



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course Summary 2021-2022

Course Name: “Advanced Java Programming”

Course Duration: 56 hours

Year Offered: 2021-2022

Course Instructors: Dr. V. Nivethitha, Associate Professor/CSE

Ms. N. Anu Lavanya, Assistant Professor/CSE

Course Outcome:

On completion of the course, students will be able to understand the concepts related to Java Technology, to develop real time applications and learn to access databases through Java programs, using Java Database Connectivity (JDBC) .

Course Type: Self Framed

Assessment Mode


Attendance: 56 hours

Number of Participants: 56

Scheme of Exam: MCQ Assessment


Course Co-ordinator




Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
Kuttrathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002


HoD



SSM Institute of Engineering and Technology

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

25.05.2022

CIRCULAR

The Department of CSE has planned to conduct a "Technology Training" for **IV year -**

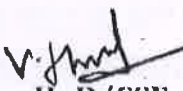
CSE students on "**Advanced Java Programming**" from **26.05.2022 to 03.06.2022**

(09.00 a.m to 03.30 p.m) at CSE Lab I. Resource person **Mr. Ramsundar, Trainer** from

Silicon Software Services, Madurai is going to handle this training session. All our final


year students are expected to attend this training without fail.


Faculty In-charge


HoD/CSE

1. Nivedhitha V, Asst/CSE
2. N. ANU LAVANYA, Asst/CSE




Dr. D. SENTHIL KUMARAN M.E., Ph.D. (IISc)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul - 624 002

07.06.2022

From

Dr. V. Nivedhitha, Ms. N. Anu Lavanya

Associate Professor, Assistant Professor

Department of Computer Science and Engineering,

SSM Institute of Engineering and Technology,

Dindigul-02.

To

The Principal,

SSM Institute of Engineering and Technology,

Dindigul-02.

Respected sir,

sub: Settlement to Silicon Software Services for Technology Training – reg.

This is to bring to your notice that a Technology Training on **"Advanced Java Programming"** has been conducted for **IV CSE** students from **26.05.2022 to 03.06.2022(8 Days)** by **Silicon Software Services**, Madurai. 39 students of IV CSE have been benefitted from this training session. The received invoice copy is attached with this letter for your perusal and further action.

Thank You

Yours sincerely,

1. *[Signature]*
7/6/22

[Signature]
HOD/CSE

[Signature]
PRINCIPAL

[Signature]

Encl:

1. Invoice from Silicon Software Services.



Dr.D.SENTHIL KUMARAN M.E. PhD (NUS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM

Institute of Engineering and Technology
APPROVED BY AICTE, NEW DELHI | AFFILIATED TO ANNA UNIVERSITY, CHENNAI
ACCREDITED BY NAAC | ACCREDITED BY NBA (EEE, ECE, MECH UG PROGRAMS)

Technology Training on Advanced Java Programming For Final Year Students

DATE

**MAY 26TH - June 3RD
2022**

VENUE

CSE LAB-II

HOST

SILICON SOFTWARE SERVICE

HOD/CSE

DR. V. SHANMUGAVEL

PRINCIPAL

DR. D. SENTHIL KUMARAN



Dr. D. Senthil Kumar
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 009

Training Plan

Introduction

(Time: 11.30 a.m to 12.00 p.m)

Programming language Types and Paradigms, Computer Programming Hierarchy, How Computer Architecture Affects a Language? , Why Java? , Flavors of Java, Java Designing Goal, Role of Java Programmer in Industry, Features of Java Language, JVM –The heart of Java, Java's Magic Bytecode. The Java Environment: Installing Java, Java Program Development, Java Source File Structure, Compilation, Executions.

String class and its usage

Operation on String, Mutable & Immutable String, Using Collection Bases Loop for String, Tokenizing a String, Creating Strings using StringBuffer.

Pointers & Array Concept

(Time: 1.00 p.m to 01.30 p.m)

Defining an Array, Initializing & Accessing Array, Multi –Dimensional Array, Definition of pointer, Difference between reference and pointer,



Dr.D.SENTHIL KUMARAN M.E.,Ph.D (IITM)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Dindigul - Palani Highway, Dindigul - 624 002.

