

Adichunchanagiri Institute of Technology, Chikkamagaluru

Department of Computer Science and Engineering

Index

Sl. No.	Type of Program	Title	Year
1	Add-On Course	Basics of MATLAB Lab Tool	2017-18
		E-Waste Management	
2	Add-On Course	Software Testing	2018-19
		Basics of VLSI Design	
		Deep Learning: AI	
3	Add-On Course	Advances in Machine Learning	2020-21
		Advances in Android Application Development	
4	Add-On Course	Digital Image Processing	2021-22
		LaTeX Editing Tool	

ADD-ON Program

2017-18

ADD ON PROGRAM

ON

“Basics of MATLAB

Tool”



ADD-ON Course

On

"Basics of MATLAB Tool"



Organized by,

Department of Computer Science and Engineering.

Adichunchanagiri Institute of Technology,

Chikmagalur – 577102

Karnataka, India

www.aitechmagalur.ac.in

About the College:

Adichunchanagiri Institute of Technology (AIT) was established in the year 1980 under the auspicious of Adichunchanagiri Shikshana Trust(R) with the blessings of Bhairavaikya Jagadguru Padmabhushana Sri Sri Sri Dr. Balangadharanatha Mahaswamiji to provide technical and other professional education in the rural area of Chikmagalur, the land of Coffee. With the blessings of Jagadguru Sri. Sri. Sri. Nirmalanandanatha Swamiji, AIT is

imparting the quality education in Engineering and Management with ethical and spiritual values. The engineering departments have recognized as research centers under VTU. The college has well equipped laboratory facilities and highly qualified and experienced faculty. The Institute is providing good training for students to excel in academics as well as in industry requirements and aims towards 100% placements to give a better future for students.

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The department offers UG, PG Courses with an intake of 120 and 18 respectively and facilitates R&D through VTU recognized research center. The department has received funds from various reputed agencies like AICTE, VGST, KSCST, ISRO, ISTE, etc., for its activities.

Objectives of the Course:

To Impart the Knowledge to the students with MATLAB software. [This enhances programming knowledge in Research and

Development].It provides a working introduction to the Matlab technical computing environment. [Themes of data analysis, visualization, and programming].It helps to introduce students the use of a high-level programming language, Matlab. [scientific problem solving with applications and examples from Engineering].

Resource Person:

Mr. Varun E.

Assistant Professor

Dept of CS&E, AIT, Chikkamagaluru

Convenor:

Dr. Pushpa Ravi kumar, Professor and Head, Dept. of CS&E.

Coordinator:

Mr. Chethan P J, Asst Professor, Dept. CS&E, AIT, Chikkamagaluru



|| Jai Sri Gurudev ||



**SRI ADICHUNCHANAGIRI SHIKSHANA TRUST ®
ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY,
CHIKKAMAGALURU**

P.B No.91, Adichunchanagiri Extension, Chikkamagaluru-577 102, Karnataka, India.

Ref: AIT/IQAC/CSE/ /2018-19

Date: 26/11/2018

Circular

Department of Computer Science & Engineering is conducting a Certificate Program (Add-on Program) on "**Basics of MATLAB Tool**" from **26/11/2018** to **30/11/2018**. All other HOD's instruct the concern department students to attend the program. Following faculty member (Course instructor) is conducting a certificate program at CS&E Department.

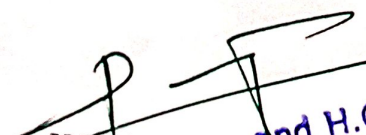
Course Instructor


Mr. Chethan P J

Assistant Professor

Dept. of CS&E

AIT Chikmagalur


HOD's Signature and H.O.D.
Professor
Department of Computer Science and
Adichunchanagiri Institute of Technology
CHIKKAMAGALURU - 577102


Principal Signature
Dr. C.T. JAYADEVA
Principal B.E., M.Tech., Ph.D
Adichunchanagiri Institute of Technology
CHIKKAMAGALURU-577102

Basics of MATLAB Tool
Add on Course for V Semester
B.E. Computer Science and Engineering

Duration: 30 Hours

Learning Objectives:

1. To learn features of MATLAB as a programming tool.
2. To promote new teaching model that will help to develop programming skills and technique to solve mathematical problems.
3. To understand MATLAB graphic feature and its applications.
4. To use MATLAB as a simulation tool.

Module 1. Introduction to MATLAB

- The MATLAB Environment
- MATLAB Basics – Variables, Numbers, Operators, Expressions, Input and output.
- Vectors, Arrays – Matrices

Module 2. MATLAB Functions.

- Built-in Functions
- User defined Functions

Module 3. Programming with MATLAB

- Conditional Statements, Loops
- MATLAB Programs – Programming and Debugging.
- Applications of MATLAB Programming.

References:

1. "A Guide to MATLAB - for Beginners and Experienced Users", 2nd Ed., Brian R. Hunt, Ronald L. Lipsman, Jonathan M. Rosenberg, Cambridge University Press, (2006).
2. "Essentials of MATLAB Programming", 2nd Ed., Stephen J. Chapman, Cengage Learning, (2009).

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CHIKKAMAGALURU-577102
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING


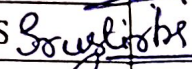
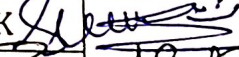

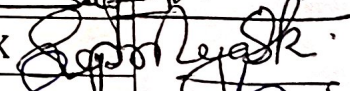
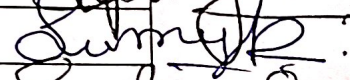
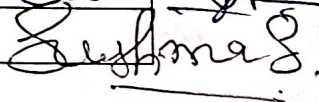
ADD-ON Course – Basics of MATLAB Tool

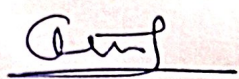
Enrollment List

Sl. NO	USN	Student Name
1	4AI14CS012	APOORVA S R <i>Apoorva</i>
2	4AI14CS026	DEEKSHA K N <i>Deek</i>
3	4AI15CS002	ABHISHEK G <i>Abhishek</i>
4	4AI15CS028	CHANDANA PH <i>Chandana</i>
5	4AI15CS051	KOUSHIK S D <i>Koushik</i>
6	4AI15CS064	NIDHI A R <i>Nidhi</i>
7	4AI15CS103	SIDDANTH B K <i>Siddanth</i>
8	4AI16CS002	ADYA H N <i>Adya</i>
9	4AI16CS003	AGNES SANMATHI D <i>Agnes</i>
10	4AI16CS004	ALFIYA BANU <i>Alfiya</i>
11	4AI16CS006	ANANYA K V <i>Ananya</i>
12	4AI16CS007	ANUSHA K N <i>Anusha</i>
13	4AI16CS008	ANUVIKA A S <i>Anuvika</i>
14	4AI16CS009	ARVIND GIRISH <i>Arvind</i>
15	4AI16CS011	BABITHA B <i>Babitha</i>
16	4AI16CS012	BHAGYASHREE H D <i>Bhagyashree</i>
17	4AI16CS013	BHOOMIKA G S <i>Bhoomika</i>
18	4AI16CS014	BHOOMIKA K <i>Bhoomika</i>
19	4AI16CS015	BINDUSHREE C <i>Bindushree</i>
20	4AI16CS016	BINDUSREE B R <i>Bindusree</i>

21	4AI16CS019	CHINMAYEE <u>Chinnu</u>
22	4AI16CS023	DEEPAK N R <u>Deepak</u>
23	4AI16CS025	GADDI CHETAN <u>Chethan</u>
24	4AI16CS026	GOURAV B R <u>Gourav</u>
25	4AI16CS027	HARSHA H K <u>Harsha H N</u>
26	4AI16CS028	JAYASHREE <u>Jagashree</u>
27	4AI16CS029	JEEVAN A S <u>Jeevan</u>
28	4AI16CS030	KALPASHREE Y <u>Kalpashree Y</u>
29	4AI16CS031	KARTHIK N L <u>Karthik</u>
30	4AI16CS032	KAVYA S <u>Kavya S</u>
31	4AI16CS033	KAVYA S K <u>Kavya S K</u>
32	4AI16CS034	KAVYASHREE C M <u>Kavya S C M</u>
33	4AI16CS035	KHALEEL AHAMED <u>Khalcel</u>
34	4AI16CS036	KOWSHIK V <u>Kowshik V</u>
35	4AI16CS037	KRUTHIKA G NAYAK <u>Kruthika</u>
36	4AI16CS038	LEANDRA MARIA MENDON <u>Leandra Maria Mendon</u>
37	4AI16CS040	MANISHA P BEERAI AH <u>Manisha P Beerai AH</u>
38	4AI16CS042	MEGHANA D Y <u>Meghana D Y</u>
39	4AI16CS047	NAVEEN P PARVATHANENI <u>Naveen P Parvathaneni</u>
40	4AI16CS048	NAYANA K S <u>Nayana K S</u>
41	4AI16CS049	NESARA B R <u>Nesara B R</u>
42	4AI16CS051	NISCHITHA K S <u>Nischitha K S</u>
43	4AI16CS052	NISHANTH K R <u>Nishanth K R</u>
44	4AI16CS053	NISWARTH V SHETTY <u>Nishwath V Shetty</u>
45	4AI16CS058	POOJA S <u>Pooja S</u>
46	4AI16CS059	POORNIMA C L <u>Poornima C L</u>
47	4AI16CS062	RACHANA N VANAGUR <u>Rachana N Vanagur</u>
48	4AI16CS127	POOJA C P <u>Pooja C P</u>

49	4AI14CS092	SHREYAS C B <u>Shreyas C.B.</u>
50	4AI15CS063	NAVANEETH G D <u>Nave</u>
51	4AI15CS102	SHUSHMA N GOWDA <u>Sush</u>
52	4AI15CS112	SUMAN V H <u>Suman</u>
53	4AI16CS039	MADHUMITHA KM <u>Mad</u>
54	4AI16CS065	RAKESH T 'R'
55	4AI16CS066	RAMANANDA S BHAT <u>Raman</u>
56	4AI16CS067	RAMYA R <u>Ramya</u>
57	4AI16CS068	RAMYASHREE C A <u>Ramyashree</u>
58	4AI16CS070	ROJA K S <u>Roja</u>
59	4AI16CS072	SADVI N B <u>Sadvi</u>
60	4AI16CS073	SAHANA DESAI <u>Sahana</u>
61	4AI16CS074	SAMRUDDHI D K <u>Samruddhi</u>
62	4AI16CS075	SAMRUDH PATEL D M <u>Patel DM</u>
63	4AI16CS076	SAMRUDHI H R <u>Sam</u>
64	4AI16CS079	SANJANA R <u>Sanjana</u>
65	4AI16CS080	SANJANA R G <u>Sanjana</u>
66	4AI16CS081	SAVEENA M M <u>Saveena M.M.</u>
67	4AI16CS082	SHARATH K R <u>Sharath</u>
68	4AI16CS085	SHREYA B R <u>Shreya</u>
69	4AI16CS086	SHRIKARAN C N <u>Shrikaran</u>
70	4AI16CS087	SHRUTHA R JAIN <u>Shrutha</u>
71	4AI16CS088	SIDDESH P <u>Siddesh</u>
72	4AI16CS089	SINCHANA S B <u>Sinchana S B</u>
73	4AI16CS090	SINCHANA S GOWDA <u>Sinchana</u>
74	4AI16CS091	SNEHA K <u>Sneha</u>
75	4AI16CS092	SOUMYA H <u>Soumya</u>

76	4AI16CS100	SRISTI BAGAMANE 
77	4AI16CS101	SRUSTI R B S 
78	4AI16CS102	SUMANTHA M K 
79	4AI16CS103	SUPRITH K 
80	4AI16CS104	SUPRIYA S K 
81	4AI16CS105	SURYA C P 
82	4AI16CS106	SUSHMA S 



Course Instructor's Signature



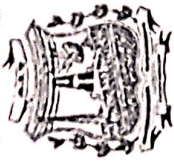
HOD's signature H.O.D.
 Department of Computer Science and E
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 CHIKMAGALUR - 577102



||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust (R)

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY



CHIKKAMAGALURU - 577 102

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Certificate of Participation

This is to certify that Meghana D.Y has successfully completed the add on course on "Basics of MATLAB Tool" from 26th to 30th November 2018, organized by Department of Computer Science and Engineering.

