
3.	III B.Sc.CS 'B'	SOFTWARE TESTING LAB	3
4.	III B.Sc.CS 'B'	PROJECT	2
<i>Red</i> Total			14

Log book - Course objectives & Syllabus

Course code	Linux and Shell Programming		L	T	P	C
Core/Elective/ Supportive	Core : 7		6	0	0	4
Pre-requisite	Before starting the course students should have the basic knowledge about operating system and C programming.		Syllabus Version		2020-21 Onwards	
Course Objectives:						
The main objectives of this course are to:						
<ol style="list-style-type: none"> 1. Linux is a multi-user and multi-tasking operating system and after learning the concepts of an operating system 2. Student will be able to write simple shell programming using Linux utilities, pipes and filters. 3. The file system, process management and memory management are discussed. 4. Various commands used by Linux shell is also discussed which makes the users to interact with each other. 5. Bourne shell programming is dealt in depth which can be used to develop applications. 						
Expected Course Outcomes:						
On the successful completion of the course, student will be able to:						
1	Describe the architecture and features of Linux Operating System and distinguish it from other Operating System.				K1	
2	Develop Linux utilities to perform File processing, Directory handling, User Management and display system configuration				K2-K3	
3	Develop shell scripts using pipes, redirection, filters and Pipes				K2	
4	Apply and change the ownership and file permissions using advance Unix commands.				K3	
5	Build Regular expression to perform pattern matching using utilities and implement shell scripts for real time applications.				K3-K6	
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create						
Unit:1	INTRODUCTION				12 hours	
<u>Introduction to LINUX Operating System: Introduction - The LINUX Operating System. (10 Hours)</u>						
Unit:2	MANAGING FILES AND DIRECTORIES				15 hours	
<u>Managing Files and Directories: Introduction – Directory Commands in LINUX – File Commands in LINUX. (13 Hours)</u>						
Unit:3	VI EDITOR				15 hours	
<u>Creating files using the vi editor: Text editors – The vi editor, Managing Documents: Locating files in LINUX – Standard files – Redirection – Filters – Pipes. (13 Hours)</u>						
Unit:4	SECURING FILES				15 hours	
<u>Securing files in LINUX: File access permissions – viewing File access permissions – Changing File access permissions. Automating Tasks using Shell Scripts: Introduction – Variables- Local and Global Shell variables – Command Substitution. (10 Hours)</u>						

Log book - Course objectives & Syllabus

B. Sc. Computer Science 2020-21 onwards - Affiliated Colleges - Annexur
SCAA DATED:

Unit:5	CONDITIONAL EXECUTION IN SHELL SCRIPTS	15 hours
Using Conditional Execution in Shell Scripts: Conditional Execution - The case...esac Construct Managing repetitive tasks using Shell Scripts: Using Iteration in Shell Scripts - The while construct - until construct - for construct - break and continue commands - Simple Program using Shell Scripts. (11 Hours)		
Unit:6	Contemporary Issues	3 hours
Expert lectures, online seminars - webinars		
Total Lecture hours		75 hours
Text Book(s)		
1	Operating System LINUX, NIIT, PHI, 2006, Eastern Economy Edition.	
2	N.B. Venkateswarlu , Introduction to Linux: Installation and Programming, BS Publications, 2008, 1st Edition	
Reference Books		
1	Richard Petersen, Linux: The Complete Reference, Sixth Edition, Tata McGraw-Hill Publishing Company Limited, New Delhi, Edition 2008.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	http://spoken-tutorial.org/	
2	https://www.tutorialspoint.com/linux/index.htm	
3		
Course Designed By:		

Mapping with Programme Outcomes										
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	S	M	M	M	S	M	M	M	M	L
CO2	S	S	S	M	S	M	M	M	M	L
CO3	S	S	S	M	S	M	S	S	S	M
CO4	S	S	S	M	S	M	S	S	S	M
CO5	S	S	S	S	S	S	S	S	S	S

*S-Strong; M-Medium; L-Low

Log book- Macro and Micro plan

LESSON PLAN Vs ACTUAL		Planned		Actual		Initials of HOD
UNIT	TOPIC	Hours	Date and Hour	Hours	Date and Hour	
Semester: <u>IV</u> Class: <u>II B.Sc. cs. A</u> Subject: <u>LINUX and SHELL PROGRAMMING</u>						
MACRO PLAN						
I	Introduction	10 Hours	28/2/22-1hr to 9/3/22-5hr	10 Hours	28/2/22-1hr to 11/3/22-5hr	Red 21.3.22
II	Managing Files and Directories	13 Hours	11/3/22-6hr to 25/3/22-6hr	16 Hours	7/2/22-1hr to 23/3/22-5hr	Red 21.3.22
III	Vi Editor	13 Hours	26/3/22-6hr to 9/4/22-6hr	14 Hours	24/3/22-1hr to 10/4/22-5hr	Red 21.3.22
IV	Securing files in Linux	10 Hours	12/4/22-5hr to 26/4/22-5hr	14 Hours	16/4/22-3hr to 30/4/22-5hr	Red 21.3.22
V	Using Conditional execution using Shell scripts	10 Hours	28/4/22-6hr to 10/5/22-2hr	14 Hours	2/5/22-2hr to 18/5/22-5hr	Red 21.3.22
ENHANCEMENT TOPICS						
I	LINUX Platforms	1 Hour	11/9/22-2hr	1 Hour	25/9/22-2hr	Red 21.3.22
II	GUI vs CLI	1 Hour	22/9/22-1hr	1 Hour	25/9/22-1hr	Red 21.3.22
III	Managing File Systems & Disk Space	1 Hour	12/11/22-2hr	1 Hour	20/11/22-2hr	Red 21.3.22
IV	Secure Linux Server for Production Environment	1 Hour	22/11/22-2hr	1 Hour	20/11/22-5hr	Red 21.3.22
V	Linux-Architecture	1 Hour	10/12/22-6hr	1 Hour	20/12/22-6hr	Red 21.3.22
Referred Books : Operating Systems LINUX, NIIT, PHI, 2006, Eastern Economy Edition PRINCIPAL						

LESSON PLAN Vs ACTUAL		Planned		Actual		Initials of HOD
UNIT	TOPIC	Hours	Date and Hour	Hours	Date and Hour	
Semester: <u>IV</u> Class: <u>II B.Sc. cs. A</u> Subject: <u>LINUX and SHELL PROGRAMMING</u>						
MICRO PLAN						
I	Introduction to Linux Operating System: Introduction, Operating System, Functions of Operating System, Types of operating system	3 Hours	28/2/22-1.5hr	3 Hours	28/2/22-1.5hr	Red 21.3.22
	Linux operating system: History, Linux Architecture, Features and utilities in LINUX,	1 Hour	2/3/22-2hr	1 Hour	2/3/22-2hr	Red 21.3.22
	Linux shells, Beginning Linux session: Logging on, Security for users, Refering LINUX help manual, Finding LINUX session: Logging off	1 Hour	2/3/22-5hr	1 Hour	2/3/22-5hr	Red 21.3.22
	Linux Architecture, Features and utilities in LINUX,	1 Hour	4/3/22-2hr	1 Hour	2/3/22-6hr	Red 21.3.22
	Linux shells, Beginning Linux session: Logging on, Security for users, Refering LINUX help manual, Finding LINUX session: Logging off	1 Hour	4/3/22-6hr	2 Hours	3/3/22-1hr 2hr	Red 21.3.22
	Linux shells, Beginning Linux session: Logging on, Security for users, Refering LINUX help manual, Finding LINUX session: Logging off	2 Hours	7/3/22-1.5hr	2 Hours	4/3/22-2.5hr	Red 21.3.22
	Linux shells, Beginning Linux session: Logging on, Security for users, Refering LINUX help manual, Finding LINUX session: Logging off	2 Hours	9/3/22-2hr to 11/3/22-5hr	1 Hour	4/3/22-6hr	Red 21.3.22
Referred Books : Operating Systems LINUX, NIIT, PHI 2006, Eastern Economy Edition Richard Peterson LINUX : The complete Reference, Sixth Edition, Tata Mc Graw Hill Edition 2008. PRINCIPAL						

