



NallamuthuGounderMahalingam College

(An Autonomous Institution, Affiliated to Bharathiar University)

90,PalghatRoad,Pollachi -642001,Coimbatore, Tamil Nadu, India.

95th Rank in NIRF –2023 - Among Colleges in India.



COURSE OUTCOME AND PROGRAMME OUTCOME ATTAINMENT

**CALCULATING FINAL PO ATTAINMENT
B.COM(FINANCE) 2020 - 2023 BATCH**

COURSE CODE	LEVELS	PO1	PO2	PO3	PO4	PO5
		PSO1	PSO2	PSO3	PSO4	PSO5
SEMESTER I						
20UCF101	Expected	2.75	2.5	2.25	2.5	2.5
	Attained	2.26	2.06	1.85	2.06	2.06
20UCF102	Expected	2.75	2.75	2.5	2.75	2.75
	Attained	2.61	2.61	2.38	2.61	2.61
20UCF1A1	Expected	2.75	2.25	3	2.5	2.5
	Attained	2.35	1.92	2.56	2.13	2.13
SEMESTER II						
20UCF203	Expected	3	2.75	3	2.75	2.5
	Attained	2.77	2.54	2.77	2.54	2.31
20UCF204	Expected	2.75	2.5	2.75	2.75	2.5
	Attained	2.62	2.38	2.62	2.62	2.38
20UCF2A2	Expected	2.75	2.25	3	2.75	2.5
	Attained	2.62	2.15	2.86	2.62	2.38
SEMESTER III						
20UCF305	Expected	2.75	3	3	2.5	3
	Attained	2.56	2.79	2.79	2.33	2.79
20UCF307	Expected	2.5	2.5	2.5	2.75	2.5
	Attained	1.49	1.49	1.49	1.64	1.49
20UCF308	Expected	2.75	2.75	2.5	3	2.75
	Attained	2.34	2.34	2.13	2.55	2.34
20UCF3A4	Expected	3	3	2.25	2.75	2.5
	Attained	2.91	2.91	2.18	2.67	2.43


Dr. G. AKILANDESWARI,
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Associate Professor & Head
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SEMESTER IV						
20UCF409	Expected	3	2.75	2.75	2.25	3
	Attained	2.37	2.17	2.17	1.78	2.37
20UCF410	Expected	3	2.5	2.75	2.5	2.75
	Attained	2.08	1.73	1.91	1.73	1.91
20UCF411	Expected	2.75	3	2.5	2.75	3
	Attained	1.54	1.68	1.4	1.54	1.68
20UCF412	Expected	2.5	3	2.5	2.75	2.75
	Attained	1.73	2.08	1.73	1.91	1.91
20UCF4A5	Expected	2.75	3	2.25	3	2.75
	Attained	2.27	2.48	1.86	2.48	2.27
SEMESTER V						
20UCF513	Expected	2.75	2.75	2.5	2.5	2.5
	Attained	2.16	2.16	1.97	1.97	1.97
20UCF514	Expected	2.5	2.5	2.5	2.5	2.25
	Attained	2.01	2.01	2.01	2.01	1.81
20UCF515	Expected	2.75	2.75	2.75	2.75	2.75
	Attained	2.11	2.11	2.11	2.11	2.11
20UCF517	Expected	2.75	2.25	2.5	2.25	2.5
	Attained	2.04	1.67	1.86	1.67	1.86
SEMESTER VI						
20UCF619	Expected	2.75	2.75	3	2.75	2.75
	Attained	2.47	2.47	2.69	2.47	2.47
20UCF620	Expected	2.5	2.5	2.25	2.5	2.5
	Attained	2.06	2.06	1.85	2.06	2.06
20UCF6E3	Expected	2.75	2.5	2.5	2.5	2.5
	Attained	2.28	2.08	2.08	2.08	2.08
20UCF6E5	Expected	2.75	3	2.5	2.5	2.75
	Attained	1.71	1.86	1.55	1.55	1.71


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CALCULATING FINAL PO ATTAINMENT
B.SC COMPUTER SCIENCE 2020 - 2023 BATCH (B SEC)

COURSE CODE	LEVELS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
		PSO1	PSO2	PSO3	PSO4	PSO5					
SEMESTER I											
20UCS101	Expected	2	2.25	2.75	2.5	2.75					
	Attained	2.87	2.15	2.63	2.39	2.63					
20UCS102	Expected	3	3	2.75	2.75	2.75					
	Attained	2.85	2.85	2.61	2.61	2.61					
20UCS1A1	Expected	2.5	2.75	2.75	2.25	2.75					
	Attained	2.42	2.66	2.66	2.18	2.66					
SEMESTER II											
20UCS204	Expected	2.25	2	1.75	2	2					
	Attained	2.15	1.91	1.67	1.91	1.91					
20UCS205	Expected	2.25	2	1.75	2	2					
	Attained	2.15	1.91	1.67	1.91	1.91					
20UCS2A2	Expected	2.5	1.75	2.25	1.75	2.25					
	Attained	2.39	1.67	2.15	1.67	2.15					
SEMESTER III											
20UCS307	Expected	2.25	2.25	1.75	1.5	1.5					
	Attained	1.94	1.94	1.51	1.29	1.29					
20UCS308	Expected	1.5	2	1.5	2.5	1.5					
	Attained	1.33	1.77	1.33	2.22	1.33					
20UCS309	Expected	2.25	2.25	2.25	2.75	2.5					
	Attained	1.7	1.7	1.7	2.08	1.89					
20UCS3A3	Expected	2.5	2.25	2	2	2.25					
	Attained	1.98	1.79	1.59	1.59	1.79					
SEMESTER IV											
20UCS412	Expected	3	3	2.5	3	2.5					
	Attained	2.36	2.36	1.97	2.36	1.97					
20UCS413	Expected	3	2.25	1.75	1.75	2					
	Attained	1.87	1.4	1.09	1.09	1.25					
20UCS414	Expected	2.25	2	2	2	2					
	Attained	1.94	1.72	1.72	1.72	1.72					
20UCS4A4	Expected	1.5	2	1.5	2.5	1.5					
	Attained	1.33	1.77	1.33	2.22	1.33					
SEMESTER V											
20UCS517	Expected	1.75	2	1.5	1.5	2					
	Attained	1.26	1.44	1.08	1.08	1.44					
20UCS518	Expected	2.25	2.25	2.5	1.75	2.5					
	Attained	1.4	1.4	1.55	1.09	1.55					
20UCS519	Expected	1.75	2.25	1.75	1.5	1.5					
	Attained	1.25	1.6	1.25	1.07	1.07					

20UCS5E1	Expected	1.75	2.25	2.5	1.75	1.75					
	Attained	1.11	1.43	1.59	1.11	1.11					
20UCS5E3	Expected	3	2.5	2.5	2.5	2.25					
	Attained	2.36	1.97	1.97	1.97	1.77					
SEMESTER VI											
20UCS622	Expected	2.25	2.25	1.75	1.75	2					
	Attained	1.77	1.77	1.38	1.38	1.57					
20UCS6E4	Expected	3	2.25	1.75	1.75	2					
	Attained	2.67	2	1.56	1.56	1.78					
20UCS6E5	Expected	3	2.25	1.75	1.75	2					
	Attained	2.36	1.77	1.38	1.38	1.57					
20UCS6E7	Expected	2.25	2.25	1.75	1.75	2					
	Attained	1.65	1.65	1.28	1.28	1.47					

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HOD SIGNATURE

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CALCULATING FINAL PO ATTAINMENT
B.SC COMPUTER SCIENCE 2020 - 2023 BATCH (A SEC)

COURSE CODE	LEVELS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10
		PSO1	PSO2	PSO3	PSO4	PSO5					
SEMESTER I											
20UCS101	Expected	2	2.25	2.75	2.5	2.75					
	Attained	1.96	2.21	2.7	2.45	2.7					
20UCS102	Expected	2.5	1	1.25	1.25	2.25					
	Attained	2.02	0.81	1.01	1.01	1.82					
20UCS1A1	Expected	2.5	2.75	2.75	2.25	2.75					
	Attained	2.37	2.6	2.6	2.13	2.6					
SEMESTER II											
20UCS204	Expected	2.75	2.5	2.5	3	3					
	Attained	2.59	2.35	2.35	2.82	2.82					
20UCS205	Expected	3	2.25	1.75	1.75	2					
	Attained	2.36	1.77	1.38	1.38	1.57					
20UCS2A2	Expected	2.5	1.75	2.25	1.75	2.25					
	Attained	2.22	1.56	2.00	1.56	2.00					
SEMESTER III											
20UCS307	Expected	2.25	2.25	1.75	1.5	1.5					
	Attained	1.80	1.80	1.40	1.20	1.20					
20UCS308	Expected	1.75	2.5	2	1.5	1.5					
	Attained	1.64	2.34	1.87	1.4	1.4					
20UCS309	Expected	3	2.25	1.75	1.75	2					
	Attained	2.36	1.77	1.38	1.38	1.57					
20UCS3A3	Expected	2.5	2.25	2	2	2.25					
	Attained	2.22	2	1.77	1.77	2					
SEMESTER IV											
20UCS412	Expected	3	2.25	1.75	1.75	2					
	Attained	2.66	2	1.55	1.55	1.77					
20UCS413	Expected	1.75	1.75	2	2.25	1.5					
	Attained	1.45	1.45	1.66	1.87	1.25					
20UCS414	Expected	2.75	1.75	1.75	2	1.75					
	Attained	2.36	1.77	1.38	1.38	1.57					
20UCS4A4	Expected	1.64	2.34	1.87	1.4	1.4					
	Attained	3	2.25	1.75	1.75	2					
SEMESTER V											
20UCS517	Expected	2.25	1.75	2.25	2	2					
	Attained	1.57	1.77	1.38	1.38	1.57					
20UCS518	Expected	2.8	2.8	3	2.6	2.8					
	Attained	13.07	13.07	14	12.13	13.07					
20UCS519	Expected	1.75	2	1.75	1.5	1.5					
	Attained	1.43	1.64	1.43	1.23	1.23					

20UCS5E1	Expected	1.75	2.25	2.5	1.75	1.75					
	Attained	1.11	1.43	1.59	1.11	1.11					
20UCS5E3	Expected	3	2.5	2.5	2.5	2.25					
	Attained	2.36	1.97	1.97	1.97	1.77					
SEMESTER VI											
20UCS622	Expected	2.25	2.25	1.75	1.75	2					
	Attained	1.86	1.86	1.45	1.45	1.65					
20UCS6E4	Expected	3	2.25	1.75	1.75	2					
	Attained	2.67	2	1.56	1.56	1.78					
20UCS6E5	Expected	3	2.25	1.75	1.75	2					
	Attained	2.36	1.77	1.38	1.38	1.57					
20UCS6E7	Expected	2.25	2.25	1.75	1.75	2					
	Attained	1.65	1.65	1.28	1.28	1.47					


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Faculty name	Dr. D. Uma Maheswari	Designation / Department	Assistant Professor in BCA
Course code	21UBC519	Course name	Java Programming
Program	Bachelor of Computer Applications	Semester	V
Academic year	2023-24	Batch	2021-2024

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Java Evolution - Overview of Java language, Constants, Variables and Data types - Operators and Expressions. Decision Making and Branching - Decision Making and Looping - Classes, Objects and Methods - Arrays, Strings and Vectors.
CO2	Inheritance - Packages: Putting Classes Together-Multithreaded Programming - <i>Managing Errors and Exceptions.</i>
CO3	Applets Programming - Graphics Programming - The Graphics Class - Lines and Rectangles - Circles and Ellipses - Drawing Arcs - Drawing Polygons.
CO4	A Tour of Swing: JApplet - Icons and Labels - Text Fields - Buttons - The JButton Class - Check Boxes - Radio Button - Combo Boxes - TabbedPane - Scroll Panes - Tree - JMenus.
CO5	Servlet Overview and Architecture: Movement to Server Side Java - What is Java Servlet - Practical Applications for Java Servlet - <i>Java Servlet Alternatives - Reasons to use Java Servlets - Java Servlet Architecture.</i>


Dr. K. HARIDAS, MCA, M.P.S.L., Ph.D.

Assistant Professor & Head

Department of Computer Applications

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Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No.or Reg. No.	Name of Student	[To what extent do you feel you have learnt and will be able to do the following (which are the COs of the course)]					Signature of student (optional)
			Poor		Average		Good	
			1	3	5			
			CO1	CO2	CO3	CO4	CO5	
1	21-BC-61	ABHISHEK S	5	5	5	5	5	Abhishek S
2	21-BC-62	ARUNKUMAR S	5	5	5	5	5	Arunkumar S
3	21-BC-63	ASHOKKUMAR S	5	5	5	5	5	Ashokkumar S
4	21-BC-64	BALAJI N	5	5	5	5	5	Balaji N
5	21-BC-65	BHARATHAMUTHAN N	5	5	5	5	5	Bharathamuthan N
6	21-BC-66	CHINRAJ G	5	5	5	5	5	Chinraj G
7	21-BC-67	DEEPAK BASKAR N	5	5	5	5	5	Deepak Baskar N
8	21-BC-68	ENBASEKAR P	5	5	5	5	5	Enbasekar P
9	21-BC-69	FAROSE MANSOOR M S	5	5	5	5	5	Farose Mansoor M S
10	21-BC-70	GOKUL K	5	5	5	5	5	Gokul K
11	21-BC-71	JANAGAR C	5	5	5	5	5	Janagar C
12	21-BC-72	JAYASANKAR K	5	5	5	5	5	Jayasankar K
13	21-BC-73	KARTHI KEYAN R	5	5	5	5	5	Karthi Keyan R
14	21-BC-74	KISHORE P	5	5	5	5	5	Kishore P
15	21-BC-75	KORESH L	5	5	5	5	5	Koresh L
16	21-BC-76	MADHUYOGESH B	5	5	5	5	5	Madhuyogesh B
17	21-BC-77	MANOJKUMAR R	5	5	5	5	5	Manojkumar R
18	21-BC-78	MITHUN S	5	5	5	5	5	Mithun S
19	21-BC-79	MOHAMMED YASIN M	5	5	5	5	5	Mohammed Yasin M
20	21-BC-81	PRADOSH KUMAR A	5	5	5	5	5	Pradosh Kumar A
21	21-BC-82	PRASATH K	5	5	5	5	5	Prasath K
22	21-BC-83	PRATHAP K K	5	5	5	5	5	Prathap K K
23	21-BC-84	REJOICE MELECH S	5	5	5	5	5	Rejoice Melech S
24	21-BC-85	SACHIDHAN M	5	5	5	5	5	Sachidhan M
25	21-BC-86	SAMUTHIRAKANI G	5	5	5	5	5	Samuthirakani G
26	21-BC-87	SANJEEV KUMAR T	5	5	5	5	5	Sanjeev Kumar T
27	21-BC-89	SANTHOSH KAMATCHI M	5	5	5	5	5	Santhosh Kamatchi M
28	21-BC-90	SARANKUMAR M	5	5	5	5	5	Sarankumar M
29	21-BC-91	SATHISHKUMAR A	5	5	5	5	5	Sathishkumar A
30	21-BC-92	SUDHARSHAN S	5	5	5	5	5	Sudharshan S
31	21-BC-93	VARATHARAJ E	5	5	5	5	5	Varatharaj E
32	21-BC-94	VETHURAM A	5	5	5	5	5	Vethuram A
33	21-BC-95	VIJAY P E	5	5	5	5	5	Vijay P E
34	21-BC-96	VISHNU A	5	5	5	5	5	Vishnu A
35	21-BC-97	YOGESH N	5	5	5	5	5	Yogesh N
36	21-BC-99	ARCHANAPRIYADHARSHINI B	5	5	5	5	5	Archana Priyadharshini B
37	21-BC-100	DIVYASHREE S	5	5	5	5	5	Divyashree S
38	21-BC-101	GAYATHRI T	5	5	5	5	5	Gayathri T
39	21-BC-102	JACQUELINE NESIA J	5	5	5	5	5	Jacqueline Nesia J
40	21-BC-103	KALEESHWARI M	5	5	5	5	5	Kaleeswari M
41	21-BC-104	KARTHIKA D	5	5	5	5	5	Karthika D

42	21-BC-105	KAVIYA DHARSHINI S	5	5	5	5	5	Kaviya
43	21-BC-106	KOWSALYA P	5	5	5	5	3	Kowsalya
44	21-BC-108	MOHANAPRIYA S	5	5	5	5	5	Mohanapriya
45	21-BC-109	NIMMYNIKITHA R	5	5	5	5	5	Nimmynikitha
46	21-BC-110	NIVETHA M	5	5	5	5	5	Nivetha
47	21-BC-111	NITHARSANA P	5	5	5	5	5	Nitharsana
48	21-BC-112	PRAGATHEESWARI B	5	5	3	5	5	Pragatheeswari
49	21-BC-113	RAGAVI V	5	5	5	5	5	Ragavi
50	21-BC-114	RAMYA S	5	5	5	5	5	Ramya
51	21-BC-115	SABAREESHWARI S	5	5	5	5	1	Sabareeswari
52	21-BC-116	SIVAMALINI A	5	5	5	5	5	Sivamalani
53	21-BC-117	SNEHASHRI M	5	5	5	5	5	Snehashri
54	21-BC-118	SUBHA K	5	5	5	5	5	Subha
55	21-BC-119	THARANIKA K	5	5	5	3	5	Tharanika
56	21-BC-120	VUAYANEMITHA V	5	5	5	5	5	Vuayanemitha
57	21-BC-121	VOOVIYA M	5	5	3	5	5	Vooviya
58	19-BC-108	PREETHI						Preethi
		Student 58 (a) Total number of students in the batch)						
	Count of survey scale values	1	1	1	1	1	1	
		3	2	2	2	2	2	
		5	55	55	55	55	55	
	Target value of CO		Only survey scale values of 3 and 5 will be considered.					
(b)	(c) No of survey scales values of 3 and 5		57	57	57	57	57	
	CO attainment value in % = (b) / (a)		98.1%	98.1%	98.1%	98.1%	98.1%	

Faculty name	Dr. D. UmaMaheswari	Designation / Department	Assistant Professor in BCA
Course code	21UBCSE3	Course name	Data Science
Program	Bachelor of Computer Applications	Semester	V
Academic year	2023-24	Batch	2021-2024

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Python for Data Science: Why Python – IDEs for Python Programming – Packages – Top 10 DS Packages in Python – Modules in Python – Introduction to R – Commands – Objects – Variables – Data Visualization – Basic Graphs using R.
CO2	Data Wrangling – Definition - Analytic Process – Cross Industry Standard for Data Mining – Sources of Data – The Data Science Process – Process Flow – The Data Scientist Role – Data Wrangling Steps.
CO3	Natural Language Processing – Statistical Language Models – Unigram Model – Bigram Model – N-gram Models—Logistic Regression – Neural Network – DNN - NTypes of Neural Network.
CO4	Machine Learning – What is Machine Learning? – Components of Machine Learning – Types – ML Algorithms – Comparison of K-Means and DB Scan - Deep Learning – What is Deep Learning? – Applications of Deep Learning.
CO5	Data Preprocessing – Why Data Preprocessing? – Data Transformations – Identifying and Handling the missing values - Encoding the Categorical Data – Ways to Encode- Normalization vs Standardization- - Case studies on Machine Learning Algorithms – Outliers.

