

SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous) NAAC & NBA Accredited

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

SEETHARAMAPURAM, NARSAPUR-534 280, W.G.DT., A.P.

TEACHING PLAN

| And the latest to the latest t | | itle | Semester | Branch | Contact Periods /Week | Academi | commenceme | | | |
|--|--|---------------|--|-------------------------------|-----------------------------|---------------------------------|--------------|-------------------|---|-------|
| 231 34 1112 | | Through | | | 2024-2 | 25 16-12-24 | | | | |
| COURS | E OUTCOM | ES | | | | | | | | |
| 1 | Identify and | utilize Jav | a language | components | effectively in a | pplication | is. (K2) | | | |
| 2 | Implement o | bject-orie | nted program | mming princi | ples using Java | ı. (K3) | | | | |
| 3 | Extend Java | classes w | ith inheritan | ce and interfa | aces in applicat | ions. (K3 |) | | | |
| 4 | Design mult | i-threaded | and except | ion handling | applications in | Java. (K4 | -) | | | |
| 5 | Use Java AF | Is for pro | gram develo | pment in swi | ing and java da | tabase co | nnectivity. | (K5) | | |
| UNIT | Out Comes / Bloom's Level | Topics No. | Topics/Activity | | | Text Book / Refere nce | Contact Hour | Delivery Method | | |
| | C01: Object-Oriented Programming and Basics (K2) | 1.01 | | to Object-Oriong - Basic Cond | | T1 | 1 | | | |
| | | 1.02 | Program Str Simple Java | ucture in Java Programs | - Writing | T2 | 2 | | | |
| | | 1.03 | _ | Tokens in Jav | a Programs - | T1 | 3 | | | |
| | | 1.04 | Command L Input | ine Argument | s and User | T3 | 4 | | | |
| | | 1.05 | The same of the sa | iences, Comm | ents, and | T1 | 5 | | | |
| | | 1.06 | | in Java - Decla | aration and | T1 6 | | Chalk and Talk | | |
| I | | 1.07 | | | teral Constants | T2 | 7 | PPT & | | |
| | | gram | gram | 1.08 | * | onstants and F printf() Metho | | T1 | 8 | Video |
| | | 1.09 | | bles and Meth | | T1 | 9 | | | |
| | | 1.10 | | to Operators tivity | - Precedence | T3 | 10 | | | |
| | | 1.11 | | metic Operator | cs | T1 | 11 | | | |
| | | 1.12 | Increment at Ternary Ope | nd Decrement erator | Operators, | T1 | 12 | | | |
| | | 1.13 | | Boolean Logic | al, and Bitwise | T2 | 13 | | | |
| | | 1.14 | | | else, Nested if | T1 | 14-15 | | | |
| | | | Switch State | | | T1 | 16 | | | |
| | | 1.16 | Iteration Sta | itements - whi | le, do-while, for | T1 | 17 | | | |
| | | 1.7 | Nested for I | Loop, For-Eac | h Loop | T1 | 18 | | | |
| | | 1.8 | | Continue State | | T2 | 19 | | | |



SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous) NAAC & NBA Accredited

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

SEETHARAMAPURAM, NARSAPUR-534 280, W.G.DT., A.P.