Log book- Macro and Micro plan

KECAS							
LESSON PLAN Vs ACTUAL							
Semester: <u>V</u> Class: <u>II - B.Sc. C.S.A</u>							
Subject: <u>LINUX and SHELL PROGRAMMING</u>							
UNIT	TOPIC	Other Sources & References	Planned		Actual		Initials of HOD
			Hours	Date and Hour	Hours	Date and Hour	
	ENHANCEMENT TOPIC: } Linux Platform		1 Hour	11/02-2hr	1 Hour	26/02-2hr	APL
II	Managing Files & Directories in Linux						
	Introduction: Linux file system, Naming Conventions, Types of files in Linux, Types of users in Linux, Directory	https://access.redhat.com/en-us/html	1 Hour	11/02-6hr	2 Hours	11/02-1hr 15/02-5hr	APL
	Commands in LINUX: Identify		1 Hour	14/02-1hr	1 Hour	4/02-2hr	APL
	Current directory path	www.bob.org/~c-wreck/directories	2 Hours	14/02-5hr 16/02-2hr	2 Hours	9/02-5hr 10/02-1hr	APL
	Changing the current directory		1 Hour	16/02-5hr	1 Hour	11/02-6hr	APL
	Creating & removing a directory		1 Hour	16/02-2hr	1 Hour	11/02-1hr	APL
	Listing the content of a directory	www.mpitutorials.com/en-us/linux	1 Hour	18/02-6hr	2 Hours	14/02-5hr 16/02-2hr	APL
Referred Books: Operating System LINUX, NIIT, PHI 2006, Eastern Economy Edition Richard Peterson LINUX: The complete reference, Sixth Edition, Tata Mc Graw Hill Edition 2008.							
PRINCIPAL							


KECAS							
LESSON PLAN Vs ACTUAL							
Semester: <u>V</u> Class: <u>II - B.Sc. C.S.A</u>							
Subject: <u>LINUX and SHELL PROGRAMMING</u>							
UNIT	TOPIC	Other Sources & References	Planned		Actual		Initials of HOD
			Hours	Date and Hour	Hours	Date and Hour	
II	File Commands in Linux:						
	Displaying the Content of files, head and tail commands		1 Hour	21/02-1hr	1 Hour	16/02-5hr	APL
	Coppy, removing, moving and renaming files, Displaying the content page wise, wildcard character	www.hostingadvice.com/copycommands	5 Hours	21/02-5hr 23/02-2hr 25/02-2hr	5 Hours	18/02-1hr 18/02-2hr 23/02-2hr	APL
	ENHANCEMENT TOPIC: } GUI vs CLI		1 Hour	28/02-1hr	1 Hour	25/02-6hr	APL
III	Creating files using Vi Editor:						
	Text editor, Editors available with LINUX, Vi Editor-Introduction	https://access.redhat.com/en-us/html	2 Hours	24/02-5hr 26/02-2hr	3 Hours	24/02-1,2hr 24/02-5hr 29/02-5hr	APL
Referred Books: Operating System LINUX, NIIT, PHI 2006, Eastern Economy Edition Richard Peterson LINUX: The complete reference, Sixth Edition, Tata Mc Graw Hill Edition 2008							
PRINCIPAL							

Log book- Macro and Micro plan


LESSON PLAN Vs ACTUAL		KECAJ					
		Semester: IV		Class: II - B.Sc. CS 'A'			
		Subject: LINUX and SHELL PROGRAMMING					
UNIT	TOPIC	Other Sources & References	Planned		Actual		Initials of HOD
			Hours	Date and Hour	Hours	Date and Hour	
III	Commands used in vi editor,		4 Hours	30/3/22-5hr, 11/4/22-2,6hr, 14/4/22-1hr	4 Hours	30/3/22-2,6hr, 01/04/22-5hr, 06/04/22-5hr	} Red 21/4/22 PP
	Managing Documents: Loading files in LINUX, Standard files,	www.livefirelabs.com/standard-unix-linux	2 Hours	4/4/22-5hr, 6/4/22-2hr	2 Hours	7/4/22-1,2hr	
	Redirection, Filters, Pipes.		5 Hours	6/4/22-5hr, 8/4/22-2,6hr, 9/4/22-1,5hr	4 Hours	7/4/22-4hr, 14/4/22-2,6hr, 18/4/22-1hr	
	ENHANCEMENT TOPIC:		1 Hour	26/4/22-2hr	1 Hour	30/5/22-2hr	
IV	Managing File Systems & Disk Space		1 Hour	26/4/22-2hr	1 Hour	30/5/22-2hr	} Red 21/4/22 PP
	Security Files in Linux: File Access Permissions,		1 Hour	12/4/22-5hr	1 Hour	18/4/22-3hr	
	Viewing file access permissions,	https://www.linode.com/docs/tools	2 Hours	18/4/22-2,6hr	3 Hours	18/4/22-6hr, 19/4/22-1,5hr	
	Changing file access permissions,		2 Hours	21/4/22-2,5hr	2 Hours	21/4/22-2,5hr	
	Automating Tasks & Shell scripts: Introduction, Shell as a Command Interpreter		2 Hours	21/4/22-2,5hr	2 Hours	21/4/22-2,5hr	
Referred Books : Operating System LINUX, NIIT, PHI 2006, Eastern Economy Edition Richard Peterson LINUX : The complete reference, Sixth Edition, Tata McGraw Hill Edition 2008							
							PRINCIPAL

LESSON PLAN Vs ACTUAL		KECAJ					
		Semester: IV		Class: II - B.Sc. CS 'A'			
		Subject: LINUX and SHELL PROGRAMMING					
UNIT	TOPIC	Other Sources & References	Planned		Actual		Initials of HOD
			Hours	Date and Hour	Hours	Date and Hour	
IV	Variables in Shell, Local and Global shell variables, Command Substitution,	https://ryanstutorials.net/bash/variables	2 Hours	22/4/22-2,6hr	2 Hours	26/4/22-5hr, 27/4/22-6hr	} Red 21/4/22 PP
	ENHANCEMENT TOPIC:		3 Hours	23/4/22-1,5hr, 24/4/22-5hr		28/4/22-2,5hr, 30/4/22-1,6hr, 2/5/22-1,5hr	
	Secure Linux Server for Production environment		1 Hour	28/4/22-2hr	1 Hour	28/4/22-5hr	
	Using conditional execution in Shell scripts: Conditional Execution: test & [] Command Construct, if, if-else Construct, Arithmetic Tests, String Tests, File Tests, Exit Commands.	https://4wto/pwntonic/shellscripts-conditional https://ryanstutorials.net/bash/if-statement	1 Hour	28/4/22-1hr	1 Hour	5/5/22-2hr	
			2 Hours	29/4/22-5hr, 2/5/22-2hr	2 Hours	5/5/22-5hr, 6/5/22-6hr	
			1 Hour	2/5/22-5hr			
			1 Hour	4/5/22-2hr	1 Hour	7/5/22-5hr	
Referred Books : Operating System LINUX, NIIT, PHI, 2006, Eastern Economy Edition Richard Peterson, LINUX : The complete reference, Sixth Edition, Tata McGrawHill Publishing Company limited.							
							PRINCIPAL

Log book- Macro and Micro plan

KGCAS							
LESSON PLAN Vs ACTUAL							
Semester: <u>IV</u> Class: <u>IT-B.Sc.CS-A</u>							
Subject: <u>LINUX and SHELL PROGRAMMING</u>							
UNIT	TOPIC	Other Sources & References	Planned		Actual		Initials of HOD
			Hours	Date and Hour	Hours	Date and Hour	
V	The case ... case Construct;		1 Hour	4/5/22 - 6hr	1 Hour	7/5/22 - 6hr	
	Managing repetitive tasks						
	using Shell scripts: Using if then	https://books.cyberciti.biz/guide/for-loop	1 Hour	5/5/22 - 1hr	2 Hours	9/5/22 - 1.2hr	
	& Shell scripts: while construct						
	until Construct, for Construct,	https://www.shellscriptsh.com/	2 Hours	6/5/22 - 5hr 7/5/22 - 2hr	3 Hours	9/5/22 - 5hr 11/5/22 - 5hr 14/5/22 - 1hr	
	break & Continue Commands.		1 Hour	7/5/22 - 5hr	2 Hours	16/5/22 - 4.5hr	
	Simple programs using shellscript		1 Hour	10/5/22 - 2hr	2 Hours	18/5/22 - 2.5hr	
	ENHANCEMENT TOPIC:						
	Linux arrays		1 Hour	10/5/22 - 6hr	1 Hour	20/5/22 - 6hr	
	Previous year university question						
Paper discussion				3 Hours	21/5/22 - 1.45		
Revision: Unit-I - Functions and History of Linux				1 Hour	24/5/22 - 1hr		

Referred Books : Operating System Linux, NIIT, PHS, 2006, Eastern Economy Edition
 Richard Peterson, Linux: The Complete Reference, Sixth Edition, Tata McgrawHill Edition, 2008


PRINCIPAL

Log book-Attendance record

KECAJ

ATTENDANCE RECORD

UNIT-2
Page No.

