



NRI INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi :: Affiliated to JNTUK, Kakinada)

POTHAVARAPPADU (V), (via) Nunna, Agiripalli (M), Krishna District, A.P., PIN : 521 212, Ph : 08656324999

Website : nrigroupofcolleges.com e-mail : nrigroupofcolleges@gmail.com

NRI IT/7.5.1/RC 04

TEACHING PLAN CUM REALIZATION

Department: CSE Name of faculty: MURALI Designation: Asst. Professor

Semester / Year: III-I Name of the subject: COMPUTER GRAPHICS

SNO	TOPIC	NO.OF CLASSES	NO. OF CUMULATIVE CLASSES
	UNIT 1: Introduction		
1.1	Application areas of computer graphics	2	2
1.2	Video-display devices	1	3
1.3	Raster-scan Systems	2	5
1.4	Random Scan Systems	1	6
	Output Primitives		
1.5	Points and lines	1	7
1.6	Line Drawing algorithms	2	9
1.7	Mid-point circle algorithm	2	11
1.8	Ellipse Algorithm	2	13
	UNIT 2: Filled area primitives		
2.1	Scan line polygon fill algorithm	1	14
2.2	boundary-fill and flood-fill algorithms	1	15
2.3	Inside and outside tests.	1	16
	UNIT 3: 2-D geometrical transforms:		
3.1	Translation, scaling, rotation	2	18
3.2	reflection and shear transformations	3	21
3.3	Matrix representations and homogeneous coordinates,	3	24
3.4	composite transforms	2	26
3.5	transformations between coordinate systems	2	28
3.6	Basic illumination models and Shading algorithms	3	31
	UNIT 4: 2-D viewing		
4.1	The viewing pipeline	2	33
4.2	viewing coordinate reference frame	1	34
4.3	window to view-port coordinate transformation	1	35
4.4	Cohen-Sutherland and Cyrus-beck line clipping algorithms	2	37
4.5	Sutherland -Hodgeman polygon clipping algorithm.	2	39
	UNIT 5: 3-D object representation		
5.1	Polygon surfaces	1	40
5.2	quadric surfaces	2	42



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5.3	Spline representation	1	43
5.4	Hermite curve	2	45
5.5	Bezier curve and B-Spline curves	2	47
5.6	Bezier and B-Spline surfaces.	1	48
UNIT 6: 3-D Geometric transformations			
6.1	Translation, rotation, scaling	2	50
6.2	reflection and shear transformations	2	52
6.3	composite transformations	2	54
6.4	3D Viewing pipeline	1	55
6.5	clipping, projections (Parallel and Perspective).	2	57
UNIT-7: Visible surface detection methods			
7.1	Classification, back-face detection	2	59
7.2	depth buffer, scan-line	2	61
7.3	depth sorting	1	62
7.4	BSPtree methods	1	63
7.5	area sub-division and octree methods.	2	65
UNIT 8: Computer Animation			
8.1	Design of Animation Sequence	1	66
8.2	General Computer Animation Functions and Raster Animation	2	68
8.3	Computer Animation Language	1	69
8.4	Key Frame System	2	71
8.5	Motion Specification	1	72

Prepared: Faculty / Date

Verified: HOD/Date



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TEACHING PLAN CUM REALIZATION