| | | | | Total | 19 | |
|-----|---|---------------------|--|-----------|-------|---------------------------|
| | | 2.01 | Class Declaration and Modifiers - Class | T1 | 20 | |
| | Objects. (K3) | 2.02 | Members Declaration of Class Objects and Assigning One Object to Another | Т2 | 21 | |
| | | 2.03 | Access Control for Class Members and Accessing Private Members | TI | 22-23 | |
| | | 2.04 | Constructor Methods for Class | T1 | 24 | Chalk |
| | | 2.05 | Overloaded Constructor Methods | T2 | 25 | and Talk, |
| II | 9 | 2.06 | Nested Classes and Final Class Methods | T1 | 26 | PPT & |
| 11 | S and | 2.07 | Passing Arguments by Value and by Reference - Keyword this | T1 | 27 | Video |
| | Classes | 2.08 | Methods - Defining and Overloading Methods | T1 | 28 | |
| | 5 | 2.09 | Overloaded Constructor Methods | | 29 | |
| | CO2: | 2.10 | Class Objects as Parameters and Access Control | T1, T3 | 30-31 | |
| | | 2.11 | Recursive Methods and Nesting of Methods | T2 | 32 | |
| | | 2.12 | Overriding Methods - Attributes Final and Static | T1 | 33 | |
| | | | | Total | 14 | |
| | CO3: Arrays, Inheritance and Interfaces. (K3) | 3.01 | Arrays: Introduction, Declaration and Initialization of Arrays | T1,R2 | 34 | Chalk and Talk, PPT |
| | | 3.02 | Storage of Array in Computer Memory, Accessing Elements of Arrays, | T1,R2 | 35 | |
| | | 3.03 | Operations on Array Elements, Assigning Array to Another Array, | T1,R2 | 36 | |
| | | 3.04 | Dynamic Change of Array Size, | T1,R1 | 37 | |
| | | 3.05 | Sorting of Arrays, Multidimensional arrays. | T1,R2 | 38 | |
| | | 3.06 | Inheritance - Process and Types | T1,R1 | 39 | |
| III | | 3.07 | Universal Super Class (Object Class) and Inhibiting Inheritance | T1,R1 | 40 | |
| *** | | 3.08 | Access Control and Multilevel Inheritance | T2,R1 | 41 | |
| | | 3.09 | Keyword Super and Constructor Method in Inheritance | T1,R1 | 42 | |
| | | 3.10 | Method Overriding and Dynamic Method Dispatch | T1,R1 | 43 | |
| | | 3.11 | Abstract Classes | T1,R1 | | |
| | | 3.12 | Interfaces - Declaration, Implementation, Multiple Interfaces | T1,R1 | 45 | |
| | | 3.13 | Nested Interfaces and Inheritance of Interfaces | | 46 | |
| | | 3.14 | Default and Static Methods in Interfaces | T1,R1 | 47 | |
| | | 3.15 | Functional Interfaces and Annotations | T1,R1 | 48 | |
| | | | | Total | 15 | |
| IV | Packages & ption Handling and (K4) | 8 Suil 4.01 4.02 | Exception Handling - Hierarchy of Standard Exception Classes | T1,R2 | 49 | |
| | | | Introduction, Defining Package | T1,R2 | 50 | Chalk |
| | | 4.03 | Importing Packages and Classes into Programs | T1,R2 | 51 | and Tal PPT & Video |
| | | 4.04 | Path and Class Path, Access Control, Packages in Java SE | T1,R2 | 52 | |
| | CO4: Pac Exception and. | 4.05 | java.lang Package and its Classes, Class Object, Enumeration, | T1,R2 | | |
| | OH | 4.06 | class Math, Wrapper Classes, Auto-boxing | T1,R2 | 54 | |

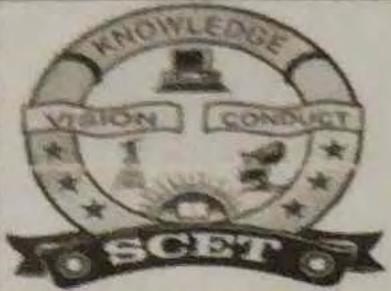


SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous) NAAC & NBA Accordition

DEPT. OF COMPUTER SCIENCE AND ENGINEERING

SEETHARAMAPURAM, NARSAPUR-534 280, W.G.DT., A.P.