Roll No.	Register Number	Name of the Student	Date													
			Date Order													
			I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII	XIV
Hour			1	3	5	2	5	6	1	2	3	2	3	6	1	
2022KA1	2022K0360	AKSHAYA M	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA2	2022K0361	ANBOSHI C	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA3	2022K0362	ARUNA S	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA4	2022K0363	ARUN PRASATH S	a	a	a	a	a	a	a	a	a	a	a	a	a	
2022KA5	2022K0364	ASWIN R	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA6	2022K0365	CHANDRU V	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA7	2022K0366	DANUSH P	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA8	2022K0367	DHARANI D	/	/	/	/	/	/	/	/	/	/	a	a	a	
2022KA9	2022K0368	DHIVYA M	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA10	2022K0369	DINESH KUMAR M	a	/	/	a	a	a	/	/	/	/	a	a	a	
2022KA11	2022K0370	DINESH S	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA12	2022K0371	ESTHER MERLIN A	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA13	2022K0372	GAURTHEE S	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA14	2022K0373	GHRIJANTH M	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA15	2022K0374	GUNASEELAN R	/	/	/	a	a	a	/	/	/	/	a	a	a	
2022KA16	2022K0375	HARI PRASAD C K	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA17	2022K0376	HARIHARAN J	a	a	a	/	/	/	/	/	/	/	a	a	a	
2022KA18	2022K0377	JANVI RANI G	a	a	a	/	/	/	/	/	/	/	/	/	/	
2022KA19	2022K0378	JENIFER T	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA20	2022K0379	KALAISELVAN R	a	a	a	/	/	/	/	/	/	/	a	a	a	
2022KA21	2022K0380	KARTHI P	/	/	/	/	/	/	/	/	/	/	a	a	a	
2022KA22	2022K0381	KAVISHARATH J	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA23	2022K0382	KAVYASHREE T	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA24	2022K0383	KEERTHANA S	a	a	a	/	/	/	/	/	/	/	/	/	/	
2022KA25	2022K0384	KISHORA R	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA26	2022K0385	LAKSHMANAN V	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA27	2022K0386	LITHURAJ S	/	/	/	/	/	/	/	/	/	/	a	a	a	
2022KA28	2022K0387	MANICANDAN K	a	a	a	/	/	/	/	/	/	/	/	/	/	
2022KA29	2022K0388	MAYAKANNAN A	a	a	a	a	a	a	a	a	a	a	a	a	a	
2022KA30	2022K0389	MONISAA A	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA31	2022K0390	NADANESH K K	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA32	2022K0391	NAVRAN KUMAR R	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA33	2022K0392	NAVNEERASA R B	/	/	/	/	/	/	a	a	a	/	/	/	/	
2022KA34	2022K0393	NISHANTH S	/	/	/	a	a	a	/	/	/	/	/	/	/	
2022KA35	2022K0394	NIVETHA M P	a	a	a	a	a	a	a	a	a	a	a	a	a	
2022KA36	2022K0395	PRADHUSHA N	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA37	2022K0396	PRATHAMA V	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA38	2022K0397	PREETHI R	/	/	/	a	a	a	/	/	/	/	/	/	/	
2022KA39	2022K0398	PRIVANKA D	a	a	a	/	/	/	/	/	/	/	/	/	/	
2022KA40	2022K0399	RACHANA PRIYA V	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA41	2022K0400	RITHIKA R	/	/	/	/	/	/	/	/	/	/	a	a	a	
2022KA42	2022K0401	RURHISHREE P	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA43	2022K0402	SALISHREE P	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA44	2022K0403	SAMUEL V	/	/	/	/	/	/	/	/	/	/	a	a	a	
2022KA45	2022K0404	SANTAL KUMAR S	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA46	2022K0405	SANMITHA G	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA47	2022K0406	SASHANTH K	a	a	a	a	a	a	/	/	/	/	/	/	/	
2022KA48	2022K0407	SHAFEEQ H	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA49	2022K0408	SHYAM KARTIK M	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA50	2022K0409	SNEHA A	a	a	a	/	/	/	/	/	/	/	/	/	/	
2022KA51	2022K0410	SOWMIYA J	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA52	2022K0411	SRIJITH P	a	/	/	a	a	a	/	/	/	/	a	a	a	
2022KA53	2022K0412	SURATHI S	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA54	2022K0413	SUREE KAVYA P	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA55	2022K0414	THARANI N	/	/	/	/	/	/	/	/	/	/	/	/	/	
2022KA56	2022K0415	VIJANESH RAJ S	/	/	/	/	/	/	/	/	/	/	a	a	a	
2022KA57	2022K0416	VISVAKHENDRA P	/	/	/	/	/	/	/	/	/	/	a	a	a	
2022KA58	2022K0417	VINAY R	/	/	/	a	a	a	/	/	/	/	/	/	/	
2022KA59	2022K0418	YOKESH S	/	/	/	a	a	a	/	/	/	/	/	/	/	
2022KA60	2022K0419	YUVARATHI J	a	a	a	/	/	/	/	/	/	/	a	a	a	
No. of Students Absent			14	12	12	12	12	12	4	4	4	18	18	18	4	
No. of Students Present			46	48	48	48	48	48	56	56	56	42	42	42	56	

Effective Curriculum Delivery**Classroom Management - CMM**

Review of previous session	2 Mins.
Synopsis of present session	5 Mins.
Lecture (PPT / Video)	20 Mins
Intellectual Break (google classroom quiz / poll)	3 Mins.
Lecture (PPT / Video)	20 Mins.
Summarization and Measurement of Outcome (assignment / Quiz / Questions)	10 Mins.
Duration	60 Mins.

Review of Previous Session and Synopsis of Present Session**24-04-2021**

Review : Unit-II - Constructor and destructor with static members

Synopsis : Unit-III - Operator Overloading : Overloading unary, Binary operators

Lesson Notes : Slide No. 3 to 18

Intellectual Break

The screenshot displays a Blackboard quiz interface for a course titled "I.B.Sc. CS A - C++". The quiz is titled "IB on 24-04-2021 - An operator is a symbol that indicates an operation." The interface shows the "Student answers" tab, with 45 students having turned in their answers and 13 assigned. A progress bar indicates that 45 students have answered "Yes", 0 have answered "No", and 0 have answered "Maybe". A list of students is shown on the left, all of whom have turned in their answers.

Student ID	Student Name	Status
2022KA01	Akshaya M	Turned in
2022KA02	Anbusilic	Turned in
2022KA03	APARNA S	Turned in
2022KA04	Anun Prasath. S	Turned in
2022KA08	Dharani D	Turned in
2022KA09	Dhirya M	Turned in
2022KA12	Esther Merlin A	Turned in Done late

Question: IB on 24-04-2021 - An operator is a symbol that indicates an operation.

45 Turned in, 13 Assigned

Yes: 45, No: 0, Maybe: 0

Activate Windows
Go to Settings to activate Windows.

Measurement of Outcome

	A	B	C	D	E	F	G	H	
1	Timestamp	Email Address	Score	Rollno	Name	There is a mechanism ce	The keyword ____	car Arrays are collection of s	The __
2	4/15/2021 10:31:04	pradhikshasi434@gmail.com	10 / 10	2022KA36	PRADHIKSHAN	constructor	static		TRUE friend
3	4/15/2021 10:31:27	gayathri1sairam@gmail.com	10 / 10	2022KA13	Gayathri S	constructor	static		TRUE friend
4	4/15/2021 10:31:42	salesvar42206@gmail.com	8 / 10	2022KA43	SAI ESVAR P	constructor	static		TRUE memb
5	4/15/2021 10:31:56	srinakhibe2211@gmail.com	10 / 10	2022KA53	SWATHI S	constructor	static		TRUE friend
6	4/15/2021 10:32:03	preethibabu1006@gmail.com	6 / 10	2022KA38	PREETHI B	constructor	static		TRUE all of th
7	4/15/2021 10:32:53	gsanmtha26@gmail.com	4 / 10	2022KA46	Sanmtha G	data hiding	friend		TRUE memb
8	4/15/2021 10:33:00	syedhasina73@gmail.com	10 / 10	2022KA54	Syed Kasina P	constructor	static		TRUE friend
9	4/15/2021 10:33:09	kishoreramu0@gmail.com	6 / 10	2022KA25	kishore.R	constructor	inline		TRUE friend
10	4/15/2021 10:33:36	dhivayamuruganvm@gmail.com	8 / 10	2022KA09	DHIVYA M	inheritance	static		TRUE friend
11	4/15/2021 10:34:14	monishaarumugam01@gmail.com	8 / 10	2022KA30	MONISHA A	constructor	friend		TRUE friend
12	4/15/2021 10:34:34	vickyraj7402@gmail.com	8 / 10	2022KA56	VIGNESH RAJ S	constructor	static		FALSE friend
13	4/15/2021 10:34:43	apamasaravanan2002@gmail.com	8 / 10	2022KA03	Apama s	constructor	static		TRUE memb
14	4/15/2021 10:34:55	www.anbusil1603@gmail.com	10 / 10	2022KA02	Anbusil.C	constructor	static		TRUE friend
15	4/15/2021 10:35:14	akshayaaku1302@gmail.com	10 / 10	2022KA01	AKSHAYA M	constructor	static		TRUE friend
16	4/15/2021 10:35:19	lithish05@gmail.com	6 / 10	2022KA27	B.lithish	constructor	static		FALSE memb
17	4/15/2021 10:35:22	sashanthkrishnan12@gmail.com	10 / 10	2022KA47	Sashanth k	constructor	static		TRUE friend
18	4/15/2021 10:35:38	shivabala11945@gmail.com	10 / 10	2022KA33	NAVUKARASU R.B	constructor	static		TRUE friend
19	4/15/2021 10:35:39	keerthanakeerthy16@gmail.com	2 / 10	2022KA24	Keerthana s	inheritance	static		FALSE memb
20	4/15/2021 10:36:42	jenifer6191@gmail.com	10 / 10	2022KA19	JENIFER T	constructor	static		TRUE friend
21	4/15/2021 10:36:50	ghetanjali25@gmail.com	8 / 10	2022KA414	GHETANJALI M	constructor	static		TRUE memb
22	4/15/2021 10:36:52	kaviyashree.l@gmail.com	10 / 10	2022KA23	Kaviyashree.l	constructor	static		TRUE friend
23	4/15/2021 10:36:53	jansirani1703@gmail.com	10 / 10	2022KA18	Jansi Rani.G	constructor	static		TRUE friend
24	4/15/2021 10:37:12	rachanapriya@gmail.com	10 / 10	2022KA40	RACHANAPRIYA V	constructor	static		TRUE friend
25	4/15/2021 10:37:22	manikandanmassboy@gmail.com	8 / 10	2022KA08	Dharani D	polymorphism	static		TRUE friend
26	4/15/2021 10:37:36	rsam37289@gmail.com	0 / 10	2022KA56	Sam	data hiding	none of the mentioned		FALSE const
27	4/15/2021 10:38:25	pratheema9025383814@gmail.com	10 / 10	2022KA37	PRATHEEMA V	constructor	static		TRUE friend