41	21-BC-82	PRASATH K	5	5	5	5	5	5	Prasath
42	21-BC-84	REJOICE MELECH S	5	5	5	5	5	5	Rejoice Melech S
43	21-BC-86	SAMUTHIRAKANI G	5	5	5	5	5	5	Samuthirakani G
44	21-BC-89	SANTHOSH KAMATCHI M	5	5	5	5	5	3	Santhosh Kamatchi M
45	21-BC-91	SATHISHKUMAR A	5	3	5	5	5	5	Sathishkumar A
46	21-BC-93	VARATHARAJ E	5	5	5	5	5	5	Varatharaj E
47	21-BC-95	VIJAY P E	5	5	5	5	5	5	Vijay P E
48	21-BC-97	YOGESH N	5	5	3	5	5	5	Yogesh N
49	21-BC-100	DIVYASHREE S	5	5	5	5	5	5	Divyashree S
50	21-BC-102	JACQUELINE NESIA J	5	5	5	5	5	5	Jacqueline Nesia J
51	21-BC-104	KARTHIKA D	5	5	5	5	5	5	Karthika D
52	21-BC-106	KOWSALYA P	5	5	5	5	5	5	Kowsalya P
53	21-BC-109	NIMMYNIKITHA R	5	5	5	1	5	5	Nimmynikitha R
54	21-BC-111	NITHARSANA P	3	5	5	5	5	5	Nitharsana P
55	21-BC-113	RAGAVI V	5	5	5	5	5	5	Ragavi V
56	21-BC-115	SABAREESHWARI S	5	5	3	5	5	5	Sabareeswari S
57	21-BC-117	SNEHASHRI M	5	5	5	5	5	5	Snehashri M
58	21-BC-119	THARANIKA K	5	5	5	5	5	5	Tharanika K
59	21-BC-121	VOOVIYA M	5	5	5	5	5	1	Vooviya M
		Student 59 (a) Total number of students in the batch)							
	Count of survey scale values	1	1	1	1	1			
		3	2	2	3	1	2		
		5	56	56	55	57	56		
	Target value of CO		Only survey scale values of 3 and 5 will be considered.						
(b)	(c) No of survey scales values of 3 and 5		58	58	58	58	58		
	CO attainment value in % = (b) / (a)		98%	98%	98%	98%	98%		

Faculty name	Dr. R.Malathi Ravindran	Designation / Department	Associate Professor of BCA
Course code	22UBC307	Course name	Relational Database Management System and ORACLE
Program	Bachelor of Computer Applications	Semester	III
Academic year	2023-24	Batch	2022-2025

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Introduction - Database System - Applications - Database System Vs File Systems - View Of Data- Data Models - Database Language - Database Users And Administrators –Transactions Management –Database System Structure –Application Architecture. Entity–Relationship Model - Basic Concepts – Constraints Keys - Design Issues – ER Diagram – Weak Entity Sets – Extended ER Features - Design of ER Database Scheme -Reduction of ER Scheme to Tables - The Unified Modelling Language (UML).
CO2	Relationship Model - Structure of Relational Database – The Relational Algebra –Extended Relational Algebra Operation - Modification of Database – Views - The Tuple Relational Calculus - The Domain Relational Calculus.
CO3	Integrity and Security – Domain Constraints – Referential Integrity – Assertion – Triggers –Security and Authentication – Authorisation in SQL- Encryption and Authentication. Relational Database Design – First Normal Form – Pitfalls in Relational Database Design – Functional Dependencies – Decomposition – Desirable Properties of Decomposition – BCNF (Boyce Code Normal Form) - Third Normal Form – Fourth Normal Form – More Normal Form.
CO4	Oracle: Introduction – Codd’s Rule – Tools of Oracle - Introduction of SQL – Benefits of SQL - Data Types – DDL – DML - TCL - Data Constraints - ORACLE SQL Functions - Date, Number, Miscellaneous, Conversions, Character Functions - Group Functions – SQL Operators: – Arithmetic, Comparison and Logical Operators – Set Operators - Joins – Sub Queries – Views.
CO5	PL/SQL : Introduction –Advantages of PL/SQL – Architecture of PL/SQL – Introduction To PL/SQL Block - Data Types – Control Structures - Concepts of Error Handling – Cursor - Procedure - Functions – Triggers - Types of Triggers. SQL * Forms – Basic Concepts – Components of ORACLE FORM – SQL * - Forms System Variables – Creating a Form - Generating and Running a Form – Reports.

Course End Survey with Provision for Consolidation of Survey Results:

30	22-BC-30	VISHNU G	5	5	5	5	5	5	G. Vishnu
31	22-BC-31	ABIRAMI P	5	5	5	5	5	5	P. Abirami
32	22-BC-32	ARUTHRA S	5	5	5	5	5	5	S. Aruthra
33	22-BC-33	BHAVADHARANI B	5	5	5	5	5	5	B. Bhavadharani
34	22-BC-34	DHANYA G	5	5	5	5	5	5	G. Dhanya
35	22-BC-35	DHARSANA E	5	5	5	5	5	5	Dharsana E
36	22-BC-36	DIVYA SREE N	5	5	5	5	5	5	
37	22-BC-37	ELAMATHI.P	5	5	1	5	5	5	P. Elamathi
38	22-BC-38	FASHIKA AMRIN.AJ	5	5	5	5	5	5	A.J. Fashika Amrin
39	22-BC-39	FATHIMA F	5	5	5	3	5	5	F. Fathima
40	22-BC-40	HAMEETHA JAINAB M	5	5	5	5	5	1	M. Hameetha Jainab
41	22-BC-41	HEMA M	5	5	5	5	5	5	M. Hema
42	22-BC-42	HEMA LEKHA S S	5	1	5	5	5	5	S.S. Hema lekha
43	22-BC-43	KABILA S	5	5	5	5	5	5	Kabila S
44	22-BC-44	KEERTHANA G	3	5	5	5	5	5	G. Keerthana
45	22-BC-45	KEERTHIKA M	5	5	5	5	5	5	M. Keerthika
46	22-BC-46	MANJULADEVI S	5	5	5	5	5	5	S. Manjuladevi
47	22-BC-47	NIRJA V	5	5	5	5	5	5	V. Nirja
48	22-BC-48	PAVITHRA .K.P	5	5	5	5	5	5	K.P. Pavithra
49	22-BC-49	ROSEMARY J	5	5	5	5	5	5	Rosemary J
50	22-BC-50	RUKSHANA BANU.N	1	5	5	5	5	5	Rukshana Banu N
51	22-BC-51	SANJANA R	5	5	5	5	5	5	Sanjana R
52	22-BC-52	SELVANAYAGAM N	5	5	5	5	5	5	N. Selvanayagam
53	22-BC-53	SHRIYA L	5	3	3	1	5	5	L. Shriya
54	22-BC-54	SINDHU S	5	5	5	5	5	5	Sindhu S
55	22-BC-55	SURYA T	5	5	5	5	5	5	T. Surya
56	22-BC-56	TAMIL SELVI.M	5	5	5	5	5	5	M. Tamil selvi
57	22-BC-57	THIRISHA.B	5	1	5	5	3	5	Thirisha B
58	22-BC-58	YUTHIHA SHREE K.S	5	5	5	5	5	5	K.S. Yuthiha shree
59	22-BC-59	YUVASANGARI G	5	5	5	5	5	5	G. Yuvasangari
60	22-BC-60	VAISHNAVI N	5	5	5	5	5	5	Vaishnavi N

Faculty Name	Dr. R.Malathi Ravindran	Designation / Department	Associate Professor of BCA
Course Code	23UBCIA1	Course name	MATHEMATICS - I : Computer Oriented Numerical and Statistical Methods
Program	Bachelor of Computer Applications	Semester	I
Academic Year	2023-24	Batch	2023-2026

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Introduction - Bisection Method – Method of Successive Approximations or the Iteration Method- Method of False Position- Newton Raphson Method –Horner’s Method
CO2	System of Linear Algebraic Equations- Gauss Elimination- Inverse of Matrix using Gauss Elimination- Gauss Jordan – Triangularization-Gauss Jacobi and Gauss Seidal Method.
CO3	Interpolation and Approximation – Newton, Lagrange’s Method- Numerical Differentiation and Integration- Method’s Based on Interpolation-Trapezoidal Rule- <i>Simpson’s 1/3 and 3/8th rule.</i>
CO4	Correlation Analysis-Meaning-Types-Degrees of Correlation-Scatter Diagram- Correlation Graph-Karl Pearson’s Coefficient of Correlation- Rank Correlation- Coefficient of Concurrent Deviations-Methods of Least Squares.
CO5	Regression Analysis-Meaning- <i>Types of Regression</i> –Regression Equations- Regression Equations from Mean-Regression Coefficients-Properties of Regression Coefficients- Correlation and Regression, a Comparison.

Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No.or Reg. No.	Name of Student	[To what extent do you feel you have learnt and will be able to do the following (which are the COs of the course)] Poor Average Good	Signature of student (optional)
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			1 3 5					
			CO1	CO2	CO3	CO4	CO5	
1	23-BC-01	AATHINARAYANAN S	5	5	5	3	5	Aathin
2	23-BC-02	ADIPATHY SANJAY SHIVAJI U	5	5	5	5	5	Adi
3	23-BC-03	ARUNACHALAM S	5	5	5	5	5	S. Arunachalam
4	23-BC-04	DARSHITH V	1	5	5	5	5	Darshith V
5	23-BC-05	DHANUSHKUMAR R	5	5	5	5	5	R. Dhany
6	23-BC-06	DHARSAN M	5	5	5	5	1	Dharsan M
7	23-BC-07	HARIHARAN J	5	5	5	5	5	Hariharan J
8	23-BC-08	HARSHAVARDHAN LJ	5	5	5	5	5	Harshavardhan LJ
9	23-BC-09	KARTHIK V	3	5	5	5	5	Karthik V
10	23-BC-10	KARVENDHAN V	5	1	5	5	5	Karvendhan V
11	23-BC-11	MANI KANDAN S	5	5	5	5	5	Mani Kandan S
12	23-BC-12	MANOJ V	5	5	5	5	5	Manoj V
13	23-BC-13	MOHAMED SHABEEB A M	5	5	5	5	5	Mohamed Shabeeb A M
14	23-BC-14	MOHAMMED ADHIL A	5	5	5	5	3	Mohammed Adhil A
15	23-BC-15	PARTHIVSANJAI R	5	5	5	5	5	Parthivsanjai R
16	23-BC-16	PRANEASH RAM A S	5	5	5	5	5	Praneash Ram A S
17	23-BC-17	SANTHOSH S	5	3	5	1	5	Santhosh S
18	23-BC-18	SARAVANAKUMAR S	5	5	5	5	5	Saravanakumar S
19	23-BC-19	SRI MONISH T	5	5	5	5	5	Sri Monish T
20	23-BC-20	SRIRAM S	1	5	5	5	5	Sriram S
21	23-BC-21	SYED SULTHAN M	5	5	5	5	5	Syed Sulthan M
22	23-BC-22	TAMILCHALVAN A M	5	5	5	5	5	Tamilchalvan A M
23	23-BC-23	THIRUVENGADARAMANAN A	5	5	5	5	5	Thiruvengadaramanan A
24	23-BC-24	ABINAYA N	5	5	5	5	5	Abinaya N
25	23-BC-25	AKALYA S	5	5	1	5	5	Akalya S
26	23-BC-26	ANUSRI S	5	5	5	5	5	Anusri S
27	23-BC-27	ARUNTHATHI S	5	5	5	5	5	Arunthathi S
28	23-BC-28	DHAKSHITAA S K	5	5	5	5	5	Dhakshithaa S K
29	23-BC-29	DHARINI S	5	5	3	5	1	Dharini S
30	23-BC-30	DHARSHANA E	5	5	5	5	5	Dharshana E
31	23-BC-31	DHEECHITHAVISALINI K	5	5	5	5	5	Dheechithavisalini K
32	23-BC-32	GAYATRI P G	5	5	5	5	5	Gayatri P G
33	23-BC-33	HEMALATHA A	5	5	5	5	5	Hemalatha A
34	23-BC-34	INDRA P. S	5	5	5	5	5	Indra P. S

35	23-BC-35	ISWARYA S	1	5	3	5	5	S. Iswarya
36	23-BC-36	KAMALIGA SRI E	5	5	5	5	5	Kamaliga Sri
37	23-BC-37	KAVISRI C	5	5	5	5	1	Kavisri C
38	23-BC-38	KAVIYADHARSHINI K	5	5	5	5	5	K. Kaviyadharshini
39	23-BC-39	KAVYA H	5	5	5	5	5	Kavya H
40	23-BC-40	KIRUBA DEVI M	5	5	5	5	5	K. Kiruba Devi
41	23-BC-41	MADINA S	5	5	1	5	5	M. Madina S
42	23-BC-42	MAHALAKSHMI T	5	5	5	5	5	T. Mahalakshmi
43	23-BC-43	MAHESHWARI G	5	5	5	5	5	Maheshwari G
44	23-BC-44	MOHANAPRIYA B	5	5	5	5	5	Mohanapriya B
45	23-BC-45	NAVEENA E	5	1	5	5	5	E. Naveena
46	23-BC-46	PAVISRI B	5	5	5	5	5	Pavisri B
47	23-BC-47	PRIYANGA P	5	5	5	5	5	Priyanga P
48	23-BC-48	PUNITHA S	5	5	5	3	5	Punitha S
49	23-BC-49	SALIHA S	5	5	5	5	5	S. Salihah
50	23-BC-50	SATHIYAPRIYA J	5	5	5	5	5	J. Sathiyapriya
51	23-BC-51	SOWBARNIKA N	5	5	5	5	5	N. Sowbarnika
52	23-BC-52	SRIVANI S	5	5	5	5	5	S. Srivani
53	23-BC-53	SUPRIYA A	5	5	5	5	3	Supriya A
54	23-BC-54	SWEETY EMIMA J	5	5	5	5	5	J. Sweety Emima
55	23-BC-55	SWETHA B	5	5	5	5	5	B. Swetha
56	23-BC-56	THARUNIKA R	5	5	1	5	5	R. Tharunika
57	23-BC-57	VARSHINI S	5	5	5	5	5	S. Varshini
58	23-BC-58	YASHWINI V S	5	5	5	1	5	V. S. Yashwini
59	23-BC-59	YOGESWARI G	5	5	5	5	5	G. Yogeswari
60	23-BC-60	ZUNEIRA H	5	5	5	5	1	H. Zuneira
			5					
			1					
		Student 60 (a) Total number of students in the batch)						
	Count of	1	3	2	3	2	4	
	survey	3	1	2	2	2	2	
	scale	5	56	57	55	56	54	

	Target value of CO	Only survey scale values of 3 and 5 will be considered.					
(b)	(c) No of survey scales values of 3 and 5	57	58	57	58	56	
	CO attainment value in % = (b) / (a)	95	97	95	97	93	

Faculty name	S.Dilip Kumar	Designation / Department	Assistant Professor in BCA
Course code	22UBC308	Course name	Core VI: Operating System & Linux
Program	Bachelor of Computer Applications	Semester	III
Academic year	2022-23	Batch	2022-2025

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Introduction to OS – Early History – Hardware: Interrupts and Polling, Buffering, Storage Protection, Online – Offline Operation-Cycle Stealing- Processing-Storage Hierarchy- Reduced Instruction Set Computing (RISC).Semaphores – Process Synchronization with Semaphores – Counting Semaphores. Storage Management: Real Storage – Storage Organization – Storage Management Storage Hierarchy – Swapping – Virtual Storage – Basic Concepts.
CO2	PAGING: Basic Concepts – Segmentation. Dead Lock: Examples – Dead Lock Preventions – Dead Lock Avoidance – Bankers Algorithms Only – Dead Lock Detection – Dead Lock Recovery. Processor Management: Job and Processor Scheduling – Introduction – Scheduling Levels – Scheduling Objectives – Preemptive Vs Non preemptive Scheduling – Priorities – FIFO Scheduling – Round Robin Scheduling – Quantum Size Shortest Job First Scheduling – Shortest Remaining Time Scheduling – Highest Response Ratio Next Scheduling.
CO3	Auxiliary Storage Management: Disk Performance Optimization – Why Disk – Scheduling is Necessary – Desirable Characteristics of Disk Scheduling Policies – Seek Optimization – Disk Caching – RAM Disks. FILE Database System: Introduction – The File System – File System Functions – Blocking and Buffering – File Organization – Allocating and Freeing Space – File Description – Access Control Matrix – Access Control by User Classes – Backup Recovery.
CO4	Linux: Introduction – File structure of Linux – Directory hierarchy – Environmental variables –file access permissions –utility commands- files – print – login details. VI-editors - Three modes. File splitting – pipes and filters – paginating files – head – tail – grep – process termination – timing process.
CO5	Shell Programming: Creation and execution – command line arguments – logical operations – condition statements – System administration – Booting and shutting down – super user status – Disk management – security – user services – mount – unmount- Installing and managing printers.

Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No.or Reg. No.	Name of Student	[To what extent do you feel you have learnt and will be able to do the following (which are the COs of the course)]					Signature of student (optional)
			Poor	Average		Good		
			1	3		5		
			CO1	CO2	CO3	CO4	CO5	
1	22-BC-61	AADITHYA A	5	5	5	5	5	Aadithya A
2	22-BC-62	ABDUL KALAM S	5	5	5	5	5	Abdul Kalam S
3	22-BC-63	ABHISHEK G V	5	5	5	5	5	Abhishek G V
4	22-BC-64	ARAVINTH A	5	5	5	5	5	Aravinth A
5	22-BC-65	ARUL PRASATH D	5	5	5	5	5	Arul Prasath D
6	22-BC-66	ASWIN G	5	5	5	5	5	Aswin G
7	22-BC-67	ASWIN GURU S	5	5	5	5	5	Aswin Guru S
8	22-BC-68	BOOPATHI P	5	5	5	5	5	Boopathi P
9	22-BC-69	DHARUNKUMAR E	5	5	5	5	5	Dharunkumar E
10	22-BC-70	GOKUL G	5	5	5	5	5	Gokul G
11	22-BC-71	HARISH R	5	5	5	5	5	Harish R
12	22-BC-72	HARSHAA A D	5	5	5	5	5	Harshaa A D
13	22-BC-73	IRFAAN A N	5	5	5	5	5	Irfaan A N
14	22-BC-74	JEEVA K	5	5	5	5	5	Jeeva K
15	22-BC-75	LOGESHWARAN E	5	5	5	5	5	Logeshwaran E
16	22-BC-76	MADHAN S	5	5	5	5	3	Madhan S
17	22-BC-77	MANIBHARATHI S	5	5	5	5	5	Manibharathi S
18	22-BC-78	MANOJ T	5	5	5	5	5	Manoj T
19	22-BC-79	MITHUN M M	5	5	5	5	5	Mithun M M
20	22-BC-80	MOHAMED SHARIFF M	5	5	5	5	5	Mohamed Shariff M
21	22-BC-81	MOHAMED SIDDIQ A	5	5	5	5	5	Mohamed Siddiq A
22	22-BC-82	MOHAN KUMAR.M	5	5	5	5	5	Mohan Kumar.M
23	22-BC-83	MOHAN PRASATH A	5	5	5	5	5	Mohan Prasath A
24	22-BC-84	NITHEESH KUMAR S	5	5	5	5	5	Nitheesh Kumar S
25	22-BC-85	PARVA THARA DARSHAN.P	5	5	5	5	5	Parva Thara Darshan.P
26	22-BC-86	RAGUL SINGH M	5	5	5	5	5	Ragul Singh M

27	22-BC-87	RAJPRATHAP M	5	5	5	5	5	Rajprathap
28	22-BC-88	RAMESH A	5	5	5	5	5	Ramesh
29	22-BC-89	SAKTHISURYA R S	5	5	5	5	5	Sakthi
30	22-BC-90	SHIYAM SUNDAR S	5	5	5	5	5	Shiyam
31	22-BC-91	SUDHARSAN K	3	5	5	5	5	Sudharsan
32	22-BC-92	VIGNESH M	5	5	5	5	5	Vignesh
33	22-BC-93	VIJAYAKRISHNA K	5	5	5	5	5	Vijaya
34	22-BC-94	VINOTHE	5	5	5	5	5	Vinath
35	22-BC-95	ABHINAYA J	5	5	5	5	5	Abhinaya
36	22-BC-96	AGALYA G I	5	5	5	5	5	Agalya
37	22-BC-97	ANAMITHRAS	5	5	5	5	5	Anamithra
38	22-BC-98	ARTHI V	5	5	5	5	5	Arthi
39	22-BC-99	BHUVANESHWARI N	5	5	5	5	5	Bhuvaneshwari
40	22-BC-100	DARSHANI S	5	5	5	5	5	Darshani
41	22-BC-101	DEEPA R	5	5	5	5	5	Deepa
42	22-BC-102	DEVASENA S	5	3	5	5	5	Devasena
43	22-BC-103	DURGA DEVI P	5	1	5	5	5	Durga
44	22-BC-104	HARINI K	5	5	5	5	5	Harini
45	22-BC-105	HARIVARSHINI S	3	5	5	5	5	Harivarshini
46	22-BC-106	KEERTHANA R	5	5	5	1	5	Keerthana
47	22-BC-107	MANJU C	5	5	5	5	5	Manju
48	22-BC-108	NANDHINI M	5	5	5	5	5	Nandhini
49	22-BC-109	NATHIESHA N	5	5	5	5	5	Nathiesha
50	22-BC-110	NAYANA R	5	5	5	5	5	Nayana
51	22-BC-111	NITHIYA SHREE V	5	5	5	5	5	Nithiya
52	22-BC-112	PARGANA M	5	5	5	5	5	Pargana
53	22-BC-113	PERIYA NAYAKI M	5	5	5	5	5	Periya
54	22-BC-114	PRATEKSHA P V	5	5	3	3	1	Prateksha
55	22-BC-115	SREEJA E	5	5	5	5	5	Sreeja
56	22-BC-116	VARSHA C R M	5	5	5	5	5	Varsha
57	22-BC-117	VARSHINI D	5	5	5	5	5	Varshini
58	22-BC-118	VIDHYA SHREE B	5	5	5	5	5	Vidhya
59	22-BC-119	YUVASRI P	5	5	5	5	5	Yuvasri
60	22-BC-120	POOVIZHIL K	5	3	5	5	5	Poovizhi

61	22-BC-121	SATHIYA.A	5	5	5	5	5	5	60.4
		Student 61 (a) Total number of students in the batch)							
	Count of survey scale values	1	1	2	1	1	1	1	
		3	2	1	1	2	1		
		5	58	58	59	58	59		
	Target value of CO		Only survey scale values of 3 and 5 will be considered.						
(b)	(c) No of survey scales values of 3 and 5		60	59	60	60	60		
	CO attainment value in % = (b) / (a)		98.3	96.7	98.3	98.3	98.3		

Faculty name	S.Dilip Kumar	Designation / Department	Assistant Professor in BCA
Course code	23UBC102	Course name	Data Structures
Program	Bachelor of Computer Applications	Semester	I
Academic year	2022-23	Batch	2023-2026

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Introduction- Linear data structures: Arrays-Representation of Array-Operations of Array-Stacks - Queues. Linked Lists-Types of Linked Lists-Linked List Operations- Linked Stacks and Queues.
CO2	Trees - Definitions and Concepts- Binary Trees - Representations-Operations- Traversals: In order-Pre order-Post order- Threaded Binary Trees - Binary Search Trees.
CO3	GRAPHS- Terminology -Representations: Adjacency Matrix - Adjacency Lists - Adjacency Multi lists -Depth First Search-Breadth First Search-Shortest paths Dijkstra algorithm-Minimum spanning Tree- Kruskal's Algorithm & Prim's Algorithm.
CO4	Basic Steps-Greedy method- The traveling salesperson problem- Knapsack problem- Job Scheduling Problem- Backtracking- Divide and conquer algorithms-The 8 Queen s problem- Sum of subsets.
CO5	Sorting Techniques: Insertion sort - Merge sort - Quick sort - Heap sort. Searching-Searching Techniques: Linear search -Binary Search.

Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No.or Reg. No.	Name of Student	[To what extent do you feel you have learnt and will be able to do the following (which are the COs of the course)]					Signature of student (optional)
			Poor	Average	Good			
			1	3	5	CO1	CO2	
1	23-BC-61	ABDUL KALAM ASHATH.M.S	5	5	5	5	5	ABdul Kalam.m.s
2	23-BC-62	ADHARSH S	5	5	5	5	5	Adharsh S
3	23-BC-63	ARYA U	5	5	5	5	5	Arya.U.
4	23-BC-64	BHARANIKUMAR.J	5	5	5	5	5	Bharanikumar.J

5	23-BC-65	DHARUN KUMAR.R	5	5	5	5	5	Dharun Kumar
6	23-BC-66	DURGAI PRAKASH.K	5	5	5	5	5	Durgai Prakash.K
7	23-BC-67	GURUSARAN.L	5	5	5	5	5	Gurusaran.L
8	23-BC-68	HARIPRASATH.D	1	5	3	5	5	Hariprasath.D
9	23-BC-69	JEYASURIYA K	5	5	5	5	5	Jeyasuriya.K
10	23-BC-70	JOSON.C	5	5	5	5	5	Joson.C
11	23-BC-71	KAVIN.S	5	5	5	5	5	Kavin.S
12	23-BC-72	KAVIPRASANTH.S	3	5	5	5	5	Kaviprasanth.S
13	23-BC-73	MOHAMMED UVAISE.A	5	5	5	5	5	Mohammed Uvaise.A
14	23-BC-74	MOHAN BABU.A	5	5	5	5	5	Mohan Babu.A
15	23-BC-75	NIRUBHAN.P	5	5	5	5	5	Nirubhan.P
16	23-BC-76	PRAKASH RAJ P	5	5	5	5	5	Prakash Raj P
17	23-BC-77	ROHIN SARATH.M	5	1	5	5	5	Rohin Sarath.M
18	23-BC-78	SANJAY C	5	5	5	5	5	Sanjay C
19	23-BC-79	SARAVANAN.T	5	5	5	5	5	Saravanan.T
20	23-BC-80	SATHISH D	5	5	5	5	5	Sathish.D
21	23-BC-81	SREERAM.K	5	5	5	5	5	Sreeram.K
22	23-BC-82	SRI VISHNU.M	5	5	5	5	5	Sri Vishnu.M
23	23-BC-83	SUDHARSAN.M	5	5	5	5	5	Sudharsan.M
24	23-BC-84	VIGNESH.S	5	5	5	5	5	Vignesh.S
25	23-BC-85	VONTHKUMAR.V	5	5	5	5	5	Vonthkumar.V
26	23-BC-86	ARUNA DEVI P	5	3	1	5	5	Aruna Devi P
27	23-BC-87	ATCHAYA S	5	5	5	5	5	Atchaya S
28	23-BC-88	DHARSHANA C	5	5	5	5	5	Dharshana C
29	23-BC-89	DHARSINI PRIYA M	5	5	5	5	5	Dharsini Priya M
30	23-BC-90	HARIPRITHA S.D	5	5	5	5	5	Haripritha S.D
31	23-BC-91	INDHU K	5	5	5	5	5	Indhu K
32	23-BC-92	KALPANA M	5	5	5	5	5	Kalpana M
33	23-BC-93	KARNIKA K	5	5	5	5	5	Karnika K
34	23-BC-94	KARTHIKA M	5	5	5	5	5	Karthika M
35	23-BC-95	KAVITHA G	5	5	5	5	5	Kavitha G
36	23-BC-96	KAVIYA M	5	5	5	3	5	Kaviya M
37	23-BC-97	KAVYADHARSHINI D	5	5	5	5	5	Kavyadharshini D
38	23-BC-98	KEERTHIVASUTHA S	5	5	5	5	5	Keertivasutha S

39	23-BC-99	KOWSALYA R	5	5	5	5	5	R. Kowsalya
40	23-BC-100	LAVANYAGOWRI K	5	5	5	5	5	Laranga
41	23-BC-101	MADHU MITHA G	5	5	5	5	5	Madhu Mitha G
42	23-BC-102	MAHALAKSHMI K.R.	5	5	5	5	5	mahalakshmi k.R.
43	23-BC-103	MURUGADHARSHINI M	5	5	5	5	5	Murugan R
44	23-BC-104	NIRANJANA R	5	5	5	5	5	Nithyasri
45	23-BC-105	NITHYASRI S	5	5	5	5	5	S. Nithyasri
46	23-BC-106	RILWANASAFREEN M	5	5	5	5	5	Rilwanah
47	23-BC-107	RITHANYA K	5	5	5	5	5	Rithanya K. A
48	23-BC-108	SARVINI M	5	5	5	5	5	Sarvini M
49	23-BC-109	SNEHA V	5	5	5	5	3	v. Sneha
50	23-BC-110	SOWBARANIKA ANILKUMAR	5	5	5	5	5	sh.k.
51	23-BC-111	SOWMIYA N	5	5	5	5	5	Sowmiya N
52	23-BC-112	SOWNDHARYA J	5	5	5	5	5	Sowndhary J
53	23-BC-113	SRIHARINI V	5	5	5	5	5	Sriharini V
54	23-BC-114	SRIKANISHMA R	5	5	5	1	5	Srikanishma R
55	23-BC-115	SRIMATHI S	5	5	5	5	5	Srimathi S
56	23-BC-116	SUMITHRA V	5	5	5	5	5	Sumithra V
57	23-BC-117	SURYA V	5	5	5	5	5	Surya V
58	23-BC-118	THILODHANA R	5	5	5	5	1	Thiledhana R.
59	23-BC-119	VARSHINI S	5	5	5	5	5	S. Varshi
		Student 59 (a) Total number of students in the batch)						
	Count of survey scale values	1	1	1	1	1		
		3	1	1	1	1	1	
		5	57	57	57	57	57	
	Target value of CO	Only survey scale values of 3 and 5 will be considered.						
(b)	(c) No of survey scales values of 3 and 5	58	58	58	58	58		
	CO attainment value in % = (b) / (a)	98.3	98.3	98.3	98.3	98.3		

Faculty name	Dr. T.Sumadhi	Designation / Department	Assistant Professor in BCA
Course code	21UBC519	Course name	Java Programming
Program	Bachelor of Computer Applications	Semester	V
Academic year	2023-24	Batch	2021-2024

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Java Evolution - Overview of Java language, Constants, Variables and Data types - Operators and Expressions. Decision Making and Branching - Decision Making and Looping - Classes, Objects and Methods - Arrays, Strings and Vectors.
CO2	Inheritance - Packages: Putting Classes Together-Multithreaded Programming - <i>Managing Errors and Exceptions.</i>
CO3	Applets Programming - Graphics Programming - The Graphics Class - Lines and Rectangles - Circles and Ellipses - Drawing Arcs - Drawing Polygons.
CO4	A Tour of Swing: JApplet - Icons and Labels - Text Fields - Buttons - The JButton Class - Check Boxes - Radio Button - Combo Boxes - TabbedPane - Scroll Panes - Tree - JMenus.
CO5	Servlet Overview and Architecture: Movement to Server Side Java - What is Java Servlet - Practical Applications for Java Servlet - Java Servlet Alternatives - Reasons to use Java Servlets - Java Servlet Architecture.

Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No.or Reg. No.	Name of Student	[To what extent do you feel you have learnt and will be able to do the following (which are the COs of the course)]					Signature of student (optional)
			Poor		Average		Good	
			1	3	5	5	5	
			CO1	CO2	CO3	CO4	CO5	
1	21-BC-01	ABDUL RAJAK J	5	5	5	5	5	
2	21-BC-02	ANBU RATHINAM S	5	5	5	5	5	
3	21-BC-03	ASHOKKUMAR M	5	5	5	5	5	
4	21-BC-04	BALAJI K	5	5	5	5	5	
5	21-BC-05	BARANITHARAN D	5	5	5	5	5	
6	21-BC-06	CHANDHANABHARATHI P	5	5	5	5	5	
7	21-BC-07	DINESH S	5	5	5	5	5	
8	21-BC-08	EASWARAN T	5	5	5	5	5	
9	21-BC-09	GOKUL C	5	5	5	5	5	
10	21-BC-10	GOKULAKRISHNAN V	5	5	5	5	5	
11	21-BC-11	GOKULNATH B	5	5	5	5	5	
12	21-BC-12	GOWTHAM M	5	5	5	5	3	
13	21-BC-13	GUNASEKARAN N	5	5	5	5	5	
14	21-BC-14	JEBAKAR A	5	5	5	5	5	
15	21-BC-15	JEEVANANTHAM G	5	5	5	5	5	
16	21-BC-16	JOHN SAMUEL N	5	5	5	5	5	
17	21-BC-17	KANNAN N	5	5	5	5	5	
18	21-BC-18	MANDRAMOORTHY S	5	5	5	5	5	
19	21-BC-19	MOHAMMED RIYAZ M	5	5	5	5	5	
20	21-BC-20	MURUGA PRAKASH M	5	5	5	5	5	
21	21-BC-21	NARENDHIRA PRASTH K	5	5	5	5	5	
22	21-BC-22	NAVIN PRASATH N	5	5	5	5	5	
23	21-BC-23	PRANESH G	5	5	5	5	5	
24	21-BC-24	PRAVEEN RAJ S	5	5	5	5	5	
25	21-BC-25	RAJAMANICKAM P	5	5	5	5	5	
26	21-BC-26	ROHITH KUMAR J	5	5	5	5	5	
27	21-BC-27	ROSHAN ZAMEER M	5	5	5	5	5	
28	21-BC-28	SANJAI PRABU G S	5	5	5	5	5	
29	21-BC-29	SARAN G	5	5	5	5	5	
30	21-BC-30	SATHISHKUMAR S A	5	5	5	5	5	
31	21-BC-31	SIVAKUMAR K	5	5	5	5	5	
32	21-BC-32	SREE HEMANTH BABU K	5	5	5	5	5	
33	21-BC-33	SUDHARSON S	5	5	5	5	5	
34	21-BC-34	THARANISH NITHIN.P	5	5	5	5	5	
35	21-BC-35	UDHAYARAJ K	5	5	5	5	5	
36	21-BC-36	VELMURUGAN N	5	5	5	5	5	
37	21-BC-37	VIJAYARAJA A	5	5	5	5	5	
38	21-BC-38	VISHNUKUMAR M	5	5	5	5	5	
39	21-BC-39	YUVARAJAR R	5	5	5	5	5	
40	21-BC-40	AFRIN BANU N	5	5	5	5	5	
41	21-BC-42	ANNET ANGEL RANI I	5	5	5	5	5	

42	21-BC-43	BHUVANESHWARI A	5	5	5	5	5	Bhuvaneshwari
43	21-BC-44	DEEPIKA R	5	5	5	5	5	Deepika
44	21-BC-45	DHANUISWARYA S	5	5	5	5	5	Dhanuiswarya
45	21-BC-46	DHIBIKSHA K	5	5	5	5	5	Dhibiksha
46	21-BC-47	GNANASOUNDARI S	5	5	5	5	5	Gnanasoundari
47	21-BC-48	HEMALATHA S	5	5	5	5	5	Hemalatha
48	21-BC-49	KAVIYA SRI K	5	5	5	5	5	Kaviya
49	21-BC-50	KIRUBHA NANDHINI S	5	5	5	5	5	Kirubha
50	21-BC-51	MADHU SRI M	5	5	5	5	5	Madhu
51	21-BC-52	MUBEENA PARVEEN J	5	5	5	5	5	Mubeena
52	21-BC-53	MUBHASHIRA F	5	5	5	5	5	Mubhashira
53	21-BC-54	POORNIMA V	5	5	5	5	5	Poornima
54	21-BC-55	RITHIKA R K	5	5	5	5	5	Rithika
55	21-BC-56	SIVADURGA S	5	5	5	5	5	Sivadurga
56	21-BC-57	SNEKA J	5	5	5	5	5	Sneka
57	21-BC-58	SRIKAMATCHI S	5	5	5	5	5	Srikamatchi
58	21-BC-59	SUMITHRA K	5	5	5	5	5	Sumithra
59	21-BC-60	SWETHA R	5	5	5	5	5	Swetha
		Student 59 (a) Total number of students in the batch)						
	Count of survey scale values	1	1	1	1	1	1	
		3	2	2	1	3	2	
		5	56	56	57	55	56	
	Target value of CO		Only survey scale values of 3 and 5 will be considered.					
(b)	(c) No of survey scales values of 3 and 5		58	58	58	58	58	
	CO attainment value in % = (b) / (a)		98%	98%	98%	98%	98%	

Faculty name	Dr. T.Sumadhi / Ms. B. KousalyaDevi	Designation / Department	Assistant Professor in BCA
Course code	21UBC 5S1	Course name	Mobile phone Services
Program	Bachelor of Computer Applications	Semester	V
Academic year	2023-24	Batch	2021-2024

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Basics of mobile communication - Scope and Opportunities for Mobile Repairing business - Identify business opportunities - Types of Mobile Phones and Technologies - Latest Trends.
CO2	Mobile phone parts – Motherboard - Integrated Circuit - BGA and SMD chips – Screen - Microphone – Sensors - Cables.
CO3	Mobile repair Equipments - Handling - DC Power Supply - Multimeter - soldering iron - Battery Booster - PCB Holder - Microscope.
CO4	Hardware Repair - Repairing procedure – Cleaning - Assembling & disassembling - Change of different ICs - Soldering & DE soldering procedures.
CO5	Software Repair - Flashing - Driver Software - Mobile Software - Software Installation methods - Fault finding & Troubleshooting – Mobile Bricking - Antivirus Installation.

40	21-BC-79	MOHAMMED YASIN M	5	5	5	5	5	5	5
41	21-BC-82	PRASATH K	5	5	5	5	5	5	5
42	21-BC-84	REJOICE MELECH S	5	5	5	5	5	5	5
43	21-BC-86	SAMUTHIRAKANI G	5	5	5	5	5	5	5
44	21-BC-89	SANTHOSH KAMATCHI M	5	5	5	5	5	5	5
45	21-BC-91	SATHISHKUMAR A	5	5	5	5	5	5	5
46	21-BC-93	VARATHARAJ E	5	5	5	5	5	5	5
47	21-BC-95	VIJAY P E	5	5	5	5	5	5	5
48	21-BC-97	YOGESH N	5	5	5	5	5	5	5
49	21-BC-100	DIVYASHREE S	5	5	5	5	5	5	5
50	21-BC-102	JACQUELINE NESIA J	5	5	5	5	5	5	5
51	21-BC-104	KARTHIKA D	5	5	5	5	5	5	5
52	21-BC-106	KOWSALYA P	5	5	5	5	5	5	5
53	21-BC-109	NIMMYNIKITHA R	5	5	5	5	5	5	5
54	21-BC-111	NITHARSANA P	5	5	5	5	5	5	5
55	21-BC-113	RAGAVI V	5	5	5	5	5	5	5
56	21-BC-115	SABAREESHWARI S	5	5	5	5	5	5	5
57	21-BC-117	SNEHASHRI M	5	5	5	5	5	5	5
58	21-BC-119	THARANIKA K	5	5	5	5	5	5	5
59	21-BC-121	VOOVIYA M	5	5	5	5	5	5	5
		Student 59 (a) Total number of students in the batch)							
	Count of survey scale values	1	1	1	1	1	1	1	
		3	2	2	2	2	2	2	
		5	56	56	56	56	56	56	
	Target value of CO	Only survey scale values of 3 and 5 will be considered.							
(b)	(c) No of survey scales values of 3 and 5	58	58	58	58	58	58	58	
	CO attainment value in % = (b) / (a)	98. /.	98. /.	98. /.	98. /.	98. /.	98. /.	98. /.	

Faculty name	Ms.B.Kousalya Devi	Designation / Department	Assistant Professor in BCA
Course code	21UBC 520	Course name	Software Testing
Program	Bachelor of Computer Applications	Semester	V
Academic year	2023-24	Batch	2021-2024

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Software Quality Assurance (SQA), Quality Control (QC), Comparison between QA & QC. Introduction to testing, Black box testing: Equalance partitioning, Boundary value analysis, Error guessing. White box testing: Statement coverage, Decision coverage, Path coverage, Test case, Levels of testing: Unit testing, Integration testing, sub system testing, System testing, Acceptance testing.
CO2	Software testing life cycle, Special types of testing: Documentation testing, Smoke testing, Sanitary testing, Compatibility testing, Usability testing, Configuration testing, Disaster testing, Interoperability testing, Acceptance testing, Load testing, Stress testing, Recovery testing, Regression testing, Security testing, Client-server testing, web testing.
CO3	Test plan, phases of test plan, Hierarchy of test plan, Hierarchy of test document, test plan process. Components of a test plan. Verification and validation, Audits, Reviews. Software metrics, Process metrics, project metrics, product metrics, testing metrics..
CO4	Introduction to automation test tools, Automation process, Features of automation tools: Record and playback, Integration, Environment support, Database test, Data function, Object mapping, Image testing, Object name map, Object identity tool, Test/error recovery, Web testing, Extensible language. Mercury interactive, Quality standards.
CO5	Introduction to WINRUNNER, Two models for recording test: context sensitive, Analog model. Six main stages of testing process in winrunner. Starting winrunner, Main winrunner. Window, Text window, User tool bar, Executing commands using soft keys, understanding GUI map, Viewing GUI object properties, Saving the GUI map.

Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No. or Reg. No.	Name of Student	[To what extent do you feel you have learnt and will be able to do the following (which are the COs of the course)]					Signature of student (optional)	
			Poor	Average	Good				
			1	3	5	CO1	CO2		CO3
1	21-BC-01	ABDUL RAJAK J	5	3	5	5	5	Abdul Rajak J	
2	21-BC-02	ANBU RATHINAM S	1	5	5	5	5	A.Rathinam S	
3	21-BC-03	ASHOKKUMAR M	5	5	5	5	5	Ashokkumar M	
4	21-BC-04	BALAJI K	5	3	5	5	5	Balaji K	
5	21-BC-05	BARANITHARAN D	1	5	5	5	5	Baranitharan D	
6	21-BC-06	CHANDHANABHARATHI P	5	5	5	5	5	Chandhanabharathi P	
7	21-BC-07	DINESH S	5	5	5	5	5	Dinesh S	
8	21-BC-08	EASWARAN T	1	5	5	5	5	Easwaran T	
9	21-BC-09	GOKUL C	5	5	5	5	5	Gokul C	
10	21-BC-10	GOKULAKRISHNAN V	5	5	5	5	5	Gokulakrishnan V	
11	21-BC-11	GOKULNATH B	5	5	5	5	5	Gokulnath B	
12	21-BC-12	GOWTHAM M	5	3	5	5	5	Gowtham M	
13	21-BC-13	GUNASEKARAN N	5	5	5	5	5	Gunasekaran N	
14	21-BC-14	JEBAKAR A	1	5	5	5	5	Jebakar A	
15	21-BC-15	JEEVANANTHAM G	1	5	5	5	5	Jeevanantham G	
16	21-BC-16	JOHN SAMUEL N	5	5	5	5	5	John Samuel N	
17	21-BC-17	KANNAN N	5	5	5	5	5	Kannan N	
18	21-BC-18	MANDRAMOORTHY S	1	5	5	5	5	Mandramoorthy S	
19	21-BC-19	MOHAMMED RIYAZ M	5	5	5	5	5	Mohammed Riyaz M	
20	21-BC-20	MURUGA PRAKASH M	1	5	5	5	5	Muruga Prakash M	
21	21-BC-21	NARENDRHA PRASATH K	5	5	5	5	5	Narendrha Prasath K	
22	21-BC-22	NAVIN PRASATH N	5	5	5	5	5	Navin Prasath N	
23	21-BC-23	PRANESH G	5	5	5	5	5	Pranesh G	
24	21-BC-24	PRAVEEN RAJ S	5	3	5	5	5	Praveen Raj S	
25	21-BC-25	RAJAMANICKAM P	5	5	5	5	5	Rajamanickam P	
26	21-BC-26	ROHITH KUMAR J	5	3	5	5	5	Rohith Kumar J	
27	21-BC-27	ROSHAN ZAMEER M	5	5	5	5	5	Roshan Zameer M	
28	21-BC-28	SANJAI PRABU G S	5	5	5	5	5	Sanjai Prabhu G S	
29	21-BC-29	SARAN G	5	5	5	5	5	Saran G	
30	21-BC-30	SATHISHKUMAR S A	5	5	5	5	5	Sathishkumar S A	
31	21-BC-31	SIVAKUMAR K	5	5	5	5	5	Sivakumar K	
32	21-BC-32	SREE HEMANTH BABU K	5	5	5	5	5	Sree Hemanth Babu K	
33	21-BC-33	SUDHARSON S	5	5	5	5	5	Sudharson S	
34	21-BC-34	THARANISH NITHIN P	5	5	5	5	5	Tharanish Nithin P	
35	21-BC-35	UDHAYARAJ K	5	5	5	5	5	Udhayaraj K	
36	21-BC-36	VELMURUGAN N	5	5	5	5	5	Velmurugan N	
37	21-BC-37	VIJAYARAJA A	5	5	5	5	5	Vijayaraja A	
38	21-BC-38	VISHNUKUMAR M	5	5	5	5	5	Vishnukumar M	
39	21-BC-39	YUVARAJAR R	5	5	5	5	5	Yuvarajar R	
40	21-BC-40	AFRIN BANU N	5	5	5	5	5	Afrin Banu N	
41	21-BC-42	ANNET ANGEL RANI I	5	5	5	5	5	Annet Angel Rani I	
42	21-BC-43	BHUVANESHWARI A	5	5	5	5	5	Bhuvaneshwari A	
43	21-BC-44	DEEPIKA R	5	5	5	5	5	Deepika R	
44	21-BC-45	DHANUISWARYA S	5	5	5	5	5	Dhanuiswarya S	

Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No. or Reg. No.	Name of Student	[To what extent do you feel you have learnt and will be able to do the following (which are the COs of the course)]					Signature of student (optional)
			Poor		Average		Good	
			1	3	5	5	5	
			CO1	CO2	CO3	CO4	CO5	
1	21-BC-01	ABDUL RAJAK J	5	3	5	5	5	Abdul Rajak J
2	21-BC-02	ANBU RATHINAM S	1	5	5	5	5	M. Anbu
3	21-BC-03	ASHOKKUMAR M	5	5	5	5	5	K. Balasubramanian
4	21-BC-04	BALAJI K	5	3	5	5	5	B. Balaji
5	21-BC-05	BARANITHARAN D	1	5	5	5	5	P. Baranitharan
6	21-BC-06	CHANDHANABHARATHI P	5	5	5	5	5	D. Chandhanabharathi
7	21-BC-07	DINESH S	5	5	5	5	5	D. Dinesh
8	21-BC-08	EASWARAN T	1	5	5	5	5	T. Easwaran
9	21-BC-09	GOKUL C	5	5	5	5	5	G. Gokul
10	21-BC-10	GOKULAKRISHNAN V	5	5	5	5	5	V. Gokulakrishnan
11	21-BC-11	GOKULNATH B	5	5	5	5	5	B. Gokulnath
12	21-BC-12	GOWTHAM M	5	3	5	5	5	M. Gowtham
13	21-BC-13	GUNASEKARAN N	5	5	5	5	5	N. Gunasekaran
14	21-BC-14	JEBAKAR A	1	5	5	5	5	A. Jebakar
15	21-BC-15	JEEVANANTHAM G	1	5	5	5	5	G. Jeevanantham
16	21-BC-16	JOHN SAMUEL N	5	5	5	5	5	N. John Samuel
17	21-BC-17	KANNAN N	5	5	5	5	5	N. Kannan
18	21-BC-18	MANDRAMOORTHY S	1	5	5	5	5	S. Mandramoorthy
19	21-BC-19	MOHAMMED RIYAZ M	5	5	5	5	5	M. Mohammed Riyaz
20	21-BC-20	MURUGA PRAKASH M	1	5	5	5	5	M. Muruga Prakash
21	21-BC-21	NARENDHIRA PRASATH K	5	5	5	5	5	K. Narendhira Prasath
22	21-BC-22	NAVIN PRASATH N	5	5	5	5	5	N. Navin Prasath
23	21-BC-23	PRANESH G	5	5	5	5	5	G. Pranesh
24	21-BC-24	PRAVEEN RAJ S	5	3	5	5	5	S. Praveen Raj
25	21-BC-25	RAJAMANICKAM P	5	5	5	5	5	P. Rajamanickam
26	21-BC-26	ROHITH KUMAR J	5	3	5	5	5	J. Rohith Kumar
27	21-BC-27	ROSHAN ZAMEER M	5	5	5	5	5	M. Roshan Zameer
28	21-BC-28	SANJAI PRABU G S	5	5	5	5	5	S. Sanjai Prabhu
29	21-BC-29	SARAN G	5	5	5	5	5	G. Saran
30	21-BC-30	SATHISHKUMAR S A	5	5	5	5	5	S. Sathish Kumar
31	21-BC-31	SIVAKUMAR K	5	5	5	5	5	K. Sivakumar
32	21-BC-32	SREE HEMANTH BABU K	5	5	5	5	5	K. Sree Hemant Babu
33	21-BC-33	SUDHARSON S	5	5	5	5	5	S. Sudharson
34	21-BC-34	THARANISH NITHIN P	5	5	5	5	5	P. Tharanish Nithin
35	21-BC-35	UDHAYARAJ K	5	5	5	5	5	K. Udhayaraj
36	21-BC-36	VELMURUGAN N	5	5	5	5	5	N. Velmurugan
37	21-BC-37	VIJAYARAJA A	5	5	5	5	5	A. Vijayaraja
38	21-BC-38	VISHNUKUMAR M	5	5	5	5	5	M. Vishnu Kumar
39	21-BC-39	YUVARAJAR R	5	5	5	5	5	R. Yuvarajar
40	21-BC-40	AFRIN BANU N	5	5	5	5	5	N. Afrin Banu
41	21-BC-42	ANNET ANGEL RANI I	5	5	5	5	5	I. Annet Angel Rani
42	21-BC-43	BHUVANESHWARI A	5	5	5	5	5	A. Bhuvaneshwari
43	21-BC-44	DEEPIKA R	5	5	5	5	5	R. Deepika
44	21-BC-45	DHANUISWARYA S	5	5	5	5	5	S. Dhani Swarya

	21-BC-46	DHIBIKSHA K	5	5	5	5	5	Dhiksha K
	21-BC-47	GNANASOUNDARI S	5	5	5	5	5	Gnanasoundari S
	21-BC-48	HEMALATHA S	5	5	5	5	5	Hemalatha S
48	21-BC-49	KAVIYA SRI K	5	5	5	5	5	Kaviya Sri K
49	21-BC-50	KIRUBHA NANDHINI S	5	5	5	5	5	Kirubha nandhini S
50	21-BC-51	MADHU SRI M	5	5	5	5	5	Madhu Sri M
51	21-BC-52	MUBEENA PARVEEN J	5	5	5	5	5	Mubeena Parveen J
52	21-BC-53	MUBHASHIRA F	5	5	5	5	5	Mubhashira F
53	21-BC-54	POORNIMA V	5	5	5	5	5	Poornima V
54	21-BC-55	RITHIKA R K	5	5	5	5	5	Rithika R.K
55	21-BC-56	SIVADURGA S	5	5	5	5	5	Sivadurga S
56	21-BC-57	SNEKA J	5	5	5	5	5	Sneka J
57	21-BC-58	SRIKAMATCHI S	5	5	5	5	5	Srikamatchi S.
58	21-BC-59	SUMITHRA K	5	5	5	5	5	Sumithra K
59	21-BC-60	SWETHA R	5	5	5	5	5	Swetha R
		Student 60 (a) Total number of students in the batch)						
	Count of survey scale values	1	8	0	0	0	0	
		3	0	6	0	0	0	
		5	51	53	59	59	59	
	Target value of CO		Only survey scale values of 3 and 5 will be considered.					
(b)	(c) No of survey scales values of 3 and 5		51	59	59	59	59	
	CO attainment value in % = (b) / (a)		85%	98%	98%	98%	98%	

Faculty name	Dr. S. Sathiyapriya	Designation / Department	Assistant Professor in BCA
Course code	21UBC522	Course name	Software Testing
Program	Bachelor of Computer Applications	Semester	V
Academic year	2023-24	Batch	2021-2024

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Basics: Python- Variables- Executing Python From the Command Line- Editing Python Files- Python Reserved Words-Basic Syntax-Comments- Strings And Numeric Data Types-Simple Input and Output.
CO2	Control Statements: Control Flow and Syntax-Indenting- If Statement- Relational Operators- Logical Operators- Bit Wise Operators- While Loop- Break and Continue- For Loop-Lists- Tuple -Sets-Dictionaries.
CO3	Functions: Definition- Passing Parameters to a Function-Variable Number of Arguments- Scope-Passing Functions to a Function- Mapping Functions in a Dictionary-Lambda-Modules- Standard Modules- Sys-Math- Time- DirFunction.
CO4	Error Handling: Run Time Errors-Exception Model-Exception Hierarchy- Handling Multiple Exceptions-Data Streams-Access Modes Writing-Data to a File Reading-Data From a File- Additional File Methods-Using Pipes as Data Streams-Handling IO Exceptions-Working With Directories.
CO5	Object Oriented Features: Classes Principles of Object Orientation- <i>Creating Classes</i> -Instance Methods-File Organization-Special Methods- <i>Class Variables</i> - <i>Inheritance</i> -Polymorphism- Type Identification-Simple Character Methods- <i>Special Characters</i> - <i>Character Classes</i> - Quantifiers-Dot Character-Greedy Matches-Grouping-Matching at Beginning or End-Match Objects- Substituting-Splitting a String-Compiling Regular Expressions.

Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No. or Reg. No.	Name of Student	[To what extent do you feel you have learn and will be able to do the following (which are the COs of the course)]					Signature of student (optional)				
			Poor	Average	Good							
			1	3	5	CO1	CO2		CO3	CO4	CO5	
1	21-BC-61	ABHISHEK S	5	5	5	5	5	5	5	5	5	Abhishek S
2	21-BC-62	ARUNKUMAR S	5	5	5	5	5	5	5	5	5	Arunkumar S
3	21-BC-63	ASHOKKUMAR S	5	5	5	5	5	5	5	5	5	Ashokkumar S
4	21-BC-64	BALAJI N	5	5	5	5	5	5	5	5	5	Balaji N
5	21-BC-65	BHARATHAMUTHAN N	5	5	5	5	5	5	5	5	5	Bharathamuthan N
6	21-BC-66	CHINRAJ G	5	5	5	5	5	5	5	5	5	Chinraj G
7	21-BC-67	DEEPAK BASKAR N	5	5	5	5	5	5	5	5	5	Deepak Baskar N
8	21-BC-68	ENBASEKAR P	5	5	5	5	5	5	5	5	5	Enbasekar P
9	21-BC-69	FAROSE MANSOOR M S	5	5	5	5	5	5	5	5	5	Farose Mansoor M S
10	21-BC-70	GOKUL K	5	5	5	5	5	5	5	5	5	Gokul K
11	21-BC-71	JANAGAR C	5	5	5	5	5	5	5	5	5	Janagar C
12	21-BC-72	JAYASANKAR K	5	5	5	5	5	5	5	5	5	Jayasankar K
13	21-BC-73	KARTHI KEYAN R	5	5	5	5	5	5	5	5	5	Karthi Keyan R
14	21-BC-74	KISHORE P	5	5	5	5	5	5	5	5	5	Kishore P
15	21-BC-75	KORESH L	5	5	5	5	5	5	5	5	5	Koresh L
16	21-BC-76	MADHUYOGESH B	5	5	5	5	5	5	5	5	5	Madhuyogesh B
17	21-BC-77	MANOJKUMAR R	5	5	5	5	5	5	5	5	5	Manojkumar R
18	21-BC-78	MITHUN S	5	5	5	5	5	5	5	5	5	Mithun S
19	21-BC-79	MOHAMMED YASIN M	5	5	5	5	5	5	5	5	5	Mohammed Yasin M
20	21-BC-81	PRADOSH KUMAR A	5	5	5	5	5	5	5	5	5	Pradosh Kumar A
21	21-BC-82	PRASATH K	5	5	5	5	5	5	5	5	5	Prasath K
22	21-BC-83	PRATHAP K K	5	5	5	5	5	5	5	5	5	Prathap K K
23	21-BC-84	REJOICE MELECH S	5	5	5	5	5	5	5	5	5	Rejoice Melech S
24	21-BC-85	SACHIDHAN M	5	5	5	5	5	5	5	5	5	Sachidhan M
25	21-BC-86	SAMUTHIRAKANI G	5	5	5	5	5	5	5	5	5	Samuthirakani G
26	21-BC-87	SANJEEV KUMAR T	5	5	5	5	5	5	5	5	5	Sanjeev Kumar T
27	21-BC-89	SANTHOSH KAMATCHI M	5	5	5	5	5	5	5	5	5	Santhosh Kamatchi M
28	21-BC-90	SARANKUMAR M	5	5	5	5	5	5	5	5	5	Sarankumar M
29	21-BC-91	SATHISHKUMAR A	5	5	5	5	5	5	5	5	5	Sathishkumar A
30	21-BC-92	SUDHARSHAN S	5	5	5	5	5	5	5	5	5	Sudharshan S
31	21-BC-93	VARATHARAJ E	5	5	5	5	5	5	5	5	5	Varatharaj E
32	21-BC-94	VETHURAM A	5	5	5	5	5	5	5	5	5	Vethuram A
33	21-BC-95	VIJAY P E	5	5	5	5	5	5	5	5	5	Vijay P E
34	21-BC-96	VISHNU A	5	5	5	5	5	5	5	5	5	Vishnu A
35	21-BC-97	YOGESH N	5	5	5	5	5	5	5	5	5	Yogesh N
36	21-BC-99	ARCHANAPRIYADHARSHINI B	5	5	5	5	5	5	5	5	5	Archana Priyadharshini B
37	21-BC-100	DIVYASHREE S	5	5	5	5	5	5	5	5	5	Divyashree S
38	21-BC-101	GAYATHRI T	5	5	5	5	5	5	5	5	5	Gayathri T
39	21-BC-102	JACQUELINE NESIA J	5	5	5	5	5	5	5	5	5	Jacqueline Nesia J
40	21-BC-103	KALEESHWARI M	5	5	5	5	5	5	5	5	5	Kaleeswari M

41	21-BC-104	KARTHIKA D	5	5	5	5	5	Karthika
42	21-BC-105	KAVIYA DHARSHINI S	5	5	5	5	5	Kavyade
43	21-BC-106	KOWSALYA P	5	5	3	5	5	Kowsalya
44	21-BC-108	MOHANAPRIYA S	3	5	5	5	5	Mohan
45	21-BC-109	NIMMYNIKITHA R	5	5	5	5	5	Nimmynikitha
46	21-BC-110	NIVETHA M	5	5	5	5	5	Nivetha
47	21-BC-111	NITHARSANA P	5	5	5	5	5	Nitharsana
48	21-BC-112	PRAGATHEESWARI B	5	3	5	5	5	Pragatheeswari
49	21-BC-113	RAGAVI V	5	5	5	5	3	Ragavi
50	21-BC-114	RAMYA S	5	5	5	5	5	Ramya
51	21-BC-115	SABAREESHWARI S	5	5	5	5	5	Sabareeswari
52	21-BC-116	SIVAMALINI A	5	5	5	5	1	Sivamalni
53	21-BC-117	SNEHASHRI M	5	5	5	3	5	Snehashri
54	21-BC-118	SUBHA K	5	5	5	5	5	Subha
55	21-BC-119	THARANIKA K	5	5	5	5	5	Tharanika
56	21-BC-120	VIJAYANEMITHA V	5	5	5	5	5	Vijayanemitha
57	21-BC-121	VOOVIYA M	5	5	5	5	5	Vooviya
58	19-BC-108	PREETHI	5	5	5	5	5	Preethi
		Student 58 (a) Total number of students in the batch)						
	Count of survey scale values	1	1	1	1	1		
		3	2	2	1	2	2	
		5	55	55	56	55	55	
	Target value of CO		Only survey scale values of 3 and 5 will be considered.					
(b)	(c) No of survey scales values of 3 and 5		57	57	57	57	57	
	CO attainment value in % = (b) / (a)		98%	98%	98%	98%	98%	

Faculty name	Dr. S. Sathiyapriya	Designation / Department	Assistant Professor in BCA
Course code	22UBC308	Course name	Core - VI : Operating System & Linux
Program	Bachelor of Computer Applications	Semester	III
Academic year	2023-24	Batch	2022-2025

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Introduction to OS – Early History – Hardware: Interrupts and Polling, Buffering, Storage Protection, Online – Offline Operation-Cycle Stealing- Processing-Storage Hierarchy Reduced Instruction Set Computing (RISC).Semaphores – Process Synchronization with Semaphores – Counting Semaphores. Storage Management: Real Storage – Storage Organization – Storage Management Storage Hierarchy – Swapping – Virtual Storage – Basic Concepts
CO2	PAGING: Basic Concepts – Segmentation. Dead Lock: Examples – Dead Lock Preventions – Dead Lock Avoidance – Bankers Algorithms Only – Dead Lock Detection – Dead Lock Recovery. Processor Management: Job and Processor Scheduling – Introduction – Scheduling Levels – Scheduling Objectives – Preemptive Vs Non preemptive Scheduling – Priorities – FIFO Scheduling – Round Robin Scheduling – Quantum Size Shortest Job First Scheduling – Shortest Remaining Time Scheduling – Highest Response Ratio Next Scheduling.
CO3	Auxiliary Storage Management: Disk Performance Optimization – Why Disk – Scheduling is Necessary – Desirable Characteristics of Disk Scheduling Policies – Seek Optimization – Disk Caching – RAM Disks. FILE Database System: Introduction – The File System – File System Functions – Blocking and Buffering – File Organization – Allocating and Freeing Space – File Description – Access Control Matrix – Access Control by User Classes – Backup Recovery.
CO4	Linux: Introduction – File structure of Linux – Directory hierarchy – Environmental variables –file access permissions –utility commands- files – print – login details. VI-editors - three modes. File splitting – pipes and filters – paginating files – head – tail – grep – process termination – timing process.
CO5	Shell Programming. Creation and execution – command line arguments – logical operations – condition statements – System administration – Booting and shutting down – super user status – Disk management – security – user services – mount – unmount installing and managing printers.

Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No. or Reg. No.	Name of Student	[To what extent do you feel you have learn and will be able to do the following (which are the COs of the course)]					Signature of student (optional)			
			Poor	Average	Good						
			1	3	5	CO1	CO2		CO3	CO4	CO5
1	22-BC-01	AMAL A	5	5	5	5	5	5	5	5	Amal
2	22-BC-02	ANANDHABABU M	5	5	5	5	5	5	5	5	Anand
3	22-BC-03	ANSHAD A	5	5	5	5	5	5	5	5	A. Anshad
4	22-BC-04	ARIPRASATH A	5	5	5	5	5	5	5	5	Arip
5	22-BC-05	ASHWATH S	5	5	5	5	5	5	5	5	Ashwin
6	22-BC-06	ASHWIN V	5	5	5	5	5	5	5	5	Ashwin
7	22-BC-07	BOOPATHI M	5	5	5	5	5	5	5	5	Boopathi
8	22-BC-08	CIDARTH.R	5	5	5	5	5	5	5	5	Cidarth
9	22-BC-09	DHAKSINPRABHU S	5	5	5	5	5	5	5	5	Dhakin
10	22-BC-10	DHANUSHKUMAR G	5	5	5	5	5	5	5	5	Dhanush
11	22-BC-11	HARIHARASUDHAN.K	5	5	5	5	5	5	5	5	Harihar
12	22-BC-12	JAGAT.M	5	5	5	5	5	5	5	5	Jagat
13	22-BC-13	JONES G	5	5	5	5	5	5	5	5	Jones
14	22-BC-14	KURALARASU V	5	5	5	5	5	5	5	5	Kurala
15	22-BC-15	LOKESH.M	5	5	5	5	5	5	5	5	Lokesh
16	22-BC-16	MADHAN S	5	5	5	5	5	5	5	5	Madhan
17	22-BC-17	MANOJKUMAR P	5	5	5	5	5	5	5	5	Manoj
18	22-BC-18	MOHAMMED HASSAN.A	5	5	5	5	5	5	5	5	Mohammed
19	22-BC-19	MOHAMMED ASLAM SHEIK S	5	5	5	5	5	5	5	5	Mohammed
20	22-BC-20	MUGESH KANNA C B	5	5	5	5	5	5	5	5	Mugesh
21	22-BC-21	NITHEESHWAR S	5	5	5	5	5	5	5	5	Nitheesh
22	22-BC-22	RAHUL P	5	5	5	5	5	5	5	5	Rahul
23	22-BC-23	RAKHUL S	5	5	5	5	5	5	5	5	Rahul
24	22-BC-24	SABAREESWARAN N	3	5	5	5	5	5	5	5	Sabar
25	22-BC-25	SACHIN BHARATH.T	5	5	5	5	5	5	5	5	Sachin
26	22-BC-26	SANJAY KUMAR B	5	5	5	5	5	5	5	5	Sanjay
27	22-BC-27	SOWNDESWARAN R	5	5	5	5	5	5	5	5	Sowndes
28	22-BC-28	SUBASH S	5	5	5	5	5	5	5	5	Subash
29	22-BC-29	TEDDY MATHEW B	5	5	5	5	5	5	5	5	Teddy
30	22-BC-30	VISHNU G	5	5	5	5	5	5	5	5	Vishnu
31	22-BC-31	ABIRAMI P	5	5	5	5	5	5	5	5	Abirami
32	22-BC-32	ARUTHRA S	5	5	5	5	5	5	5	5	Aruthra
33	22-BC-33	BHAVADHARANI B	5	5	5	5	5	5	5	5	Bhavadhara
34	22-BC-34	DHANYA G	5	3	5	5	5	5	5	5	Dhanya
35	22-BC-35	DHARSANA E	5	5	5	5	5	5	5	5	Dharsana
36	22-BC-36	DIVYA SREE N	5	5	5	5	5	5	5	5	Divya
37	22-BC-37	ELAMATHI.P	5	5	5	5	5	5	5	5	Elamathi
38	22-BC-38	FASHIKA AMRIN.AJ	5	5	5	5	5	5	5	5	Fashika
39	22-BC-39	FATHIMA F	5	5	5	5	5	5	5	5	Fathima
40	22-BC-40	HAMEETHA JAINAB M	5	5	5	5	5	5	5	5	Hameetha
41	22-BC-41	HEMA M	5	5	5	5	5	5	5	5	Hema
42	22-BC-42	HEMA LEKHA S S	5	5	5	5	5	5	5	5	Hema
43	22-BC-43	KABILA S	5	5	5	5	5	5	5	5	Kabila
44	22-BC-44	KEERTHANA G	5	5	5	3	5	5	5	5	Keerthana

