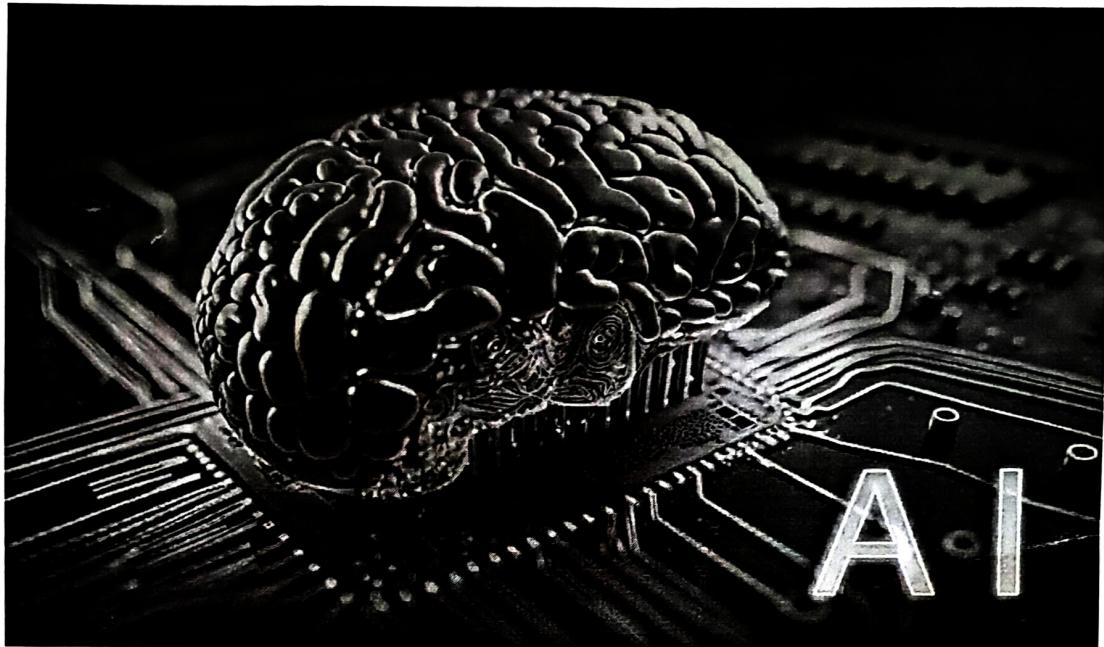




SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul - 624002.



VALUE ADDED COURSE

06-03-2023 to 10-03-2023

Department of Electronics and Communication Engineering

March -2023

Event Coordinators: Dr.K.VINOTH KUMAR, Prof/ECE & Dr. M.PREM KUMAR,
AsP/ECE

1
Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(NUS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Nandalagundu (Po),
Palani Road, Dindigul - 624 002





SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY
Department of Electronics and Communication Engineering

Technology Training Artificial Intelligence

Date: 06.03.2023

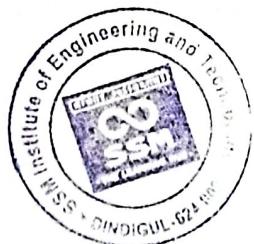
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| 9 | Sample Certificate | 14 |

J. Rathaiah
HoD/ECE

Principal

D. D. SENTHIL KUMARAN, M.E., Ph.D., (Woo)
Principal
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Kuttathupathi Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.





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

Email:ssmietdgl@gmail.com, Website: www.ssmiet.ac.in

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CIRCULAR

01.03.2023

The Department of ECE has planned to conduct the Technology Teaching for Final Year students was scheduled to be conducted on 06.03.2023 onwards. The main objective of this course is to acquire Skills in cloud computing and Artificial intelligence . The Students are asked to use this opportunity effectively.

| Course Title | Resource Person | No of Students | No.of hours | Faculty Incharge |
|-------------------------|---|----------------|--------------------------------|-----------------------------|
| ARTIFICIAL INTELLIGENCE | 1. Mr.Velmurugan, Team Lead, Pantech E-Learning. 2. Mr.Hariram, Sr.Project Engineer, Pantech E-Learning. | 40 | 06.03.2023 To 10.03.2023 | S.Abirami, K.Divya |
| CLOUD COMPUTING | Mr.Ajmeer Kaja Mohideen ,Advisory of Tarcin Robotics. | 72 | | Rajarajeswari S. Karthik |