TECHNOLOGY TRAINING on ADVANCED JAVA PROGRAMMING - ATTENDANCE SHEET

BRANCH : CSE

YEAR: IV

BATCH: 2018-2022

S. No.	Register Number	Name	26.5.22	27.5.22	28.5.22	29.5.22	30.5.22	1.6.22	2.6.22	3.6.22
1	922118104002	BHUVANA RAJA M	AB	AB	AB	AB	AB	AB	AB	AB
2	922118104003	CHANDRA R	AB	AB	AB	AB	AB	AB	AB	AB
3	922118104005	DHANUSIYA V S	AB	AB	AB	AB	AB	AB	AB	AB
4	922118104006	FAHIMA RIZWANA K	AB	AB	AB	AB	AB	AB	AB	AB
5	922118104007	GAYATHRI R S	AB	AB	AB	AB	AB	AB	AB	AB
6	922118104009	HARI PRASAD M	AB	AB	AB	AB	AB	AB	AB	AB
7	922118104010	HINDUJA M	AB	AB	AB	AB	AB	AB	AB	AB
8	922118104011	INDHUMATHI M	AB	AB	AB	AB	AB	AB	AB	AB
9	922118104013	JANANI M	AB	AB	AB	AB	AB	AB	AB	AB
10	922118104014	JAYA PRIYA G	AB	AB	AB	AB	AB	AB	AB	AB
11	922118104015	JEGAN M	AB	AB	AB	AB	AB	AB	AB	AB
12	922118104016	JOAQUIN RAJ S	AB	AB	AB	AB	AB	AB	AB	AB
13	922118104017	JOTHIKA M	AB	AB	AB	AB	AB	AB	AB	AB
14	922118104018	KEERTHIKA R	AB	AB	AB	AB	AB	AB	AB	AB
15	922118104019	KIRTHIKA K	AB	AB	AB	AB	AB	AB	AB	AB
16	922118104021	KRISHNA V	AB	AB	AB	AB	AB	AB	AB	AB
17	922118104022	KRISHNA SREE K	AB	AB	AB	AB	AB	AB	AB	AB
18	922118104023	LIVIN RUTHAYA RAJ T	AB	AB	AB	AB	AB	AB	AB	AB
19	922118104026	NAGAMANI N	AB	AB	AB	AB	AB	AB	AB	AB
20	922118104028	NANDHINI T	AB	AB	AB	AB	AB	AB	AB	AB
21	922118104030	NAVEENDRAN S	AB	AB	AB	AB	AB	AB	AB	AB
22	922118104031	NAVEEN KUMAR K	AB	AB	AB	AB	AB	AB	AB	AB
23	922118104034	POORNA KUMAR R	AB	AB	AB	AB	AB	AB	AB	AB
24	922118104035	PRADEEPA R	AB	AB	AB	AB	AB	AB	AB	AB
25	922118104037	PRIYADHARSHINI V	AB	AB	AB	AB	AB	AB	AB	AB
26	922118104038	PUNITH BABU M	AB	AB	AB	AB	AB	AB	AB	AB
27	922118104041	SAJIHARINIKA S	AB	AB	AB	AB	AB	AB	AB	AB
28	922118104042	SAMRITHA ATCHAYA S	AB	AB	AB	AB	AB	AB	AB	AB
29	922118104043	SARANYA S	AB	AB	AB	AB	AB	AB	AB	AB
30	922118104044	SARAVANAKUMARAN B	AB	AB	AB	AB	AB	AB	AB	AB
31	922118104045	SHERLINE SNEHA M	AB	AB	AB	AB	AB	AB	AB	AB
32	922118104047	SRIVANI S	AB	AB	AB	AB	AB	AB	AB	AB
33	922118104048	SRUTHI K	AB	AB	AB	AB	AB	AB	AB	AB
34	922118104049	SUDHAN M	AB	AB	AB	AB	AB	AB	AB	AB
35	922118104050	SURIYA KUMAR V	AB	AB	AB	AB	AB	AB	AB	AB
36	922118104052	VIGNESH R	AB	AB	AB	AB	AB	AB	AB	AB
37	922118104053	VIJAY G	AB	AB	AB	AB	AB	AB	AB	AB
38	922118104054	VIJAYA SUBHA G	AB	AB	AB	AB	AB	AB	AB	AB
39	922118104055	YOGALAKSHMI B	AB	AB	AB	AB	AB	AB	AB	AB
Present			2	2	2	2	2	2	2	2
Absent			2	2	2	2	2	2	2	2

Principal

HOD / CSE

Dr. V. Nivedha
Ms. N. Anu Varanya



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)
Dindigul- Palani Highway, Dindigul - 624 002.

Department of Computer Science and Engineering

Date: 25.05.2022

Technology Training - Demo Session

An online meeting using Google Meet has been arranged to assess the quality of the Trainers from Silicon Software Services on 25.05.2022 at Video Conference Hall, SSMIET. The details of provided below:

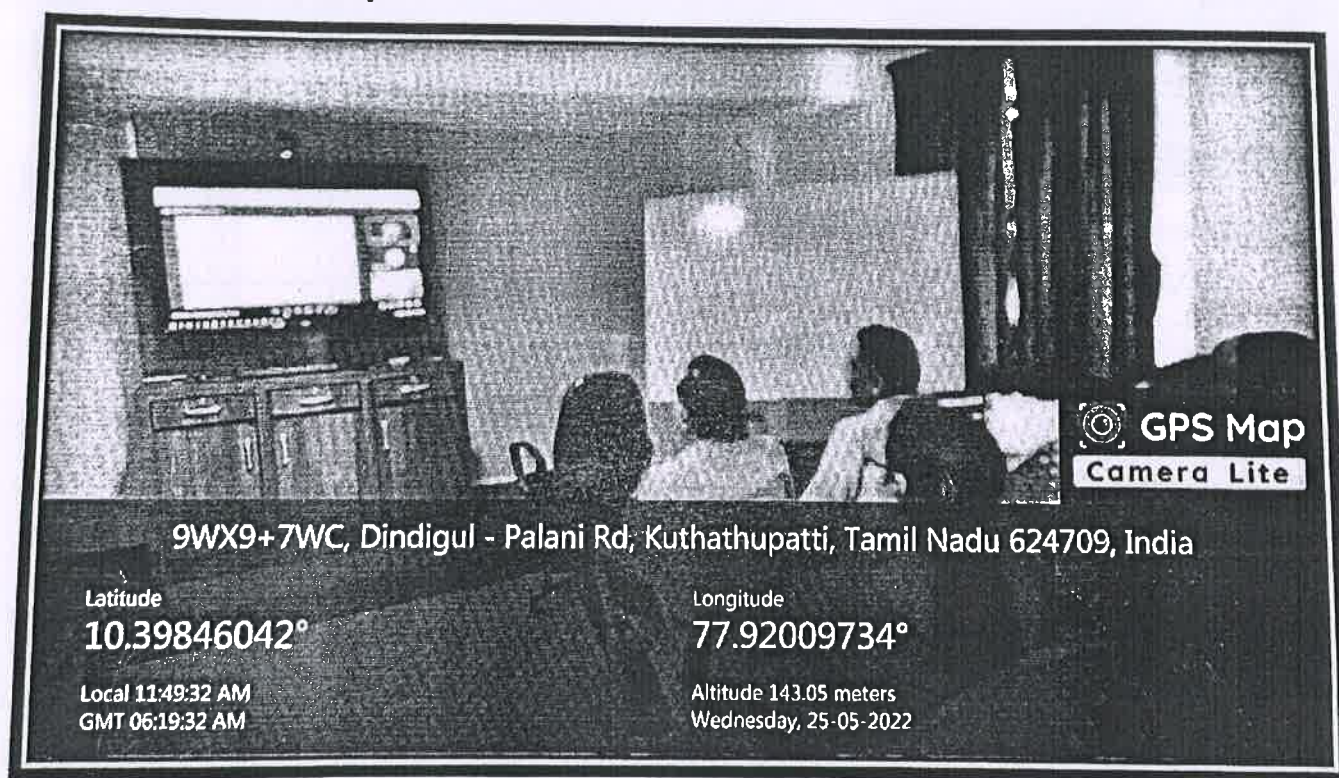
Link: <https://meet.google.com/jde-aszv-sxa>

Technology Training on Advanced Java Programming

Name: M. Ramsundar, Trainer/Silicon Software Services

Topics Handled: String Class and its usage

Time: 11.30 a.m. to 12.00 p.m.