Prof. Chethan P J
Staff co-ordinator

Prof. S J Prashanth
Staff co-ordinator

Dr. Pushpa Ravikumar
H.O.D

**ADICHUNCHANAGIRI INSTITUTE OF
TECHNOLOGY, CHIKKAMAGALURU-577102.
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Add-On Course on "Basics of MATLAB Tool"**

OVER ALL Add-On Course PARTICIPANTS FEEDBACK

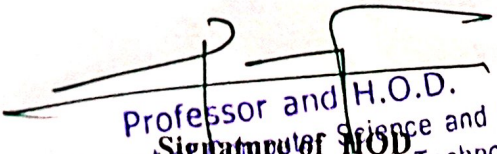
Sl.No	DESCRIPTION	EXCELLENT	GOOD	POOR
1	How would you rate the presenter's knowledge on the concept?	✓		
2	How would you rate the concepts and Information provided by the Presenter?		✓	
3	What was your overall impression of the session?		✓	
4	Remarks	Came to know about MATLAB, session was so helpful.		


 Signature of the Participant

ADICHUCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ADD ON COURSE: BASICS OF MATLAB TOOL

Toppers List

SLNo	Student Name	Student USN	Marks Obtained
1	SAMRUDHI H.R	4AI16CS076	44
2	DEEKSHA K.N	4AI14CS026	40
3	RAMYA R	4AI16CS067	32


Professor and H.O.D.
Department of Computer Science and Engg.
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU

Department of Computer Science & Engineering

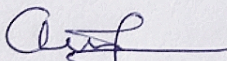
Summary Report

The course "Basics of MATLAB Tool" was conducted at CS&E Dept from 26/11/2018 to 30/11/2018.

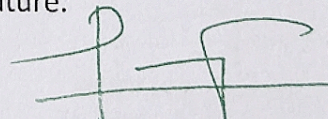
During the course ,the students are able to understand the importance of Millions of engineers and scientists worldwide use MATLAB for a range of applications, in industry and academia, including deep learning and machine learning, signal processing and communications, image and video processing, control systems, test and measurement, computational finance, and computational biology.

Course Outcomes

1. Students learned features of MATLAB as a programming tool. They are fully familiar to all the features of MATLAB software and easily handle the software.
2. New teaching model which include theory & practical running simultaneously is introduced to our students. This method is very effective and helped to develop programming skills and technique to solve mathematical problems.
3. Students learned graphic features of MATLAB and they are able to use this feature effectively in the various applications.
4. Students are able to use MATLAB as a simulation tool.
5. Major outcome is students are able to work as a 'MATLAB programmer' in the industry because of the hands on practical sessions. This job oriented course will helps students to get the jobs in future.



Instructor's Signature



HOD's Signature
Professor and H.O.D.

Department of Computer Science and Engg
Adichunchanagiri Institute of Technology
CHIKKAMAGALURU - 577102



ADD-ON Course
On
"E-Waste Management"



Organized by,
Department of Computer Science and Engineering,
Adichunchanagiri Institute of Technology,
Chikmagalur – 577102
Karnataka, India
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Objectives of the Course:

E-waste or electronic waste describes discarded or rejected electronic or electrical devices. Used electronics or electrical products which are destined for reuse, resale, refurbishment, salvage recycling through material recovery, or disposal are also considered e-waste. Informal e-waste processing in developing nations can lead to adverse human health effects and pollution in the environment. The recycling of e-waste serves a lot of useful purposes. It includes protecting human & environmental health by keeping those devices out of landfills. Or recovering the parts within the devices that still have value and providing manufacturers with recycled metal that can be used to make new products.

Resource Person:

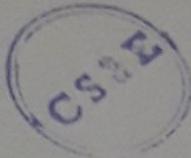
Mr. Varun E.
Assistant Professor
Dept of CS&E, AIT, Chikmagalur

Convenor:

Dr Pushpa Ravi Kumar, Professor and Head, Dept. of CS&E.

Coordinator:

Mr. Gopinath C B, Asst Professor,
Dept. CS&E, AIT, Chikmagalur



E-Waste Management
Add on Course for I Semester
B.E. Computer Science and Engineering

Duration: 30 Hours

Syllabus

Module 1: INTRODUCTION

What is E-Waste, Indian and global scenario of e-Waste, Growth of Electrical and Electronics industry in India, E-waste generation in India, Composition of e-waste, Possible hazardous substances present in e-waste, Environmental and Health implications.

Module 2: E-WASTE LEGISLATION

Regulatory regime for e-waste in India, The hazardous waste(Management and Handling) rules 2003, E-waste management rules 2015, Regulatory compliance including roles and responsibility of different stakeholders – producer, manufacturer, consumer etc., Proposed reduction in the use of hazardous substances(RoHS), Extended producer responsibility (EPR).

Module 3: END OF LIFE MANAGEMENT OF E-WASTE

Historic methods of waste disposal – dumping, burning, landfill, Recycling and recovery technologies –

Reference:

Johri R., “E-waste: implications, regulations, and management in India and current global best practices”, TERI Press, New Delhi.



|| Jai Sri Gurudev ||



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CHIKKAMAGALURU

P.B No.91, Adichunchanagiri Extension, Chikkamagaluru-577 102, Karnataka, India.

Ref: AIT/IQAC/CSE/ /2018-19

Date: 16/03/2018

Circular

Department of Computer Science & Engineering is conducting a Certificate Program (Add-on Program) on "E-Waste Management" from 16/03/2018 to 20/03/2018. All other HOD's instruct the concern department students to attend the program. Following faculty member (Course instructor) is conducting a certificate program at CS&E Department.

Course Instructor
Mr. Gopinath C B
Assistant Professor
Dept. of CS&E
AIT Chikkmagaluru.

HOD's Signature
Professor and

Department of Computer Science
Adichunchanagiri Institute of Technology,
CHIKMAGALUR - 577102

Dr. C.T. JAYADEVA
Principal
B.E., M.Tech., Ph.D.
Adichunchanagiri Institute of Technology,
CHIKKAMAGALURU-577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-577102
 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
 ADD-ON Course - E-Waste Management
Student Enrollment List

S.NO	USN	Student Name
1	4A118CS002	AIKYA MH
2	4A118CS003	AISHWARYA S
3	4A118CS004	AMAR B M
4	4A118CS006	ANANYA K N
5	4A118CS007	ANKITHA A P
6	4A118CS008	ARJUN RAM K S
7	4A118CS011	AYESHA SHABNAM
8	4A118CS012	B SAQLEN PASHA
9	4A118CS013	BAVIN KOYA
10	4A118CS015	BHOOMIKA
11	4A118CS016	BHOOMIKA R
12	4A118CS017	BRUNDHA K M
13	4A118CS020	CHANDAN V SHET
14	4A118CS022	CHANDANA K S
15	4A118CS023	DARSHAN L C
16	4A118CS024	DEEKSHA C M GOWDA
17	4A118CS025	DEEKSHA HS
18	4A118CS026	DEEPIKA G
19	4A118CS028	DHANUSHREE V L

46	4AI18CS077	RACHANA H C
47	4AI18CS078	RACHANA M C
48	4AI18CS080	RANJINI H P
49	4AI18CS082	REETH PRADEEP
50	4AI18CS085	ROMIYA TARANUM
51	4AI18CS086	ROSHAN M
52	4AI18CS088	SACHIN C J
53	4AI18CS090	SAMBRAM GOWDA S M
54	4AI18CS094	SATHVIK A K
55	4AI18CS098	SHASHANK B S
56	4AI18CS100	SHRAVYA D S
57	4AI18CS101	SHREYA GIRISH
58	4AI18CS105	SINCHANA S
59	4AI18CS106	SINCHANA V M
60	4AI18CS108	SONIA FATHIM
61	4AI18CS109	SOUNDARYA M K
62	4AI18CS112	SUKITH A S
63	4AI18CS113	SUMANTH S
64	4AI18CS115	SUSHMA K
65	4AI18CS116	TEJAS J SHETTY
66	4AI18CS118	THANYA
67	4AI18CS120	VAISHNAVI M R
68	4AI18CS130	DEVIKA T R
69	4AI18CS005	ANANTH KUMAR M V
70	4AI18CS009	ARUN KUMAR N R BHAVANA B N
71	4AI18CS014	

Rachana

Rachana

Ranjini

Reeth P

Romiya

Roshana

Shamb

Simran

Sathvi

Sathvi

Shravya

Shreya

Sinchan

Sinchana

Sonia

Soundary

Soundary

Sumanth

Sushma

Tejas

Thanya

Vaishnavi

Devika

Ananta

Arun

Bhavana

17

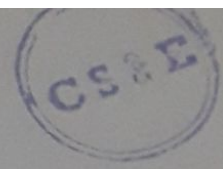
20	4AI18CS029	DIVYA S NAYAK	Nayak
21	4AI18CS030	GANESH KARTHIK H G	Ganesh
22	4AI18CS033	HARSHA K P	Has K.P
23	4AI18CS035	JEEVAN G K	Dee Vang.K
24	4AI18CS036	JUVERIA IRAM	Severiya Iram
25	4AI18CS039	LALITHYA M S	Lalitha
26	4AI18CS040	LATHA T J	Latha T J
27	4AI18CS043	MANIKA KESHARWANI	Manika
28	4AI18CS044	MANJUNATH C C	Manjunath C C
29	4AI18CS046	MANOJ N R	Manoj N.R
30	4AI18CS045	MANOJ KUMAR B G	Manoj
31	4AI18CS047	MANOJ P H	Manoj
32	4AI18CS048	MANOJ T R	Manoj T.B
33	4AI18CS052	MOHITH N H	Mohith
34	4AI18CS055	NAGASHREE H D	Nags
35	4AI18CS057	NAVEEN KUMAR H C	N Kumar
36	4AI18CS059	NIKHIL SUBRAMANYA	Nikhil
37	4AI18CS060	NIREEKSHA N P	Nireeksha
38	4AI18CS062	NISCHAL B J	Nischalky
39	4AI18CS063	NISCHITHA R	Nischithy
40	4AI18CS064	NISHA	Nisha
41	4AI18CS069	PHALGUNI SHARASCHANDRA	Phalguni
42	4AI18CS070	POOJA K M	Pooja
43	4AI18CS071	POOJA M	Pooja
44	4AI18CS072	PRAGNA SUDHIR	Pragna
45	4AI18CS074	PRATHEEKSHA G S	Pratheeksha