| ACC | | | and Auto unbowing Interval City | | | |
|---------|--|-----------|---|--------------|---------|-----------------------------|
| | | | and Auto-unboxing, Java util Classes and Interfaces | | | |
| | | 4.07 | Formatter Class, Random Class, Time Package, Class Instant | T2,R2 | 55 | |
| | | 4.08 | Formatting for Date/Time in Java, Temporal Adjusters Class. | T1,R1 | 55 | |
| | | 4.09 | Exception Handling - Hierarchy of Standard Exception Classes | T1,R1 | 56 | |
| | | 4.10 | Keywords throws and throw - try, catch, and finally Blocks | T1,R1 | 57* | |
| | | 4.11 | Multiple Catch Clauses and Class Throwable | T1,R1 | 58 | |
| | | 4.12 | Unchecked and Checked Exceptions | T1,R1 | 59 | |
| | | | | Total | 11 | |
| | DG III. | 5.01 | String Handling in Java: Introduction, Interface Char Sequence | T1 | 60 | |
| | imm (| 5.02 | Class String, Methods for Extracting Characters from Strings, | Т3 | 61 | Chalk and Talk, PPT & Video |
| | Programming, va. (K5) | 5.03 | Comparison, Modifying, Searching; Class String Buffer. | T1 | 62 | |
| | ded I | 5.04 | Multithreaded Programming - Need and Basic Concepts | T1 | 63 | |
| V | 205: JDBC, Multithreaded String Handling in Jav | 5.05 | Thread Class - Main Thread and Creation of New Threads | T1 | 64 | |
| | | 5.06 | Thread States, Priority, Synchronization, Deadlock, Race Situations | T1,T2 | 65 | |
| | | 5.07 | Java Database Connectivity: Introduction, JDBC Architecture, Installing MySQL and MySQL Connector/J | T1 | 66 | |
| | | 5.08 | JDBC Environment Setup | T1 | 67 | |
| | | 5.09 | Establishing JDBC Database Connections | T1 | 68 | |
| | | 5.10 | Result Set Interface | T1 | 69 | |
| | | _ | | Total | 10 | |
| | ontent eyond /llabus | 1 | Lambda Expression & Streams API | | 70 | Chalk |
| | | 2 | Generics in Java | | 71 | and Talk, PPT & |
| CBS | | 3 | JavaFX | | 72 | |
| | Con Bey Sylli | 4 | Java Memory Management & Garbage Collection | | 73 | Video |
| | | | | Total | 73 | |
| | | | CUMULATIVE PROPOSED PE | RIODS | | 73 |
| Text Bo | | | | | | |
| SI. No. | | | FITLE, EDITION, PUBLISHER, YEAR C | | CATION | |
| 1. | JAVA one s | step ahea | d, Anitha Seth, B.L.Juneja, Oxford, 2017 | | | |
| 2. | | | damentals of Object Oriented Programmi nbridge, 2023. | ing, Debasi | is Sama | nta, |
| 3 | | | mers, Paul Deitel, Harvey Deitel, 4th Edi | ition, Pears | son. | |
| Referen | ce Books: | | | | | |
| Sl. No. | AUTHORS, | BOOK | TITLE, EDITION, PUBLISHER, YEAR C | F PUBLIC | CATION | |
| 1. | The complete Reference Java, 11thedition, Herbert Schildt, TMH | | | | | |
| 2. | Introduction | to Java | programming, 7th Edition, Y Daniel Liar | ng, Pearson | 1 | |
| Web De | tails | | | | | |



SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY (Autonomous) NAAC & NBA Accredited

DEPT. OF COMPUTER SCIENCE AND ENGINEERING
SEETHARAMAPURAM, NARSAPUR-534 280, W.G.DT., A.P.

| 1. | https://nptel.ac.in/courses/106/105/106105191/ |
|----|--|
| 2. | https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_012880464547618 |
| | 816347 shared/overview |

| S.No | Name of Facul | ty & Section | Name | Signature with Date | |
|------|--------------------|--------------|----------------------|---------------------|--|
| i. | Faculty I | Sec/D | Mr. Vijaya Raju | OQ. | |
| ii. | Course Coordinator | | Mr. M. Vijay Raju | (A) | |
| iii. | Module Coordinator | | Mr. B.S. Vara Prasad | 100mg | |
| iv. | Programme C | oordinator | Prof. P. Srinivasulu | 10 | |

Principal