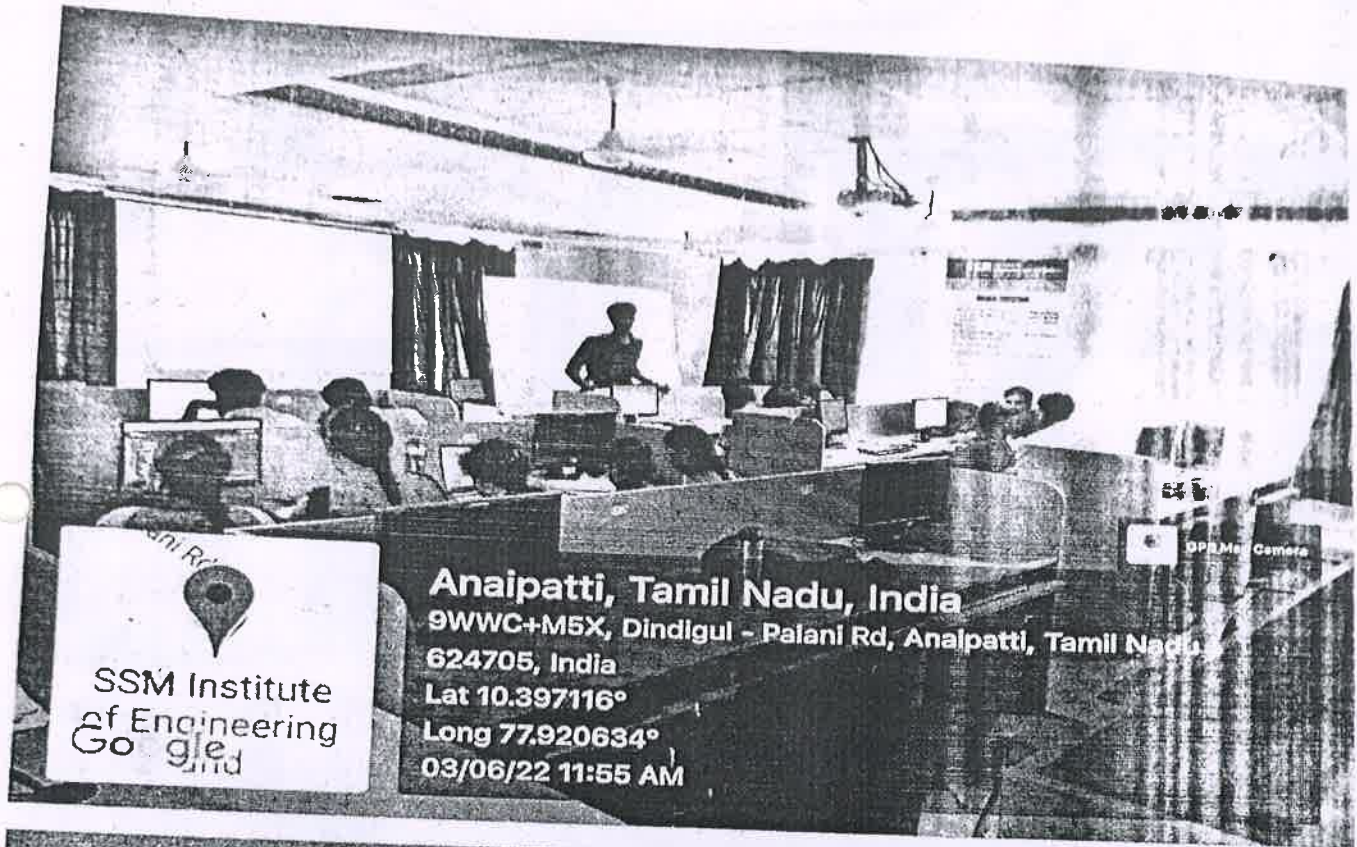


Session attended by:

S. No.	Name	Designation
1.	Dr. V. Shunmughavel	Prof. & Head/CSE
2.	Dr. G. Prabu	AsP/CSE
3.	Dr. V. Nivedhitha	AsP/CSE
4.	Ms. S. Deepika	AsP/CSE
5.	Ms. A. Priyanka	AsP/CSE
6.	Ms. N. Padma Priya	AsP/CSE