72	4AI18CS018	CHAITRA B L	<i>Chaitra</i>
73	4AI18CS021	CHANDANA K P	<i>Chandana</i>
74	4AI18CS084	ROHIT CHAVAN	<i>Rohit</i>
75	4AI18CS027	DEEPIKA K V	<i>Deepika</i>
76	4AI18CS031	GANESH R	<i>Ganesh</i>
77	4AI18CS034	IMPANA K S	<i>Impa</i>
78	4AI18CS037	KARTHIK GOWDA H L	<i>Karthik</i>
79	4AI18CS049	MANSI DUTT K S	<i>Mansi</i>
80	4AI18CS051	MEGHASHREE B	<i>Megha</i>
81	4AI18CS058	NIHARIKA T S	<i>Niharika</i>

[Handwritten Signature]

Course Instructor's Signature

[Handwritten Signature]
HOD's Signature
Department of Computer Science and Engineering
Chikmagalur - 571110
Professor
Department of Computer Science and Engineering
Chikmagalur - 571110



**ADICHUNCHANAGIRI INSTITUTE OF
TECHNOLOGY, CHIKKAMAGALURU-577102.**
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Add-On Course on "E-Waste"
OVER ALL Add-On Course PARTICIPANTS FEEDBACK

Sl.No	DESCRIPTION	EXCELLENT	GOOD	POOR
1	How would you rate the presenter's knowledge on the concept?	✓		
2	How would you rate the concepts and Information provided by the Presenter?	✓		
3	What was your overall impression of the session?	✓		
4	Remarks	we got to know about the things that's happen in our surroundings And to get rid of it		

Harsha K.P.
Signature of the Participants



||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust (R)

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY



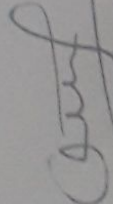
CHIKKAMAGALURU - 577 102


DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

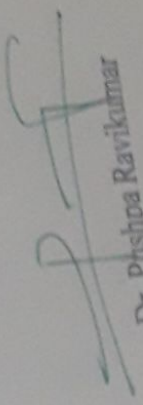


Certificate of Participation

This is to certify that HARSHA K.P has successfully completed the add on course on "E- Waste Management " from 16th to 20th March 2018, organized by Department of Computer Science and Engineering.


Prof. Chethan P J
Staff co-ordinator

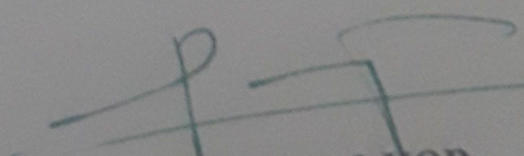

Prof. S J Prashanth
Staff co-ordinator


Dr. Pshpa Ravikumar
H.O.D

ADICHUCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ADD ON COURSE: E-Waste Management

Toppers List

SLNo	Student Name	Student USN	Marks Obtained
1	ANKITHA AP	4AI18CS007	49
2	NISCHITHA R	4AI18CS063	48
3	CHANDANA KS	4AI18CS022	47


Signature of HOD
Professor and H.O.
Department of Computer Science
Adichunchanagiri Institute of
CHIKMAGALUR 57

ADICHUCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ADD ON COURSE: E-Waste Management

Assessment Questions

Semester: I

Max Marks: 50

Student Name: ANKITHA A.P

USN: 4AT18CS007

49
50

1. E-waste is also known as
a) Electronic waste b) Essential waste c) European waste d) Household waste
2. Which one of the following is an example of e-waste?
a) Nuclear wastes, medical wastes, toxic industrial wastes, etc
b) Plastic bags, cardboard boxes, corroded metals, etc
c) Beverage cans, packaged boxes, plastic bottles, etc
d) Sensors, alarms, sirens, TV etc.
3. Which one of the following is wrong about Cathode Ray Tubes (CRTs)?
a) They were used in television sets.
b) They do not pose any environmental threat as such.
c) They have a high content of carcinogens and heavy metals.
d) They release toxins into the soil, air and groundwater.
4. What is the most widely used method for e-waste disposal?
a) Burning b) Recycling c) Disintegration d) Land-filling.
5. Name some of the most hazardous leachates found in land-fills.
a) Copper, and Bromine. b) Mercury, Cadmium and Lead.
c) Lithium, Beryllium and Bromine. d) Boron, Fluorine and Hydrogen.
6. What are the adverse effects of mercury on health?
a) Lung Cancer. b) Damages kidneys and brain. c) Softens bones. d) Asthmatic bronchitis
7. When did E-waste (management and handling) rules, 2011 come into effect?
a) January 1, 2012 b) March 1, 2012 c) May 1, 2012. d) July 1, 2012

8. Which cities produce the highest e-waste in India?

- a) ~~Mumbai and Delhi.~~ b) Chennai and Vishakhapatnam
c) Kolkata and Patna d) Lucknow and Hyderabad

9. The component beryllium mostly released from the E-waste of _____

- a) Cathode Ray Tubes. b) Computer plate. c) ~~Switch board.~~ d) Microchips.

10) Who is responsible for the disposal of the product when it becomes e-waste?

- a) The seller b) ~~The producers~~ c) The customers d) The vendors

11) WEEE stands for _____

- a) ~~Waste Electrical and Electronic Equipment~~ b) Water Electronic and Electronic Experiment
c) Waste Electronic Electrical and Equipment d) Water Electronic and Electronic Equipment

12) Which of the following reduce e-waste?

- a) Purchasing more and more gadgets b) Using them for a short time and then discarded
c) ~~Good maintenance~~ d) All of these

13) WEEE is almost _____ % of e-waste from solid waste.

- a) ~~5~~ b) 10 c) 15 d) 20

14) In India, E-Waste management assumes greater significance because

- a) Generation of own e-waste b) ~~Dumping of e-waste from developed countries~~
c) Lack of awareness d) ~~All of these~~

15) Which of the following is one of the impacts of e-waste on the environment?

- a) Global Warming b) ~~Deforestation~~ c) Soil erosion d) ~~Emission of gases~~

16) The insulated wire has copper which causes _____

- a) Skin disease or allergies or increase the risk of lung cancer
b) Can damage human's kidney, brain and human nervous system
c) ~~Neurological disorders~~
d) Damage live and bones

17) The term ISWM refers to

- a) International Solid Waste Management b) Integrated Solid Waste Management
c) Integrated Solid Waste Machine d) International Solid Waste Mechanism

18) In 2006, the IAER projected that the electronic and electrical appliances would become e-waste by 2010.

- a) 1 billion b) 2 billion c) 3 billion d) 4 billion

19) What is the hazardous pollutant released from calculators?

- a) Lithium b) Barium c) Lead d) Copper

20) Which of the following can be considered as source reduction?

- a) Material Substitution b) Treating offsite c) Analysis d) Landfill disposal

21) Which of the following metal affects mental development in children?

- a) Lead b) Barium c) Zinc d) Silver

22) Which of the following health impact is observed by dumping cathode tubes?

- a) Silicosis b) Lung Disease c) Kidney Inflammation d) PAH exposure

23) What is iron and steel constitute of e-waste?

- a) 20 b) 30 c) 40 d) 50

24) According to the Comptroller and Auditor General (CAG) report what is the amount of e-waste generated annually?

- a) 8LT b) 5LT c) 4LT d) 7LT

25) Which of the hazardous pollutant occurs in plastic?

- a) Lithium b) PCB's c) Lead d) Copper

26) Which of the following is not a biomedical waste?

- a) Animal waste b) Microbiological waste c) Chemical waste d) Domestic waste

27) Waste removal system was established in which of the following cities for the first time?

- a) Athens b) Lahore c) Paris d) London

28) What is hazardous pollutant released from Circuit Boards?

- a) Arsenic b) Barium c) Lead d) Copper

29) Why is it difficult to recycle plastics?

- a) It is very hard b) It comes in different sizes
c) It is adhesive d) It contains different types of polymer resins

30) Which of the following is done on an individual level?

- a) Burning b) Disposal c) Recycling d) Source reduction

31) What is hazardous pollutant released from Calculators?

- a) Lithium b) Mercury c) Lead d) Copper

32) Which of the following plans is used as a waste management plan?

- a) Plan for reuse b) The integrated plan c) Plan for recycling d) Plan for reducing

33) The organic material of the solid waste will decompose

- a) By the flow of water b) By the soil particles
c) By the action of microorganisms d) By oxidation

34) Which of the following wastes is called the Municipal Solid Waste (MSW)?

- a) Food wastes b) Wood pieces c) Plastic cans d) All of the above

35) The process of burning municipal solid wastes under suitable temperature and conditions in a specific furnace is called _____.

- a) Landfill b) Incineration c) Recycling d) Vermicomposting

36) The burning of solid waste is not recommended because

- a) It is very costly b) It requires a lot of space
c) It requires modern technologies d) It causes several environmental issues

37) When the organic matter present in the sanitary landfill decomposes, it generates

- a) Methane b) Nitrogen c) Hydrogen d) All of the above

47) Polluters pay Principle means

- a) Anyone causing the pollution will pay for the damage caused
- b) Polluters paid well by NGOs
- c) Polluters may get a bonus
- d) Polluters are not the cause of pollution

48) Which of the following HW cannot be recycled?

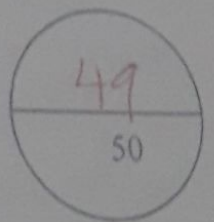
- a) Used oil
- b) Treatment waste
- c) Paints
- d) Batteries

49) Which of the following solid wastes describes the term 'Municipal Solid Waste'?

- a) Toxic
- b) Hazardous
- c) Non-toxic
- d) Non-hazardous

50) Why is recycled paper banned for use in food containers?

- a) Because it creates a lot of spaces
- b) Because it creates contamination
- c) Because paper can be used only one time
- d) Because paper is very thick and can't cover the food containers



ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU

Department of Computer Science & Engineering

Summary Report

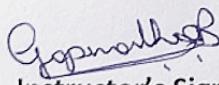
The course "E- Waste Management" was conducted for the first year students at CS&E Dept from 16/03/2018 to 20/03/2018.

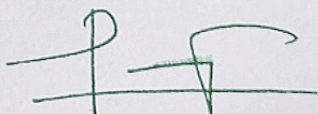
During the course ,the students are able to understand the importance of The recycling of e-waste. For instance, include protecting human and environmental health by keeping those devices out of landfills. Or recovering the parts within the devices that still have value, and providing manufacturers with recycled metals that can be used to make new products.

Course Outcomes

Upon successful completion of this course, students will be able to:

- Learn basic concepts of solid waste management, beginning from source generation to waste disposal in a system of municipality organizational structure.
- Develop understanding on various technological applications for processing of waste and their disposals in various ways.
- Acquire knowledge on waste to energy productions in the perspectives of sustainable development.
- Apply basic concepts in hazardous waste management and integrated waste management for urban areas.
- To acquire a fair amount of knowledge on waste characterization and its management practiced in various cities of India. To achieve this objective, students will be taught different case studies reported by previous researchers and technical bodies.


Instructor's Signature


HOD's Signature
Professor and H.O.D.
Department of Computer Science and Engg
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577102

ADD-ON Program

2018-19

ADD on Program
On
“Basics of VLSI Design”



|| Jai Sri Gurudev ||



SRI ADICHUNCHANAGIRI SHIKSHANA TRUST ®
ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
P.B No.91, Adichunchanagiri Extension, Chikkamagaluru-577 102, Karnataka, India.