45	22-BC-45	KEERTHIKA M	5	5	5	5	5	
46	22-BC-46	MANJULADEVI S	5	5	5	5	5	
47	22-BC-47	NIRJA V	5	5	5	5	5	M. Manjuladevi
48	22-BC-48	PAVITHRA .K.P	5	5	5	5	5	V. Naga
49	22-BC-49	ROSEMARY J	5	5	5	5	5	K.P. Pavitra
50	22-BC-50	RUKSHANA BANU.N	5	5	5	5	5	Rosemary J
51	22-BC-51	SANJANA R	5	5	5	5	5	R. Rukshana
52	22-BC-52	SELVANAYAGAM N	5	5	5	5	5	Sanjana R.
53	22-BC-53	SHRIYA L	5	1	5	1	5	Selvanayagam N.
54	22-BC-54	SINDHU S	5	5	5	5	5	L. Shriya
55	22-BC-55	SURYA T	5	5	5	5	5	Sindhu S.
56	22-BC-56	TAMIL SELVEM	5	5	5	5	5	Surya T.
57	22-BC-57	THIRISHA.B	5	5	3	5	5	M. Tamil Selvi
58	22-BC-58	YUTHIHA SHREE K.S	5	5	5	5	5	Thirisha B.
59	22-BC-59	YUVASANGARI G	5	5	5	5	5	Yuthiha S.
60	22-BC-60	VAISHNAVI	5	5	5	5	5	Y. Vasanti
		Student 60 (a) Total number of students in the batch)						
	Count of survey scale values	1	1	2	0	1	0	
		3	1	1	3	1	2	
		5	57	56	56	57	57	
	Target value of CO		Only survey scale values of 3 and 5 will be considered.					
(b)	(c) No of survey scales values of 3 and 5		58	57	59	58	59	
	CO attainment value in % = (b) / (a)		96%	95%	98%	96%	98%	

Faculty name	Dr. S. Sathiyapriya	Designation / Department	Assistant Professor in BCA
Course code	23UBC102	Course name	Data Structures
Program	Bachelor of Computer Applications	Semester	I
Academic year	2023-24	Batch	2023-2026

Course Outcome Number	Course Outcome Description (as in the syllabus)
CO1	Introduction- Linear data structures: Arrays-Representation of Array- Operations of Array- Stacks - Queues. Linked Lists-Types of Linked Lists- Linked List Operations- Linked Stacks and Queues.
CO2	Trees - Definitions and Concepts- Binary Trees – Representations-Operations- Traversals: Inorder-Preorder-Post order- Threaded Binary Trees - Binary Search Trees.
CO3	GRAPHS-Terminology –Representations: Adjacency Matrix- Adjacency Lists - Adjacency Multi lists -Depth First Search-Breadth First Search-Shortest paths Dijkstra algorithm- <i>Minimum spanning Tree</i> - Kruskal's Algorithm & Prim's Algorithm.
CO4	Basic Steps- Greedy method- The traveling salesperson problem- Knapsack problem- Job Scheduling Problem- Backtracking- Divide and conquer Algorithms-The 8 Queens problem- Sum of subsets.
CO5	Sorting Techniques: Insertion sort –Mergesort–Quicksort–Heapsort. Searching-Searching Techniques: Linear search –Binary Search.

Course End Survey with Provision for Consolidation of Survey Results:

S.No	Roll No. or Reg. No.	Name of Student	[To what extent do you feel you have learn and will be able to do the following (which are the COs of the course)]					Signature of student (optional)
			Poor	Average		Good		
			1	3		5		
			CO1	CO2	CO3	CO4	CO5	
1	23-BC-01	AATHINARAYANAN S	5	5	5	5	5	[Signature]
2	23-BC-02	ADIPATHY SANJAY SHIVAJI U	5	5	5	5	5	[Signature]
3	23-BC-03	ARUNACHALAM S	5	5	5	5	5	[Signature]
4	23-BC-04	DARSHITH V	5	5	5	5	5	[Signature]
5	23-BC-05	DHANUSHKUMAR R	5	5	5	5	5	[Signature]
6	23-BC-06	DHARSAN M	5	5	5	5	5	[Signature]
7	23-BC-07	HARIHARAN J	5	5	5	5	5	[Signature]
8	23-BC-08	HARSHAVARDHAN L J	5	5	5	5	5	[Signature]
9	23-BC-09	KARTHIK V	5	5	5	5	5	[Signature]
10	23-BC-10	KARVENDHAN V	5	5	5	5	5	[Signature]
11	23-BC-11	MANI KANDAN S	5	5	5	5	5	[Signature]
12	23-BC-12	MANOJ V	5	5	5	5	5	[Signature]
13	23-BC-13	MOHAMED SHABEEB A M	5	5	5	5	5	[Signature]
14	23-BC-14	MOHAMMED ADHIL A	5	5	5	5	5	[Signature]
15	23-BC-15	PARTHIVSANJAI R	5	5	5	5	5	[Signature]
16	23-BC-16	PRANEASH RAM A S	5	5	5	5	5	[Signature]
17	23-BC-17	SANTHOSH S	5	5	5	5	5	[Signature]
18	23-BC-18	SARAVANAKUMAR S	5	5	5	5	5	[Signature]
19	23-BC-19	SRI MONISH T	5	5	5	5	5	[Signature]
20	23-BC-20	SRIRAM S	5	5	5	5	5	[Signature]
21	23-BC-21	SYED SULTHAN M	5	5	5	5	5	[Signature]
22	23-BC-22	TAMILCHALVAN A M	5	5	5	5	5	[Signature]
23	23-BC-23	THIRUVENGADARAMANAN A	5	5	5	5	5	[Signature]
24	23-BC-24	ABINAYA N	5	5	5	5	5	[Signature]
25	23-BC-25	AKALYA S	5	5	5	5	5	[Signature]
26	23-BC-26	ANUSRI S	5	5	5	5	5	[Signature]
27	23-BC-27	ARUNTHATHI S	5	5	5	5	5	[Signature]
28	23-BC-28	DHAKSHITAA S K	5	5	5	5	5	[Signature]
29	23-BC-29	DHARINI S	5	5	5	5	5	[Signature]
30	23-BC-30	DHARSHANA E	5	5	5	5	5	[Signature]
31	23-BC-31	DHEECHITHAVISALINI K	5	5	5	5	5	[Signature]
32	23-BC-32	GAYATRI P G	5	5	5	5	5	[Signature]
33	23-BC-33	HEMALATHA A	5	5	5	5	5	[Signature]
34	23-BC-34	INDHIRA P S	5	5	5	5	5	[Signature]
35	23-BC-35	ISWARYA S	5	5	5	5	5	[Signature]
36	23-BC-36	KAMALIGA SRI E	5	5	5	5	5	[Signature]
37	23-BC-37	KAVISRI C	5	5	5	5	5	[Signature]
38	23-BC-38	KAVIYADHARSHINI K	5	5	5	5	5	[Signature]
39	23-BC-39	KAVYA H	5	5	5	5	5	[Signature]
40	23-BC-40	KIRUBA DEVI M	5	5	5	5	5	[Signature]

41	23-BC-41	MADINA S	5	5	5	5	5	S. Madina
42	23-BC-42	MAHALAKSHMI T	5	5	5	5	5	T. Mahalakshmi
43	23-BC-43	MAHESHWARI G	5	5	5	5	1	Maheshwari G
44	23-BC-44	MOHANAPRIYA B	5	5	5	5	5	Mohanapriya B
45	23-BC-45	NAVEENA E	5	5	5	5	3	Naveena E
46	23-BC-46	PAVISRI B	5	5	5	5	5	Pavisri B
47	23-BC-47	PRIYANGA P	5	5	5	5	5	Priyanga P
48	23-BC-48	PUNITHA S	5	5	3	5	5	Punitha S
49	23-BC-49	SALIHA S	5	5	5	5	5	Salaha S
50	23-BC-50	SATHIYAPRIYA J	5	5	5	5	5	Sathyapriya J
51	23-BC-51	SOWBARNIKA N	5	5	5	1	5	Sowbarnika N
52	23-BC-52	SRIVANI S	5	5	5	5	5	Srivani S
53	23-BC-53	SUPRIYA A	5	5	5	5	5	Supriya A
54	23-BC-54	SWEETY EMIMA J	5	5	3	5	5	Sweetey Emima J
55	23-BC-55	SWETHA B	5	5	5	5	5	Swetha B
56	23-BC-56	THARUNIKA R	5	5	5	5	5	Tharunika R
57	23-BC-57	VARSHINI S	5	5	5	5	5	Varshini S
58	23-BC-58	YASHWINI V S	5	5	5	5	5	Yashwini V S
59	23-BC-59	YOGESWARI G	5	5	5	5	5	Yogeshwari G
60	23-BC-60	ZUNEIRA H	5	5	5	5	5	Zuneira H
		Student 60 (a) Total number of students in the batch)						
	Count of survey scale values	1 3 5	1 3 56	1 1 58	1 2 57	1 2 57	1 2 57	
	Target value of CO		Only survey scale values of 3 and 5 will be considered.					
(b)	(c) No of survey scales values of 3 and 5		59	59	59	59	59	
	CO attainment value in % = (b) / (a)		98%	98%	98%	98%	98%	


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2.6.1 PROGRAMME OUTCOMES AND COURSE OUTCOME
COMMUNICATED TO STUDENTS

Programme outcome and Course outcome of the programme B.Sc., Computer Technology is inform to students on the first day 04.12.2023 of the academic year 2023-2024

For the semester I Class 1st year B. Sc., CT.

S. No.	Register number	Name of the Student	Signature of the student
1	23-CT-01	T. Ajay Kumar	T. Ajay Kumar
2	23-CT-02	A. Aswin	A. Aswin
3	23-CT-03	S. Azhagu Sowbaran	S. Azhagu Sowbaran
4	23-CT-04	R. Gowthaman	R. Gowthaman
5	23-CT-05	M. Harihara Priyan	M. Harihara Priyan
6	23-CT-06	T. Hari Krishnan	T. Hari Krishnan
7	23-CT-07	T. Jaya Balaji	T. Jaya Balaji
8	23-CT-08	S. Karthik Kumar	S. Karthik Kumar
9	23-CT-09	R. Loganathan	R. Loganathan
10	23-CT-10	M. Karthikeyan	M. Karthikeyan
11	23-CT-11	S. Maheswaran	S. Maheswaran
12	23-CT-12	N. Manoj Kumar	N. Manoj Kumar
13	23-CT-13	M. Mathavan	M. Mathavan
14	23-CT-14	M. Parameshwaran	M. Parameshwaran
15	23-CT-15	K. Ragul	K. Ragul
16	23-CT-16	S. Sanjay	S. Sanjay
17	23-CT-17	R. Santhosh Kumar	R. Santhosh Kumar
18	23-CT-18	M. Shamalasarath	M. Shamalasarath
19	23-CT-19	B. K. Subikshan	B. K. Subikshan
20	23-CT-20	S. Vasantha Kumar	S. Vasantha Kumar
21	23-CT-21	V. Vikram	V. Vikram
22	23-CT-22	Washif Faiz. M	Washif Faiz. M
23	23-CT-23	V. Abinaya Sri	V. Abinaya Sri
24	23-CT-24	P. Abinaya Sri	P. Abinaya Sri
25	23-CT-25	R. Agalya	R. Agalya
26	23-CT-26	R. Akila	R. Akila
27	23-CT-27	M. Akshaya	M. Akshaya
28	23-CT-28	A. Arbina Khatum	A. Arbina Khatum
29	23-CT-29	V. Backiyalakshmi	V. Backiyalakshmi
30	23-CT-30	M. Bharathi	M. Bharathi
31	23-CT-31	R. Chithirai Selvi	R. Chithirai Selvi

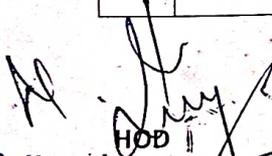
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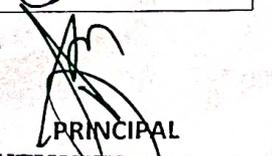
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32	23-CT-32	V. Dhanu Sri	V. Dhanu Sri
33	23-CT-33	T. S. Dhanush Mathi	T.S. Dhanushmathi
34	23-CT-34	E. Dhanush Mathi	E-Dhanushmathi
35	23-CT-35	R. B. Dharshana	R-B Dharshana
36	23-CT-36	A. Fathima Thaseem	A. Fathima
37	23-CT-37	G. Hemavarshini	Hemavarshini G.
38	23-CT-38	K. M. Deepika	K.M. Deepika
39	23-CT-39	M. Kalaivani	M. Kalaivani
40	23-CT-40	V. Madhumitha	V. Madhumitha
41	23-CT-41	C. Mahalaskhmi	C. Mahalaskhmi
42	23-CT-42	K. Mohana	K. Mohana
43	23-CT-43	T. Mohana Valli	Mohana Valli T.
44	23-CT-44	R. M. Nitya Sree	Nitya Sree R.M.
45	23-CT-45	S. Prabha Devi	S. Prabha Devi
46	23-CT-46	N. Ramyakrishnan	N. Ramyakrishnan
47	23-CT-47	U. Safana	U. Safana
48	23-CT-48	B. Sakthi	B. Sakthi
49	23-CT-49	A. Sangeerthana	A. Sangeerthana
50	23-CT-50	M. Sarveshini	M. Sarveshini
51	23-CT-51	R. K. Siva Priya	R.K. Siva Priya
52	23-CT-52	R. Siva Priya	R. Siva Priya
53	23-CT-53	S. Sree Mahalakshmi	S. Sree Mahalakshmi
54	23-CT-54	M. Sriharini	M. Sriharini
55	23-CT-55	R. Suguna devi	R. Suguna devi
56	23-CT-56	M. Trishana	M. Trishana
57	23-CT-57	R. Udhaya Chandrika	R. Udhaya Chandrika
58	23-CT-58	V. Vanitha	V. Vanitha
59	23-CT-59	A. S. R. Varshini	A.S.R. Varshini
60	23-CT-60	S.S. Yasmine	S.S. Yasmine

Counter Signature

S. No.	Course Code	Course Name	Course in charge/Staff Name	Signature
1	23UCT204	CC III: Java programming	Ms. A. Kalaivani	[Signature]
2	23UCT205	CC IV: DataStructures	Ms. K. S. Leelavathi	[Signature]
3	23UCT2A1	GE II - Allied II: Mathematics II - Operations Research	Ms. C. Keerthana	[Signature]
4	23UCT206	CC Lab II: Java programming Lab	Ms. A. Kalaivani	[Signature]
5	23UCT2S1	SEC I: Naan Mudhalvan: Advanced Excel Lab	Dr. M. Rajasenathipathi	[Signature]
6	23EVS201	AECC I: Environmental Studies	Ms. A. Kalaivani	[Signature]


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2.6.1 PROGRAMME OUTCOMES AND COURSE OUTCOME
COMMUNICATED TO STUDENTS

Programme outcome and Course outcome of the programme B.Sc. Computer Technology is informed to students on the first day 04.12.2023 of the academic year 2023-24

For the semester IV Class II Year B.Sc. CT (Batch:2022-25)

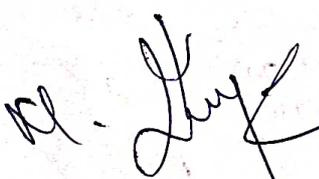
S.	Register	Name of the Student	Signature of the
1.	22-CT-01	M. Aathiswaran	Aathiswaran
2.	22-CT-02	P. Arun	Arun
3.	22-CT-03	A. Bhaskaran	A. Bhaskaran
4.	22-CT-04	M. Deepak	Deepak
5.	22-CT-05	M. GnanaSeelan	M. GnanaSeelan
6.	22-CT-06	A.Gokula Krishnan	A.Gokula Krishnan
7.	22-CT-07	M.A. Kaleel Ahamed	M.A. Kaleel Ahamed
8.	22-CT-08	N. Karthik Raj	N. Karthik Raj
9.	22-CT-09	S. Karupasamy Gowtham	S. Karupasamy Gowtham
10.	22-CT-10	B. Kavin	B. Kavin
11.	22-CT-11	S. Mahash Raghav	S. Mahash Raghav
12.	22-CT-12	A. Maheshwaran	A. Maheshwaran
13.	22-CT-13	M. Manikandan	M. Manikandan
14.	22-CT-14	B. Mohamed Riyaz	B. Mohamed Riyaz
15.	22-CT-15	S. Parathasarathi	S. Parathasarathi
16.	22-CT-16	B. Pranesh	B. Pranesh
17.	22-CT-17	M. Praveen Kumar	M. Praveen Kumar
18.	22-CT-18	N.Poovarasam	N. Poovarasam
19.	22-CT-19	P. Ragavan	P. Ragavan
20.	22-CT-20	M. Rakesh	M. Rakesh
21.	22-CT-21	S. Rokith	S. Rokith
22.	22-CT-22	N. Sakthivel	N. Sakthivel
23.	22-CT-23	S. SelvaKumar	S. SelvaKumar
24.	22-CT-24	K. Tamil Selvan	K. Tamil Selvan
25.	22-CT-25	V. Varatharaj	V. Varatharaj

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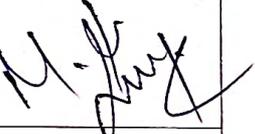
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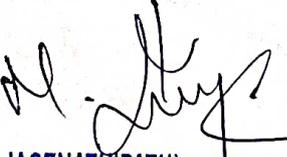
26.	22-CT-27	M. Vignesh	M. Vignesh
27.	22-CT-28	S. Vignesh	S. Vignesh
28.	22-CT-29	P. Vinoth Kumar	P. Vinoth Kumar
29.	22-CT-30	S. Vishnuram	S. Vishnuram
30.	22-CT-31	N. Yuvaneshwaran	N. Yuvaneshwaran
31.	22-CT-32	C. J. Akshaya	C. J. Akshaya
32.	22-CT-33	M. Arul Malini	M. Arul Malini
33.	22-CT-34	H. Barkathunnisha	H. Barkathunnisha
34.	22-CT-35	K. Brindha Shree	K. Brindha Shree
35.	22-CT-37	S. Dharshini	S. Dharshini
36.	22-CT-38	S. Dharshini Sri	S. Dharshini Sri
37.	22-CT-39	P. Gopika	P. Gopika
38.	22-CT-40	M. Karthika	M. Karthika
39.	22-CT-41	P. Kavitha	P. Kavitha
40.	22-CT-42	T. Kaviya	T. Kaviya
41.	22-CT-43	R. Lakshmi priya	R. Lakshmi priya
42.	22-CT-44	L. Lavanya	L. Lavanya
43.	22-CT-45	K. Madhumathi	K. Madhumathi
44.	22-CT-46	B. Mudhu Mithaa	B. Mudhu Mithaa
45.	22-CT-47	M. Moomina	M. Moomina
46.	22-CT-48	K. Muthu Latha	K. Muthu Latha
47.	22-CT-49	B. Pradhiksha	B. Pradhiksha
48.	22-CT-50	V.K. Praveena	V.K. Praveena
49.	22-CT-51	P. Rithika	P. Rithika
50.	22-CT-52	S. Safrin banu	S. Safrin banu
51.	22-CT-53	J. Sandhya	J. Sandhya
52.	22-CT-54	S. Saraswathi	S. Saraswathi
53.	22-CT-55	A. Shivanaya	A. Shivanaya
54.	22-CT-56	G. Sivapriya	G. Sivapriya
55.	22-CT-57	P. Sreenithi	P. Sreenithi
56.	22-CT-58	R. Thanga Sangeetha	R. Thanga Sangeetha
57.	22-CT-59	P. Vaishnavi	P. Vaishnavi

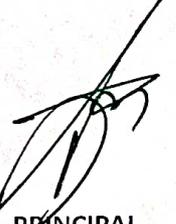

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Counter Signature

S. No.	Course Code	Course Name	Course in charge/Staff Name	Signature
1	22UCT411	Core Course VII: Python Programming	DR. R. JAYAPRAKASH	
2	22UCT412	Core Course VIII: Linux And Shell Programming	DR. M. RAJASENATHIPATHI	
3	22UCT4A4	GE IV : Allied IV: Data Communication And Networks	DR. M. RAJASENATHIPATHI & Ms. K. S. LEELAVATHI	
4	22UCT413	Core Course Lab - V: Python Programming Lab	DR. R. JAYAPRAKASH	
5	22UCT414	Core Course Lab - VI : Linux And Shell Programming Lab	DR. M. RAJASENATHIPATHI	
6	23UCT4S1	SEC II: Naan Mudhalvan : Desktop Publishing Lab	Ms. K. S. LEELAVATHI	
7	22UCT4N3	Non-Major Elective II – Office Automation Lab	DR. M. RAJASENATHIPATHI	