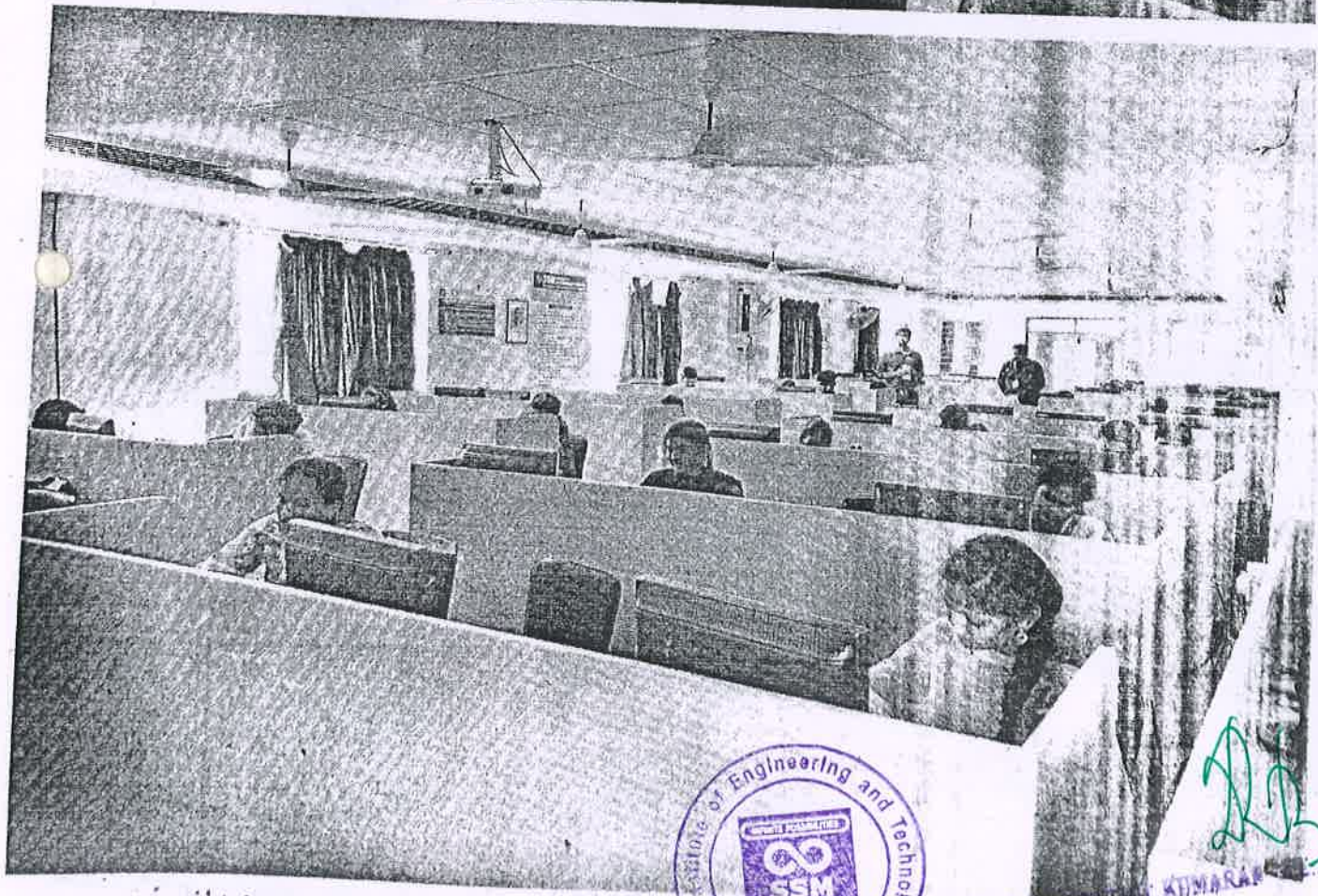



Dr. C. SENTHIL KUMARAN M.E., Ph.D (IISc)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002