Ref: AIT/IQAC/CSE/ /2018-2019

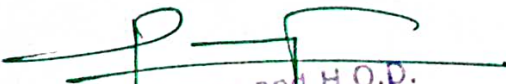
Date: 01/01/2018


Circular

Department of Computer Science & Engineering is conducting a Certificate Program (Add-on Program) on "Basics of VLSI Design [19CS_AC_012]" from 15-01-2018 to 28-01-2018. All other HOD's instruct the concern department students to attend the program. Following faculty member (Course instructor) is conducting a certificate program at CS&E Department.

Course Instructor

1. Prof. S J Prashantha
Assistant Professor
Dept. of CS&E
AIT Chikmagalur
2. Prof. Vivekananda
Assistant Professor
Dept. of CS&E
AIT Chikmagalur


Professor and H.O.D.
Department of Computer Science and Engg.
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577102


Principal Signature
Dr. C.T. JAYADEVA
Principal B.E.,M.Tech.,Ph.D
Adichunchanagiri Institute of Technology
CHIKKAMAGALURU-577102



ADD-ON Course

On

“Basics of VLSI Design”



Organized by,

**Department of Computer Science and Engineering,
Adichunchanagiri Institute of Technology,
Chikmagalur – 577102
Karnataka, India
www.aitechmagalur.ac.in**

About the College:

Adichunchanagiri Institute of Technology (AIT) was established in the year 1980 under the auspicious of **Adhichunchanagiri Shikshana Trust(R)** with the blessings of **Bhairavaikya Jagadguru Padmabhushana Sri Sri Sri Dr. Balangadharanatha Mahaswamiji** to provide technical and other professional education in the rural area of Chikmagalur, the land of Coffee. With the blessings of **Jagadguru Sri Sri Sri. Nirmalanandanatha Swamiji**, AIT is imparting the quality education in Engineering and Management with ethical and spiritual values. The engineering departments have

recognized as research centers under VTU. The college has well equipped laboratory facilities and highly qualified and experienced faculty. The Institute is providing good training for students to excel in academics as well as in industry requirements and aims towards 100% placements to give a better future for students.

About the Department:

The Department of Computer Science and Engineering is established in the year 1986. It was earlier affiliated to the Mysore University later to the Kuvempu University and at present, it is affiliated to Visvesvaraya Technological University, Belagavi. The alumni of the department are working in various reputed organizations in India and abroad. The department is accredited twice by National Board of Accreditation, New Delhi.

The department offers UG, PG Courses with an intake of 120 and 18 respectively and facilitates R&D through VTU recognized research center. The department has received funds from various reputed agencies like AICTE, VGST, KSCST, ISRO, ISTE, etc., for its activities.

Objectives of the Course:

Today's world is digital. Unbelievable growth in electronics has made it possible. The back bone for electronic gadgets is a small silicon material which is often referred as chip. In order to design any chip (IC), the designer has to follow many complex procedures for which one has to have all the basic of circuit design using transistors.

The advent of Electronic Design Automation Tools made it possible to cut down the design cycle time to a great extent. In this course Verilog HDL is presented which is a popular language for designing any digital circuit using EDA Tools. Various circuits in transistor level are presented which are very much essential for IC design.

Resource Person:

Mr. Darshan L.M.
Assistant Professor
Dept of CS&E, AIT, Chikmagalur

Convenor:

Dr Pushpa Ravi kumar, Professor and Head, Dept. of CS&E.

Coordinator:

Mr. S J Prashanth, Asst Professor,
Dept. CS&E, AIT, Chikmagalur

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



Add on course – 30 Hours

ADD on Course Name: Basics of VLSI Design

Course Code: 19CS_AC_012

Module 1:

10 Hours

Introduction: Basic steps of IC fabrication, PMOS, NMOS, CMOS & BiCMOS, and SOI process technologies, MOS transistors - MOS transistor switches – Basic gate using switches, working polar transistor Resistors and Capacitors. Basic Electrical Properties of MOS and BiCMOS Circuits: Working of MOS transistors – threshold voltage; MOS design equations: I_{ds} - V_{ds} relationships, Threshold Voltage, Body effect, Channel length modulation, g_m , g_{ds} , figure of merit ω_0 ; Pass transistor, NMOS Inverter, CMOS Inverter analysis and design, Various pull ups loads, Bi-CMOS Inverters.

Module 2:

10 Hours

Basic Circuit Concepts: Capacitance, resistance estimations- Sheet Resistance R_s , MOS Device Capacitances, routing a capacitance, Analytic Inverter Delays, Driving large Capacitive Loads, Fan-in and fan-out. VLSI Circuit Design Processes: VLSI Design Flow, MOS Layers, Stick Diagrams, Design Rules and Layout, $2\mu\text{m}$ CMOS Design rules for wires, Contacts and Transistors Layout Diagrams for NMOS and CMOS Inverters and Gates, Scaling of MOS circuits, Limitations of Scaling.

Module 3:

10 Hours

Gate level Design: Logic gates and other complex gates, Switch logic, Alternate gate circuits. Subsystem Design: Shifters, Adders, ALUs, Multipliers, Parity generators, Comparators, Counters, VHDL Synthesis: VHDL Synthesis, Circuit Design Flow, Circuit Synthesis, Simulation

TEXT BOOKS:

1. Kamran Eshraghian, Eshraghian Douglas and A. Pucknell, "Essentials of VLSI circuits and systems", PHI, 2013 Edition.
2. K.Lal Kishore and V.S.V. Prabhakar, "VLSI Design", IK Publishers

REFERENCES: 1. Weste and Eshraghian, "Principles of CMOS VLSI Design", Pearson Education, 1999.

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

STUDENT ENROLLMENT LIST

ADD on Course Name: Basics of VLSI Design

Branch: CSE

SI NO	NAME	USN	
1	APOORVA S R	4AI14CS012	APoorVA S R
2	DEEKSHA K N	4AI14CS026	Deeksha KN
3	ABHISHEK G	4AI15CS002	Abhishek
4	CHANDANA P H	4AI15CS028	Chana
5	KOUSHIK S D	4AI15CS051	Koushik
6	NIDHI A R	4AI15CS064	Nidhi AR
7	SIDDANTH B K	4AI15CS103	Siddhant
8	ADYA H N	4AI16CS002	Adyathan
9	AGNES SANMATHI D	4AI16CS003	Agnes Sanmathi
10	ALFIYA BANU	4AI16CS004	Alfiya Banu
11	ANANYA K V	4AI16CS006	Ananya KV
12	ANUSHA K N	4AI16CS007	Anusha KN
13	ANUVIKA A S	4AI16CS008	Anu
14	ARVIND GIRISH	4AI16CS009	Arvind
15	BABITHA B	4AI16CS011	Babitha B
16	BHAGYASHREE H D	4AI16CS012	Bhags
17	BHOOMIKA G S	4AI16CS013	Bhoomika G.S
18	BHOOMIKA K	4AI16CS014	Bhoomika
19	BINDUSHREE C	4AI16CS015	Bindushree B.R
20	BINDUSREE B R	4AI16CS016	Bindu
21	BRUNDA D	4AI16CS017	Brunda
22	CHANDANA H Y	4AI16CS018	Chandana
23	CHINMAYEE	4AI16CS019	Ch
24	CHINTHANA M C	4AI16CS021	Chint
25	CHIRAG M R	4AI16CS022	Chirag
26	DEEPAK N R	4AI16CS023	Deepika PP
27	DEEPIKA D P	4AI16CS024	Deepika
28	GADDI CHETAN	4AI16CS025	Gaddan BR
29	GOURAV B R	4AI16CS026	Gourav
30	HARSHA H K	4AI16CS027	Jayashree
31	JAYASHREE	4AI16CS028	Jayashree
32	JEEVAN A S	4AI16CS029	Jeevan A.S
33	KALPASHREE Y	4AI16CS030	Kalpashree Y
34	KARTHIK N L	4AI16CS031	Karthi
35	KAVYA S	4AI16CS032	Kavya S
36	KAVYA S K	4AI16CS033	Kavya SK
37	KAVYASHREE C M	4AI16CS034	Kavya CM
38	KHALEEL AHAMED	4AI16CS035	Khalil Ahamed
39	KOWSHIK V	4AI16CS036	Koushik V
40	KRUTHIKA G NAYAK	4AI16CS037	Krutika G Nayak
41	LEANDRA MARIA MENDON	4AI16CS038	Leandra Maria
42	MANISHA P BEERIAH	4AI16CS040	Mani
43	MEGHANA D Y	4AI16CS042	Meghana D.Y
44	MOHAMMED NIHAL KHAN	4AI16CS043	Mohammed
45	MOUNA J	4AI16CS044	Mouna
46	NAMITHA M TAPSE	4AI16CS046	Namitha (MTC)
47			

	NAVEEN P PARVATHANENI	4AI16CS047	Naveen
48	NAYANA K S	4AI16CS048	Nayana
49	NESARA B R	4AI16CS049	Nesara B R
50	NISCHITHA K S	4AI16CS051	Nischitha K S
51	NISHANTH K R	4AI16CS052	Nishanth
52	NISWARTH V SHETTY	4AI16CS053	Niswarth Shetty
53	P PRADEEP KUMAR	4AI16CS054	Pradeep Kumar
54	POOJA B R	4AI16CS055	Pooja B R
55	POOJA B S	4AI16CS056	Pooja B.S
56	POOJA N K	4AI16CS057	Pooja NK
57	POOJA S	4AI16CS058	Pooja
58	POORNIMA C L	4AI16CS059	Poornima
59	RACHANA N VANAGUR	4AI16CS062	Rachana
60	RAHUL A	4AI16CS063	Rahul A
61	RAHUL S	4AI16CS064	Rahul S
62	POOJA C P	4AI16CS127	Pooja CP
63	ALFIYA SHAIK	4AI16CS130	Alfiya
64	AMBIKA D P	4AI17CS400	Ambika D P
65	SHASHIKALA S	4AI17CS407	Shashikala S
66	VIJETHA B S	4AI17CS409	Vijetha B.S
67	SHREYA B R	4AI16CS085	Shreya B.R
68	SHRIKARAN C N	4AI16CS086	Shrikaran CN
69	SHRUTHA R JAIN	4AI16CS087	Shrutha
70	SIDDESH P	4AI16CS088	Siddesh P
71	SINCHANA S B	4AI16CS089	Sinchana S B
72	SINCHANA S GOWDA	4AI16CS090	Sinchana S Gowda
73	SNEHA K	4AI16CS091	Sneha K
74	SOUMYA H	4AI16CS092	Soumya H
75	SOUNDARYA GOGATE T S	4AI16CS093	Soundarya
76	SOURAB SAKLECHA	4AI16CS094	Sourab HP
77	SOWMYA M	4AI16CS095	Sowmya M
78	SPANDANA H P	4AI16CS096	Spandana S
79	SPANDANA S	4AI16CS097	Spandana S
80	SPARSHA B R	4AI16CS098	Sparsha B R
81	SPOORTHI A N	4AI16CS099	Spoorthi AN
82	SRISTI BAGAMANE	4AI16CS100	Sristi Bagamane
83	SRUSTI R B S	4AI16CS101	Srusti
84	SUMANTHA M K	4AI16CS102	Sumantha MK
85	SUPRITH K	4AI16CS103	Suprith K
86	SUPRIYA S K	4AI16CS104	Supriya S K
87	VAISHNAVI C O	4AI16CS114	Vaishnavi CO
88	VAISHNAVI RAO	4AI16CS115	Vaishnavi RAO

Course Instructor Signature

Professor and N.O.D.
HOD Signature
Department of Computer Science and Engg
Adichunchanagiri Institute of Technology,
CHIKMAGALUR - 577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD on Course Name: Basics of VLSI Design

Course Code : 19CS_AC_012

Branch: CSE

Students are identified for ADD on Course Classes based on their enrolment.