Co-ordinators
Dr.K.Vinoth Kumar
Dr.M.Prem Kumar

Dr.S.Karthigai Lakshmi

2



Dr.Karthigai Lakshmi
HoD/ECE

Principal

Dr.D.Senthil Kumaran
Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (NUS)
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Palani Road, Dindigul - 624 002



SSM

INSTITUTE OF
ENGINEERING AND TECHNOLOGY

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Dindigul – Palani Highway, Dindigul -624 002)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

“Cloud Computing and Artificial Intelligence”

Date :06-03-2023 to 10.03.2023

Time: 9.00 am to 4.00 pm

Venue : Network Lab

Resource Person

Mr.Hariram,
Sr.project Engineer,Pantech
E - Learning

Mr.M.Velmurugan
Team Leader-Pantech Solution
E - Learning

Faculty Incharge
Mrs.S.Abirami
Mrs.K.Divya

HoD/ECE
Dr.S.Karthigai Lakshmi

Principal
Dr.D.Senthil Kumaran

All are cordially invited



3

Dr.D.SENTHIL KUMARAN, M.E., Ph.D.,(NUS)
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Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002

Participants Name List

| S.No | Name of the Student | Section | Signature |
|------|---------------------|---------|-------------------|
| 1 | AKILESH S | IV-A | Akilesh S |
| 2 | ARUL NANDHINI R | IV-A | Arul .R |
| 3 | AYESHA HAJERA S | IV-A | Ayesha S |
| 4 | CHANDRALEKHA K | IV-A | Chandra |
| 5 | DHARANY M | IV-A | M.Dharany |
| 6 | DIVYA K | IV-A | Divya K |
| 7 | DIVYADHARSHINI M | IV-A | Divyadharshini M |
| 8 | DIVYADHARSHINI R | IV-A | Divyadharshini R |
| 9 | GOKUL VINAYAGAM M | IV-A | Gokul Vinayagam M |
| 10 | HARIHARAN P | IV-A | Hariharan P. |
| 11 | HEMADHARSHINI S | IV-A | Heemadharshini S |
| 12 | JAYASREE M | IV-A | Jayasree M |
| 13 | RUTHRA SIVAGURU K | IV-A | Ruthra Sivaguru K |
| 14 | RENUKA P | IV-A | Reenuka P |
| 15 | SARATH KUMAR S | IV-A | Sarath Kumar S |
| 16 | RANJANI M | IV-B | Ranjani M |
| 17 | SITHARA R | IV-B | Sithara R |
| 18 | SHALINI S | IV-C | Shalini S |
| 19 | SNEKA R | IV-C | Sneka R |
| 20 | SHOBANA M | IV-C | Shobana M |
| 21 | SASIKUMAR M | IV-C | Sasikumar M |
| 22 | SHANJUVIKASINI J | IV-C | Shanjuvikasini J |
| 23 | SNEHA S | IV-C | Sneha S |
| 24 | SURYA PRAKASH C | IV-C | Surya Prakash C |
| 25 | YAMINI S | IV-C | Yamini S |
| 26 | VARUN KUMAR R | IV-C | Varun R |
| 27 | VIGNESH.R | IV-C | Vignesh.R |
| 28 | VISHWA KESAN.R | IV-C | Vishwa Kesan.R |



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

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SSM Institute of Engineering and Technology

Kuttathupatti Village, Sindhalagundu (Po).