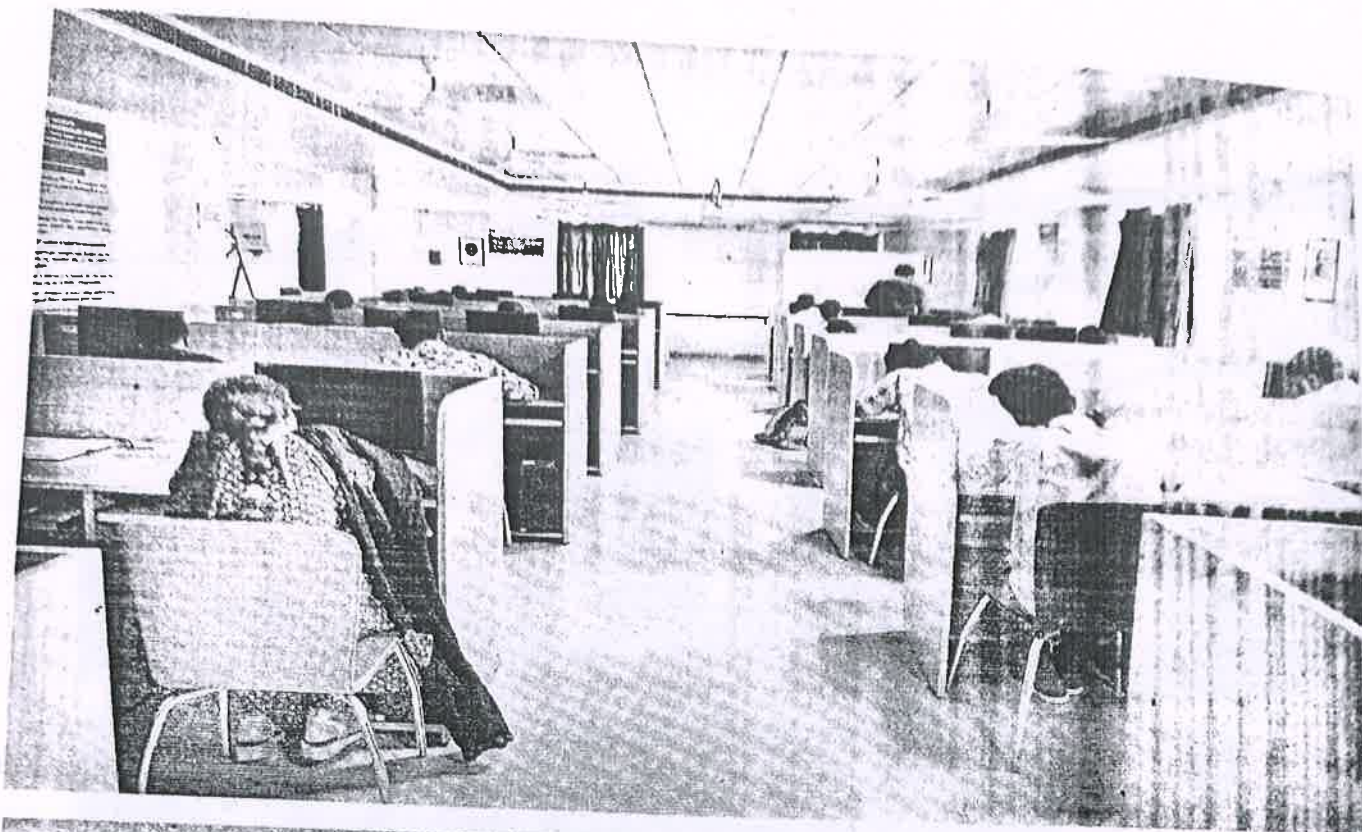




 SSM Institute
 of Engineering
 Palani Road
 Dindigul

Anaipatti, Tamil Nadu, India
 9WWC+M5X, Dindigul - Palani Rd, Anaipatti, Tamil Nadu
 624705, India
 Lat 10.397116°
 Long 77.920634°
 03/06/22 11:55 AM




 DR. D. S. KIMARAJU
 Senior Professor
 Department of Mechanical Engineering
 SSM Institute of Engineering Technology
 Palani Road, Dindigul-624 002




Dr. D. SENTHIL KUMARAN M.E., Ph.D. (INUS)
 Senior Professor
 Department of Mechanical Engineering
 BSM Institute of Engineering Technology
 Dindigul - 624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

Technology Training on Advanced Java Programming for Final Year

Assessment Questions

Total: 15

1. How to create a new String object in Java?

- a) new String();
- b) String.new();
- c) String{};
- d) new Object(String);

2. What is the output of "Java" == "Java" in Java?

- a) true
- b) false
- c) Compilation error
- d) Runtime error

3. What does the charAt method do?

- a) Returns the character at a specific index
- b) Changes the character at a specific index
- c) Removes the character at a specific index
- d) None of the above

4. What will String str = null; do?

- a) Creates a new String with no characters
- b) Creates a String pointing to "null"
- c) Does not create any String
- d) Creates an empty String

5. How to convert a string to upper case?

- a) toUpperCase()
- b) upperCase()
- c) toUppercase()
- d) Uppercase()



[Handwritten Signature]

D.L.G. SENTHIL KUMARAN M.E., Ph.D (INCS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

6. What does the `length()` method return?

- a) ASCII value of first character
- b) Number of characters
- c) A new String
- d) None of the above

7. Which method is used to check the equality of the content of two strings in Java?

- a) `==`
- b) `compareTo()`
- c) `equals()`
- d) `equalStrings()`

8. What is the result of `"Java".concat("Script")`?

- a) Java Script
- b) JavaScript
- c) JavaconcatScript
- d) A compilation error

9. Which method replaces a character in a string?

- a) `replace()`
- b) `replaceChar()`
- c) `setChar()`
- d) `changeChar()`

10. Which method removes whitespace from the beginning and end of a string?

- a) `trim()`
- b) `strip()`
- c) `clean()`
- d) `chop()`

11. Is the String class in Java thread-safe?

- a) Yes
- b) No
- c) Only when synchronized
- d) Depends on the method being called




Dr. D. SENTHIL KUMAR M.E., Ph.D. (INDIA)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

12. What is the String Constant Pool in Java?

- a) A pool where all string methods are stored
- b) A special area of the heap memory where string literals are stored and reused
- c) A memory space where string objects are stored temporarily
- d) A section of the Java library dedicated to string operations

13. When does a string get added to the String Constant Pool?

- a) Whenever the new keyword is used
- b) Whenever a string is modified using string methods
- c) When a string literal is defined in the code
- d) Whenever a string is passed as an argument to a method

14. How can you ensure that a string created using the new keyword gets placed in the String Constant Pool?

- a) By appending another string to it
- b) By using the intern() method of the String class
- c) By converting it to a string literal
- d) By calling the toString() method on it

15. Why does Java utilize a String Constant Pool?

- a) To increase the complexity of string operations
- b) To ensure that each string object has a unique memory address
- c) To save memory by avoiding the storage of duplicate string values
- d) To improve the speed of string concatenation operations

Faculty Co-Ordinators

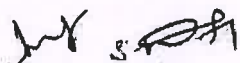
HoD/CSE

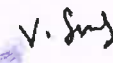
Principal




Dr.D.SENTHIL KUMARAN M.E.,Ph.D (NUS)
Senior Professor
Department of Mechanical Engineering
SSM-Institute of Engineering Technology
Palani Road, Dindigul-624 002

VAC ASSESSMENT REPORT			
S.NO.	Name	TOTAL MARKS	ASSESSMENT MARKS
1	BHUVANA RAJA M	15	15
2	CHANDRA R	15	15
3	DHANUSIYA V S	15	15
4	FAHIMA RIZWANA K	15	14
5	GAYATHRI RS	15	14
6	HARI PRA SAD M	15	15
7	HINDUJA M	15	15
8	INDHUMATHI M	15	15
9	JANANI M	15	14
10	JAYA PRIYA G	15	15
11	JEGAN M	15	15
12	JOAQUIN RAJ S	15	14
13	JOTHIKA M	15	15
14	KEERTHIKA R	15	15
15	KIRTHIKA K	15	14
16	KRISHNA V	15	15
17	KRISHNA SREE K	15	14
18	LIVIN IRUTHAYA RAJ	15	15
19	NAGAMANI N	15	14
20	NANDHINI T	15	14
21	NAVEENDRAN S	15	14
22	NAVEEN KUMAR K P	15	15
23	POORNA KUMAR P	15	15
24	PRADEEPA R	15	15
25	PRIYADHARSHINI V	15	15
26	PUNITH BABU M	15	15
27	SAJIHARINIKAS	15	15
28	SAMRITHA ATCHAYA P	15	15
29	SARANYA S	15	15
30	SARAVANAKUMARAN A	15	15
31	SHERLINE SNEHA M	15	14
32	SRI VANI S	15	14
33	SRUTHI K	15	14
34	SUDHAN M	15	15
35	SURIYA KUMAR V	15	15
36	VIGNESH R	15	15
37	VIJAY G	15	14
38	VIJAYA SUB HA G	15	15
39	YOGALAKS HMI B	15	14