ADD on Course classes will be held during **15-01-2018 to 28-01-2018** at CS&E dept from 4-6pm

Attendance Report

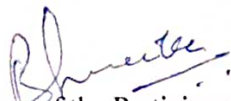
SI NO	NAME	USN	During 15-01-2018 to 28-01-2018.															Signature
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
																	Apoorva SR	
1	APOORVA S R	4AI14CS012	P	P	P	P	P	P	P	A	P	P	P	A	P	P	Deeksha KN	
2	DEEKSHA K N	4AI14CS026	P	P	A	P	P	P	P	P	A	P	P	A	P	P	Abhishek	
3	ABHISHEK G	4AI15CS002	P	P	A	P	P	P	P	A	P	P	P	A	P	P	Chinn	
4	CHANDANA P H	4AI15CS028	P	P	P	P	P	P	P	P	A	P	P	P	A	P	Ramesh	
5	KOUSHIK S D	4AI15CS051	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Koushik SD	
6	NIDHI A R	4AI15CS064	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Nidhi AR	
7	SIDDANTH B K	4AI15CS103	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Siddanth	
8	ADYA H N	4AI16CS002	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Adyathn	
9	AGNES SANMATHI D	4AI16CS003	P	P	P	P	P	P	P	P	P	P	P	P	A	P	Agnes Sanmathi D	
10	ALFIYA BANU	4AI16CS004	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Alfiya Banu	
11	ANANYA K V	4AI16CS006	P	P	P	A	P	P	P	P	P	P	P	A	P	P	Ananya KV	
12	ANUSHA K N	4AI16CS007	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anusha KN	
13	ANUVIKA A S	4AI16CS008	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Anuvika AS	
14	ARVIND GIRISH	4AI16CS009	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Arvind Girish	
15	BABITHA B	4AI16CS011	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Babitha B	
16	BHAGYASHREE H D	4AI16CS012	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Bhagya	
17	BHOOMIKA G S	4AI16CS013	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bhoomika GS	
18	BHOOMIKA K	4AI16CS014	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Bhoomika K	
19	BINDUSHREE C	4AI16CS015	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bindushree C	
20	BINDUSREE B R	4AI16CS016	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Bindusree BR	
21	BRUNDA D	4AI16CS017	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Brunda D	
22	CHANDANA H Y	4AI16CS018	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Chandana HY	
23	CHINMAYEE	4AI16CS019	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Chinmayee	
24	CHINTHANA M C ✓	4AI16CS021	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Chinthana MC	
25	CHIRAG M R	4AI16CS022	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Chirag MR	
26	DEEPAK N R	4AI16CS023	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Deepak NR	
27	DEEPIKA D P	4AI16CS024	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Deepika DP	
28	GADDI CHETAN	4AI16CS025	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Gaddi Chetan	
29	GOURAV B R	4AI16CS026	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Gourav BR	
30	HARSHA H K	4AI16CS027	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Harsha HK	
31	JAYASHREE	4AI16CS028	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Jayashree	
32	JEEVAN A S	4AI16CS029	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Jeevan AS	
33	KALPASHREE Y ✓	4AI16CS030	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Kalpashree Y	
34	KARTHIK N L	4AI16CS031	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Karthik NL	
35	KAVYA S	4AI16CS032	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Kavya S	
36	KAVYA S K	4AI16CS033	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kavya SK	
37	KAVYASHREE C M	4AI16CS034	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kavyashree CM	
38	KHALEEL AHAMED	4AI16CS035	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Khaleel AH	

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU-577102.
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Add-On Course on "Basics of VLSI Design"

OVER ALL Add-On Course PARTICIPANTS FEEDBACK

Sl.No	DESCRIPTION	EXCELLENT	GOOD	POOR
1	How would you rate the presenter's knowledge on the concept?	✓		
2	How would you rate the concepts and Information provided by the Presenter?	✓		
3	What was your overall impression of the session?	✓		
4	Remarks	←		


Signature of the Participants



||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust (R)

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

CHIKKAMAGALURU - 577 102



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Certificate of Participation

This is to certify that CHANDANA H Y has successfully completed the add on course on "Basics of VLSI Design" from 15-01-2018 to 28-01-2018 organized by Department of Computer Science and Engineering.

Prof. S J Prashantha
Staff co-ordinator

Prof. Vivekananda
Staff co-ordinator

Dr. Pushpa Ravikiran
H.O.D Institute of Technology
Chikkamagaluru - 577102



||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust (R)

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

CHIKKAMAGALURU - 577 102



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Certificate of Participation

This is to certify that SPANDANA S has successfully completed the add on course on "Basics of VLSI Design" from 15-01-2018 to 28-01-2018 organized by Department of Computer Science and Engineering.

Prof. S J Prashantha
Staff co-ordinator

Prof. Vivekananda
Staff co-ordinator

Dr. P. S. Prashantha
H.O.D.
Department of Computer Science and Engineering
Adichunchanagiri Institute of Technology
CHIKKAMAGALURU - 577 102

10) A fast circuit requires _____
a) high gm b) low gm
c) does not depend on gm d) low cost

11) Surface mobility depends on _____
a) effective drain voltage b) effective gate voltage
c) channel length d) effective source voltage

12) What is a MOS transistor?
a) minority carrier device b) majority carrier device
c) majority & minority carrier device d) none of the mentioned

13) The MOS transistor is non conducting when?
a) zero source bias b) zero threshold voltage
c) zero gate bias d) zero drain bias

14) Gate logic is also called as
a) transistor logic b) switch logic
c) complementary logic d) restoring logic

15) Both NAND and NOR gates can be used in gate logic.
a) true b) false

16) The CMOS inverter has _____ power dissipation.
a) low b) more c) no d) very less

17) As the number of inputs increases, the NAND gate delay
a) increases b) decreases c) does not vary d) exponentially decreases

18) NAND gate delay can be given as
a) T_{int} b) T_{int}/n c) $n * T_{int}$ d) $2n * T_{int}$

19) In CMOS NAND gate, p transistors are connected in
a) series b) parallel c) cascade d) random

20) BiCMOS is used for _____ fan-out.
a) less b) more c) no d) very less

21) Which can handle high capacitance load?
a) NAND b) nMOS NAND c) CMOS NAND d) BiCMOS NAND

22) Which among the following is a process of transforming design entry information of the circuit into a set of logic equations?
a) Simulation b) Optimization c) Synthesis d. Verification

23) _____ is the fundamental architecture block or element of a target PLD.
a) System Partitioning b) Pre-layout Simulation
c) Logic cell d) Post-layout Simulation

24) In VLSI design, which process deals with the determination of resistance & capacitance of interconnections?

- a) Floor planning b) Placement & routing
 c) Testing d) Extraction

25) In Net-list language, the net-list is generated _____ synthesizing VHDL code.

- a) Before b) At the time of (during)
 c) After d) None of the above

26) In VHDL, which object/s is/are used to connect entities together for the model formation?

- a) Constant b) Variable
 c) Signal d) All of the above

27) Which data type in VHDL is non synthesizable & allows the designer to model the objects of dynamic nature?

- a) Scalar b) Access c) Composite d) File

28) Which type of simulation mode is used to check the timing performance of a design?

- a) Behavioral b) Switch-level c) Transistor-level d) Gate-level

29) In the simulation process, which step specifies the conversion of VHDL intermediate code so that it can be used by the simulator?

- a) Compilation b) Elaboration c) Initialization d) Execution

30) Which type of simulator/s neglect/s the intra-cycle state transitions by checking the status of target signals periodically irrespective of any events?

- a) Event-driven Simulator b) Cycle-based Simulator
 c) Both a and b d) None of the above

31) Which among the following is not a characteristic of 'Event-driven Simulator'?

- a) Identification of timing violations b) Storage of state values & time information
 c) Time delay calculation d) No event scheduling

32) which among the following is an output generated by synthesis process?

- a) Attributes & Library b) RTL VHDL description
 c) Circuit constraints d) Gate-level net list

33) Register transfer level description specifies all of the registers in a design & _____ logic between them.

- a) Sequential b) Combinational c) Both a and b d) None of the above

34) Which attribute in synthesis process specifies the resistance by controlling the quantity of current it can source?

- a) Load attribute b) Drive attribute c) Arrival time attribute d) All of the above

35) Which type of digital systems exhibit the necessity for the existence of at least one feedback path from output to input?

- a) Combinational System b) Sequential system
c) Both a and b d) None of the above

36) The time required for an input data to settle _____ the triggering edge of clock is known as 'Setup Time'.

- a) Before ~~b) During~~ c) After d) All of the above

37) Hold time is defined as the time required for the data to _____ after the triggering edge of clock.

- a) Increase b) Decrease c) Remain stable d) All of the above

38) An Antifuse programming technology is predominantly associated with _____.

- a) SPLDs b) FPGAs c) CPLDs d) All of the above

39) In fusible link technologies, the undesired fuses are removed by the pulse application of _____ voltage & current to device input.

- a) Low b) Moderate ~~c) High~~ d) All of the above

40) Which programming technologies is/are predominantly associated with SPLDs and CPLDs?

- ~~a) EPROM~~ b) EEPROM c) FLASH d) All of the above

41) Before the commencement of design, the clocking strategy determine/s _____

- a) Number of clock signals necessary for routing throughout the chip
b) Number of transistors used per storage requirement
c) Power dissipated by chip & the size of chip
~~d) All of the above~~

42) Which method/s of physical clocking is/are a /the recursive structure where the memory elements are grouped together to make the use of nearby or same distribution points?

- ~~a) H tree~~ b) balanced tree clock network
c) Both a and b d) None of the above

43) Increase in the physical distance of H-tree _____ the skew rate.

- ~~a) Increases~~ b) Stabilizes ~~c) Decreases~~ d) All of the above

44) Which type of MOSFET exhibits no current at zero gate voltage?

- a) Depletion MOSFET ~~b) Enhancement MOSFET~~
c) Both a and b d) None of the above

45) In enhancement MOSFET, the magnitude of output current _____ due to an increase in the magnitude of gate potentials.

- ~~a) Increases~~ b) Remains constant c) Decreases d) None of the above

46) After an initialization phase, the simulator enters the _____ phase.

- ~~a) Compilation~~ b) Elaboration ~~c) Execution~~ d) None of the above

47) In DIBL, which among the following is/are regarded as the source/s of leakage?
a) Subthreshold conduction b) Gate leakage c) Junction leakage d) All of the above

48) Which among the following can be regarded as an/the application/s of MOS switch in an IC design?

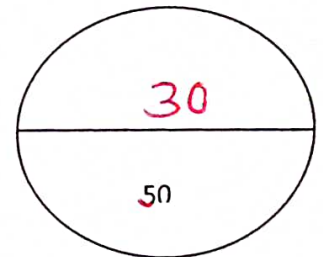
- a) Multiplexing & Modulation b) Transmission gate in digital circuits
c) Simulation of a resistor d) All of the above

49) Which among the following is/are regarded as an/the active resistor/s?

- a. MOS diode b. MOS transistor c. MOS switch d. All of the above

50) In testability, which terminology is used to represent or indicate the formal evidences of correctness?