Department : CSE

Semester / Year: IV-I

Name of faculty: Dr.K.V.SambasivaRao

Designation:Professor

Name of the subject: Cryptography and Network Security

SNO	TOPIC	NO.OF CLASSES	NO. OF CUMULATIVE CLASSES
	UNIT-I: Introduction:		
1.1	Security Attacks, Security Services	1	1
1.2	Security Mechanisms, and Model for Network Security	1	2
1.3	Non-Cryptographic Protocol Vulnerabilities - DoS, DDoS, Session Hijacking and Spoofing	2	4
1.4	Software Vulnerabilities - Phishing, Buffer Overflow, Format String Attacks, SQL Injection,	1	5
1.5	Symmetric Cipher Model	1	6
1.6	Substitution Techniques, Transportation Techniques	3	9
1.7	Cipher Properties - Confusion, Diffusion, Block and Stream Ciphers.	1	10
	UNIT-II: Secret Key Cryptography:		
2.1	Data Encryption Standard(DES), Strength of DES	2	12
2.2	Block Cipher Design Principles, Modes of Operations	1	13
2.3	Triple DES	1	14
2.4	International Data Encryption algorithm	1	15
2.5	Blowfish, CAST-128, AES	3	18
	UNIT-III Number Theory:		
3.1	Prime and Relatively Prime Numbers	1	19
3.2	Modular Arithmetic	1	20
3.3	Fermat's and Euler's Theorems	1	21
3.4	Chinese Remainder Theorem	1	22
3.5	Discrete Logarithms	1	23
	UNIT-IV Public Key Cryptography		
4.1	Principles of Public Key Cryptosystems	1	24
4.2	RSA Algorithm	2	26
4.3	Diffie-Hellman Key Exchange	1	27
4.4	Introduction to Elliptic Curve Cryptography.	1	28
	UNIT-V: Cryptographic Hash Functions:		
5.1	Applications of Cryptographic Hash Functions	1	29
5.2	Secure Hash Algorithm	1	30
5.3	Message Authentication Codes	1	31
5.4	Message Authentication Requirements and Functions	2	33
5.5	HMAC	1	34



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5.6	Digital signatures, Digital Signature Schemes	1	35
5.7	Authentication Protocols, Digital Signature Standards	2	37
	UNIT-VI: Authentication Applications:		
6.1	Kerberos	2	39
6.2	Key Management and Distribution	1	40
6.3	X.509 Directory Authentication service	1	41
6.4	Public Key Infrastructure	1	42
6.5	Pretty Good Privacy, S/MIME.	3	45
	UNIT-VII: IP Security:		
7.1	Overview, Architecture, Authentication Header	3	48
7.2	Encapsulating Security Payload	1	49
7.3	Combining security Associations, Internet Key Exchange	2	51
7.4	Web Security: Web Security Considerations	1	52
7.5	Secure Sockets Layer and Transport Layer Security	1	53
7.6	Electronic Payment.	1	54
	UNIT-VIII: System Security:		
8.1	Intruders, Intrusion Detection	1	55
8.2	Password Management	1	56
8.3	Malicious Software - Types, Viruses	1	57
8.4	Virus Countermeasures, Worms,	1	58
8.5	Firewalls - Characteristics	1	59
8.6	Types of Firewalls, Placement of Firewalls	2	61
8.8	Firewall Configuration, Trusted systems	2	62

Text Books:

1. Cryptography and Network Security: Principles and Practice, 5th Edition, William Stallings, Pearson Education, 2011.
2. Network Security and Cryptography, Bernard Menezes, Cengage Learning, 2011.
3. Cryptography and Network, 2nd Edition, Behrouz A. Fourouzan and Debdeep Mukhopadhyay, McGraw-Hill, 2010.

Reference Books:

1. Fundamentals of Network Security by Eric Maiwald (Dreamtech press)
2. Principles of Information Security, Whitman, Thomson.
3. Introduction to Cryptography, Buchmann, Springer.
4. Applied Cryptography, 2nd Edition, Bruce Schneier, Johnwiley & Sons.

Signature of Course Instructor

IQAC

Signature of HOD



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TEACHING PLAN

Name of the Faculty: **Mrs.M.ARUNA SAFALI**

Designation: **Assoc. Professor**

Name of the Course : **DATA WAREHOUSE AND MINING**

Class/Section: **III-I B.Tech CSE -**

A

Regulation: **R13**

Academic Year: **2017 - 18**

SNO	TOPIC	NO. OF CLASSES	NO. OF CUMULATIVE CLASSES
	UNIT - I		
1.1	Introduction to data mining	1	1
1.2	Data Mining as a Step in the Process of KDD	1	2
1.3	Data Mining- On what kind of data?	1	3
1.4	Data mining functionalities-What kind of patterns can be Mined?	1	4
1.5	Data Mining Functionalities	1	5
1.6	Classification of data mining systems	1	6
1.7	Data mining Task Primitives	1	7
1.8	Integration of data mining system with a database	1	8
1.9	Major issues in data mining	1	9
1.10	Data Mining Task Primitives	1	10
	UNIT -II		
2.1	Why Pre-process the Data?	1	11
2.2	Descriptive data summarization	1	12
2.3	Data cleaning	1	13
2.4	Data Reduction	1	14
2.5	Data Discretization and Concept Hierarchy Generation	1	15
2.6	Data Reduction	1	16
2.7	Data Reduction	1	17
	UNIT III		
3.1	What is a data warehouse?	2	19
3.2	A multi dimensional data model	1	20
3.3	Data Warehouse Architecture	2	22
3.4	Architecture of a Data Warehouse	2	24
3.6	Data Warehouse Implementation	1	25
3.7	From Data Warehousing to Data Mining	1	26
3.8	OLAP Operations	1	27