Effective Curriculum Delivery Through Models







Coimbatore, Tamil Nadu, India

365, Thudiyalur Rd, Saravanampatti, Coimbatore, Tamil Nadu
641035, India

Lat 11.083872°

Long 76.997288°

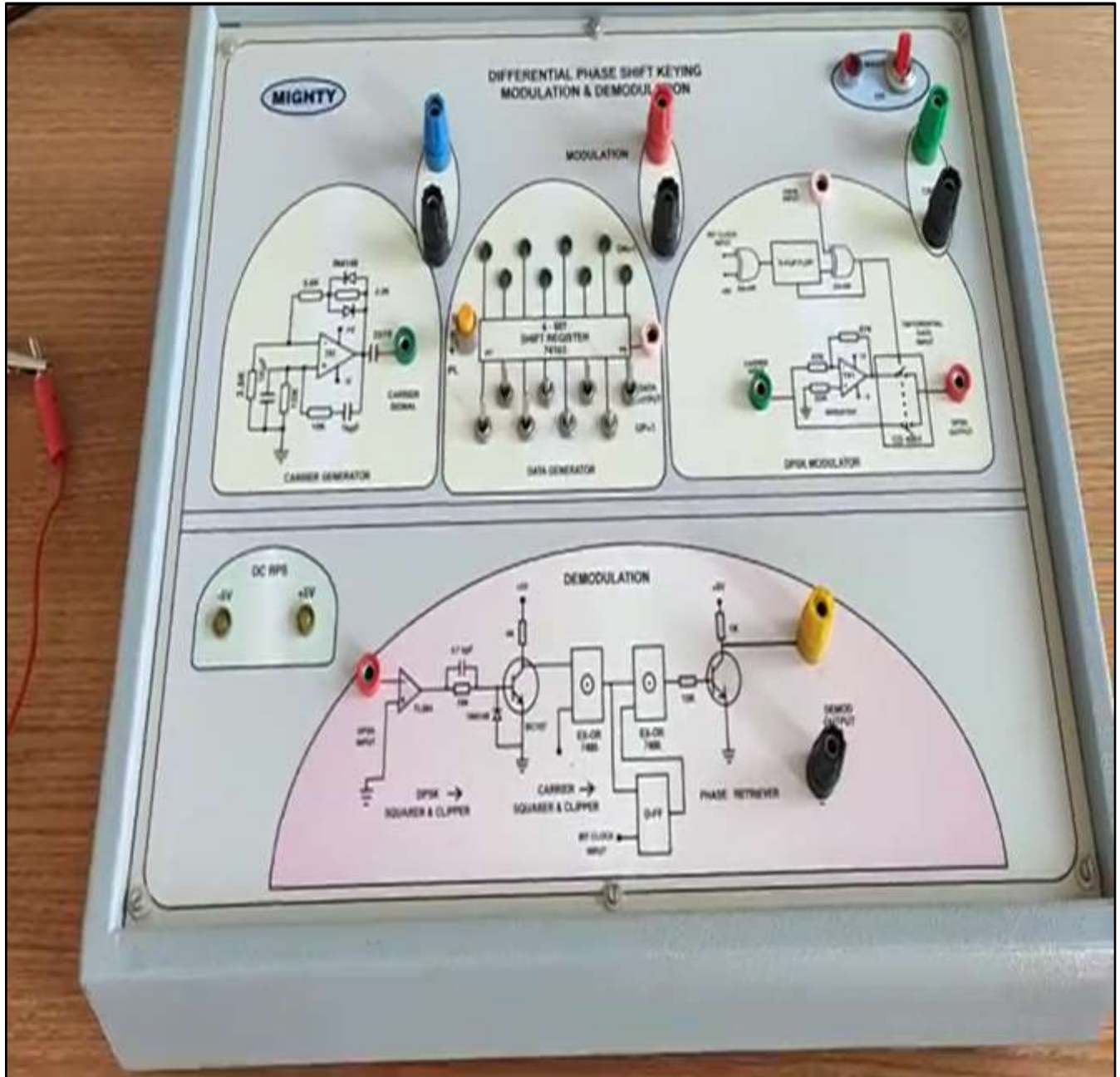
08/08/22 02:25 PM





Lab experiment demonstration available in Youtube

Video Link : <https://youtu.be/kFP2f3T4rvq>

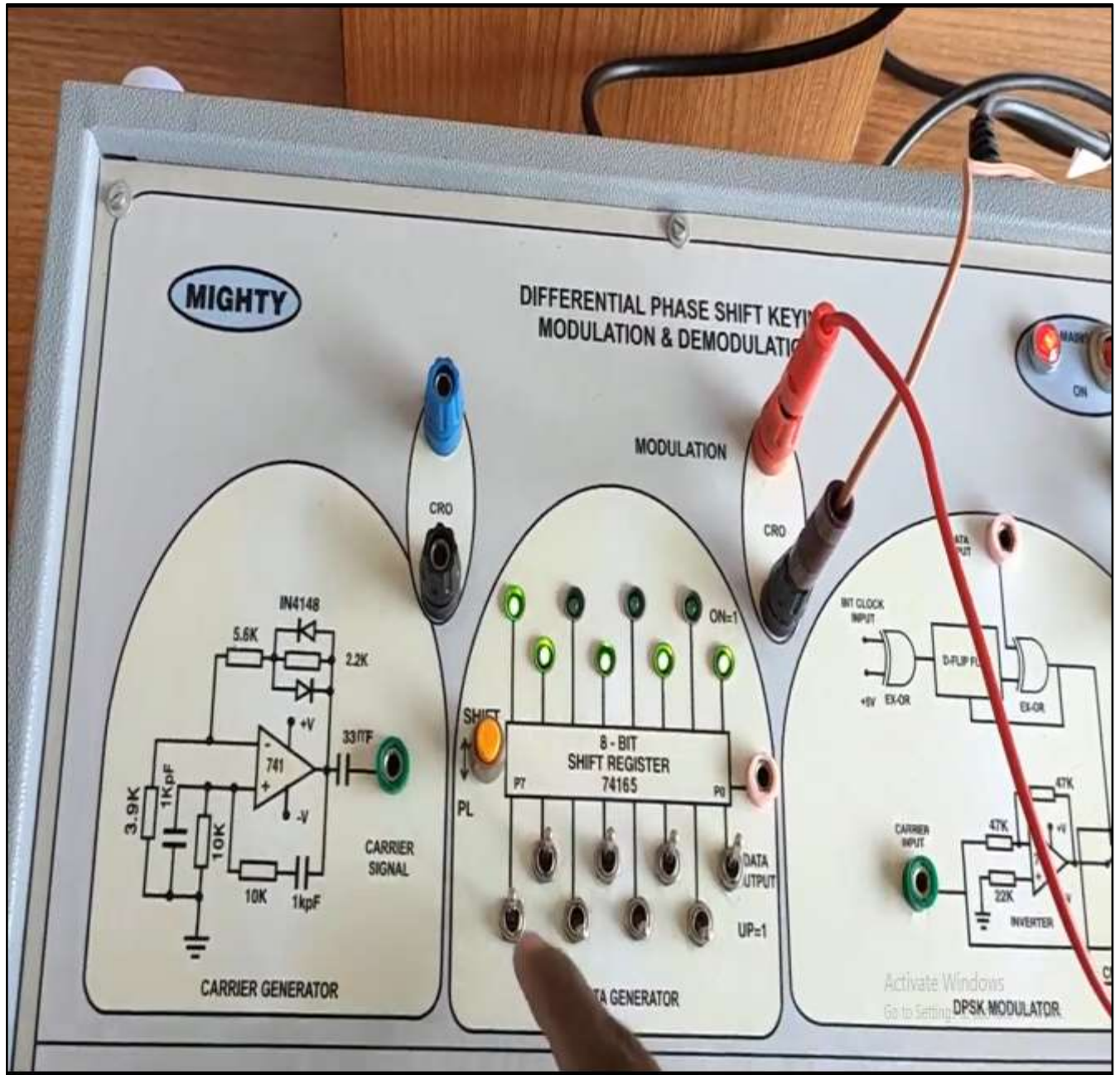


Press Esc to exit full screen

DIFFERENTIAL PHASE SHIFT KEYING (DPSK)

- Digital Modulation Technique.
- Phase of the Carrier signal - varies - according to the Input Signal.