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NGMC

2.6.1 PROGRAMME OUTCOMES AND COURSE OUTCOME
COMMUNICATED TO STUDENTS

Programme outcome and Course outcome of the programme B.Sc. Computer Technology is informed to students on the first day 04.12.23 of the academic year 2023-24

For the semester VI Class III Year B.Sc. CT

S.	Register	Name of the Student	Signature of the student
1.	21-CT-01	Ajay. P	P. Ajay
2.	21-CT-02	Akash. D	Akash D
3.	21-CT-05	Dhanasekar. E	E. Dhanasekar
4.	21-CT-06	Dharanidharan. S. R	Dharanidharan S.R
5.	21-CT-07	Dheenadhayalan. C	Dheenadhayalan C
6.	21-CT-08	Dinesh kumar. S	S. Dinesh
7.	21-CT-09	Dinesh kumar V.S	V.S. Dinesh
8.	21-CT-10	Ganesh kumar. K	Ganesh Kumar K
9.	21-CT-11	Gokul.H	H. Gokul
10.	21-CT-12	Janarthanan. B	Janarthanan. B
11.	21-CT-14	Kavieswaran. S	S. Kavieswaran
12.	21-CT-15	Kaviyarasu. S	S. Kaviyarasu
13.	21-CT-16	Mohammed asick. S	S. Mohammed Asick
14.	21-CT-17	Mohammed Ilyash. A	A. Mohammed Ilyash
15.	21-CT-19	Praveen. S	S. Praveen
16.	21-CT-20	Rakesh. G	G. Rakesh
17.	21-CT-21	Sabarigiri. M	M. Sabarigiri
18.	21-CT-22	Santhosh Kumar. P	P. Santhosh
19.	21-CT-23	Sathiyajananan. S.J	S. Sathiyajananan
20.	21-CT-24	Sherif. S	S. Sherif
21.	21-CT-25	Shivamani. M	M. Shivamani
22.	21-CT-27	Sridhar. K	K. Sridhar
23.	21-CT-28	Sukeesh Kuamr. M	M. Sukeesh
24.	21-CT-29	Tamilarasan. G	G. Tamilarasan
25.	21-CT-30	Vignesh. S	S. Vignesh

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26.	21-CT-31	Akshaya. M	Akshaya. M
27.	21-CT-32	Arthika. G	Arthika. G
28.	21-CT-33	Ashifa. M	Ashifa. M
29.	21-CT-35	Indhumathi. S	Indhu
30.	21-CT-37	Kavipriya. R	Kavipriya. R.
31.	21-CT-38	Nithiya. G	Nithiya
32.	21-CT-39	Nithya selvi. S	Nithya
33.	21-CT-40	Suraksha. R	Suraksha. R

Counter Signature

S. No.	Course Code	Course Name	Course in charge/Staff Name	Signature
1	21UCT621	CORE COURSE- XIII : Framework Technology	Ms. C. Keerthana	C. Keerthana
2	21UCT6E1	DSE- II : Mobile Computing	Ms. K. S. Leelavathi	K. S. Leelavathi
3	21UCT 6E4	DSE - III : Artificial Intelligence	Dr. R. Jayaprakash	Dr. R. Jayaprakash
4	21UCT622	CORE COURSE Lab - IX : Framework Technology	Ms. C. Keerthana	C. Keerthana
5	21UCT623	Project	All Staffs	1. M. Jeyapriya 2. S. Jeyapriya 3. K. S. Leelavathi 4. P. S. Leelavathi 5. S. Jeyapriya
6	21UCT6S1	SEC : Naan Mudhalvan -II: Data Analytics (Big Data) Lab	Dr. R. Jayaprakash	Dr. R. Jayaprakash


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Pollachi



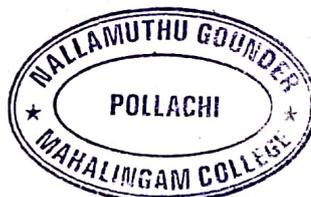
**2.6.1 PROGRAMME OUTCOMES AND COURSE OUTCOME
COMMUNICATED TO STUDENTS**

Programme outcome and Course outcome of the programme B.Sc. Computer Technology is informed to students on the first day 26.6.23 of the academic year 2023-24

For the semester V Class III Year B.Sc. CT

S.	Register	Name of the Student	Signature of the
1.	21-CT-01	Ajay. P	P. Jay
2.	21-CT-02	Akash. D	D. Akash
3.	21-CT-05	Dhanasekar. E	E. Dhanasekar
4.	21-CT-06	Dharanidharan. S. R	S. R. Dharanidharan
5.	21-CT-07	Dheenadhayalan. C	C. Dheenadhayalan
6.	21-CT-08	Dinesh kumar. S	S. Dinesh Kumar
7.	21-CT-09	Dinesh kumar V.S	V. S. Dinesh Kumar
8.	21-CT-10	Ganesh kumar. K	K. Ganesh Kumar
9.	21-CT-11	Gokul.H	H. Gokul
10.	21-CT-12	Janarthanan. B	B. Janarthanan
11.	21-CT-14	Kavieswaran. S	S. Kavieswaran
12.	21-CT-15	Kaviyarasu. S	S. Kaviyarasu
13.	21-CT-16	Mohammed asick. S	S. Mohammed Asick
14.	21-CT-17	Mohammed Ilyash. A	A. Mohammed Ilyash
15.	21-CT-19	Praveen. S	S. Praveen
16.	21-CT-20	Rakesh. G	G. Rakesh
17.	21-CT-21	Sabarigiri. M	M. Sabarigiri
18.	21-CT-22	Santhosli Kumar. P	P. Santhosli Kumar
19.	21-CT-23	Sathiyajananan. S.J	S. J. Sathiyajananan
20.	21-CT-24	Sherif. S	S. Sherif
21.	21-CT-25	Shivamani. M	M. Shivamani
22.	21-CT-27	Sridhar. K	K. Sridhar
23.	21-CT-28	Sukeesh Kuamr. M	M. Sukeesh Kuamr
24.	21-CT-29	Tamilarasan. G	G. Tamilarasan
25.	21-CT-30	Vignesh. S	S. Vignesh

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Coimbatore District

26.	21-CT-31	Akshaya. M	<i>Akshaya . M</i>
27.	21-CT-32	Arthika. G	<i>Arthika . G</i>
28.	21-CT-33	Ashifa. M	<i>Ashifa</i>
29.	21-CT-35	Indhumathi. S	<i>Indu S</i>
30.	21-CT-37	Kavipriya. R	<i>Kavipriya</i>
31.	21-CT-38	Nithiya. G	<i>Nithiya G</i>
32.	21-CT-39	Nithya selvi. S	<i>Nithya Selvi S</i>
33.	21-CT-40	Suraksha. R	<i>Suraksha R</i>

Counter Signature

S. No.	Course Code	Course Name	Course in charge/Staff Name	Signature
1	21 UCT 517	Core Course XI: OPEN SOURCE TECHNOLOGIES (PHP and MYSQL)	MS. C. KEERTHANA	<i>C. K.</i>
2	21 UCT 518	Core Course XII: INFORMATION SECURITY	DR. R. JAYAPRAKASH	<i>R. Jayaprakash</i>
3	21UCT 5E1	DSE I : CLOUD COMPUTING	DR. M. RAJASENATHIPATHI & MS. K. S. LEELAVATHI	<i>M. Rajasenathipathi</i>
4	21 UCT 519	Core Course LAB -VII: OPEN SOURCE TECHNOLOGIES	MS. C. KEERTHANA	<i>C. K.</i>
5	21UCT 520	Core Course LAB - VIII: WEB DESIGNING	MS. K. S. LEELAVATHI	<i>K. S. Leelavathi</i>
6	21 UCT 5S1	SKILL BASED MAJOR ELECTIVE I - PYTHON LAB	DR. R. JAYAPRAKASH	<i>R. Jayaprakash</i>

M. Rajasenathipathi

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R. Muthukumar

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Pollachi



**2.6.1 PROGRAMME OUTCOMES AND COURSE OUTCOME
COMMUNICATED TO STUDENTS**

Programme outcome and Course outcome of the programme B.Sc. Computer Technology is informed to students on the first day 26.6.23 of the academic year 2023-24

For the semester III Class II Year B.Sc. CT (Batch:2022-25)

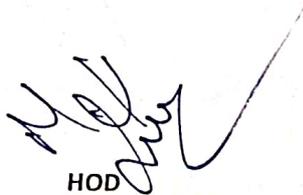
S.	Register	Name of the Student	Signature of the student
1.	22-CT-01	M. Aathiswaran	Aathiswaran
2.	22-CT-02	P. Arun	P. Arun
3.	22-CT-03	A. Bhaskaran	Bhaskaran
4.	22-CT-04	M. Deepak	M. Deepak
5.	22-CT-05	M. GnanaSeelan	M. GnanaSeelan
6.	22-CT-06	A.Gokula Krishnan	A.Gokula
7.	22-CT-07	M.A. Kaleel Ahamed	M.A. Kaleel Ahamed
8.	22-CT-08	N. Karthik Raj	N. Karthik Raj
9.	22-CT-09	S. Karupasamy Gowtham	S. Karupasamy Gowtham
10.	22-CT-10	B. Kavin	Kavin
11.	22-CT-11	S. Mahash Raghav	Mahash Raghav
12.	22-CT-12	A. Maheshwaran	Maheshwaran
13.	22-CT-13	M. Manikandan	Manikandan
14.	22-CT-14	B. Mohamed Riyaz	B. Mohamed riyaz
15.	22-CT-15	S. Parathasarathi	S. Parathasarathi
16.	22-CT-16	B. Pranesh	PRANESH.B
17.	22-CT-17	M. Praveen Kumar	M. Praveen Kumar
18.	22-CT-18	N.Poovarasam	N. Poovarasam
19.	22-CT-19	P. Ragavan	P. Ragavan
20.	22-CT-20	M. Rakesh	M. Rakesh
21.	22-CT-21	S. Rokit	S. Rokit
22.	22-CT-22	N. Sakthivel	N. Sakthivel.
23.	22-CT-23	S. SelvaKumar	S. Selva Kumar
24.	22-CT-24	K. Tamil Selvan	Tamil Selvan
25.	22-CT-25	V. Varatharaj	Varatharaj

HOD
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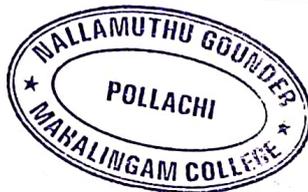


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26.	22-CT-27	M. Vignesh	M. Vignesh
27.	22-CT-28	S. Vignesh	S. Vignesh
28.	22-CT-29	P. Vinoth Kumar	P. Vithu
29.	22-CT-30	S. Vishnuram	S. V
30.	22-CT-31	N. Yuvaneshwaran	N. Yuvaneshwaran
31.	22-CT-32	C. J. Akshaya	Akshaya C. J.
32.	22-CT-33	M. Arul Malini	Arul Malini
33.	22-CT-34	H. Barkathunnisha	Barkathunnisha
34.	22-CT-35	K. Brindha Shree	Brindha Shree
35.	22-CT-37	S. Dharshini	Dharshini
36.	22-CT-38	S. Dharshini Sri	Dharshini Sri
37.	22-CT-39	P. Gopika	P. Gopika
38.	22-CT-40	M. Karthika	Karthika M.
39.	22-CT-41	P. Kavitha	P. Kavitha
40.	22-CT-42	T. Kaviya	T. Kaviya
41.	22-CT-43	R. Lakshmi priya	Lakshmi Priya
42.	22-CT-44	L. Lavanya	L. Lavanya
43.	22-CT-45	K. Madhumathi	K. Madhumathi
44.	22-CT-46	B. Mudhu Mithaa	B. Madhumitha
45.	22-CT-47	M. Moomina	M. Moomina
46.	22-CT-48	K. Muthu Latha	Muthu Latha
47.	22-CT-49	B. Pradhiksha	B. Pradhiksha
48.	22-CT-50	V.K. Praveena	V.K. Praveena
49.	22-CT-51	P. Rithika	P. Rithika
50.	22-CT-52	S. Safrin banu	S. Safrin banu
51.	22-CT-53	J. Sandhya	J. Sandhya
52.	22-CT-54	S. Saraswathi	S. Saraswathi
53.	22-CT-55	A. Shivanyaa	A. Shivanyaa
54.	22-CT-56	G. Sivapriya	G. Sivapriya
55.	22-CT-57	P. Sreenithi	P. Sreenithi
56.	22-CT-58	R. Thanga Sangeetha	R. Thanga Sangeetha
57.	22-CT-59	P. Vaishnavi	P. Vaishnavi


HOD

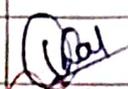
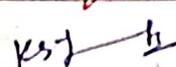
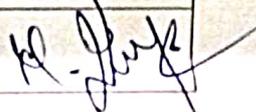
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Counter Signature

S. No.	Course Code	Course Name	Course in charge/Staff Name	Signature
1	22UCT307	Core Course V: Advance Java Programming	MS. A. KALAIVANI	
2	22UCT308	Core Course VI: Database Management System	DR. R. JAYAPRAKASH	
3	22UCT3A3	GE: Allied - III : Software Engineering	MS. K. S. LEELAVATHI	
4	22UCT309	Core Course Lab - III : Advance Java Programming Lab	MS. A. KALAIVANI	
5	22UCT310	Core Course Lab-IV: Database Management System Lab	DR. R. JAYAPRAKASH	
6	22UCT3N1	Non Major Elective - I : HTML Lab	DR. M. RAJASENATHIPATHI	


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Pollachi



**2.6.1 PROGRAMME OUTCOMES AND COURSE OUTCOME
COMMUNICATED TO STUDENTS**

Programme outcome and Course outcome of the programme B.Sc., Computer Technology is informed to students on the first day 03.07.2023 of the academic year 2023-2024

For the semester I Class Ist year B. Sc., CT.

S. No.	Register number	Name of the Student	Signature of the student
1	23-CT-01	T. Ajay Kumar	T. Ajay Kumar
2	23-CT-02	A. Aswin	A. Aswin
3	23-CT-03	S. Azhagu Sowbaran	S. Azhagu Sowbaran
4	23-CT-04	R. Gowthaman	R. Gowthaman
5	23-CT-05	M. Harihara Priyan	M. Harihara Priyan
6	23-CT-06	T. Hari Krishnan	T. Hari Krishnan
7	23-CT-07	T. Jaya Balaji	T. Jaya Balaji
8	23-CT-08	S. Karthik Kumar	S. Karthik Kumar
9	23-CT-09	R. Loganathan	R. Loganathan
10	23-CT-10	M. Karthikeyan	M. Karthikeyan
11	23-CT-11	S. Maheswaran	S. Maheswaran
12	23-CT-12	N. Manoj Kumar	N. Manoj Kumar
13	23-CT-13	M. Mathavan	M. Mathavan
14	23-CT-14	M. Parameshwaran	M. Parameshwaran
15	23-CT-15	K. Ragul	K. Ragul
16	23-CT-16	S. Sanjay	S. Sanjay
17	23-CT-17	R. Santhosh Kumar	R. Santhosh Kumar
18	23-CT-18	M. Shamalasarath	M. Shamalasarath
19	23-CT-19	B. K. Subikshan	B. K. Subikshan
20	23-CT-20	S. Vasantha Kumar	S. Vasantha Kumar
21	23-CT-21	V. Vikram	V. Vikram
22	23-CT-22	Washif Faiz. M	Washif Faiz. M
23	23-CT-23	V. Abinaya Sri	V. Abinaya Sri
24	23-CT-24	P. Abinaya Sri	P. Abinaya Sri
25	23-CT-25	R. Agalya	R. Agalya
26	23-CT-26	R. Akila	R. Akila
27	23-CT-27	M. Akshaya	M. Akshaya
28	23-CT-28	A. Arbina Khatun	A. Arbina Khatun
29	23-CT-29	V. Backiyalakshmi	V. Backiyalakshmi
30	23-CT-30	M. Bharathi	M. Bharathi
31	23-CT-31	R. Chithirai Selvi	R. Chithirai Selvi

HOD
Dr. M. RAJASENATHIPATHI

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Coimbatore District

32	23-CT-32	V. Dhanu Sri	V. Dhanu Sri
33	23-CT-33	T. S. Dhanush Mathi	T. S. Dhanush Mathi
34	23-CT-34	E. Dhanush Mathi	E. Dhanush Mathi
35	23-CT-35	R. B. Dhanushana	Dhanushana RB
36	23-CT-36	A. Fathima Thaseem	A. Fathima Thaseem
37	23-CT-37	G. Hemavarshini	Hemavarshini G.
38	23-CT-38	K. M. Deepika	K. M. Deepika
39	23-CT-39	M. Kalavani	Kalavani M
40	23-CT-40	V. Madhumitha	V. Madhumitha
41	23-CT-41	C. Mahalakshmi	C. Mahalakshmi
42	23-CT-42	K. Mohana	K. Mohana
43	23-CT-43	T. Mohana Valli	T. Mohana Valli
44	23-CT-44	R. M. Nitya Sree	R. M. Nitya Sree
45	23-CT-45	S. Prabha Devi	S. Prabha Devi
46	23-CT-46	N. Ramyakrishnan	N. Ramya Krishnan
47	23-CT-47	U. Safana	U. Safana
48	23-CT-48	B. Sakthi	B. Sakthi
49	23-CT-49	A. Sangeerthana	A. Sangeerthana
50	23-CT-50	M. Sarveshini	M. Sarveshini
51	23-CT-51	R. K. Siva Priya	R. K. Siva Priya
52	23-CT-52	R. Siva Priya	R. Siva Priya
53	23-CT-53	S. Sree Mahalakshmi	S. Sree Mahalakshmi
54	23-CT-54	M. Sriharini	M. Sriharini
55	23-CT-55	R. Suguna devi	R. Suguna devi
56	23-CT-56	M. Trishana	M. Trishana
57	23-CT-57	R. Udhaya Chandrika	R. Udhaya Chandrika
58	23-CT-58	V. Vanitha	V. Vanitha
59	23-CT-59	A. S. R. Varshini	A. S. R. Varshini
60	23-CT-60	S.S. Yasmine	S.S. Yasmine

Counter Signature

S. No.	Course Code	Course Name	Course in charge/Staff Name	Signature
1	23UCT101	CC I: Programming in C	Dr. M. Rajasenathipathi	M. Rajasenathipathi
2	23UCT102	CC II: Digital Fundamentals and Computer Organization	Ms. C. Keerthana	C. Keerthana
3	23UCT1A1	GE I - Allied I: Mathematics - I: Mathematical Structures For Computer Science	Ms. K. S. Leelavathi	K. S. Leelavathi
4	23UCT103	CC Lab I: Programming in C	Dr. M. Rajasenathipathi	M. Rajasenathipathi
5	23EVS201	AECC I: Environmental Studies	Ms. A. Kalavani	A. Kalavani

M. Rajasenathipathi
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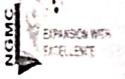


R. Muthukumar
PRINCIPAL

Dr. R. MUTHUKUMARAN,
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PRINCIPAL
N.G.M. College, Pollachi - 642 601
Coimbatore District



NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
Pollachi

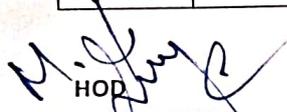


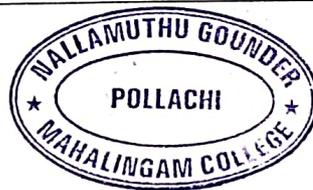
**2.6.1 PROGRAMME OUTCOMES AND COURSE OUTCOME
COMMUNICATED TO STUDENTS**

Programme outcome and Course outcome of the programme B.Sc. Computer Technology is informed to students on the first day 28.12.22 of the academic year 2022-23

For the semester IV Class II Year B.Sc. CT

S.No	Register	Name of the Student	Signature of the student
1.	21-CT-01	Ajay. P	Ajay P
2.	21-CT-02	Akash. D	Akash D
3.	21-CT-05	Dhanasekar. E	E. Dhanasekar
4.	21-CT-06	Dharanidharan. S. R	S. R. Dharanidharan
5.	21-CT-07	Dheenadhayalan. C	C. Dheenadhayalan
6.	21-CT-08	Dinesh kumar. S	S. Dinesh Kumar
7.	21-CT-09	Dinesh kumar V.S	V. S. Dinesh Kumar
8.	21-CT-10	Ganesh kumar. K	K. Ganesh Kumar
9.	21-CT-11	Gokul.H	H. Gokul
10.	21-CT-12	Janarthanan. B	B. Janarthanan
11.	21-CT-14	Kavieswaran. S	S. Kavieswaran
12.	21-CT-15	Kaviyarasu. S	S. Kaviyarasu
13.	21-CT-16	Mohammed asick. S	S. Mohammed Asick
14.	21-CT-17	Mohammed Ilyash. A	A. Mohammed Ilyash
15.	21-CT-19	Praveen. S	S. Praveen
16.	21-CT-20	Rakesh. G	G. Rakesh
17.	21-CT-21	Sabarigiri. M	M. Sabarigiri
18.	21-CT-22	Santhosh Kumar. P	P. Santhosh Kumar
19.	21-CT-23	Sathiyajananan. S.J	S. J. Sathiyajananan
20.	21-CT-24	Sherif. S	S. Sherif
21.	21-CT-25	Shivamani. M	M. Shivamani
22.	21-CT-27	Sridhar. K	K. Sridhar
23.	21-CT-28	Sukeesh Kuamr. M	M. Sukeesh Kumar
24.	21-CT-29	Tamilarasan. G	G. Tamilarasan
25.	21-CT-30	Vignesh. S	S. Vignesh


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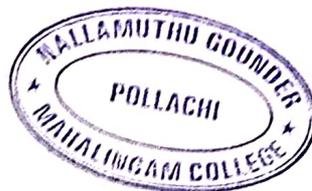



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Coimbatore District

26.	21-CT-31	Akshaya. M	Akshaya
27.	21-CT-32	Arthika. G	Arthika G.
28.	21-CT-33	Ashifa. M	Ashifa. M
29.	21-CT-35	Indhumathi. S	Indhumathi. S
30.	21-CT-37	Kavipriya. R	Kavipriya. R
31.	21-CT-38	Nithiya. G	Nithiya
32.	21-CT-39	Nithya selvi. S	Nithya selvi. S
33.	21-CT-40	Suraksha. R	Suraksha. R

Counter Signature

S. No.	Course Code	Course Name	Course in charge/Staff Name	Signature
1	21 UCT 412	CORE VIII: ADVANCED JAVA PROGRAMMING	MS. C. KEERTHANA	C. Keethana
2	21 UCT 413	CORE IX: LINUX AND SHELL PROGRAMMING	DR. M. RAJASENATHIPATHI	M. Rajasenathipathi
3	21 UCT 414	CORE X: DATA COMMUNICATION AND NETWORKS	DR. R. JAYAPRAKASH	R. Jayaprakash
4	21 UCT 4A4	ALLIED IV: BIG DATA MANAGEMENT	MS.A. KALAIVANI	Kalaivani
5	21 UCT 415	LAB - V: ADVANCED JAVA PROGRAMMING	MS. C. KEERTHANA	C. Keethana
6	21 UCT 416	LAB - VI : LINUX AND SHELL PROGRAMMING LAB	DR. M. RAJASENATHIPATHI	M. Rajasenathipathi
7	21 UCT 4H1	SKILL BASED NON-MAJOR ELECTIVE II - OFFICE AUTOMATION LAB	DR. R. JAYAPRAKASH	R. Jayaprakash

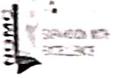


HON.
Dr. M. RAJASENATHIPATHI M.A. MCA M.Phil. Ph.D.,
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NALLAMUTHU GOUNDER MAHALINGAM COLLEGE
Pollachi



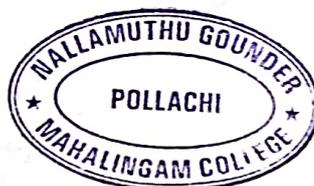
**2.6.1 PROGRAMME OUTCOMES AND COURSE OUTCOME
COMMUNICATED TO STUDENTS**

Programme outcome and Course outcome of the programme B.Sc. Computer Technology is informed to students on the first day 28.12.22 of the academic year 2022-23 .