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	UNIT IV		
4.1	Basic Concepts	1	28
4.2	General Approach to Solving a classification problem	1	29
4.3	Decision Tree Induction: Working of Decision Tree, Building a Decision Tree, Methods for expressing Attribute test conditions	2	31
4.4	Measures for selecting best split	1	32
4.5	Decision Tree	1	33
4.6	Algorithm for Decision Tree Induction	1	34
4.7	Model Over-fitting: Due to presence of noise	1	35
4.8	Due to lack of representative samples	1	36
4.9	Evaluating the performance of classifier: Hold out method, Random subsampling, cross-validation, bootstrap	2	38
4.10	Model Overfitting	1	39
	UNIT -V		
5.1	Introduction	1	40
5.2	Frequent Itemset Generation	1	41
5.3	Apriori Algorithm	1	42
5.4	Rule generation	2	44
5.5	Compact representation of Frequent item sets	1	45
5.6	FP-Growth Algorithm	1	46
5.7	Frequent Item set Generation	2	48
	UNIT -VI		
6.1	What is Cluster analysis and different types of clusterings	1	49
6.2	Different types of Clusters	2	51
6.3	The basic K-Means Algorithm	1	52
6.4	K-Means: Additional Issues, Bisecting K-Means	1	53
6.5	K-Means and Different types of clusters, Strengths and Weaknesses	1	54
6.6	K-Means Algorithm	2	56
6.7	K-Means as an Optimization problem	2	58
6.8	Agglomerative Hierarchical clustering Algorithm: Basic Agglomerative Hierarchical clustering Algorithm	1	59
6.9	Specific techniques, DBSCAN	1	60
6.10	Traditional Density: Center-Based Approach, DBSCAN Algorithm	2	62
6.11	Strengths and Weaknesses	1	63
6.12	DBScan Algorithm	2	65



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TEXT BOOKS:

1. Introduction to DataMining: Pang-Ning Tan & Michael Steinbach, Vipin Kumar, Pearson
2. Data Mining Concepts and Techniques, 3/e, JiaweiHan, Michael Kamber, Elsevier.

REFERENCE BOOKS:

1. Data Mining Techniques and Applications: An Introduction, Hongbo Du, Cengage Learning.
2. Data Mining : Introductory and Advanced topics : Dunham, Pearson.
3. Data Warehousing Data Mining & OLAP, Alex Berson, Stephen Smith, TMH.
4. Data Mining Techniques, Arun K Pujari, Universities Press.

Signature of Course Instructor

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TEACHING PLAN

Name of the Faculty: **Dr.K.V.SambasivaRao**

Designation: **Professor**

Name of the Course : **E-COMMERCE**

Class/Section: **IV -II**

Regulation: **R10**

Academic Year:

S.No.	Topic to be Covered	No. of Classes Required	Cumulative Classes
UNIT -I			
1.1	Introduction to Electronic Commerce	3	3
1.2	Frame work	2	5
1.3	Anatomy of E-Commerce applications	2	7
1.4	E-Commerce Consumer applications	2	9
1.5	E-Commerce organization applications	2	11
UNIT -II			
2.1	Consumer Oriented Electronic commerce	2	13
2.2	Mercantile Process models.	2	15
2.3	Mercantile models from Consumer perspective	2	17
2.4	Mercantile models from Merchant perspective	2	19
UNIT -III			
3.1	Electronic payment systems	2	21
3.2	Digital Token-Based, Smart Cards, Credit Cards	3	24
3.3	Risks in Electronic Payment systems	2	26
UNIT -IV			
4.1	Inter Organizational Commerce - EDI	2	28
4.2	EDI Implementation	2	30
4.3	Value added networks	2	32
UNIT -V			
5.1	Intra Organizational Commerce	2	34
5.2	work Flow	2	36