CURRENT DATA	NEXT DATA	OUTPUT
0	0	NO CHANGE IN THE ANGLE
0	1	CHANGE IN THE ANGLE
1	0	NO CHANGE IN THE ANGLE
1	1	CHANGE IN THE ANGLE



Question Bank in e-Campus

The screenshot displays the 'e-Campus' interface for editing a question bank. The page title is 'KG College of Arts and Science' and the user is 'R. Sarala Computer Science'. The navigation menu includes: Home, Planner, Student, Attendance, Evaluation, Disciplinary, Project Management, Question Bank, ISO Report, and Daily Activities. The current page is 'Edit Question -> B.Sc CS/2020/IV Semester/LINUX AND SHELL PROGRAMMING'. The 'Question Bank Component' is set to 'OBE'. The syllabus tree on the left shows 'CO1/K1' expanded. The main content area displays three questions:

- Question 1:** What is the use of ls command in Linux? (CO1-K1). Options: a) Listing files and directories, b) remove files, c) copy files, d) rename directory.
- Question 2:** The _____ is an example of multitasking operating system but not a multiuser system. (CO1-K1). Options: a) MS-DOS, b) Windows, c) Unix, d) Linux.
- Question 3:** Expand CLI. (CO1-K1). Options: a) Continue Line Indicator, b) Command Line Interface, c) Command Line Intermediate, d) Course Linear Interface.

Below the main content area, there are sections for 'Section B (4 Ques)' and 'Section C (4 Ques)', each with a 'New Question' link.

KG College of Arts and Science **eCampus**
 R. Sarala
 Computer Science

Home | Planner | Student | Attendance | Evaluation | Disciplinary | Project Management | Question Bank | ISO Report | Daily Activities

Edit Question->B.Sc CS/2020/IV Semester/LINUX AND SHELL PROGRAMMING

Edit Question

Question Bank Component : OBE

Syllabus Heading	CO1	K1	1	What is a multi-user system? Explain the features of multi-user system with a neat diagram. (CO1-K1)	Section A (4 Ques) [New Question]										
					K2	2	Distinguish between Linux and Unix operating system with an examples. (CO1-K1)	Section B (4 Ques) [New Question]							
								K3	3	Describe about the architecture of Linux. (CO1-K1)					
											K4	4	How a root account differ from a user account? Explain. (CO1-K1)		
														K5	Section C (4 Ques) [New Question]
	CO2														
		CO3													
			CO4												
				CO5											

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Edit Question->B.Sc CS/2020/IV Semester/LINUX AND SHELL PROGRAMMING

Edit Question

Question Bank Component : OBE

Syllabus Heading	CO1	K1	1	Define an Operating System. Explain its functions. (CO1-K1)	Section A (4 Ques) [New Question]										
					K2	2	What is shell in Linux? List out the shells available in Linux. (CO1-K1)	Section B (4 Ques) [New Question]							
								K3	3	Describe features and utilities in Linux. (CO1-K1)					
											K4	4	List out the functions of Operating System. (CO1-K1)		
														K5	Section C (4 Ques) [New Question]
	CO3														
		CO4													
			CO5												

Time Table for Continuous Internal Assessments

KG COLLEGE OF ARTS AND SCIENCE, COIMBATORE-35

Time Table-Continuous Internal Assessment – I

Session & Time: Forenoon Session (FN):9.00 am to 11.00 am / Afternoon Session (AN):02.00 pm to 4.00 pm

Date /Class	28.03.2022 F.N	28.03.2022 A.N	29.03.2022 F.N	30.03.2022 F.N	31.03.2022 F.N
I B.Sc. (CS)	LANGUAGE-II	HUMAN RIGHTS	ENGLISH-II	C++ PROGRAMMING	DISCRETE MATHEMATICS
II B.Sc. (CS)	SYSTEM SOFTWARE & OPERATING SYSTEM	GENERAL AWARENESS	LINUX AND SHELL PROGRAMMING	BUSINESS ACCOUNTING	-
III B.Sc. (CS)	GRAPHICS AND MULTIMEDIA	-	NETWORK SECURITY & CRYPTOGRAPHY	DATA MINING	-

KG COLLEGE OF ARTS AND SCIENCE, COIMBATORE-35

Time Table-Continuous Internal Assessment – II

Session & Time: Forenoon Session (FN):9.30 am to 11.30 am/Afternoon Session (AN):02.00 pm to 4.00 pm

Date /Class	25.04.2022 F.N	25.04.2022 A.N	26.04.2022 F.N	27.04.2022 F.N	28.04.2022 F.N
I B.Sc. (CS)	LANGUAGE-II	HUMAN RIGHTS	ENGLISH-II	C++ PROGRAMMING	DISCRETE MATHEMATICS
II B.Sc. (CS)	SYSTEM SOFTWARE & OPERATING SYSTEM	GENERAL AWARENESS	LINUX AND SHELL PROGRAMMING	BUSINESS ACCOUNTING	-
III B.Sc. (CS)	GRAPHICS AND MULTIMEDIA	-	NETWORK SECURITY & CRYPTOGRAPHY	DATA MINING	-

KG COLLEGE OF ARTS AND SCIENCE, COIMBATORE-35

Time Table - Model Examinations - May / June 2022

Session & Time: Forenoon Session (FN): 9.30 am to 12.30 am /Afternoon Session (AN): 02.00 pm to 4.00 pm

Date /Class	01.06.2022 F.N	02.06.2022 F.N	03.06.2022 F.N	03.06.2022 A.N	06.06.2022 F.N
I B.Sc. (CS)	C++ PROGRAMMING	DISCRETE MATHEMATICS	LANGUAGE-II	HUMAN RIGHTS	ENGLISH-II
II B.Sc. (CS)	SYSTEM SOFTWARE & OPERATING SYSTEM	LINUX AND SHELL PROGRAMMING	BUSINESS ACCOUNTING	GENERAL AWARENESS	.
III B.Sc. (CS)	GRAPHICS AND MULTIMEDIA	NETWORK SECURITY & CRYPTOGRAPHY	DATA MINING	.	.

Question pattern settings- Continuous Internal Assessments I

Department OF COMPUTER SCIENCE , CIA - I - March 2022
II B.Sc CS
LINUX AND SHELL PROGRAMMING

Exam Duration : 2Hrs Exam Max Mark : 50

*Level 1 Heading : --SELECT--
Level 2 Heading

*Heading Type	*Heading Name	*No of Questions	*Mark/Question	*Total Mark
--SELECT--	<input style="width: 200px;" type="text" value="Qb Sub Heading Name"/>	No	Mark	Total Mark
		Question	X Mark	=
		<input style="width: 40px;" type="text"/>	<input style="width: 40px;" type="text"/>	<input style="width: 40px;" type="text"/>

Question Count Setting
No. Of Question : No Question Allow

Section A

I PART-I Mark 8 X 1.00 = 8.00

1	Question1 From _K1	
2	Question2 From _K1	
3	Question3 From _K1	
4	Question4 From _K1	
5	Question5 From _K2	
6	Question6 From _K2	
7	Question7 From _K2	
8	Question8 From _K2	
Total Questions : 8		

Section B

II PART-I Mark 3 X 6.00 = 18.00

1	Question (a) From _K1	
	Question (b) From _K1	
2	Question (a) From _K2	
	Question (b) From _K2	
3	Question (a) From _K2	
	Question (b) From _K2	
Total Questions : 3		

Section C

III PART-I Mark 3 X 8.00 = 24.00

1	Question (a) From _K2	
	Question (b) From _K2	
2	Question (a) From _K2	
	Question (b) From _K2	
3	Question (a) From _K3	
	Question (b) From _K3	
Total Questions : 3		