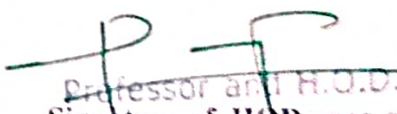
- a. Validation b. Verification c. Simulation d. Integration



ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ADD ON COURSE: "Basics of VLSI design"

Toppers List

Sl.No	Student Name	Student USN	Marks Obtained
1	SOURAB SAKLECHA	4A116CS094	30
2	KALPASHREE Y	4A116CS030	28
3	KAVYASHREE C M	4A116CS034	25


Professor and H.O.D.
Signature of HOD
Department of Computer Science and Engg
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU

Department of Computer Science & Engineering

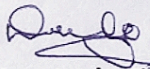
Summary Report

The course "Basics of VLSI Design" was conducted at CS&E Dept from 15/01/2018 to 28/01/2018.

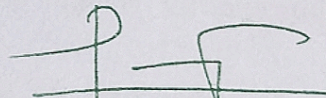
This course helps the students to understand how VLSI affords IC designers the ability to design utilizing less space. Typically, electronic circuits incorporate a CPU, RAM, ROM, and other peripherals on a single PCBA. However, very large-scale integration (VLSI) technology affords an IC designer the ability to add all of these into one chip

Course Outcomes

- To learn basic CMOS Circuits.
- To learn CMOS process technology
- To learn techniques of chip design using programmable devices.
- To learn the concepts of designing VLSI Subsystems.



Instructor's Signature



HOD's Signature

Professor and H.O.D.

Department of Computer Science and Engg.

Adichunchanagiri Institute of Technology

CHIKKAMAGALURU - 577102

ADD on Program

On

“Deep Learning :AI”



ADD-ON Course
On
"DEEP LEARNING:AI"



Organized by,
Department of Computer Science
and Engineering,
Adichunchanagiri Institute of
Technology,
Chikmagalur – 577102
Karnataka, India
www.aitechmagalur.ac.in

About the College:

Adichunchanagiri Institute of Technology (AIT) was established in the year 1980 under the auspicious of Adichunchanagiri Shikshana Trust(R) with the blessings of Bhairavaikya Jagadguru Padmabhushana Sri Sri Sri Dr. Balagangadharanatha Mahaswamiji to provide technical and other professional education in the rural area of Chikmagalur, the land of Coffee. With the blessings of Jagadguru Sri Sri Sri Nirmalanandanatha Swamiji, AIT is imparting the quality education in Engineering and Management with ethical and spiritual values. The engineering departments have

recognized as research centers under VTU. The college has well equipped laboratory facilities and highly qualified and experienced faculty. The Institute is providing good training for students to excel in academics as well as in industry requirements and aims towards 100% placements to give a better future for students.

About the Department:

The Department of Computer Science and Engineering is established in the year 1986. It was earlier affiliated to the Mysore University later to the Kuvempu University and at present, it is affiliated to Visvesvaraya Technological University, Belagavi. The alumni of the department are working in various reputed organizations in India and abroad. The department is accredited twice by National Board of Accreditation, New Delhi.

The department offers UG, PG Courses with an intake of 120 and 18 respectively and facilitates R&D through VTU recognized research center. The department has received funds from various reputed agencies like AICTE, VGST, KSCST, ISRO, ISTE, etc., for its activities.

Objectives of the Course:

Competence in technical writing holds great importance in the present era. Technical writing deals with specific knowledge, generally in the sphere of science and technology, and may be used in a wide variety of media: journal papers, thesis, project proposals, and other technical documents. DEEP LEARNING:AI is a document typesetting system that is used to produce high quality scientific documents, like articles, books, dissertations, technical reports, etc. Expertise in drafting technical documents is an indispensable skill for all professionals for it helps them to share their knowledge of technical subjects effectively in all domains of society and thus makes them competent in their professional careers

Resource Person:

Dr. Adarsh M J.
Associate Professor
Dept of CS&E, AIT, Chikkamagaluru

Convenor:

Dr Pushpa Ravi kumar, Professor and Head, Dept. of CS&E.

Coordinator:

Mr. S J Prashanth, Asst Professor,
Dept. CS&E, AIT, Chikkamagaluru



|| Jai Sri Gurudev ||



**SRI ADICHUNCHANAGIRI SHIKSHANA TRUST ®
ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY,
CHIKKAMAGALURU**

P.B No.91, Adichunchanagiri Extension, Chikkamagaluru-577 102, Karnataka, India.

Ref: AIT/IQAC/CSE/ /2018-2019

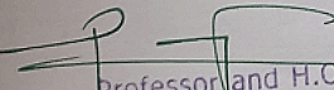
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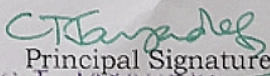
Circular

Department of Computer Science & Engineering is conducting a Certificate Program (Add-on Program) on "Deep Learning :AI [19CS_AC_013] from 18-06-2018 to 02-07-2018 All other HOD's instruct the concern department students to attend the program. Following faculty member (Course instructor) is conducting a certificate program at CS&E Department.

Course Instructor

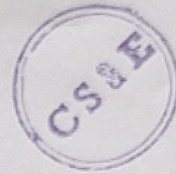
1. Prof. Vivekananda
Assistant Professor
Dept. of CS&E
AIT Chikmagalur
2. Prof. S J Prashantha
Assistant Professor
Dept. of CS&E
AIT Chikmagalur


Professor and H.O.D.
HOD's Signature
Department of Computer Science and Engg
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577102


Principal Signature
Dr. C.T. JAYADEVA
Principal B.E., M.Tech., Ph.D
Adichunchanagiri Institute of Technology
CHIKKAMAGALURU-577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Add on course – 30 Hours



ADD on Course Name: Deep Learning : AI

Course Code: 19CS_AC_013

Module 1:

10 Hours

Basic Concepts of Machine Learning: Machine Learning Systems ,Supervised Learning , Learning Algorithms Parametric Models ,Cost functions ,Generalization ,Regularization ,Evaluation of a Binary Classifier , Confusion Matrix ,Receiver Operating, Characteristic Curve , Precision Recall Curve.

Module 2:

10 Hours

Artificial Neural Networks: Basic Concepts ,Feed forward Neural Networks ,Single-Layer Perceptron ,Multilayer Perceptron ,ANN Learning Gradient Descent Methods ,Back-propagation Algorithm ,Regularization

Module 3:

10 Hours

Convolutional Neural Networks :Convolution Operation . Convolution in Mathematic and Image Processing Convolution in Neuroscience ,Convolutional Network Architecture . Convolutional Layer . Pooling .. Batch Normalization . Main Concepts Behind CNNs . Local Receptive fields. Parameter Sharing . Popular CNN Architectures .

TEXT BOOKS:

1. Neural Networks and Deep learning : A Text book by Charu C.Aggarrwal 2018

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD on Course Name: Deep Learning: AI

Course Code: 19CS_AC_013

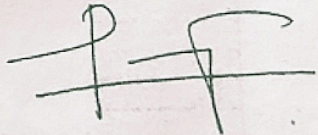
Branch: CSE

Student Enrollment List

SI NO	NAME	USN	SIGNATURE
1	APOORVA S R	4A114CS012	Apoorva S R
2	DEEKSHA K N	4A114CS026	Deeksha
3	ABHISHEK G	4A115CS002	Abhishek
4	CHANDANA P H	4A115CS028	Chandana
5	KOUSHIK S D	4A115CS051	Koushik S D
6	NIDHI A R	4A115CS064	Nidhi
7	SIDDANTH B K	4A115CS103	Siddanth
8	ADYA H N	4A116CS002	Adya
9	AGNES SANMATHI D	4A116CS003	Agnes
10	ALFIYA BANU	4A116CS004	Alfiya
11	ANANYA K V	4A116CS006	Ananya
12	ANUSHA K N	4A116CS007	Anusha
13	ANUVIKA A S	4A116CS008	Anuvika
14	ARVIND GIRISH	4A116CS009	Arvind
15	BABITHA B	4A116CS011	Babitha
16	BHAGYASHREE H D	4A116CS012	Bhagya
17	BHOOMIKA G S	4A116CS013	Bhoomika
18	BHOOMIKA K	4A116CS014	Bhoomika
19	BINDUSHREE C	4A116CS015	Bindu
20	BINDUSREE B R	4A116CS016	Bindu
21	BRUNDA D	4A116CS017	Brunda
22	CHANDANA H Y	4A116CS018	Chandana
23	CHINMAYEE	4A116CS019	Chinmayee
24	CHINTHANA M C	4A116CS021	Chinthana
25	CHIRAG M R	4A116CS022	Chirag
26	DEEPAK N R	4A116CS023	Deepak
27	DEEPIKA D P	4A116CS024	Deepika
28	GADDI CHETAN	4A116CS025	Gaddi
29	GOURAV B R	4A116CS026	Gourav
30	HARSHA H K	4A116CS027	Harsha
31	JAYASHREE	4A116CS028	Jayashree
32	JEEVAN A S	4A116CS029	Jeevan
33	KALPASHREE Y	4A116CS030	Kalpashree
34	KARTHIK N L	4A116CS031	Karthik
35	KAVYA S	4A116CS032	Kavya
36	KAVYA S K	4A116CS033	Kavya
37	KAVYASHREE C M	4A116CS034	Kavyashree
38	KHALEEL AHAMED	4A116CS035	Khaleel
39	KOWSHIK V	4A116CS036	Koushik
40	KRUTHIKA G NAYAK	4A116CS037	Kruthika
41	LEANDRA MARIA MENDON	4A116CS038	Leandra

42	MANISHA P BEERAI AH	4AI16CS040	Manisha
43	MEGHANA D Y	4AI16CS042	Meghana
44	MOHAMMED NIHAL KHAN	4AI16CS043	Mohammed Khan
45	MOUNA J	4AI16CS044	Mouna
46	NAMITHA M TAPSE	4AI16CS046	Namitha
47	NAVEEN P PARVATHANENI	4AI16CS047	Naveen
48	NAYANA K S	4AI16CS048	Nayana
49	NESARA B R	4AI16CS049	Nesara
50	NISCHITHA K S	4AI16CS051	Nischitha
51	NISHANTH K R	4AI16CS052	Nishanth
52	NISWARTH V SHETTY	4AI16CS053	Niswarth
53	P PRADEEP KUMAR	4AI16CS054	P Pradeep
54	POOJA B R	4AI16CS055	Pooja
55	POOJA B S	4AI16CS056	Pooja
56	POOJA N K	4AI16CS057	Pooja NK
57	POOJA S	4AI16CS058	Pooja
58	POORNIMA C L	4AI16CS059	Poornima
59	RACHANA N VANAGUR	4AI16CS062	Rachana
60	RAHULA	4AI16CS063	Rahula
61	RAHUL S	4AI16CS064	Rahul
62	POOJA C P	4AI16CS127	Pooja
63	ALFIYA SHAIK	4AI16CS130	Alfiya
64	AMBIKA D P	4AI17CS400	Ambika
65	SHASHIKALA S	4AI17CS407	Shashika
66	VIJETHA B S	4AI17CS409	Vijetha
67	SHREYA B R	4AI16CS085	Shreya
68	SHRIKARAN C N	4AI16CS086	Shrikaran
69	SHRUTHA R JAIN	4AI16CS087	Shrutha
70	SIDDESH P	4AI16CS088	Siddesh
71	SINCHANA S B	4AI16CS089	Sinchana
72	SINCHANA S GOWDA	4AI16CS090	Sinchana
73	SNEHA K	4AI16CS091	Sneha
74	SOUMYA H	4AI16CS092	Soumya
75	SOUNDARYA GOGATE T S	4AI16CS093	Soundarya
76	SOURAB SAKLECHA	4AI16CS094	Sourab
77	SOWMYA M	4AI16CS095	Sowmya
78	SPANDANA H P	4AI16CS096	Spandana
79	SPANDANA S	4AI16CS097	Spandana
80	SPARSHA B R	4AI16CS098	Sparsha
81	SPOORTHI A N	4AI16CS099	Spoorthi
82	SRISTI BAGAMANE	4AI16CS100	Sristi
83	SRUSTI R B S	4AI16CS101	Srusti
84	SUMANTHA M K	4AI16CS102	Sumantha
85	SUPRITH K	4AI16CS103	Suprith
86	SUPRIYA S K	4AI16CS104	Supriya
87	VAISHNAVI C O	4AI16CS114	Vaishnavi