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5.3	Automation Customization	2	38
5.4	Internal Commerce	2	40
5.5	Supply chain Management.	2	42
	UNIT –VI		
6.1	Corporate Digital Library	2	44
6.2	Document Library, digital Document types	2	46
6.3	Corporate Data Warehouses.	1	47
6.4	Advertising and Marketing - Information based marketing	2	49
6.5	Advertising on Internet	1	50
6.6	on-line marketing process, market research	2	52
	UNIT –VII		
7.1	Consumer Search and Resource Discovery	2	54
7.2	Information search and Retrieval	2	56
7.3	Commerce Catalogues	2	58
7.4	Information Filtering	2	60
	UNIT –VIII		
8.1	Multimedia	2	62
8.2	key multimedia concepts	2	64
8.3	Digital Video and electronic Commerce	2	66
8.4	Desktop video processing	2	68
8.5	Desktop video conferencing	2	70

TEXT BOOK: 1. Frontiers of electronic commerce – Kalakata, Whinston, Pearson.

REFERENCE BOOKS:

1. E-Commerce fundamentals and applications Hendry Chan, Raymond Lee, Tharam Dillon, Ellizabeth Chang, John Wiley.
2. E-Commerce, S.Jaiswal – Galgotia.
3. E-Commerce, Efrain Turbon, Jae Lee, David King, H.Michael Chang.
4. Electronic Commerce – Gary P.Schneider – Thomson.

Signature of Course Instructor

IQAC

Signature of HOD



TEACHING PLAN

Name of the Faculty: **Mr. E. Karunakar**

Name of the Course : **FOSS LAB**

Regulation: **R13**

Designation: **Asst. Professor**

Class/Section: **II-II B.Tech CSE -**

Academic Year: **2014 - 15**

S.No.	Program Title												
1	<p>Session-1</p> <ul style="list-style-type: none">a) Log into the systemb) Use vi editor to create a file called myfile.txt which contains some textc) Correct typing errors during creation.d) Save the filee) logout <p>Session-2</p> <ul style="list-style-type: none">a)Log into the systemb)open the file created in session 1c)Add some textd)Change some texte)Delete some textf)Save the Changesg) logout of the system												
2	<ul style="list-style-type: none">a)Log into the systemb)Use the cat command to create a file containing the following data. Call it mytable use tabs to separate the fields. <table border="0"><tr><td>1425</td><td>Ravi</td><td>15.65</td></tr><tr><td>4320</td><td>Ramu</td><td>26.27</td></tr><tr><td>6830</td><td>Sita</td><td>36.15</td></tr><tr><td>1450</td><td>Raju</td><td>21.86</td></tr></table> <ul style="list-style-type: none">c)Use the cat command to display the file, ytable.d) Use the vi command to correct any errors in the file mytable., Use the sort command to sort the file mytable according to the first field. Call the sorted file my table (same name)e) Print the file mytableg) Use the cut and paste commands to swap fields 2 and 3 of mytable. Call it my table (same name)h)Print the new file, mytablei)Logout of the system.	1425	Ravi	15.65	4320	Ramu	26.27	6830	Sita	36.15	1450	Raju	21.86
1425	Ravi	15.65											
4320	Ramu	26.27											
6830	Sita	36.15											
1450	Raju	21.86											