Question pattern settings- Continuous Internal Assessments II

KG COLLEGE OF ARTS AND SCIENCE
 Department OF COMPUTER SCIENCE , CIA - II - April 2022
 II B.Sc CS
 LINUX AND SHELL PROGRAMMING

Exam Duration : 2Hrs Exam Max Mark : 50

*Level 1 Heading : --SELECT-- Level 2 Heading

*Heading Type	*Heading Name	*No of Questions	*Mark/Question	*Total Mark
--SELECT--	Qb Sub Heading Name	No	X Mark	= Total Mark
		Mark	Question	=

Question Count Setting
 No. Of Question : No Question Allow

Section A

I Answer all the questions Mark 8 X 1.00 = 8.00

- 1 Question1 From _K2
- 2 Question2 From _K2
- 3 Question3 From _K2
- 4 Question4 From _K2
- 5 Question5 From _K2
- 6 Question6 From _K2
- 7 Question7 From _K3
- 8 Question8 From _K3

Total Questions : 8

Section B

II Answer any three questions Mark 3 X 6.00 = 18.00

- 1 Question1 From _K2
- 2 Question2 From _K2
- 3 Question3 From _K2
- 4 Question4 From _K3

Total Questions : 4

Section C

III Answer any three questions Mark 3 X 8.00 = 24.00

- 1 Question1 From _K2
- 2 Question2 From _K2
- 3 Question3 From _K2
- 4 Question4 From _K3

Total Questions : 4

Question pattern settings- Model Examinations

KG COLLEGE OF ARTS AND SCIENCE
 Department OF COMPUTER SCIENCE , UG Model Examination - May 2022
 II B.Sc CS
 LINUX AND SHELL PROGRAMMING

Exam Duration : 3Hrs Exam Max Mark : 75

*Level 1 Heading : --SELECT--
 Level 2 Heading

*Heading Type	*Heading Name	*No of Questions	*Mark/Question	*Total Mark
--SELECT--	Qb Sub Heading Name <input style="width: 200px;" type="text"/>	No Mark	Question X Mark <input style="width: 50px;" type="text"/>	Total Mark <input style="width: 50px;" type="text"/>

Question Count Setting
 No. Of Question : No Question Allow

Section A

I Answer all the Questions Mark 10 X 1.00 = 10.00

1	Question1 From _K1	
2	Question2 From _K1	
3	Question3 From _K2	
4	Question4 From _K2	
5	Question5 From _K2	
6	Question6 From _K2	
7	Question7 From _K3	
8	Question8 From _K3	
9	Question9 From _K3	
10	Question10 From _K3	

Total Questions : 10

Section B

II Answer all the Questions Mark 5 X 5.00 = 25.00

1	Question (a) From _K1	
	Question (b) From _K1	
2	Question (a) From _K1	
	Question (b) From _K1	
3	Question (a) From _K2	
	Question (b) From _K2	
4	Question (a) From _K3	
	Question (b) From _K3	
5	Question (a) From _K3	
	Question (b) From _K3	

Total Questions : 5

Section C

III Answer all the Questions Mark 5 X 8.00 = 40.00

1	Question (a) From _K1	
	Question (b) From _K2	
2	Question (a) From _K2	
	Question (b) From _K1	
3	Question (a) From _K2	
	Question (b) From _K2	
4	Question (a) From _K3	
	Question (b) From _K3	
5	Question (a) From _K3	
	Question (b) From _K3	

Total Questions : 5

Question Paper- Continuous Internal Assessment I



KG COLLEGE OF ARTS AND SCIENCE
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 ISO 9001:2015 Certified Institution
 KGISL Campus, Coimbatore – 641 035

DEPARTMENT OF COMPUTER SCIENCE

CIA – I- EXAMINATION – MARCH 2022

CLASS : II B.Sc. CS 'A', 'B' & 'C'

MAX MARKS : 50

SEMESTER : IV

DURATION : 2Hrs

SUBJECT : Core 7 : Linux and Shell Programming

SUB CODE : 43B

Section – A

(8 * 1 = 8 marks)

Answer ALL the questions:

1. What is the use of ls command in Linux? (CO1-K1)
2. The _____ is an example of multitasking operating system but not a multiuser system. (CO1-K1)
3. Expand CLI. (CO1-K1)
4. The root user is also known as the _____. (CO1-K1)
5. The user who creates a file is known as the _____. (CO2-K2)
6. Symbolic links are also known as _____. (CO2-K2)
7. The /home directory contains _____. (CO2-K2)
8. Which command is used to copy the file from source to destination? (CO2-K2)

Section - B

(3 * 6 = 18 marks)

Answer ALL the questions:

9. (a) What is a Multi-user system? Explain the features of Multi-user system with a neat diagram. (CO1-K1) (or)
 (b) Distinguish between Linux and Unix operating system with examples. (CO1-K1)
10. (a) Explain about the architecture of Linux in detail. (CO1-K2) (or)
 (b) What is a root account and how does it differ from a user account? Explain. (CO1-K1)
11. (a) Explain file naming conventions with suitable example. (CO2-K2) (or)
 (b) How to create and remove a directory in Linux? Explain. (CO2-K2)


Section – C

(3 * 8 = 24 marks)

Answer ALL the questions:

12. (a) Define an Operating System. Explain its functions. (CO1-K2) (or)
 (b) What is shell in Linux OS? Explain the shells available in Linux OS. (CO1-K2)
13. (a) Elucidate the concept of file system in Linux. (CO2-K2) (or)
 (b) Explain file commands in Linux with suitable example. (CO2-K2)
14. (a) Discuss the types of files in Linux. (CO2-K3) (or)
 (b) What is wildcard characters? Explain with example. (CO2-K3)

Question paper- Continuous Internal Assessment II



KG COLLEGE OF ARTS AND SCIENCE
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 An ISO 9001 : 2015 Certified Institution

Reg No :

DEPARTMENT OF COMPUTER SCIENCE
CIA - II - April 2022

CLASS : II B.Sc CS	Max. Marks & Duration : 50 & 2 Hrs
SEMESTER : IV Semester	Date & Session : 26.04.2022 & FN
SUBJECT : LINUX AND SHELL PROGRAMMING	Sub Code : 43B

Section A **(8 X 1 = 8 marks)**

I Answer all the questions

- 1 While using the cat command, user can enter the multiple lines. To indicate the end of input, user need to press ___ keys. (CO3-K2)
- 2 In Linux, all open files, including standard files, are assigned a number called the _____. (CO3-K2)
- 3 In the filter cut, the -f option will represent _____. (CO3-K2)
- 4 The _____ option is used in tr command to specify a single space as a column separator. (CO3-K2)
- 5 The _____ symbol is used to concatenate more than one command in Linux. (CO3-K2)
- 6 Expand vi editor in Linux. (CO3-K2)
- 7 _____ command is used to view file access permission. (CO4-K3)
- 8 In _____ mode, use symbols to specify the permissions and the types of users. (CO4-K3)

Section B **(3 X 6 = 18 marks)**

II Answer any three questions


- 1 Distinguish vi and vim editor. (CO3 -K2)
- 2 Describe ed and red editor. (CO3 -K2)
- 3 Classify commonly used and powerful command in vi editor. (CO3 -K2)
- 4 Apply the file access permissions to the directory with suitable example. (CO4-K3)

Section C **(3 X 8 = 24 marks)**

III Answer any three questions

- 1 Describe about emacs, The joe and The pico editor. (CO3 -K2)
- 2 Describe about redirection with suitable example. (CO3 -K2)
- 3 Estimate pipes in Linux and explain on it. (CO3 -K2)
- 4 Demonstrate absolute mode to the files with example. (CO4-K3)

Question paper- Model Examinations



KG COLLEGE OF ARTS AND SCIENCE
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 An ISO 9001 : 2015 Certified Institution

Reg No : _____

DEPARTMENT OF COMPUTER SCIENCE
 UG Model Examination - May 2022

CLASS : II B.Sc CS **Max. Marks & Duration : 75 & 3 Hrs**
SEMESTER : IV Semester **Date & Session : 02.06.2022 & FN**
SUBJECT : LINUX AND SHELL PROGRAMMING **Sub Code : 43B**

Section A **(10 X 1 = 10 marks)**

I Choose the Correct Answer

- 1 What is the use of ls command in Linux? (CO1-K1)
 a) Listing files and directories b) remove files c) copy files d) rename directory
- 2 Expand CLI. (CO1-K1)
 a) Continue Line Indicator b) Command Line Interface c) Command Line Intermediate d) Course Linear Interface
- 3 Symbolic links are also known as _____. (CO2-K2)
 a) Hard Link b) Soft Link c) either Hard or Soft Link d) All of the mentioned
- 4 The /home directory contains _____. (CO2-K2)
 a) User details b) Memory Details c) Processor Details d) None of the mentioned
- 5 While using the cat command, user can enter the multiple lines. To indicate the end of input, user need to press ____ keys. (CO3-K2) a) ctrl+d b) ctrl+c c) ctrl+x d) ctrl+s
- 6 The _____ symbol is used to concatenate more than one command in Linux. (CO3-K2)
 a) + b) & c) | d) \$
- 7 Expand FAP. (CO4-K3)
 a) File Access Permission b) First Allow Permission c) File Access Program d) All of the mentioned
- 8 The _____ command is used to view file access permission. (CO4-K3)
 a) ls -a b) ls -R c) ls -l d) ls -x
- 9 An expression is a combination of terms and _____. (CO5-K3)
 a) Operators b) Values c) String d) All of the mentioned
- 10 In file test, the _____ option will be used to find the directory. (CO5-K3)
 a) -e b) -s c) -d d) -a