Faculty Co-Ordinators


HoD/CSE




Dr. D. SENTHIL KUMAR M.E., Ph.D. (IITB)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002

Nandhini T
CSE



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

Technology Training on Advanced Java Programming for Final Year

Assessment Questions

Total: 15

1. How to create a new String object in Java?

- a) new String();
- ☒ b) String.new();
- c) String{};
- d) new Object(String);

14
15

2. What is the output of "Java" == "Java" in Java?

- ☒ a) true
- b) false
- c) Compilation error
- d) Runtime error

3. What does the charAt method do?

- ☒ a) Returns the character at a specific index
- b) Changes the character at a specific index
- c) Removes the character at a specific index
- d) None of the above

4. What will String str = null; do?

- a) Creates a new String with no characters
- b) Creates a String pointing to "null"
- ☒ c) Does not create any String
- d) Creates an empty String

5. How to convert a string to upper case?

- ☒ a) toUpperCase()
- b) upperCase()
- c) toUppercase()
- d) Uppercase()




Dr. D. SENTHIL KUMARAN M.E., Ph.D (NUS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul - Palani Highway, Dindigul - 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

6. What does the length() method return?

- a) ASCII value of first character
- ☒ b) Number of characters
- c) A new String
- d) None of the above

7. Which method is used to check the equality of the content of two strings in Java?

- a) ==
- b) compareTo()
- ☒ c) equals()
- d) equalStrings()

8. What is the result of "Java".concat("Script")?

- a) Java Script
- ☒ b) JavaScript
- c) JavaconcatScript
- d) A compilation error

9. Which method replaces a character in a string?

- ☒ a) replace()
- b) replaceChar()
- c) setChar()
- d) changeChar()

10. Which method removes whitespace from the beginning and end of a string?

- ☒ a) trim()
- b) strip()
- c) clean()
- d) chop()

11. Is the String class in Java thread-safe?

- ☒ a) Yes
- b) No
- c) Only when synchronized
- d) Depends on the method being called



Dr. D. SENTHIL KUMARAN M.E., Ph.D. (IITM)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul - 624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

12. What is the String Constant Pool in Java?

- a) A pool where all string methods are stored
- ☒ b) A special area of the heap memory where string literals are stored and reused
- c) A memory space where string objects are stored temporarily
- d) A section of the Java library dedicated to string operations

13. When does a string get added to the String Constant Pool?

- a) Whenever the new keyword is used
- b) Whenever a string is modified using string methods
- ☒ c) When a string literal is defined in the code
- d) Whenever a string is passed as an argument to a method

14. How can you ensure that a string created using the new keyword gets placed in the String Constant Pool?

- a) By appending another string to it
- ☒ b) By using the intern() method of the String class
- c) By converting it to a string literal
- d) By calling the toString() method on it

15. Why does Java utilize a String Constant Pool?

- a) To increase the complexity of string operations
- b) To ensure that each string object has a unique memory address
- ☒ c) To save memory by avoiding the storage of duplicate string values
- d) To improve the speed of string concatenation operations



[Handwritten signature]

Dr. P. S. RATHI, M.Tech, Ph.D., IIT Madras, IAS, IISc
Senior Lecturer
Department of Mechanical Engineering
SSM Institute of Engineering and Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

Technology Training on Advanced Java Programming for Final Year

Assessment Questions

Total: 15

1. How to create a new String object in Java?

- ☒ a) new String();
- b) String.new();
- c) String{};
- d) new Object(String);

2. What is the output of "Java" == "Java" in Java?

- ☒ a) true
- b) false
- c) Compilation error
- d) Runtime error

3. What does the charAt method do?

- ☒ a) Returns the character at a specific index
- b) Changes the character at a specific index
- c) Removes the character at a specific index
- d) None of the above

4. What will String str = null; do?

- a) Creates a new String with no characters
- b) Creates a String pointing to "null"
- ☒ c) Does not create any String
- d) Creates an empty String

5. How to convert a string to upper case?

- ☒ a) toUpperCase()
- b) upperCase()
- c) toUppercase()
- d) Uppercase()



Dr. D. SENTHIL KUMARAN

Dr. D. SENTHIL KUMARAN M.E., Ph.D (NUS)

Senior Professor

Department of Mechanical Engineering

SSM Institute of Engineering Technology

Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)
Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering
Value Added Course (2021-2022)

6. What does the length() method return?

- a) ASCII value of first character
- ☒ b) Number of characters
- c) A new String
- d) None of the above

7. Which method is used to check the equality of the content of two strings in Java?

- a) =
- b) compareTo()
- ☒ c) equals()
- d) equalStrings()

8. What is the result of "Java".concat("Script")?

- ☒ a) Java Script
- b) JavaScript
- c) JavaconcatScript
- d) A compilation error

9. Which method replaces a character in a string?

- ☒ a) replace()
- b) replaceChar()
- c) setChar()
- d) changeChar()

10. Which method removes whitespace from the beginning and end of a string?

- ☒ a) trim()
- b) strip()
- c) clean()
- d) chop()

11. Is the String class in Java thread-safe?

- ☒ a) Yes
- b) No
- c) Only when synchronized
- d) Depends on the method being called



Dr.D.SENTHIL KUMARAN M.E., Ph.D., JNUS,
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul - Palani Highway, Dindigul - 624 002

Department of Computer Science and Engineering
Value Added Course (2021-2022)