3.1	<p>a) Login to the system</p> <p>b) Use the appropriate command to determine your login shell</p> <p>c) Use the /etc/passwd file to verify the result of step b.</p> <p>d) Use the who command and redirect the result to a file called myfile1. Use the more command to see the contents of myfile1.</p> <p>e) Use the date and who commands in sequence (in one line) such that the output of date will display on the screen and the output of who will be redirected to a file called myfile2. Use the more command to check the contents of myfile2.</p>
3.2	<p>a) Write a sed command that deletes the first character in each line in a file.</p>
	<p>b) Write a sed command that deletes the character before the last character in each line in a file.</p>
	<p>c) Write a sed command that swaps the first and second words in each line in a file.</p>
4	<p>a) Pipe your /etc/passwd file to awk, and print out the home directory of each user.</p>
	<p>b) Develop an interactive grep script that asks for a word and a file name and then tells how many lines contain that word.</p>
5	<p>a) Write a shell script that takes a command –line argument and reports on whether it is directory, a file, or something else.</p>
	<p>b) Write a shell script that accepts one or more file name as arguments and converts all of them to uppercase, provided they exist in the current directory.</p>
	<p>c) Write a shell script that determines the period for which a specified user is working on the system.</p>
6	<p>a) Write a shell script that accepts a file name starting and ending line numbers as arguments and displays all the lines between the given line numbers.</p>
	<p>b) Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it.</p>
7	<p>a) Write a shell script that computes the gross salary of an employee according to the following rules:</p> <p>i) If basic salary is < 1500 then HRA =10% of the basic and DA =90% of the basic.</p> <p>ii) If basic salary is >=1500 then HRA =Rs500 and DA=98% of the basic</p> <p>The basic salary is entered interactively through the key board.</p>
	<p>b) Write a shell script that accepts two integers as its arguments and computes the value of first number raised to the power of the second number.</p>



8	a) Write an interactive file-handling shell program. Let it offer the user the choice of copying, removing, renaming, or linking files. Once the user has made a choice, have the program ask the user for the necessary information, such as the file name, new name and so on.
	b) Write shell script that takes a login name as command – line argument and reports when that person logs in
	c) Write a shell script which receives two file names as arguments. It should check whether the two file contents are same or not. If they are same then second file should be deleted.
	9) Write a shell script to accept student number, name, marks in 5 subjects. Find total, average and grade. Display the result of student and store in a file called stu.dat.
	Rules: avg>=80 then grade A
	Avg<80&&Avg>=70 then grade B
	Avg<70&&Avg>=60 then grade C
	Avg<60&&Avg>=50 then grade D
	Avg<50&&Avg>=40 then grade E
	Else grade F
	10) Write a shell script to accept empno,empname,basic. Find DA,HRA,TA,PF using following rules. Display empno, empname, basic, DA,HRA,PF,TA,GROSS SAL and NETSAL. Also store all details in a file called emp.dat Rules: HRA is 18% of basic if basic > 5000 otherwise 550 DA is 35% of basic PF is 13% of basic IT is 14% of basic TA is 10% of basic
	11) Write a shell script to demonstrate break and continue statements.
	12) Write a shell script to satisfy the following menu options. a) Display current directory path b). Display todays date c) Display users who are connected to the unix system d) Quit
	13) Write a shell script to delete all files whose size is zero bytes from current directory.
	14) Write a shell script to display string palindrome from given arguments.
	15) Write a shell script which will display Armstrong numbers from given given arguments.
	16) Write a shell script to display reverse numbers from given argument list.



17) Write a shell script to display factorial value from given argument list.
18) Write a shell script which will find maximum file size in the given argument list.
19) Write a shell script which will greet you "Good Morning", "Good Afternoon", "Good Evening" and "Good Night" according to current time.
20) Write a shell script to sort the elements in a array using bubble sort technique.
21) Write a shell script to find largest element in a array.
22) Write an awk program to print sum, avg of students marks list.
23) Write an awk program to display students pass/fail report.
24) Write an awk program to count the no. of vowels in a given file.
25) Write an awk program which will find maximum word and its length in the given input File.
26) Write a shell script to generate the mathematical tables.
27) Write a shell script to sort elements of given array by using selection sort.
28) Write a shell script to search given number using binary search.
29) Write a shell script to find number of vowels, consonants, numbers, white spaces and special characters in a given string.
30) Write a shell script to lock the terminal

Signature of Course Instructor

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Signature of HOD



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TEACHING PLAN

Name of the Faculty: **M.ARUNA SAFALI**

Designation: **Assoc. Professor**

Name of the Course : **INFORMATION RETRIVAL SYSTEMS**

Class/Section: **IV-I B.Tech**

CSE - A

Regulation: **R10**

Academic Year: **2013-2014**

SNO	TOPIC	NO. OF CLASSES	NO. OF CUMULATIVE CLASSES
	UNIT 1:		
1.1	Definition	1	1
1.2	Objectives	1	2
1.3	Functional Overview	1	3
1.4	Relationship to DBMS	1	4
1.5	Digital libraries	1	5
1.6	Data Warehouses	1	6
	UNIT 2:		
2.1	Information Retrieval System Capabilities: Search	1	7
2.2	Browse	1	8
2.3	Miscellaneous	1	9
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8.5	Measures used in system evaluation	1	61
8.6	Measurement example – TREC results	1	62

TEXT BOOKS:

1. Kowalski, Gerald, Mark T Maybury: Information Retrieval Systems: Theory and Implementation, Kluwer Academic Press, 1997.