Manisha
Course Instructor Signature


Professor S. H. D.
Department of Computer Science and Engg.
Adichunchanagiri Institute of Technology
CHIKKABALUR - 577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD on Course Name: Deep Learning :AI

Course Code : 19CS_AC_013

Branch: CSE

Students are identified for ADD on Course Classes based on their enrolment.
 ADD on Course classes will be held during 18-06-2018 to 02-07-2018 at CS&E dept
 from 4-6pm

Attendance Report

SI NO	NAME	USN	During 18-06-2018 to 02-07-2018															Signature
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	APOORVA S R	4AI14CS012	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Apoorva SR	
2	DEEKSHA K N	4AI14CS026	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Deeksha KN	
3	ABHISHEK G	4AI15CS002	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Abhishek	
4	CHANDANA P H	4AI15CS028	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Chandana	
5	KOUSHIK S D	4AI15CS051	P	P	P	P	P	P	P	P	P	A	A	P	P	P	Koushik	
6	NIDHI A R	4AI15CS064	P	P	P	P	P	P	P	P	P	A	A	P	P	P	Nidhi	
7	SIDDANTH B K	4AI15CS103	P	P	P	P	P	P	A	A	A	A	P	P	P	P	Siddanth	
8	ADYA H N	4AI16CS002	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Adya HN	
9	AGNES SANMATHI D	4AI16CS003	P	P	P	P	P	P	A	A	P	P	P	P	P	P	Agnes	
10	ALFIYA BANU	4AI16CS004	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Alfiya Banu	
11	ANANYA K V	4AI16CS006	P	A	P	A	P	P	P	P	P	P	A	P	P	P	Ananya KV	
12	ANUSHA K N	4AI16CS007	P	P	P	P	P	A	A	A	A	P	P	P	P	P	Anusha KN	
13	ANUVIKA A S	4AI16CS008	P	A	A	P	P	P	A	P	P	P	P	P	P	P	Anuvika AS	
14	ARVIND GIRISH	4AI16CS009	P	P	P	P	P	P	P	P	P	P	A	A	P	A	Arvind Girish	
15	BABITHA B	4AI16CS011	P	P	A	A	P	P	P	P	P	A	P	P	P	P	Babitha B	
16	BHAGYASHREE H D	4AI16CS012	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bhagya	
17	BHOOMIKA G S	4AI16CS013	P	P	P	P	P	P	A	A	A	P	P	P	P	P	Bhoomika GS	
18	BHOOMIKA K	4AI16CS014	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Bhoomika K	
19	BINDUSHREE C	4AI16CS015	P	P	P	P	P	P	P	P	A	P	P	P	A	P	Bindushree C	
20	BINDUSREE B R	4AI16CS016	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Bindusree BR	
21	BRUNDA D	4AI16CS017	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Brunda D	
22	CHANDANA H Y	4AI16CS018	A	A	A	P	P	P	A	P	P	P	P	P	P	P	Chandana HY	
23	CHINMAYEE	4AI16CS019	P	P	P	A	P	P	A	P	P	P	A	P	P	P	Chinmayee	
24	CHINTHANA M C	4AI16CS021	A	A	P	P	P	P	P	P	P	A	P	P	P	P	Chinthana MC	
25	CHIRAG M R	4AI16CS022	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Chirag MR	
26	DEEPAK N R	4AI16CS023	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Deepak NR	
27	DEEPIKA D P	4AI16CS024	P	A	P	P	A	P	P	P	P	P	P	A	P	P	Deepika DP	
28	GADDI CHETAN	4AI16CS025	P	P	A	P	P	A	P	P	P	P	P	P	P	P	Gaddi Chetan	
29	GOURAV B R	4AI16CS026	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Gourav BR	
30	HARSHA H K	4AI16CS027	P	P	P	P	P	P	P	P	P	P	A	P	P	P	Harsha HK	
31	JAYASHREE	4AI16CS028	P	A	P	P	P	P	P	P	P	P	P	P	P	A	Jayashree	
32	JEEVAN A S	4AI16CS029	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Jeevan AS	
33	KALPASHREE Y	4AI16CS030	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Kalpashree Y	
34	KARTHIK N L	4AI16CS031	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Karthik NL	
35	KAVYA S	4AI16CS032	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Kavya S	
36	KAVYA S K	4AI16CS033	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Kavya SK	
37	KAVYASHREE C M	4AI16CS034	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Kavyashree CM	
38	KHALEEL AHAMED	4AI16CS035	P	P	A	P	P	P	P	P	P	P	P	A	P	P	Khaleel Ahmed	

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

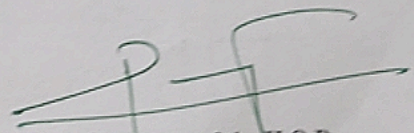
ADD ON COURSE NAME: DEEP LEARNING: AI

COURSE CODE: 19CS_AC_013

ASSESSMENT QUESTIONS

LIST OF TOPPERS

SLNo	Name of the Student	USN	Marks Scored
1	Vaishnavi C O	4AI16CS114	50
2	Sumantha M K	4AI16CS102	49
3	Sristi Bagamane	4AI16CS100	48



Signature of the H.O.D
Professor and H.O.D.

Department of Computer Science and Engg.
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577 102



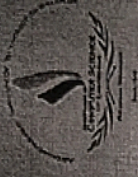
||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust (R)



ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

CHIKKAMAGALURU - 577 102



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Certificate of Participation

This is to certify that POOJA B R has successfully completed the add on course on "Deep Learning :AI" from 18-06-2018 to 02-07-2018 organized by Department of Computer Science and Engineering.

Prof. S J Prashantha
Staff co-ordinator

Prof. Vivekananda
Staff co-ordinator

Professor and H.O.D.
Depa.Drs. Pushpan Ravi Kumar and Enno
Adichunchanagiri Institute of Techno
CHIKKAMAGALURU - 577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD ON COURSE NAME: DEEP LEARNING: AI

COURSE CODE: 19CS_AC_013

ASSESSMENT QUESTIONS

35
50

Name of the Student: Apoorva S.R

Max Marks: 50

USN: HA11HCS012

1. Which of the following is a subset of machine learning?
 A. Numpy B. SciPy C. Deep Learning D. All of the above
2. How many layers Deep learning algorithms are constructed?
 A. 2 B. 3 C. 4 D. 5
3. The first layer is called the?
 A. inner layer B. outer layer C. hidden layer D. None of the above
4. RNNs stands for?
 A. Receives neural networks B. Report neural networks
C. Recording neural networks D. Recurrent neural networks
5. Which of the following is/are Common uses of RNNs?
 A. Businesses Help securities traders to generate analytic reports
 B. Detect fraudulent credit-card transaction
C. Provide a caption for images
D. All of the above
6. CNN is mostly used when there is an?
 A. structured data B. unstructured data C. Both A and B D. None of the above
7. Which neural network has only one hidden layer between the input and output?
 A. Shallow neural network B. Deep neural network
C. Feed-forward neural networks D. Recurrent neural networks

8. Deep learning algorithms are _____ more accurate than machine learning algorithm in image classification.
- A. 33% B. 37% C. 40% ~~D. 41%~~ |
9. In which of the following applications can we use deep learning to solve the problem?
- A. Protein structure prediction B. Prediction of chemical reactions
C. Detection of exotic particles ~~D. All of the above~~ |
10. The number of nodes in the input layer is 10 and the hidden layer is 5. The maximum number of connections from the input layer to the hidden layer are
- A. 50 B. less than 50 ~~C. more than 50~~ D. It is an arbitrary value
11. The input image has been converted into a matrix of size 28 X 28 and a kernel/filter of size 7 X 7 with a stride of 1. What will be the size of the convoluted matrix?
- A. 20x20 ~~B. 21x21~~ C. 22x22 D. 25x25
12. In a simple MLP model with 8 neurons in the input layer, 5 neurons in the hidden layer and 1 neuron in the output layer. What is the size of the weight matrices between hidden output layer and input hidden layer?
- A. [1 X 5], [5 X 8] ~~B. [5 X 1], [8 X 5]~~ C. [8 X 5], [5 X 1] D. [8 X 5], [1 X 5] |
13. Which of the following functions can be used as an activation function in the output layer if we wish to predict the probabilities of n classes (p_1, p_2, \dots, p_k) such that sum of p over all n equals to 1?
- ~~A. Softmax~~ B. ReLu C. Sigmoid D. Tanh |
14. Assume a simple MLP model with 3 neurons and inputs= 1,2,3. The weights to the input neurons are 4,5 and 6 respectively. Assume the activation function is a linear constant value of 3. What will be the output?
- A. 32 B. 64 ~~C. 96~~ D. 128 |
15. Sentiment analysis using Deep Learning is a many-to one prediction task.
- ~~A. True~~ B. False C. Can be true and false D. can not say |
16. In CNN, having max pooling always decrease the parameters?
- A. True ~~B. False~~ C. Can be true and false D. cannot say |
17. When an experienced deep learning engineer works on a new problem, they can usually use insight from previous problems to train a good model on the first try, without needing to iterate multiple times through different models.?
- ~~A. True~~ B. False |

18. Which of the factors affect the performance of learner system does not include?

- a) Representation scheme used b) Training scenario
c) Type of feedback ~~d) Good data structures~~ 0

19. Different learning methods does not include?

- a) Memorization ~~b) Analogy~~ c) Deduction d) Introduction 1

20. In language understanding, the levels of knowledge that does not include?

- a) Phonological b) Syntactic ~~c) Empirical~~ d) Logical 1

21. A model of language consists of the categories which does not include?

- a) Language units b) Role structure of units ~~c) System constraints~~ d) Structural units 0

22. Among the following which is not a horn clause?

- a) p ~~b) $\neg p \vee q$~~ c) $p \rightarrow q$ d) $p \rightarrow \neg q$ 0

23. Type of matrix decomposition model is _____

- A. predictive model ~~B. descriptive model~~ C. logical model D. None 1

24. PCA is _____

- ~~A. backward feature selection~~ B. forward feature selection.
C. feature extraction D. None of these 0

25. Supervised learning and unsupervised clustering both require which is correct according to the statement.

- ~~A. input attribute~~ B. hidden attribute C. output attribute D. categorical attribute 1

26. Following are the types of supervised learning _____

- A. Regression B. classification C. subgroup discovery ~~D. All of above~~ 1

27. A feature F1 can take certain value: A, B, C, D, E, & F and represents grade of students from a college. Here feature type is _____