12. What is the String Constant Pool in Java?

- a) A pool where all string methods are stored
- ☒ b) A special area of the heap memory where string literals are stored and reused
- c) A memory space where string objects are stored temporarily
- d) A section of the Java library dedicated to string operations

13. When does a string get added to the String Constant Pool?

- a) Whenever the new keyword is used
- b) Whenever a string is modified using string methods
- ☒ c) When a string literal is defined in the code
- d) Whenever a string is passed as an argument to a method


14. How can you ensure that a string created using the new keyword gets placed in the String Constant Pool?

- a) By appending another string to it
- ☒ b) By using the intern() method of the String class
- c) By converting it to a string literal
- d) By calling the toString() method on it

15. Why does Java utilize a String Constant Pool?

- a) To increase the complexity of string operations
- b) To ensure that each string object has a unique memory address
- ☒ c) To save memory by avoiding the storage of duplicate string values
- d) To improve the speed of string concatenation operations




Dr. D. SENTHI KUMAR M.E., Ph.D (MOS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

Technology Training on Advanced Java Programming for Final Year

Assessment Questions

Total: 15

1. How to create a new String object in Java?

- a) ☒ new String();
- b) String.new();
- c) String{};
- d) new Object(String);



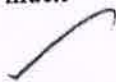
2. What is the output of "Java" == "Java" in Java?

- a) ☒ true
- b) false
- c) Compilation error
- d) Runtime error



3. What does the charAt method do?

- a) ☒ Returns the character at a specific index
- b) Changes the character at a specific index
- c) Removes the character at a specific index
- d) None of the above



4. What will String str = null; do?

- a) Creates a new String with no characters
- b) Creates a String pointing to "null"
- c) ☒ Does not create any String
- d) Creates an empty String



5. How to convert a string to upper case?

- a) ☒ toUpperCase()
- b) upperCase()
- c) toUppercase()
- d) Uppercase()



Handwritten signature

DIND. SENTHIL K. RAN M.E., Ph.D (NUS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002

Jegann H
12 - CSE



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul - Palani Highway, Dindigul - 624 002

Department of Computer Science and Engineering
Value Added Course (2021-2022)

6. What does the length() method return?

- a) ASCII value of first character
- b) ☒ Number of characters
- c) A new String
- d) None of the above

7. Which method is used to check the equality of the content of two strings in Java?

- a) =
- b) compareTo()
- c) ☒ equals()
- d) equalStrings()

8. What is the result of "Java".concat("Script")?

- a) Java Script
- b) ☒ JavaScript
- c) JavaconcatScript
- d) A compilation error

9. Which method replaces a character in a string?

- a) ☒ replace()
- b) replaceChar()
- c) setChar()
- d) changeChar()


10. Which method removes whitespace from the beginning and end of a string?

- a) ☒ trim()
- b) strip()
- c) clean()
- d) chop()

11. Is the String class in Java thread-safe?

- a) ☒ Yes
- b) No
- c) Only when synchronized
- d) Depends on the method being called




Dr. D. SENTHIL KUMARAN M.E., P.E.D. (MUS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi / Affiliated to Anna University, Chennai / Accredited by NAAC)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Value Added Course (2021-2022)

12. What is the String Constant Pool in Java?

- a) A pool where all string methods are stored
- ☒ b) A special area of the heap memory where string literals are stored and reused
- c) A memory space where string objects are stored temporarily
- d) A section of the Java library dedicated to string operations

13. When does a string get added to the String Constant Pool?

- a) Whenever the new keyword is used
- b) Whenever a string is modified using string methods
- ☒ c) When a string literal is defined in the code
- d) Whenever a string is passed as an argument to a method

14. How can you ensure that a string created using the new keyword gets placed in the String Constant Pool?

- a) By appending another string to it
- ☒ b) By using the intern() method of the String class
- c) By converting it to a string literal
- d) By calling the toString() method on it

15. Why does Java utilize a String Constant Pool?

- a) To increase the complexity of string operations
- b) To ensure that each string object has a unique memory address
- ☒ c) To save memory by avoiding the storage of duplicate string values
- d) To improve the speed of string concatenation operations



Dr.D.SENTHIL KUMARAN M.A., Ph.D (INUS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai Accredited by NAAC
ECE, EEE, MECH – NBA Accredited)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Feedback Form

Topic Value Added course on “Advanced Java Programming”

Conducted by Ms. V. Nivedhitha, AP/CSE
Ms. N. Anu Lavanya, AP/CSE

Target Group IV year CSE Students

Date/Venue/Timing 26.05.2022 – 03.06.2022/CSE LAB II/09.00 am - 03.30 pm

1. Content delivered by Resource person
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
2. Resource person's knowledge on content delivery
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
3. Response of the resource person to students queries
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
4. Whether the session was useful
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
5. Overall experience
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
6. Suggestions/ any comments



[Signature]

[Signature]
Signature of the participant

Dr.D.SENTHIL KUMARAN M.E., Ph.D (NUS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai Accredited by NAAC

ECE, EEE, MECH - NBA Accredited)

Dindigul - Palani Highway, Dindigul - 624 002

Department of Computer Science and Engineering

Feedback Form

Topic Value Added course on "Advanced Java Programming"

Conducted by Ms. V. Nivedhitha, AP/CSE
Ms. N. Anu Lavanya, AP/CSE

Target Group IV year CSE Students

Date/Venue/Timing 26.05.2022 - 03.06.2022/CSE LAB II/09.00 am - 03.30 pm

1. Content delivered by Resource person
 - ☐ Excellent
 - ☒ Good
 - ☐ Fair
2. Resource person's knowledge on content delivery
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
3. Response of the resource person to students queries
 - ☐ Excellent
 - ☒ Good
 - ☐ Fair
4. Whether the session was useful
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
5. Overall experience
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
6. Suggestions/ any comments