Palan: Road, Dindigul - 624 002



Participants Attendance

| S.No | Name of the Student | 6/3 | 7/3 | 8/3 | 9/3 | 10/3 |
|------|---------------------|-----|-----|-----|-----|------|
| 1 | AKILESH S | / | / | / | / | / |
| 2 | ARUL NANDHINI R | / | / | / | / | / |
| 3 | AYESHA HAJERA S | / | AB | / | / | / |
| 4 | CHANDRALEKHA K | / | / | / | / | / |
| 5 | DHARANY M | / | / | / | / | / |
| 6 | DIVYA K | / | / | / | / | / |
| 7 | DIVYADHARSHINI M | / | / | / | / | / |
| 8 | DIVYADHARSHINI R | / | / | / | / | / |
| 9 | GOKUL VINAYAGAM M | / | / | / | / | AB |
| 10 | HARIHARAN P | / | / | / | / | / |
| 11 | HEMADHARSHINI S | / | / | / | / | / |
| 12 | JAYASREE M | / | / | / | / | / |
| 13 | RUTHRA SIVAGURU K | / | / | AB | / | / |
| 14 | RENUKA P | / | / | / | / | / |
| 15 | SARATH KUMAR S | / | / | / | / | / |
| 16 | RANJANI M | / | / | / | / | / |
| 17 | SITHARA R | / | / | / | / | / |
| 18 | SHALINI S | / | / | / | / | / |
| 19 | SNEKA R | / | / | / | / | / |
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| 21 | SASIKUMAR M | / | / | / | / | / |
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| 25 | YAMINI S | / | / | / | / | / |
| 26 | VARUN KUMAR R | / | / | / | / | / |
| 27 | VIGNESH.R | / | AB | / | / | / |
| 28 | VISHWA KESAN.R | / | / | AB | / | / |



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MECH – NBA Accredited)
Dindigul – Palani Highway, Dindigul – 624 002

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course Summary 2022-2023

Course Name: Artificial Intelligence

Course Duration: 40 hours

Year Offered: 2022-2023

Course Instructors: Mr.Velmurugan,Team Lead,
Mr.Hariram,Sr.Project Engineer,
Pantech E-Learning

Course Outcome:

On completion of the course, students will be able to learn techniques for reasoning under uncertainty and use appropriate search algorithms for problem solving.

Course Type: Self Framed/Collaboration with Industry

Assessment Mode

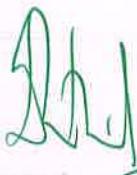
Attendance: 48 hours

Number of Participants: 28

Scheme of Exam: MCQ Offline Mode



K.D
Course Co-ordinators



J.Kethu
HoD/ECE

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

Report

Artificial intelligence is the simulation of human intelligence processes by machines, especially computer systems. Specific applications of AI include expert systems, natural language processing, speech recognition and machine vision. Machines today can learn from experience, adapt to new inputs, and even perform human-like tasks with help from artificial intelligence (AI). Artificial intelligence examples today, from chess-playing computers to self-driving cars, are heavily based on deep learning and natural language processing.

Industries generate tons of valuable data in a single day. With the right industrial AI models, all the raw data can be turned in to useful insights that can lead the designers or engineers in to discovering new ways to improve and update according to the latest technologies. Within the context of industrial applications for automated processes, there are four key types of automation: fixed automation, programmable automation, flexible automation, and integrated automation.

AI can detect safety hazards in real-time by analyzing data from various sensors and devices. This enables organizations to identify potential accidents before they occur and take preventive measures. Manufacturers use AI to analyze sensor data and predict breakdowns and accidents.

Machine learning is a branch of artificial intelligence (AI) and computer science which focuses on the use of data and algorithms to imitate the way that humans learn, gradually improving its accuracy. Classical machine learning is often categorized by how an algorithm learns to become more accurate in its predictions. There are four basic approaches: supervised learning, unsupervised learning, semi-supervised learning and reinforcement learning. Smartphone use personal voice assistants like Siri, Alexa, Cortana, etc. These personal assistants are an example of ML-based speech recognition that uses Natural Language Processing to interact with the users and formulate a response accordingly. Machine Learning is also used in social media.

There are many applications and companies that used machine learning for doing their day to day process as it is being more accurate and precise than manual interventions. These companies are Netflix, face book, Google maps, Gmail, Google search etc. Facial recognition paired with deep learning has become highly useful in healthcare to help detect genetic diseases or track a patient's use of medication more accurately.



Photo



J-Kathir
HoD/ECE


Principal

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Principal
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Palanji Road, Dindigul - 624 002.





SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

Name:
Register No:

MCQ

1. The "Father of Artificial Intelligence" is:

- a. Alan Turing
- b. Charles Babbage
- c. John McCarthy
- d. None of the above

2. Blind Search can be used for which of the following situations?

- a. Real-Life Simulation
- b. Small Search Space
- c. Advanced Game Theory
- d. None of the above

3. In how many category processes is Artificial Intelligence classified in?

- a. Depends on the input nature
- b. 5
- c. 2
- d. 3

4. If a machine can change its course of action based on the external environment on its own, the machine is called?

- a. Mobile
- b. Intelligent
- c. Both A and B
- d. None of the above

5. Which of the following is the common language for Artificial Intelligence?

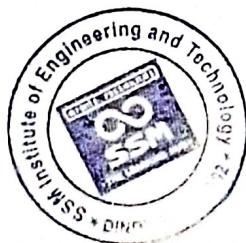
- a. Python
- b. Java
- c. Lisp
- d. PHP

A handwritten signature in black ink, appearing to read "R. Senthil Kumaran".

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

Principal

SSM Institute of Engineering and Technology
Ettathepatu Village, Sindhalagundu (Po),
Palanji Road, Dindigul - 624 002.



6.Which of the following is not an application of artificial intelligence?

- a.Computer Vision
- b.Natural Language Processing
- c.Database Management System
- d.Digital Assistants

7. The proposition symbols in AI are?

- a.true and false
- b.true, false, and null
- c.true
- d.false

8. Which of the following symbols in AI are logical symbols?

- a.Negation
- b.Conjunction
- c.Implication
- d.All of the above

9. Which of the following are informed search methods?

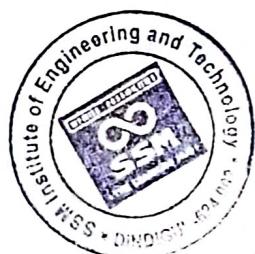
- a.Best First Search
- b.A* Search
- c.Memory Bound Heuristic Search
- d.All of the above

10. What are the different types of Artificial Intelligence approaches?

- a.Strong Approach
- b.Weak Approach
- c.Applied Approach
- d.All of the above



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SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Electronics and Communication Engineering

Name: Akilesh
Register No: 922119106004

MCQ

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- c. John McCarthy
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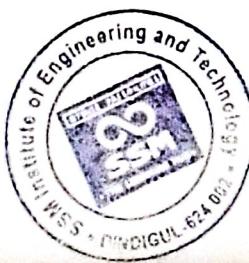
- a. Mobile
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5. Which of the following is the common language for Artificial Intelligence?

- a. Python
- b. Java
- c. Lisp
- d. PHP

10

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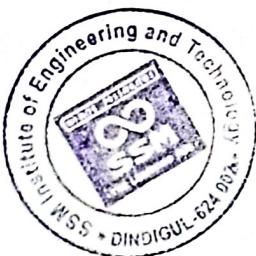
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Palani Road, Dindigul - 624 002.



MCQ Marks

| S.No | Name of the Student | Marks |
|------|---------------------|-------|
| 1 | AKILESH S | 10 |
| 2 | ARUL NANDHINI R | 9 |
| 3 | AYESHA HAJERA S | 9 |
| 4 | CHANDRALEKHA K | 8 |
| 5 | DHARANY M | 10 |
| 6 | DIVYA K | 8 |
| 7 | DIVYADHARSHINI M | 8 |
| 8 | DIVYADHARSHINI R | 9 |
| 9 | GOKUL VINAYAGAM M | 8 |
| 10 | HARIHARAN P | 8 |
| 11 | HEMADHARSHINI S | 7 |
| 12 | JAYASREE M | 9 |
| 13 | RUTHRA SIVAGURU K | 9 |
| 14 | RENUKA P | 10 |
| 15 | SARATH KUMAR S | 7 |
| 16 | RANJANI M | 8 |
| 17 | SITHARA R | 9 |
| 18 | SHALINI S | 9 |
| 19 | SNEKA R | 8 |
| 20 | SHOBANA M | 9 |
| 21 | SASIKUMAR M | 8 |
| 22 | SHANJUVIKASINI J | 9 |
| 23 | SNEHA S | 8 |
| 24 | SURYA PRAKASH C | 7 |
| 25 | YAMINI S | 9 |
| 26 | VARUN KUMAR R | 8 |
| 27 | VIGNESH.R | 8 |
| 28 | VISHWA KESAN.R | 9 |