Section B **(5 X 5 = 25 marks)**

II Answer ALL the Questions


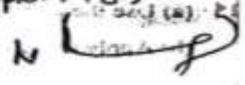
- 11 (a) Describe about the architecture of Linux in detail. (CO1-K1) (OR)
 (b) Describe a root account differ from a user account. (CO1-K1)
- 12 (a) Explain file naming conventions with a suitable example. (CO2-K1) (OR)
 (b) Explain the listing content of the a directory in detail. (CO2-K1)
- 13 (a) Discuss about text editors in Linux. (CO3 -K2) (OR)
 (b) Describe ed and red editor. (CO3 -K2)
- 14 (a) Apply the file access permissions to the directory with suitable example. (CO4-K3) (OR)
 (b) Demonstrate variable with a suitable shell script. (CO4-K3)
- 15 (a) Use the exit command to write the suitable shell script. (CO5-K3) (OR)
 (b) Apply arithmetic test operator to find the class obtained based on the percentage. (CO5-K3)

Section C

(5 X 1 = 50 marks)

III Answer ALL the Questions

- 16 (a) Define an Operating System. Explain its functions. (CO1-K1) (OR)
 (b) Describe features and utilities in Linux. (CO1-K2)
- 17 (a) Generalize the types of files in Linux. (CO2-K2) (OR)
 (b) Explain about the wild card characters with a example. (CO2-K1)
- 18 (a) Describe about emacs, the joe and the pico editor. (CO3 –K2) (OR)
 (b) Discuss about the Insert and replace, cursor movement, word movement, deletion and modification command in vi editor. (CO3 –K2)
- 19 (a) Use the chmod command to modify the file access permission with a suitable example. (CO4-K3) (OR)
 (b) Write a shell script using expr command and display the multiplication table. (CO4-K3)
- 20 (a) Use the case...esac construct to display current date, user name and listing files and directories. (CO5-K3) (OR)
 (b) Apply nesting for loop with a suitable example. (CO5-K3)


 Date : 02-06-2022
 No. of Copies : 185


Course Outcome Attainment

Course End Report Odd Semester 2021 – 22

Programme Name	B.Sc. Computer Science
Semester	IV
Course Name	Core 7 : Linux and Shell Programming
Course Code	43B
Class	II B.Sc. CS 'A'
Number of Students	60
Course Coordinator	Dr.R.Sarala
Programme Coordinator	Dr.A.Gokilavani

Course Outcomes

CO1	Describe the architecture and features of Linux Operating System and distinguish it from another Operating System.
CO2	Develop Linux utilities to perform File processing, Directory handling, User Management and display system configuration
CO3	Develop shell scripts using pipes, redirection, filters and Pipes
CO4	Apply and change the ownership and file permissions using advance Unix commands.
CO5	Build Regular expression to perform pattern matching using utilities and implement shell scripts for real time applications.

Course Outcomes Assessment methods

1. CIA (Continuous Internal Assessment)
2. Model Examination

Scheme of Assessment Methods

S. No.	Assessment Name	Date	Total marks	Marks distribution to COs				
				CO1	CO2	CO3	CO4	CO5
1	CIA	29/03/2022	50	26	24			
2	Model Exam	02/06/2022	75	15	15	15	15	15

CO Attainment in Continuous Internal Assessment

Attainment level	Description	Correlation level
1	Percentage of students secured more than 50% of marks	Upto 60%
2		61 % - 70%
3		More than 70%

KG COLLEGE OF ARTS AND SCIENCE
DEPARTMENT OF COMPUTER SCIENCE

CLASS : II B.Sc. CS -A

SEMESTER : IV

SUBJECT NAME : LINUX AND SHELL PROGRAMMING

SUBJECT CODE:43B

S.No.	Roll No	CIA - I		UG Model Examination					Consolidated				
Course Outcomes		CO2	CO1	CO1	CO2	CO3	CO4	CO5	CO2	CO1	CO3	CO4	CO5
Total Marks		26	24	15	15	15	15	15	41	39	15	15	15
1	2022KA01	20	21	13	14	13	12	11	34	34	13	12	11
2	2022KA02	22	21	13	12	12	15	12	34	34	12	15	12
3	2022KA03	22	19	14	13	11	14	14	35	33	11	14	14
4	2022KA04	6	14	10	4	2	14	6	10	24	2	14	6
5	2022KA05	9	18	12	8	7	4	1	17	30	7	4	1
6	2022KA06	21	17	6	12	9	12	8	33	23	9	12	8
7	2022KA07	19	18	13	11	11	13	8	30	31	11	13	8
8	2022KA08	16	19	15	13	12	12	13	29	34	12	12	13
9	2022KA09	21	19	14	13	14	14	14	34	33	14	14	14
10	2022KA10	11	12	7	4	2	12	8	15	19	2	12	8
11	2022KA11	18	21	14	9	10	14	8	27	35	10	14	8
12	2022KA12	23	15	13	12	14	11	13	35	28	14	11	13
13	2022KA13	23	22	14	15	13	15	14	38	36	13	15	14
14	2022KA14	23	21	14	13	13	14	14	36	35	13	14	14
15	2022KA15	13	19	10	9	7	2	7	22	29	7	2	7

16	2022KA16	16	17	12	11	6	14	11	27	29	6	14	11
17	2022KA17	3	17	2	2	2	9	2	5	19	2	9	2
18	2022KA18	7	17	12	2	10	6	1	9	29	10	6	1
19	2022KA19	18	13	AB	AB	AB	AB	AB	18	13	0	0	0
20	2022KA20	2	8	10	10	7	8	2	12	18	7	8	2
21	2022KA21	11	9	10	12	6	7	7	23	19	6	7	7
22	2022KA22	21	19	13	13	9	14	15	34	32	9	14	15
23	2022KA23	23	21	13	15	13	13	10	38	34	13	13	10
24	2022KA24	15	8	13	7	11	13	7	22	21	11	13	7
25	2022KA25	15	12	11	12	11	13	11	27	23	11	13	11
26	2022KA26	8	9	8	10	6	6	6	18	17	6	6	6
27	2022KA27	10	12	6	5	5	4	3	15	18	5	4	3
28	2022KA28	15	17	12	8	4	10	10	23	29	4	10	10
29	2022KA29	2	7	4	6	7	4	0	8	11	7	4	0
30	2022KA30	20	19	8	9	6	13	10	29	27	6	13	10
31	2022KA31	14	14	12	10	8	13	8	24	26	8	13	8
32	2022KA32	11	15	11	4	8	13	5	15	26	8	13	5
33	2022KA33	9	12	8	3	5	6	4	12	20	5	6	4
34	2022KA34	13	14	6	6	4	7	8	19	20	4	7	8
35	2022KA35	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB	AB
36	2022KA36	24	20	13	13	14	15	14	37	33	14	15	14
37	2022KA37	20	16	12	12	11	10	6	32	28	11	10	6

38	2022KA38	24	21	13	12	14	14	12	36	34	14	14	12
39	2022KA39	15	17	12	13	11	13	12	28	29	11	13	12
40	2022KA40	22	19	13	14	13	10	10	36	32	13	10	10
41	2022KA41	15	17	10	9	13	12	5	24	27	13	12	5
42	2022KA42	16	18	13	9	11	11	7	25	31	11	11	7
43	2022KA43	11	13	8	5	6	7	7	16	21	6	7	7
44	2022KA44	11	16	7	5	6	12	8	16	23	6	12	8
45	2022KA45	14	12	6	8	6	9	6	22	18	6	9	6
46	2022KA46	21	18	12	13	13	13	8	34	30	13	13	8
47	2022KA47	10	15	11	10	5	11	5	20	26	5	11	5
48	2022KA48	6	12	6	4	3	3	2	10	18	3	3	2
49	2022KA49	AB	AB	10	4	4	2	2	4	10	4	2	2
50	2022KA50	19	16	13	13	9	13	12	32	29	9	13	12
51	2022KA51	23	20	14	13	14	13	14	36	34	14	13	14
52	2022KA52	9	13	9	5	4	8	4	14	22	4	8	4
53	2022KA53	21	21	13	11	14	14	12	32	34	14	14	12
54	2022KA54	22	21	13	14	15	14	12	36	34	15	14	12
55	2022KA55	17	20	13	14	14	15	12	31	33	14	15	12
56	2022KA56	20	18	13	12	6	13	15	32	31	6	13	15
57	2022KA57	14	16	11	9	8	11	10	23	27	8	11	10
58	2022KA58	9	11	12	2	6	8	10	11	23	6	8	10
59	2022KA59	21	16	6	12	6	14	12	33	22	6	14	12