Johny
Signature of the participant

Dr.D.Senthil Kumar
Dr.D.SENTHIL KUMARAN M.E., Ph.D
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai Accredited by NAAC
ECE, EEE, MECH - NBA Accredited)

Dindigul - Palani Highway, Dindigul - 624 002

Department of Computer Science and Engineering

Feedback Form

Topic

Value Added course on "Advanced Java Programming"

Conducted by

Ms. V. Nivedhitha, AP/CSE

Ms. N. Anu Lavanya, AP/CSE

Target Group

IV year CSE Students


Date/Venue/Timing

26.05.2022 - 03.06.2022/CSE LAB II/09.00 am - 03.30 pm

1. Content delivered by Resource person
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
2. Resource person's knowledge on content delivery
 - ☐ Excellent
 - ☒ Good
 - ☐ Fair
3. Response of the resource person to students queries
 - ☐ Excellent
 - ☒ Good
 - ☐ Fair
4. Whether the session was useful
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
5. Overall experience
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
6. Suggestions/ any comments



Dr.D.SENTHIL KUMARAN M.E.,Ph.D (NUS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002


Signature of the participant



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai Accredited by NAAC

ECE, EEE, MECH – NBA Accredited)

Dindigul – Palani Highway, Dindigul – 624 002

Department of Computer Science and Engineering

Feedback Form

Topic Value Added course on “Advanced Java Programming”

Conducted by Ms. V. Nivedhitha, AP/CSE
Ms. N. Anu Lavanya, AP/CSE

Target Group IV year CSE Students

Date/Venue/Timing 26.05.2022 – 03.06.2022/CSE LAB II/09.00 am - 03.30 pm

1. Content delivered by Resource person
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
2. Resource person's knowledge on content delivery
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
3. Response of the resource person to students queries
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
4. Whether the session was useful
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
5. Overall experience
 - ☒ Excellent
 - ☐ Good
 - ☐ Fair
6. Suggestions/ any comments



Signature of the participant

Dr.D.SENTHIL KUMARAN M.E.,Ph.D /NUS

Senior Professor

Department of Mechanical Engineering

SSM Institute of Engineering Technology

Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai Accredited by NAAC)

ECE, EEE, MECH – NBA Accredited)

Dindigul – Palani Highway, Dindigul -- 624 002

Department of Computer Science and Engineering

Feedback Form

Topic Value Added course on "Mongo DB"

Conducted by Ms. N. Padmapriya, AP/CSE
Ms. A. Priyanka, AP/CSE

Target Group III year CSE Students

Date/Venue/Timing 25.04.2022 – 06.05.2022/CSE LAB II/09.00 am - 03.00 pm

1. Content delivered by Resource person
☒ Excellent
☐ Good
☐ Fair
2. Resource person's knowledge on content delivery
☒ Excellent
☐ Good
☐ Fair
3. Response of the resource person to students queries
☒ Excellent
☐ Good
☐ Fair
4. Whether the session was useful
☒ Excellent
☐ Good
☐ Fair
5. Overall experience
☒ Excellent
☐ Good
☐ Fair
6. Suggestions/ any comments



Signature of the participant *Krishna V*

Dr.D.SENTHIL KUMARAN M.E., Ph.D (NUS)

Senior Professor

Department of Mechanical Engineering

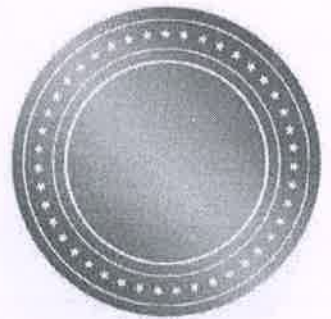
SSM Institute of Engineering Technology


Palani Road, Dindigul-624 002


**SSM INSTITUTE OF ENGINEERING AND
TECHNOLOGY**

CERTIFICATE OF PARTICIPATION

This certificate is given to Ms/Mr Sudhan M of IV- CSE has attended the
Technological Training of Advanced Java Programming from 26.05.2022 to 03.06.2022
in SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.




Principal
SSMIET


Trainer
Silicon Software Services

Dr. D. SENTHIL
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dr. D. SENTHIL KUMARAN M.E., Ph.D. (MOS)
Senior Professor

Department of Mechanical Engineering
SSM-Institute of Engineering Technology
Delant Road, Dindigul-624 002

CERTIFICATE OF PARTICIPATION



86 This certificate is given to Ms/Mr Dhanusiya V S of IV- CSE has attended the

Technological Training of Advanced Java Programming from 26.05.2022 to 03.06.2022
in SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.

Trainer

Silicon Software Services



Principal

SSMIET

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This certificate is given to Ms/Mr Vijay G of IV - CSE has attended the Technological
Training of Advanced Java Programming from 26.05.2022 to 03.06.2022 in SSM
INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.

[Signature]
Trainer

Silicon Software Services

[Signature]
Principal
SSMIET



Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-624 002



SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dr. D. SENTHIL KUMARAN M.E., Ph.D (INUS)

Senior Professor

Department of Mechanical Engineering

SSM Institute of Engineering Technology

Palani Road, Dindigul 624 002

CERTIFICATE OF PARTICIPATION



This certificate is given to Ms/Mr Jaya Priya G of IV- CSE has attended the

Technological Training of Advanced Java Programming from 26.05.2022 to 03.06.2022

in SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.

Trainer

Silicon Software Services



Principal

SSMIET

SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This certificate is given to Ms/Mr Janani M of IV- CSE has attended the Technological
Training of Advanced Java Programming from 26.05.2022 to 03.06.2022 in SSM
INSTITUTE OF ENGINEERING AND TECHNOLOGY, DINDIGUL.

[Signature]
Trainer

Silicon Software Services

[Signature]
Principal
SSMIET



Dr.D.GENTIL KUMARAN M.E.,Ph.D (MOS)
Senior Professor
Department of Mechanical Engineering
SSM Institute of Engineering Technology
Palani Road, Dindigul-626 002