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Feedback

| S.No | Name of the Student | How would you rate the overall webinar experience | After the webinar how inspired did you feel | Share your few words about the webinar |
|------|---------------------|---|---|--|
| 1 | AKILESH S | 5 | 5 | It was interactive and good |
| 2 | ARUL NANDHINI R | 5 | 5 | Interesting |
| 3 | AYESHA HAJERA S | 4 | 3 | Good |
| 4 | CHANDRALEKHA K | 5 | 5 | Very nice |
| 5 | DHARANY M | 5 | 5 | Good |
| 6 | DIVYA K | 4 | 4 | Good |
| 7 | DIVYADHARSHINI M | 5 | 4 | He extremely used easy words for the understanding of the students and awesomely conveyed the contents |
| 8 | DIVYADHARSHINI R | 4 | 5 | Good |
| 9 | GOKUL VINAYAGAM M | 4 | 4 | It's very useful to us |
| 10 | HARIHARAN P | 5 | 5 | Really interesting explanation and gained a basic knowledge about haptic technology. |
| 11 | HEMADHARSHINI S | 4 | 4 | Usefull session |
| 12 | JAYASREE M | 5 | 5 | So Useful |
| 13 | RUTHRA SIVAGURU K | 5 | 5 | Useful |
| 14 | RENUKA P | 4 | 4 | Very useful |
| 15 | SARATH KUMAR S | 5 | 5 | Good |
| 16 | RANJANI M | 5 | 5 | Good |
| 17 | SITHARA R | 5 | 3 | Good |
| 18 | SHALINI S | 4 | 4 | Good |
| 19 | SNEKA R | 4 | 4 | Good |
| 20 | SHOBANA M | 3 | 3 | Nice |
| 21 | SASIKUMAR M | 5 | 5 | It's very useful to learn new topics |
| 22 | SHANJUVIKASINI J | 5 | 5 | It very useful to learn new topic |
| 23 | SNEHA S | 5 | 5 | Good |
| 24 | SURYA PRAKASH C | 5 | 5 | Good |
| 25 | YAMINI S | 5 | 5 | Nice |
| 26 | VARUN KUMAR R | 4 | 5 | Best |
| 27 | VIGNESH.R | 5 | 4 | Nice session |
| 28 | VISHWA KESAN.R | 4 | 5 | Very useful session, informative session |





SSM INSTITUTE OF ENGINEERING & Panteche Learning
AND TECHNOLOGY
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE

OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

—

Jeyashree.M

for attending value added course on "Artificial Intelligence"
conducted by Department of Electronics and Communication
Engineering, SSM Institute of Engineering and Technology
between 6 to 10th March,2023.



Dr. L. DENVILL KUMARAN, M.E., Ph.D., (NUS)
Principal
SSM Institute of Engineering and Technology
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Kallai Road, Dindigul - 624 002.

Director
Panteche Learning



SSM INSTITUTE OF ENGINEERING & Panteche Learning
DIGITAL LEARNING SIMPLIFIED
AND TECHNOLOGY

CERTIFICATE

OF PARTICIPATION
THIS CERTIFICATE IS PRESENTED TO

Hariharan.P

for attending value added course on "Artificial Intelligence"
conducted by Department of Electronics and Communication
Engineering, SSM Institute of Engineering and Technology
between 6 to 10th March,2023.



Dr. U. SENTHIL KUMARAN, M.E., Ph.D., [NUS]
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Director
Panteche Learning



SSM INSTITUTE OF ENGINEERING & TECHNOLOGY

Pantech e Learning
DIGITAL LEARNING SIMPLIFIED

CERTIFICATE

OF PARTICIPATION

THIS CERTIFICATE IS PRESENTED TO

Dharany.M

for attending value added course on "Artificial Intelligence"
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Engineering, SSM Institute of Engineering and Technology
between 6 to 10th March,2023.



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Pantech e Learning