REFERENCE BOOKS:

1. Frakes, W.B., Ricardo Baeza-Yates: Information Retrieval Data Structures and Algorithms, Prentice Hall, 1992.
2. Modern Information Retrieval By Yates Pearson Education.
3. Information Storage & Retrieval By Robert Korfhage – John Wiley & Sons



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NRI IT/7.5.1/RC 04

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Name of the Course : **PYTHON PROGRAMMING LAB** Class/Section: **II – I B.Tech CSE -C**

Regulation: **R16**

Academic Year: **2017 – 18**

S.NO	EXCERCISE	NAME OF THE PROGRAM	CUMMULATIVE CLASS
1	Exercise -1	Basic Programs	3
2	Exercise -2	Operations	6
3	Exercise -3	Control Flow Programs	9
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Regulation: **R16**

Academic Year: **2017 - 18**

S.NO	TOPIC	NO.OF PERIODS	NO. OF CUMULATIVE PERIODS
	Unit-1:Introduction		
1.1	History of Python	1	1
1.2	Need of Python Programming	1	2
1.3	Applications basics for python programming using	2	4
1.4	Running Python Scripts	1	5
1.5	Variables, Assignments, Keywords	2	7
1.6	Input-Output, Indentation	2	9
	Unit-2: Types, Operators and Expressions		
2.1	Types : Integers, Strings, Booleans	2	11
2.2	Operators: Arithmetic, Comparison, Assignments	2	13
2.3	Logical ,Bitwise, Membership& Identity Operators	2	15
2.4	Expressions and Order of Evaluation	1	16
2.5	Control Flow :if,if-elif-	2	18
	Unit-3: DataStructures		
3.1	Data structures Lists-Operations,Slicing,Methods	2	20
3.2	Tuples,Sets,Dictionaries	2	22
3.3	Sequences & Comprehensions	2	24
	Unit-4: Functions		
4.1	Defining Functions, calling functions	1	25
4.2	Passing Arguments, Keyword Arguments	2	27
4.3	Default Arguments, Variable-length arguments	2	29
4.4	Anonymous functions	1	30
4.5	Fruitful Functions	1	31
4.6	Scope of the variables in a function-Global&Local	1	32
4.6	Modules: Creating Modules, import statement, from.	2	34
4.7	Import Statement, Name Spacing	2	36
4.8	Python Packages: Introduction to PIP	1	37
4.9	Installing Packages via PIP	2	39
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	Unit-5: Object Oriented Programming OOP in		



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5.6	Handling Exception, try except block	1	50
5.7	Raising Exception	1	51
5.8	User Defined Exceptions	1	52
	Unit-6: Brief Tour of the Standard Library		
6.1	Operating System Interface –String Pattern Matching	2	54
6.2	Mathematics, Internet Access	2	56
6.3	Dates and Times, Data Compression	1	57
6.4	Multithreading, GUI Programming	2	59
6.5	Turtle Graphics	2	61
6.6	Testing: Why Testing is Required?	1	62
6.7	Basic Concepts of Testing, Unit Testing in Python	2	64
6.8	Writing Test cases and Running Test Cases	3	67

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1. The Complete Reference Java, 8th edition, Herbert Schildt, TMH.
2. Programming in JAVA, Sachin Malhotra, Saurabh Choudary, Oxford.
3. Introduction to Java Programming, 7th edition by Y Daniel Liang, Pearson.

REFERENCE BOOKS:

1. Swing: Introduction, JFrame, JApplet, JPanel, Componets in Swings, Layout Managers in Swings, JList and JScrollPane, Split Pane, JTabbedPane, JTree, JTable, Dialog Box.

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