60	2022KA60	0	3	8	3	2	2	2	3	11	2	2	2
No of students present		58	58	58	58	58	58	58	59	59	59	59	59
No of students absent		2	2	2	2	2	2	2	1	1	1	1	1
50 % marks		13	12	7.5	7.5	7.5	7.5	7.5	20.5	19.5	7.5	7.5	7.5
No of students secured more than 50% marks		39	51	48	41	32	45	35	38	47	32	45	35
% of students secured more than 50% marks		67	88	83	71	55	78	60	64	80	54	76	59
Correlation Level									2	3	1	3	1
Attainment 2													

Analysis of Continuous Internal Assessment

Test	COs	Number of students present	Marks in QP	Students scored more than 50% of marks		Correlation level
				No.	%	
CIA	CO1	58	26	39	67	2
	CO3	58	24	51	88	3
Model Exam	CO1	58	15	48	83	3
	CO2	58	15	41	71	3
	CO3	58	15	32	55	1
	CO4	58	15	45	78	3
	CO5	58	15	35	60	1
Cumulative	CO1	59	41	38	64	2
	CO2	59	39	47	80	3
	CO3	59	15	32	54	1
	CO4	59	15	45	76	3
	CO5	59	15	35	59	1

Course Outcome attainment = 2 (Substantial)

PO Attainment

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
CO1	3	2	2	2	3	2	2	2	2	1
CO2	3	3	3	2	3	2	2	2	2	1
CO3	3	3	3	2	3	2	3	3	3	2
CO4	3	3	3	2	3	2	3	3	3	2
CO5	3	3	3	3	3	3	3	3	3	3
2	3	2.8	2.8	2.2	3	2.2	2.6	2.6	2.6	1.8
Average	2	1.9	1.9	1.5	2	1.5	1.7	1.7	1.7	1.2

R. S. S.

Prepared by

R. S. S.

Approved by

Unitwise feedback

Linux Unit-II Feedback (Responses) ☆ 📄 🔒

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	A	B	C	D	E	F	G	H
1	Timestamp	Enter your rollno here	Enter your name here	Whether Unit-II complete	Did you understand all th	How the classes are goin	Are you satisfied with fac	Any suggestion to improve myse
2	6/2/2022 19:38:09 2022ka07	Danush P	Yes	Yes	Excellent	Yes	Ntg	
3	6/2/2022 19:38:18 2022ka04	ArunPrasath.S	Yes	Yes	Excellent	Yes	nothing	
4	6/2/2022 19:38:51 2022KA12	Esther Merlin A	Yes	Yes	Good	Yes	.	
5	6/2/2022 19:38:51 2022ka34	Nishanth S	Yes	Yes	Excellent	Yes	.	
6	6/2/2022 19:39:35 2022KA22	Kavibharath J	Yes	Yes	Excellent	Yes		
7	6/2/2022 19:39:49 2022KA25	Kishore R	Yes	Yes	Very Good	Yes	Good	
8	6/2/2022 19:39:59 2022KA06	CHANDRU V	Yes	Yes	Very Good	Yes	No	
9	6/2/2022 19:40:04 2022KA30	MONISHA A	Yes	Yes	Excellent	Yes	.	
10	6/2/2022 19:40:38 2022KA09	DHIVYA M	Yes	Yes	Excellent	Yes	.	
11	6/2/2022 19:41:24 2022KA19	Jenifer T	Yes	Yes	Excellent	Yes	.	
12	6/2/2022 19:41:39 2022KA42	RUBHASHREE P	Yes	Yes	Very Good	Yes		
13	6/2/2022 19:42:08 2022ka41	RITHIKA.R	Yes	Yes	Very Good	Yes	No mam.	
14	6/2/2022 19:42:52 2022KA56	VIGNESH RAJ S	Yes	Yes	Excellent	Yes	No	
15	6/2/2022 19:44:06 2022KA23	Kaviyashree I	Yes	Yes	Excellent	Yes	None	
16	6/2/2022 19:44:58 2022KA39	Priyanka D	Yes	Yes	Good	Yes		
17	6/2/2022 19:45:06 2022KA40	RACHANAPRIYA V	Yes	Yes	Excellent	Yes	.	
18	6/2/2022 19:45:44 2022KA02	Anbusill C	Yes	Yes	Excellent	Yes	.	
19	6/2/2022 19:46:29 2022KA55	THARANI N	Yes	Yes	Excellent	Yes		
20	6/2/2022 19:47:33 2022KA58	VINAY.R	Yes	Yes	Excellent	Yes		
21	6/2/2022 19:49:12 2022KA31	Nadanesh	Yes	Yes	Excellent	Yes	Nothing	

+ ☰ Form Responses 1 📄 Explore

1	Timestamp	Enter your rollno here	Enter your name here	Whether Unit-II complete	Did you understand all th	How the classes are goin	Are you satisfied with fac	Any suggestion to improve myse
23	6/2/2022 19:50:05	2022KA51	Sowmiya S	Yes	Yes	Excellent	Yes	.
24	6/2/2022 19:51:43	2022ka33	NAVUKARASU R B	Yes	Yes	Excellent	Yes	No suggestions
25	6/2/2022 19:53:20	2022KA08	Dharani D	Yes	Yes	Excellent	Yes	.
26	6/2/2022 19:53:58	2022KA47	Sashanth k	Yes	Yes	Excellent	Yes	
27	6/2/2022 19:55:20	2022KA11	Dinesh S	Yes	Yes	Very Good	Yes	
28	6/2/2022 19:57:13	2022KA24	Keerthana S	Yes	Yes	Good	Yes	No
29	6/2/2022 19:58:52	22022KA60	Yuvasakthi S	Yes	Yes	Excellent	Yes	Nothing
30	6/2/2022 20:00:31	2022KA16	HARI PRASAD CK	Yes	Yes	Very Good	Yes	No
31	6/2/2022 20:00:34	2022KA14	Ghetanjali M	Yes	Yes	Excellent	Yes	
32	6/2/2022 20:08:58	2022KA03	Aparna S	Yes	Yes	Very Good	Yes	
33	6/2/2022 20:10:34	2022KA43	SAI ESVAR P	Yes	Yes	Excellent	Yes	
34	6/2/2022 20:20:44	2022KA37	Pratheema v	Yes	Yes	Excellent	Yes	.
35	6/2/2022 20:27:21	2022KA50	SNEKA A	Yes	Yes	Excellent	Yes	.
36	6/2/2022 20:28:53	2022KA27	Lithish	Yes	Yes	Excellent	Yes	
37	6/2/2022 20:30:54	2022KA05	Aswin R	Yes	Yes	Very Good	Yes	.
38	6/2/2022 21:06:54	2022KA13	GAYATHRI S	Yes	Yes	Excellent	Yes	No
39	6/2/2022 22:26:42	2022KA38	Preethi B	Yes	Yes	Excellent	Yes	Nil
40	6/2/2022 22:28:56	2022ka15	Gunaseelan R	Yes	Yes	Very Good	Yes	
41	6/2/2022 22:41:53	2022KA21	Karthi.P	Yes	Yes	Very Good	Yes	Well good
42	6/2/2022 22:54:01	2022KA32	Naveen Kumar	Yes	Yes	Excellent	Yes	

Syllabus Completion Feedback

Class : II - B.Sc. CS 'A'



KG COLLEGE OF ARTS AND SCIENCE
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 KGISL Campus, Coimbatore – 641 035

DEPARTMENT OF MANAGEMENT STUDIES
STUDENTS' DECLARATION ON SYLLABUS COMPLETION
 Academic Year 2021-2022 / EVEN

Subject : LINUX AND SHELL PROGRAMMING

Semester : IV

Faculty : DR. R. SARALA

100 % Syllabus are completed : Yes / No

If No, what are the topics yet to be covered ? List out in the table below

Unit- I	-
Unit- II	-
Unit- III	-
Unit- IV	-
Unit- V	-

But

We are thorough with the topics of this subject : Yes/ No
 The list of topics, we need revision

Unit- I	-
Unit- II	-
Unit- III	-
Unit- IV	-
Unit- V	-

But

Signature of the students

- 1. Prathiksha N - PRATHIKSHAN
- 2. Monisha A - MONISHA A
- 3. Kaviyashree I - KAVIYASHREE I
- 4. Nishanth S - NISHANTH S
- 5. Vignesh R S - VIGNESH RAJ S

Dr. R. Sarala
 HOD
 (A. G. Mohilarani)

[Signature]
 DEAN

[Signature]
 8/12/22
 PRINCIPAL