For the semester II Class I Year B.Sc. CT (Batch: 2022-25)

S.No	Register	Name of the Student	Signature of the student
1.	22-CT-01	M. Aathiswaran	M. Aathiswaran
2.	22-CT-02	P. Arun	P. Arun
3.	22-CT-03	A. Bhaskaran	A. Bhaskaran
4.	22-CT-04	M. Deepak	M. Deepak
5.	22-CT-05	M. GnanaSeelan	M. GnanaSeelan
6.	22-CT-06	A.Gokula Krishnan	A.Gokula Krishnan
7.	22-CT-07	M.A. Kaleel Ahamed	M.A. Kaleel Ahamed
8.	22-CT-08	N. Karthik Raj	N. Karthik Raj
9.	22-CT-09	S. Karupasamy Gowtham	S. Karupasamy Gowtham
10.	22-CT-10	B. Kavin	B. Kavin
11.	22-CT-11	S. Mahash Raghav	S. Mahash Raghav
12.	22-CT-12	A. Maheshwaran	A. Maheshwaran
13.	22-CT-13	M. Manikandan	M. Manikandan
14.	22-CT-14	B. Mohamed Riyaz	B. Mohamed Riyaz
15.	22-CT-15	S. Parathasarathi	S. Parathasarathi
16.	22-CT-16	B. Pranesh	B. Pranesh
17.	22-CT-17	M. Praveen Kumar	M. Praveen Kumar
18.	22-CT-18	N.Poovarasam	N. Poovarasam
19.	22-CT-19	P. Ragavan	P. Ragavan
20.	22-CT-20	M. Rakesh	M. Rakesh
21.	22-CT-21	S. Rokit	S. Rokit
22.	22-CT-22	N. Sakthivel	N. Sakthivel
23.	22-CT-23	S. SelvaKumar	S. SelvaKumar
24.	22-CT-24	K. Tamil Selvan	K. Tamil Selvan
25.	22-CT-25	V. Varatharaj	V. Varatharaj

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26.	22-CT-27	M. Vignesh	M. Vignesh
27.	22-CT-28	S. Vignesh	S. Vignesh
28.	22-CT-29	P. Vinoth Kumar	P. Vinod Kumar
29.	22-CT-30	S. Vishnuram	S. Vishnuram
30.	22-CT-31	N. Yuvaneshwaran	N. Yuvaneshwaran
31.	22-CT-32	C. J. Akshaya	C. J. Akshaya
32.	22-CT-33	M. Arul Malini	M. Arul Malini
33.	22-CT-34	H. Barkathunnisha	H. Barkathunnisha
34.	22-CT-35	K. Brindha Shree	Brindha Shree
35.	22-CT-37	S. Dharshini	S. Dharshini
36.	22-CT-38	S. Dharshini Sri	S. Dharshini Sri
37.	22-CT-39	P. Gopika	P. Gopika
38.	22-CT-40	M. Karthika	Karthika
39.	22-CT-41	P. Kavitha	P. Kavitha
40.	22-CT-42	T. Kaviya	T. Kaviya
41.	22-CT-43	R. Lakshmi priya	Lakshmi Priya
42.	22-CT-44	L. Lavanya	L. Lavanya
43.	22-CT-45	K. Madhumathi	K. Madhumathi
44.	22-CT-46	B. Madhu Mithaa	B. Madhumitha
45.	22-CT-47	M. Moomina	M. Moomina
46.	22-CT-48	K. Muthu Latha	Muthu Latha
47.	22-CT-49	B. Pradhiksha	Pradhiksha
48.	22-CT-50	V.K. Praveena	V.K. Praveena
49.	22-CT-51	P. Rithika	P. Rithika
50.	22-CT-52	S. Safrin banu	S. Safrin banu
51.	22-CT-53	J. Sandhya	J. Sandhya
52.	22-CT-54	S. Saraswathi	S. Saraswathi
53.	22-CT-55	A. Shivanyaa	A. Shivanyaa
54.	22-CT-56	G. Sivapriya	G. Sivapriya
55.	22-CT-57	P.Sreenithi	P. Sreenithi
56.	22-CT-58	R. Thanga Sangeetha	R. Thanga Sangeetha
57.	22-CT-59	P. Vaishnavi	P. Vaishnavi


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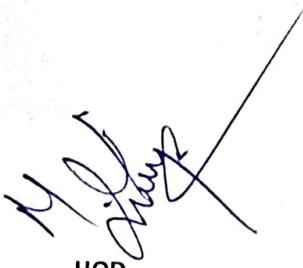


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S. No.	Course Code	Course Name	Course In Charge/Staff Name	Signature
1	22UCT204	CORE III: JAVA PROGRAMMING	MS.A. KALAIVANI	
2	22UCT205	CORE - IV :DATA STRUCTURES	DR. R. JAYAPRAKASHI	
3	22UCT2A2	ALLIED - II : MATHEMATICS II - OPERATIONS RESEARCH	MS. K. S. LEELAVATHI	
4	22UCT206	CORE LAB - II : JAVA PROGRAMMING LAB	MS.A. KALAIVANI	
5	22EVS201	ENVIRONMENTAL STUDIES	MS.A. KALAIVANI	



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2021-24

Program Educational Objectives:

PEO1	To develop skilled manpower in the various areas of information technology like Data Base Management, Software Development, Computer-Languages, Software Engineering and Web Based Applications etc.
PEO2	To prepare our graduate to start the career as an Application Developer , Network Administrator , Software Tester, Software Engineer, Junior Programmer, Web Developer.
PEO3	To pursue higher studies such as MCA, M.Sc.Computer Science, M.Sc. Data Science, MBA.
PEO4	To impart high professionalism among the students by providing technical and soft skills with ethical standards.
PEO5	To encourage students for research activities and entrepreneurial skills by inculcating interactive quality teaching and organizing symposiums, conferences, seminars, workshops and technical discussions.

Program Outcomes:

PO1	Demonstrate the aptitude of Computer Programming and Computer based problem solving skills.
PO2	Display the knowledge of appropriate theory, practices and tools for the specification, design, implementation
PO3	Ability to link knowledge of Computer Science with other two chosen auxiliary disciplines of study.
PO4	Display ethical code of conduct in usage of Internet and Cyber systems.
PO5	Ability to pursue higher studies of specialization and to take up technical employment.
PO6	Ability to formulate, to model, to design solutions, procedure and to use software tools to solve real world problems and evaluate.
PO7	Ability to operate, manage, deploy, configure computer network, hardware, software operation of an organization.
PO8	Ability to present result using different presentation tools.
PO9	Ability to appreciate emerging technologies and tools.

PO10	The ability to work independently on a substantial software project and as an effective team member.
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Program Specific Outcomes:

PSO - 01	Explore technical knowledge in diverse areas of Computer Science and experience an environment conducive in cultivating skills for successful career, entrepreneurship and higher studies.
PSO - 02	Expertise to face the challenges of changing trends and career opportunities as per local and global industry needs.

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**U.G. Department of Computer Applications
2021-24**

Course Outcomes

21UBC519 - Core - XI : Java Programming

CO Number	CO Statement	Knowledge Level
CO1	Remember the structure and significance of the Java Programming Language.	K1
CO2	Acquire the knowledge about Java Programming Language for various programming technologies.	K2
CO3	Analyze the usage of Inheritance and various Java Components.	K3
CO4	Apply the concept of event handling on AWT and Swing components	K4
CO5	Evaluate the Internet Programming using Java Applets.	K5

21UBC520 - Core - XII :Skill Enhanced Course Software Testing

CO Number	CO Statement	Knowledge Level
CO1	Recollect the fundamental concepts and types in software testing.	K1
CO2	Understand the process of applying tests to software and the basic components of a test case.	K2
CO3	Analyze the automation techniques and use modern testing tools to support software testing projects.	K3
CO4	Develop a test plan by learning its process and components.	K4
CO5	Evaluate the test code and automate test execution.	K5

21UBC5E1 - Core Elective - I : Networks

CO Number	CO Statement	KnowledgeLevel
CO1	Remember computer network basics, network architecture, TCP/IP and OSI reference models.	K1
CO2	Interpret knowledge about essential protocols and their operations.	K2
CO3	Analyze aspects of network security.	K3
CO4	Familiarize the different types of protocols.	K4
CO5	Evaluate detection and correction of errors in transmission.	K5

21UBC5E2 - Core Elective - I : Grid Computing

CO Number	CO Statement	Knowledge Level
CO1	Remember the role of data warehousing and data mining to the decision-support level of organizations	K1
CO2	Understand to differentiate the situations for applying different data mining techniques	K2
CO3	Enhance knowledge to implement different models used for OLAP and data pre-processing	K3
CO4	Able to justify the applicability of grid computing for a specific application.	K4
CO5	Create data mining solutions for different applications.	K5

21UBC5E3 - Core Elective - I : Data Science

CO Number	CO Statement	KnowledgeLevel
CO1	Recollect the fundamentals of Python and R-Programming.	K1
CO2	Understand the basic concepts of Data Wrangling and the process of dataflow.	K2
CO3	Analyze the basic concepts in Natural Language Processing and Neural Networks.	K3
CO4	Learn where to apply Machine Learning and Deep Learning.	K4

CO5	Evaluate ML Algorithms and gain knowledge on Outliers.	K5
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21UBC521- Core Lab - IX: Java Programming

CO Number	CO Statement	KnowledgeLevel
CO1	Understand the concepts of Object-Oriented Programming.	K3
CO2	Visualize and Recognize the concept of Applets and Servlets	K4
CO3	Recognize and apply the elements of interactive user interfaces using the Java Swing class and appropriate layout managers.	K5

21UBC522 - Core Lab - X : Software Testing

CO Number	Co Statement	Knowledge Level
CO1	Understands the Automation testing approach and to write test suites for software	K3
CO2	Generate test cases from software requirements using various test processes for continuous quality improvement	K4
CO3	Develop analyzing techniques through automation testing tool	K5

21UBC5S1 - Skill Based Elective – I: Mobile Phone Services

CO Number	Co Statement	Knowledge Level
CO1	Understand the application and software compatibility with the MobilePhone technologies	K1
CO2	Acquire knowledge about tools and equipment of mobile phone parts	K2
CO3	Analyze Repair and Diagnose Problem of all kinds of faults in MobilePhone in Hardware as well Software	K3
CO4	Identify appropriate tools and manuals for repairing the specific issues	K4
CO5	Explain about Fault finding, troubleshooting and repairing of various faults	K5

21UBC5S2 - Skill Based Elective – I:Internet of Things

CO Number	CO Statement	Knowledge Level
CO1	Learn the concept and significance of IOT and its services.	K1
CO2	Understand the different IOT Technologies like Micro-controller, Wireless communication like Blue Tooth, GPRS, Wi-Fi and Storage and embedded systems	K2
CO3	Deploy and test different protocols and prototypes in IOT.	K3
CO4	Analyze various architecture, operation, and business benefits of an IOT solution.	K4
CO5	Experiment IOT systems and test its connection to the cloud computing, big data and machine learning disciplines.	K5

21UBC624- Core - XIII :Python Programming

CO Number	CO Statement	Knowledge Level
CO1	Remember the fundamental concept of python programming.	K1
CO2	Understand the control flow, Operators and looping statements	K2
CO3	Analyze and develop programs using Functions & modular programming.	K3
CO4	Applying the Errors handling Mechanisms while working with Exception	K4
CO5	Evaluate object oriented features and organize files.	K5

21UBC625 - Core - XIV : Mobile Application Development

CO Number	CO Statement	Knowledge Level
CO1	Remember the history of Android development and what is required to build Android apps.	K1
CO2	Understanding Android application architecture, including the roles of the task stack, activities, and services.	K2
CO3	Utilize rapid prototyping techniques to design and develop sophisticated mobile interfaces.	K3

CO4	Analyze the implementation of messaging and location-based services.	K4
CO5	Evaluate developed app and publish in market.	K5

21UBC6E1 - Core Elective - II : Storage Management

CO Number	CO Statement	Knowledge Level
CO1	Remembering the storage architectures, storage subsystems and variety of storage system environments.	K1
CO2	Understanding different RAID levels and their suitability on different Application environments .	K2
CO3	Analyzing the characteristics and components of Storage Area Networks (SAN).	K3
CO4	Evaluate the components of SAN, Fibre Channel (FC) protocols and topologies, file sharing operations and protocols on Network Attached Storage (NAS).	K4
CO5	Review the different backup, recovery topologies to create their role in providing disaster recovery, types of storage virtualization and file level virtualization .	K5

21UBC6E2 - Core Elective - II : Current Trends And Technologies

CO Number	CO Statement	Knowledge Level
CO1	Explore the research and latest trends in technology	K1
CO2	Get the idea to apply an Objectives and Guidance of Cyber security.	K2
CO3	Analyze the terminology used by SAP ABAP, knowledge of big data and its technologies in Big Data Analytics.	K3
CO4	To keep in mind of Cyber Security Policy and Security Evolution.	K4
CO5	Implement the Data and Knowledge Management and use of Devices in IOT Technology.	K5

21UBC6E3 - Core Elective - II : Information Security

CO Number	CO Statement	Knowledge Level
CO1	Facilitate students to understand the significance of Information Security.	K1
CO2	Help students to gain knowledge about public key encryption, Authentication and hash functions.	K2
CO3	Identify the issues in Network Security and Intrusion Detection and Defensive Programming.	K3
CO4	Analyze the basic understanding of cryptography, how it has evolved, and some key encryption techniques used today.	K4
CO5	Evaluate the security features and Cyber security law in real life situations.	K5

21UBC6E4 - Core Elective – III: Data Mining And Warehousing

CO Number	CO Statement	Knowledge Level
CO1	Recall the concept of data mining, warehousing and knowledge discovery process.	K1
CO2	Understand data pre-processing techniques like cleaning, integration and data transformation strategies.	K2
CO3	Describe the knowledge discovery process and its algorithms including k-nearest neighbour, decision trees, association rules and neural networks.	K3
CO4	Analyze the data modeling, design and implementation of warehousing solutions for emerging internet and cloud environments.	K4
CO5	Evaluate KDD environment by visualizing the reports using various analysis and query tools.	K5

21UBC6E5 - Core Elective – III: Cloud Computing

CO Number	CO Statement	Knowledge Level
CO1	Understand the core concepts of the cloud computing paradigm: how and why this paradigm shift came about, the characteristics, advantages and challenges brought about by the various models and services in cloud computing.	K1
CO2	Demonstrate the fundamental concepts of cloud storage and their use in storage systems such as Amazon S3 (Simple Storage Service) and Microsoft Azure.	K2

CO3	Apply fundamental concepts in cloud infrastructures to understand the tradeoffs in power, efficiency and cost.	K3
CO4	Analyze the performance of Cloud Computing.	K4
CO5	Explain the core issues of Cloud Computing such as security, privacy, and interoperability.	K5

21UBC6E6 - Core Elective – III: Nano Computing

CO Number	Co Statement	Knowledge Level
CO1	Understand the concepts of Nano computing	K1
CO2	Discuss Nano computing challenges and imperfections	K2
CO3	Apply reliability evaluation strategies	K3
CO4	Analyze nano scale quantum computing	K4
CO5	Explain the concept of Molecular Computing and Optimal Computing	K5

21UBC626 - Core Lab - XI : Python Programming

CO Number	CO Statement	Knowledge Level
CO1	Describe the Python language syntax including control statements, loops and functions	K3
CO2	Interpret the concepts of Object-oriented programming as used in Python using encapsulation, polymorphism and inheritance	K4
CO3	Identify the external modules for creating and writing data to excel files and inspect the file operations to navigate the file systems.	K5

21UBC627 - Core Lab - XII : Mobile Application Development

CO Number	CO Statement	KnowledgeLevel
CO1	Build a native application using GUI components and Mobile application development framework.	K3.
CO2	Learn how to develop and deploy an application to the app market.	K4

CO3	Develop useful mobile applications for the current scenario.	K5
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21UBC6S3 - Skill Enhancement Course (SEC) IV: Naan Mudhalvan : Interview Readiness

CO Number	CO Statement	Knowledge Level
CO1	Recollect the communication and interpersonal skills.	K1
CO2	Understand the abilities and competencies.	K2
CO3	Apply the concept of strengthening the skills.	K3
CO4	Analyze the Technical and Case Interviews.	K4
CO5	Evaluate the interview challenges and utilize them for future purpose.	K5

**21UBC6S4 - Skill Enhancement Course (SEC) IV:
Naan Mudhalvan : A 360° Interview Preparation Course**

CO Number	CO Statement	Knowledge Level
CO1	Recollect the types of interviews and companies.	K1
CO2	Understand the personal capabilities.	K2
CO3	Apply the concept of tackling situations.	K3
CO4	Analyze the Technical and Case Interviews.	K4
CO5	Evaluate the confidence and bouncing back.	K5

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Program Educational Objectives:

PEO1	To develop skilled manpower in the various areas of information technology like Data Base Management, Software Development, Computer-Languages, Software Engineering and Web Based Applications etc.
PEO2	To prepare our graduate to start the career as an Application Developer , Network Administrator , Software Tester, Software Engineer, Junior Programmer, Web Developer.
PEO3	To pursue higher studies such as MCA, M.Sc. Computer Science, M.Sc. Data Science, MBA.
PEO4	To impart high professionalism among the students by providing technical and soft skills with ethical standards.
PEO5	To encourage students for research activities and entrepreneurial skills by inculcating interactive quality teaching and organizing symposiums, conferences, seminars, workshops and technical discussions.

Program Outcomes:

PO1	Disciplinary Knowledge -Demonstrate the aptitude of Computer Programming and Computer based problem solving skills.
PO2	Critical Thinking -Display the knowledge of appropriate theory, practices and tools for the specification, design, implementation
PO3	Problem Solving – Ability to link knowledge of Computer Science with other two chosen auxiliary disciplines of study.
PO4	Information/Digital Literacy - Display ethical code of conduct in usage of Internet and Cyber systems.
PO5	Lifelong Learning –Ability to pursue higher studies of specialization and to take up technical employment.
PO6	Analytical Reasoning -Ability to formulate, to model, to design solutions, procedure and to use software tools to solve real world problems and evaluate.
PO7	Scientific Reasoning –Ability to operate, manages, deploy, configure computer network, hardware, software operation of an organization.
PO8	Reflective Thinking –Ability to present result using different presentation tools.
PO9	Multicultural Competence –Ability to appreciate emerging technologies and tools.
PO10	Co-operation/Teamwork –The ability to work independently on a substantial software project and as an effective team member.

Program Specific Outcomes:

PSO-01	Disciplinary Knowledge - Explore technical knowledge in diverse areas of Computer Science and experience an environment conducive in cultivating skills for successful career, entrepreneurship and higher studies.
PSO-02	Life Long Learning -Expertise to face the challenges of changing trends and career opportunities as per local and global industry needs.



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Course Outcomes

22UBC307 - Core V: Relational Database management System and Oracle

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic concepts of Database and Database Management System software	K1
CO2	Understand the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.	K2
CO3	Solve Database problems using Oracle SQL and PL/SQL. This will include the use of Procedures, Functions and Triggers.	K3
CO4	Examine entity relationship and convert entity relationship diagrams into RDBMS and formulate SQL queries on the data.	K4
CO5	Explain the usage of normalization technique and functional dependency in database design.	K5

22UBC308 - Core VI: Operating System & Linux

CO Number	CO Statement	Knowledge Level
CO1	Remember the concept of computer operating systems and its features.	K1
CO2	Understand types and history of operating systems and able to explain modern operating systems and its evolution over the time period.	K2
CO3	Describe how operating systems like Linux and windows will meet the future and real-life needs with respect to efficiency, storage, speed and Security.	K3
CO4	Analyze various operating system functions including memory Management, process management and dead lock prevention strategies.	K4
CO5	Evaluate security, multiprocessing features provided by the Unix operating system using Unix commands, Vi editor and Shell programming.	K5

22UBC3A3 - Allied III: Accountancy For Decision Making

CO Number	CO Statement	Knowledge Level
CO1	Provide the knowledge of accounting theory based on conceptual Framework of accounting.	K1
CO2	Enable students to understand the concept of accounting.	K2
CO3	Impart knowledge accounting in decision making.	K3
CO4	Analyze and interpret accounting related transactions in accordance with Accounting theory.	K4
CO5	Summarize ratio analysis and fund flow statement	K5

22UBC309 - Core Lab - III: Relational Database Management System and Oracle

CO Number	CO Statement	Knowledge Level
CO1	Remember Structured Query Language (SQL) queries using DDL, DML, DCL and TCL commands.	K1
CO2	Understand various queries execution such as relational constraints, joins, set operations, aggregate functions, trigger and views.	K2
CO3	Apply Normalization concepts in a database.	K3
CO4	Analyze the techniques used to design and create Relational Database.	K4
CO5	Evaluate options to make informed decisions that meet data storage, processing and retrieval needs.	K5

22UBC310 - Core Lab- IV: Programming in Linux

CO Number	CO Statement	Knowledge Level
CO1	Apply the various commands in terminal to handle UNIX system files.	K1
CO2	Analyze Linux commands using file and system security	K2
CO3	Discuss shell code in VI editors to solve various problems.	K3
CO4	Analyze and Create file systems and directories	K4

CO5	Distinguish various filter and Pipes commands	K5
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22UBC3N1 - NME - I : Web Designing Lab

CO Number	CO Statement	Knowledge Level
CO1	Recollect the concepts of website Development	K1
CO2	Demonstrate knowledge and skills utilizing various HTML tags for Designing a static webpage.	K2
CO3	Analyze the HTML tags, CSS and JavaScript.	K3
CO4	Recognize and apply the elements of Creating Style Sheet (CSS).	K4
CO5	Develop and incorporate dynamic capabilities in Web pages using JavaScript.	K5

22UBC3N2- NME - I : Desktop Publishing Lab

CO Number	CO Statement	Knowledge Level
CO1	Remember the basic technical and handling tools.	K1
CO2	Understands the various concepts of Photoshop.	K2
CO3	Apply various effects that is suitable to access various formats in this platform for editing.	K3
CO4	Analyze the concepts of different modes in Photoshop.	K4
CO5	Emphasis is placed on desktop concepts desktop applications, learning and working in the desktop environment.	K5

22UBC411- Core VIII: Visual Programming

CO Number	CO Statement	Knowledge Level
CO1	To understand the concepts of the .NET framework as a whole and the technologies that constitutes the framework.	K1
CO2	Knowledge on ADO.NET with ASP.NET for creating web based data centric applications also understand web services.	K2
CO3	Understand the ASP.NET architecture, web server controls ,rich web controls and validation controls, Analyze security management in ASP.NET.	K3
CO4	Use ADO.NET in a web application to read, insert and update data in a database.	K4

22UBC412 - Core IX: Java Programming

CO Number	CO Statement	Knowledge Level
CO1	Remember the structure and significance of the Java Programming Language.	K1
CO2	Acquire the knowledge about Java Programming Language for various programming technologies.	K2
CO3	Apply the concept of Inheritance and various Java Components.	K3
CO4	Analyze the usage of event handling on AWT and Swing components	K4
CO5	Evaluate the Internet Programming using Java Applets.	K5

22UBC4A4 - Allied IV: Mathematics III-Computer Based Optimization Techniques

CO Number	CO Statement	Knowledge Level
CO1	Recollect the modeling and computational tools as well as analytic skills to evaluate the problems.	K1
CO2	Understand and explain the various mathematical formulations.	K2
CO3	Apply Working with Non Linear programming Problems.	K3
CO4	Analyze Linear Programming problem and similar such problems into appropriate forms and problem solving.	K4
CO5	Estimate the problem situation for better decisions.	K5

22UBC413 - Core Lab V: Visual Programming

CO Number	CO Statement	Knowledge Level
CO1	Recollect the ASP.Net applications using standard .net controls	K1
CO2	Understand the decision making statements and user interfacing controls	K2
CO3	Implement and deploy database connection management using ADO.NET	K3
CO4	Analyze simple data binding applications using ADO.Net Connectivity	K4
CO5	Evaluate web-based applications by using various web controls in ASP.NET.	K5

22UBC414 - Core Lab VI: Java Programming

CO Number	CO Statement	Knowledge Level
CO1	Recall the concepts of Object-Oriented Programming.	K1
CO2	Understands the concepts of Multithreading and Method Overriding.	K2
CO3	Apply the concept of Applets and Servlets.	K3

CO4	Analyze the concepts of JMenu, JTabbed Pane and JTree.	K4
CO5	Evaluate the usage of Generic Servlet and HTTP Servlet.	K5

22UBC4S1- SEC II: Naan Mudhalvan: Cloud Computing

CO Number	CO Statement	Knowledge Level
CO1	Recall the concepts of Object-Oriented Programming.	K1
CO2	Understands the concepts of Multithreading and Method Overriding.	K2
CO3	Apply the concept of Applets and Servlets.	K3
CO4	Analyze the concepts of JMenu, JTabbed Pane and JTree.	K4
CO5	Evaluate the usage of Generic Servlet and HTTP Servlet.	K5

22UBC4S1 - SEC II: Naan Mudhalvan: DevOps Foundation

CO Number	CO Statement	Knowledge Level
CO1	Recollect the Concepts of Cloud computing	K1
CO2	Understand the Cloud computing fundamentals.	K2
CO3	Apply the fundamental concepts in datacenters to understand the trade offs in power, efficiency and cost.	K3
CO4	Identify resource management fundamentals, i.e. resource abstraction, sharing and sandboxing and outline their role in managing infrastructure in cloud computing.	K4
CO5	Analyze various cloud programming models and apply them to solve problems on the cloud.	K5

22UBC4N1 - NME - II : Photo Effects Lab

CO Number	CO Statement	Knowledge Level
CO1	Recollect the Concepts of DevOps Foundation	K1
CO2	Understand the DevOps Foundation fundamentals.	K2
CO3	Apply the fundamental concepts in datacenters to understand the tradeoffs in power, efficiency and cost.	K3
CO4	Identify resource management fundamentals	K4
CO5	Analyze various cloud programming models and apply them to solve problems on the DevOps	K5

22UBC4N2 - NME - II : Animation Lab

CO Number	CO Statement	Knowledge Level
CO1	Recollect the basic elements and principles of photo editing software to Achieve a great photo effect by applying effects.	K1
CO2	Understand the important aspects of Adobe Photoshop Elements.	K2
CO3	Construct simple documents utilizing selections, layers and blending modes.	K3
CO4	Analyze color management and correction techniques in Adobe Photoshop.	K4
CO5	Evaluate simple shapes using animation editing software and design Simple animation by applying shape tweens and motion tweens.	K5

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 Coimbatore District

U.G. Department of Computer Applications 2023-24

Program Educational Objectives:

PEO1	To develop skilled manpower in the various areas of information technology like Data Base Management, Software Development, Computer-Languages, Software Engineering and Web Based Applications etc.
PEO2	To prepare our graduate to start the career as an Application Developer , Network Administrator , Software Tester, Software Engineer, Junior Programmer, Web Developer.
PEO3	To pursue higher studies such as MCA, M.Sc. Computer Science, M.Sc. Data Science, MBA.
PEO4	To impart high professionalism among the students by providing technical and soft skills with ethical standards.
PEO5	To encourage students for research activities and entrepreneurial skills by inculcating interactive quality teaching and organizing symposiums, conferences, seminars, workshops and technical discussions.

Program Outcomes:

PO1	Disciplinary Knowledge -Demonstrate the aptitude of Computer Programming and Computer based problem solving skills.
PO2	Critical Thinking -Display the knowledge of appropriate theory, practices and tools for the specification, design, implementation
PO3	Problem Solving - Ability to link knowledge of Computer Science with other two chosen auxiliary disciplines of study.
PO4	Information/Digital Literacy - Display ethical code of conduct in usage of Internet and Cyber systems.
PO5	Lifelong Learning -Ability to pursue higher studies of specialization and to take up technical employment.
PO6	Analytical Reasoning -Ability to formulate, to model, to design solutions, procedure and to use software tools to solve real world problems and evaluate.
PO7	Scientific Reasoning -Ability to operate, manages, deploy, configure computer network, hardware, software operation of an organization.
PO8	Reflective Thinking -Ability to present result using different presentation tools.
PO9	Multicultural Competence -Ability to appreciate emerging technologies and tools.
PO10	Co-operation/Teamwork -The ability to work independently on a substantial software project and as an effective team member.

Program Specific Outcomes:

PSO-01	Disciplinary Knowledge - Explore technical knowledge in diverse areas of Computer Science and experience an environment conducive in cultivating skills for successful career, entrepreneurship and higher studies.
PSO-02	Life Long Learning -Expertise to face the challenges of changing trends and career opportunities as per local and global industry needs.



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U.G. Department of Computer Applications
2023-24

Course Outcomes

23UBC101 – Programming in C

CO Number	CO Statement	Knowledge Level
CO1	Tell the basic terminology used in computer programming	K1
CO2	Understand and debug programs in C language.	K2
CO3	Inference programming concepts such as Arrays, Functions and Structures	K3
CO4	Analyze the dynamics of memory by the use of pointers and Structures.	K4
CO5	Design different data structures and create/ update basic data files.	K5

23UBC102 – Data Structures

CO Number	CO Statement	Knowledge Level
CO1	Remembering the concepts to use linear and non-linear data structures Like stacks, queues, linked list etc.	K1
CO2	Understand and analyze to handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures	K2
CO3	Enhance the knowledge to solve problems like sorting, searching, Insertion and deletion of data Operations.	K3
CO4	Analyze the concepts of trees, graphs and its applications.	K4
CO5	Evaluate to learn a number of algorithm design techniques and to Analyze the efficiency and the accuracy of algorithms.	K5

23UBC1A1- Mathematics:I – Computer Oriented Numerical and Statistical Methods

CO Number	CO Statement	Knowledge Level
CO1	Recall numerical methods to find out the solution of algebraic equations using different methods like Bisection method, Newton Raphson method under different conditions and numerical solution of system of Algebraic equations.	K1
CO2	Understand the properties of Correlation, Regression and compute Karl-Pearson's coefficient of correlation.	K2
CO3	Apply numerical differentiation and Integration whenever and wherever routine methods are not applicable and understand the importance of Interpolation and its application to solve problems for equal intervals and Unequal intervals.	K3
CO4	Analyze the system of linear equations by applying different methodologies.	K4
CO5	Compute and interpret the result so Regression and Correlation Analysis.	K5

23UBC1A2 – Discrete Mathematics- I

CO Number	CO Statement	Knowledge Level
CO1	Ability to apply mathematical logic to solve Problems.	K1
CO2	Understand sets, relations, functions and discrete structures	K2
CO3	Able to use logical notations to define and reason about fundamental mathematical concepts such as sets relations and functions	K3
CO4	Able to formulate problems and solve recurrence relations	K4
CO5	Able to model and solve real world problems using graphs and trees	K5

23UBC103 – Programming in C Lab

CO Number	CO Statement	Knowledge Level
CO1	Remember the structure and significance of the C Programming Language.	K1
CO2	Acquire the knowledge about C Programming for various programming technologies.	K2
CO3	Role of constants, variables, identifiers, operators, type conversion and Other building blocks of C Language.	K3
CO4	Use of conditional expressions and looping statements to solve problems associated with conditions and repetitions.	K4
CO5	Role of Functions involving the idea of modularity.	K5

23UBC204 – Object Oriented Programming with C++

CO Number	CO Statement	Knowledge Level
CO1	Gain the basic knowledge on Object Oriented concepts.	K1
CO2	Ability to demonstrate applications using Object Oriented Programming Concepts	K2
CO3	Develop the differences between traditional imperative design and object-oriented Design	K3
CO4	Examine class structures as fundamental, modular building blocks	K4
CO5	Explain the role of inheritance, polymorphism, dynamic binding and Generic structures in building reusable code.	K5

23UBC205 – Digital Computer Fundamentals

CO Number	CO Statement	Knowledge Level
CO1	Remember how to represent numbers in computers and use problem solving techniques such as flowcharts.	K1
CO2	Acquire knowledge about Boolean algebra and analyze IC digital logic Families.	K2
CO3	Compare various combinational logic circuits.	K3

CO4	Analyze various sequential circuits such as flip-flops, counters and registers.	K4
CO5	Evaluate various components in designing the digital logic circuits.	K5

23UBC2A1 – Mathematics:II – Mathematical Foundations of Computer Applications

CO Number	CO Statement	Knowledge Level
CO1	Ability to define mathematical logic to solve problems.	K1
CO2	Understand sets, relations, functions and discrete structures.	K2
CO3	Able to use logical notations to discover and reason about fundamental mathematical concepts such as sets relations and functions.	K3
CO4	Able to examine problems and solve matrix.	K4
CO5	Able to evaluate and solve real world problems using graphs and probability.	K5

23UBC2A2 – Discrete Mathematics- II

CO Number	CO Statement	Knowledge Level
CO1	Ability to define mathematical logic to solve problems.	K1
CO2	Understand sets, relations, functions and discrete structures.	K2
CO3	Able to use logical notations to discover and reason about fundamental mathematical concepts such as sets relations and functions.	K3
CO4	Able to examine problems and solve matrix.	K4
CO5	Able to evaluate and solve real world problems using graphs and probability.	K5

23UBC206 – Programming in C++ Lab

CO Number	CO Statement	Knowledge Level
CO1	Remember the structure and significance of the C++ Programming Language.	K1
CO2	Acquire the knowledge about C++ Programming for various programming technologies.	K2
CO3	Demonstrate the ability to analyze, use and create functions, classes, to overload operators.	K3
CO4	Demonstrate the ability to understand and use inheritance and Pointers when creating or using classes and create templates.	K4
CO5	Demonstrate the ability to understand and use Exception handling and file handling mechanism.	K5

23UBC2S1 – Data Science

CO Number	CO Statement	Knowledge Level
CO1	Remember the structure and significance of the Data science programming Language.	K1
CO2	Acquire the knowledge about Data science Programming for various programming technologies.	K2
CO3	Demonstrate the ability to analyze, use and operators.	K3
CO4	Demonstrate the ability to understand and use Numpy arrays and Pandas data frames	K4
CO5	Demonstrate the ability to understand and use Correlation and scatter plots.	K5

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**List of Courses having focus on employability/ entrepreneurship/ skill development offered
by BCA**

UG DEPARTMENT OF COMPUTER APPLICATIONS						
Programme: BCA					Year: 2023-2026	
Course Code	Course Title	Employability (EM) / Entrepreneurship (EN) / Skill Development (SD)			Focus	Year of Introduction
		EM	EN	SD		
23UBC101	CC - I : Programming In C			✓	SD:Programming Skills	2000
23UBC102	CC – II : Data Structures			✓	SD: Structural Representations	2001
23UBC1A1	Allied - I :Mathematics I - Computer Oriented Numerical And Statistical Methods			✓	SD: Correlation, Integration and Interpolation	2000
23UBC1A2	Allied – I: Discrete Mathematics-I			✓	SD: Permutations and Combinations	2023
23UBC103	CC Lab -I : Programming In C			✓	SD: Programming Skills	2000
23UBC204	CC - III : Object Oriented Programming With C++			✓	SD: Programming Skills	2001
23UBC205	CC - IV : Digital Computer Fundamentals		✓		EN: Digital Components	2000
23UBC2A1	Allied - II : Mathematics II – Mathematical Foundations Of Computer Applications			✓	SD: Matrices and Probability	2019

23UBC2A2	Discrete Mathematics -II			✓	SD: Probability	2023
23UBC206	CC Lab - II : Programming In C++			✓	SD: Programming Skills	2001
23UBC2S1	SEC I: Naan Mudhalvan: Data Science			✓	SD: Programming Skills	2023
22UBC307	Core - V :Relational Database Management System	✓		✓	EM: Oracle SD: Database Management System	2001
22UBC308	Core - VI :Operating Systems	✓		✓	EM: Linux & Shell SD: Functioning of OS	2002
22UBC3A3	Allied - III :Accountancy For Decision Making			✓	SD: Problems in Accounting	2000
22UBC309	Core Lab - III : Relational Database Management System	✓		✓	EM: Oracle SD: Database Management System	2001
22UBC310	Core Lab - IV : Programming in Linux			✓	SD: OS Commands	2002
22UBC3N1	Non Major Elective - I : Web Designing Lab	✓			EM: Web Page Development	2006
22UBC3N2	Non Major Elective - I : Desktop Publishing Lab	✓	✓		EM: Desktop Publishing EN: Filtering & Retouching	2014

22UBC411	Core - VIII : Visual Programming	✓			EM: .Net Technologies	2006
22UBC412	Core - IX : Java Programming	✓			EM: Computer Organisation	2001
22UBC4A4	Allied - IV : Mathematics III - Computer Based Optimization Techniques			✓	SD: .. Transportation and Assignment Problems	2001
22UBC413	Core Lab - V: Visual Programming	✓			EM: .Net Technologies	2010
22UBC414	Core Lab - VI : Java Programming			✓	SD: Programming Skills	2020
22UBC4S1	SEC II: Naan Mudhalvan: Cloud Computing			✓	SD: Platform Development	2023
22UBC4S2	SEC II: Naan Mudhalvan: DevOps Foundation			✓	SD: Programming Skills	2023
22UBC4N1 /	Non Major Elective - II : Photo Effects Lab/			✓	SD: Photo Effects	2017
22UBC4N2	Non Major Elective – II: Animation Lab			✓	SD: Animated Effects	2017
21UBC519	Core - XI : Java Programming			✓	SD: Programming Skills	2002
21UBC520	Core - XII :Skill Enhanced Course	✓		✓	EM: Selenium SD: Testing	2009

	Software Testing				Skills	
21UBC5E1	Core Elective - I Networks	✓		✓	EM: Error detection and Error Correction SD: Networking Concepts	2002
21UBC5E2	Core Elective – I: Grid Computing			✓	SD: Grid Concepts	2019
21UBC5E3	Core Elective – I: Data Science	✓		✓	EM: Python and R-Programming SD: Machine Learning	2021
21UBC521	Core Lab - IX: Java Programming			✓	SD: Programming Skills	2002
21UBC522	Core Lab - X : Software Testing	✓		✓	EM: Selenium SD: Testing Skills	2019
21UBC523	Project	✓		✓	EM & SD: Software Design and Development	2015
21UBC5S1	Skill Based Elective – I Mobile Phone Services	✓			EM: Service and Techniques	2020
21UBC5S2	Internet of Things	✓			EM: Internet Concepts	2020
21UBC624	Core - XIII : Python Programming			✓	SD: Programming Skills	2019
21UBC625	Core - XV : Mobile Application Development	✓	✓	✓	EM: Developing Android Apps EN: Designing Interfaces SD: SMS, Location based services	2018
21UBC6E1	Core Elective - II : Storage Management	✓			EM: Memory Management	2019

21UBC6E2	Core Elective - II : Current Trends and Technologies	✓			EM: Latest Technologies	2016
21UBC6E3	Core Elective - II : Information Security	✓	✓	✓	EM: Cyber security & Cryptography EN: Security based infrastructures SD: Security Features & Concepts	2015
21UBC6E4	Core Elective – III: Data Mining And Warehousing	✓			EM: Mining Concepts	2006
21UBC6E5	Cloud Computing	✓	✓		EM: Cloud Security & Services EN: Cloud Storage Providers	2018
21UBC6E6	Nano Computing	✓			EM: Computing Concepts	2021
21UBC626	Core Lab - IX: Python Programming			✓	SD: Programming Skills	2019
21UBC627	Core Lab - XII : Mobile Application Development	✓	✓	✓	EM: Developing Android Apps EN: Designing Interfaces SD: SMS, Location based services	2018
21UBC6S3	SEC IV: Naan Mudhalvan : Interview Readiness	✓			EM: Interview Process	2023
21UBC6S4	SEC IV: Naan Mudhalvan : A 360° Interview Preparation Course	✓			EM: Handling Tech and Tough Situations	2023

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