- ~~A. Ordinal~~ B. nominal C. categorical D. Boolean 0

28. Following is powerful distance metrics used by Geometric model _____

- A. Manhattan distance B. Euclidean distance ~~C. All of above~~ D. None of above 0

29. The output of training process in machine learning is _____

- A. Machine learning algorithm. ~~B. Machine learning model~~ C. Null D. accuracy 1

30. Which of the following is a good test dataset characteristic?

- A. is representative of the dataset as a whole
- B. large enough to yield meaningful results
- C. All of above
- D. None of above

31. Which of the following techniques would perform better for reducing dimensions of a data set?

- A. removing columns which have high variance in data
- B. removing columns which have too many missing value
- C. removing columns with dissimilar data trends
- D. None of the above

32. You are given reviews of few Netflix series marked as positive, negative and neutral. Classifying reviews of a new Netflix series is an example of _____

- A. unsupervised learning
- B. supervised learning
- C. semi supervised learning
- D. reinforcement learning

33. Like the probabilistic view, the _____ view allows us to associate a probability of membership with each classification

- A. Deductive
- B. exemplar
- C. classical
- D. inductive

34. Database query is used to uncover this type of knowledge.

- A. Hidden
- B. shallow
- C. Deep
- D. multidimensional

35. Data used to build a data mining model.

- A. Training data
- B. hidden data
- C. test data
- D. validation data

36. If machine learning model output doesn't involves target variable then that model is called as _____

- A. predictive model
- B. descriptive model
- C. reinforcement learning
- D. all of the above

37. In the example of predicting number of babies based on stork's population, Number of babies is _____

- A. feature
- B. observation
- C. outcome
- D. attribute

38. Following are the descriptive models _____

- A. Classification
- B. clustering
- C. association rule
- D. Both 1 and 2

39. What does dimensionality reduction reduce?

- A. Collinearity
- B. stochastic
- C. entropy
- D. performance

40. Which of the following is the best machine learning method?

- A. Accuracy B. scalable C. fast D. All of above

41. In multiclass classification number of classes must be _____

- A. Equals to two B. less than two C. greater than two D. None

42. Which of the following can only be used when training data are linearly separable?

- A. linear logistic regression B. linear hard-margin svm
C. linear soft margin svm D. parzen windows

43. Impact of high variance on the training set?

- A. underfitting B. overfitting C. both underfitting & overfitting D. depends upon the dataset

44. The effectiveness of an SVM depends upon _____

- A. kernel parameters B. selection of kernel C. soft margin parameter D. All of the above

45. Feature can be used as a _____

- A. predictor B. binary split C. All of above D. None of above

46. Which of the following evaluation metrics can not be applied in case of logistic regression output to compare with target?

- A. Accuracy B. auc-roc C. logloss D. mean-squared-error

47. A measurable property or parameter of the data-set is _____

- A. training data B. test data C. feature D. validation data

48. Support Vector Machine is _____

- A. geometric model B. probabilistic model C. logical model D. none

49. Imagine a Newly-Born starts to learn walking. It will try to find a suitable policy to learn walking after repeated falling and getting up. Specify what type of machine learning is best suited?

- A. Regression B. means algorithm C. reinforcement learning D. None

50. Different learning methods does not include?

- A. Deduction B. memorization C. analogy D. Introduction

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU-577102.
DEPARTMENT OF COPMUTER SCIENCE & ENGINEERING

Add-On Course on "Deep Learning :AI"

OVER ALL Add-On Course PARTICIPANTS FEEDBACK

Sl.No	DESCRIPTION	EXCELLENT	GOOD	POOR
1	How would you rate the presenter's knowledge on the concept?	✓		
2	How would you rate the concepts and Information provided by the Presenter?	✓		
3	What was your overall impression of the session?			✓
4	Remarks	Got some Knowledge after attending the session.		

MAAS
Signature of the Participants

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU

Department of Computer Science & Engineering

Summary Report

The course "Deep Learning:AI" was conducted at CS&E Dept from 18/06/2018 to 02/07/2018.

The main objective of this course is to make students comfortable with tools and techniques required in handling large amounts of datasets. They will also uncover various deep learning methods in NLP, Neural Networks etc. Several libraries and datasets publicly available will be used to illustrate the application of these algorithms. This will help students in developing skills required to gain experience of doing independent research and study.

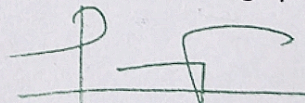
Course Outcomes

Students are able to

- Understand the informed and uninformed problem types and apply search strategies to solve them.
- Apply difficult real life problems in a state space representation so as to solve them using AI techniques like searching and game playing.
- Design and evaluate intelligent expert models for perception and prediction from intelligent environment.
- Formulate valid solutions for problems involving uncertain inputs or outcomes by using decision making techniques.
- Demonstrate and enrich knowledge to select and apply AI tools to synthesize information and develop models within constraints of application area.
- Examine the issues involved in knowledge bases, reasoning systems and planning



Instructor's Signature



HOD's Signature .

Professor and H.O.D.
Department of Computer Science and Engineering
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577102

ADD ON COURSE

ON

“BASICS OF SOFTWARE TESTING”



ADD-ON Course

On

“Basics of Software Testing”



Organized by,

**Department of Computer Science
and Engineering.**

**Adichunchanagiri Institute of
Technology,**

Chikmagalur – 577102

Karnataka, India

www.aitchikmagalur.ac.in

About the College:

**Adichunchanagiri Institute of
Technology (AIT)** was established in
the year 1980 under the auspicious
of **Adichunchanagiri Shikshana
Trust(R)** with the blessings of
**Bhairavaikya Jagadguru
Padmabhushana Sri Sri Sri Dr.
Balagangadharanatha**

Mahaswamiji to provide technical
and other professional education in the
rural area of Chikmagalur, the land of
Coffee. With the blessings of
**Jagadguru Sri Sri Sri.
Nirmalanandanatha Swamiji**, AIT is
imparting the quality education in
Engineering and Management with
ethical and spiritual values. The
engineering departments have

recognized as research centers under
VTU. The college has well equipped
laboratory facilities and highly
qualified and experienced faculty. The
Institute is providing good training for
students to excel in academics as well
as in industry requirements and aims
towards 100% placements to give a
better future for students.

About the Department:

The Department of Computer Science
and Engineering is established in the
year 1986. It was earlier affiliated to
the Mysore University later to the
Kuvempu University and at present, it
is affiliated to Visvesvaraya
Technological University, Belagavi.
The alumni of the department are
working in various reputed
organizations in India and abroad. The
department is accredited twice by
National Broad of Accreditation, New
Delhi.

The department offers UG, PG
Courses with an intake of 120 and 18
respectively and facilitates R&D
through VTU recognized research
center. The department has received
funds from various reputed agencies
like AICTE, VGST, KSCST, ISRO,
ISTE, etc., for its activities.

Objectives of the Course:

Software Testing is a method to
check whether the actual software
product matches expected
requirements and to ensure that
software product is Defect free. It
involves execution of software/system
components using manual or
automated tools to evaluate one or
more properties of interest. The
purpose of software testing is to
identify errors, gaps or missing
requirements in contrast to actual
requirements.

Software testing definition as a White
Box and Black Box Testing. In simple
terms, Software Testing means the
Verification of Application under Test
(AUT). This Software Testing course
introduces testing software to the
audience and justifies the importance
of software testing.

Resource Person:

Mr. CHETHAN P J

Assistant Professor

Dept of CS&E, AIT, Chikmagalur

Convenor:

**Dr Pushpa Ravi Kumar, Professor and
Head, Dept. of CS&E.**

Coordinator:

Mr. Gopinath C B, Asst Professor,

Dept. CS&E, AIT, Chikmagalur

ADICHUNCHANA GIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-577102
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD-ON Course – Basics of Software Testing

Student Enrollment List

S.NO	USN	Student Name
1	4AI16CS041	M D ZAHID HUSSAIN
2	4AI16CS069	ROHITH KUMAR SINGH
3	4AI17CS062	POOJA H B
4	4AI17CS063	POOJA K R
5	4AI17CS064	PRAGATHI HEBBAR KM
6	4AI17CS065	PRAJWALA D E
7	4AI17CS066	PRAJWAL M D
8	4AI17CS069	PREETHI N U
9	4AI17CS070	PRERANA M V
10	4AI17CS071	PRIYANKA T M
11	4AI17CS072	RAHUL PRABHU K
12	4AI17CS074	RAKSHITH H D
13	4AI17CS075	RANJANA A
14	4AI17CS076	ROHITH VINOD HUKKIERI
15	4AI17CS077	SADHANA P. HEBBAR
16	4AI17CS078	SAHANA M N
18	4AI17CS080	SANJAN R
19	4AI17CS081	SANJANA S
20	4AI17CS082	SANJITHA P
21	4AI17CS083	SHANMUKHA G C
22	4AI17CS084	SHARATH C R

23	4AI17CS085	SHARATH M G	<i>Sharath</i>
24	4AI17CS086	SHASHANK S	<i>Shashank</i>
25	4AI17CS087	SHASHANK S HEBBAR	<i>Shashank S.H.</i>
26	4AI17CS088	SHATHANIK A H V	<i>Shathani K.H.V.</i>
27	4AI17CS089	SHEEBA SUFIYAN	<i>Sheeba</i>
28	4AI17CS091	SHRAVANI RA	<i>Shravani R.H.</i>
29	4AI17CS092	SHRAYYA J N	<i>Shrayya J.N.</i>
30	4AI17CS093	SHREENIKA A K	<i>Shreenika</i>
31	4AI17CS094	SHRESHTA K S	<i>Shreshtha K.S.</i>
28	4AI17CS095	SHRINIDHI A S	<i>Shrinidhi</i>
29	4AI17CS096	SMAYANA A C	<i>Smayana</i>
30	4AI17CS097	SNEHA S P	<i>Sneha S.P.</i>
31	4AI17CS098	SOUNDARYA A R	<i>Soundaryaa R.</i>
32	4AI17CS099	SOWMYA H L	<i>Sowmya H.L.</i>
33	4AI17CS100	SPOORTHI K S	<i>Spoorthi K.S.</i>
34	4AI17CS101	SREERAKSHA TAPSE H	<i>Sreeraksha</i>
35	4AI17CS102	SUCHITHA H S	<i>Suchitha</i>
36	4AI17CS103	SUHAS S GOWDA	<i>Suhas</i>
37	4AI17CS104	SUJITH D S	<i>Sujitha</i>
38	4AI17CS106	SUSHMITHA R	<i>Sushmita</i>
39	4AI17CS107	SWAROOP A PAWAR	<i>Swaroop</i>
40	4AI17CS108	SYED MAQDUM C M	<i>Syed</i>
41	4AI17CS109	TEJAS M DEVANG	<i>Tejas</i>
42	4AI17CS110	TEJASHWINI B V	<i>Tejashwini B.V.</i>
43	4AI17CS111	THEJUS C J	<i>Thejus C.J.</i>
44	4AI17CS112	ULLAS M R	<i>Ullas M.R.</i>
45	4AI17CS113	UMME SUHANA	<i>Umme</i>


46	4AI17CS114	USHA B.M	<i>Usha</i>
47	4AI17CS116	VANISHREE B	<i>Vanishree</i>
48	4AI17CS117	VIDYA T S	<i>Vidya</i>
49	4AI17CS118	VYSHNAVIN	<i>Vishnava</i>
50	4AI17CS119	YAMUNA S	<i>Yamuna</i>
51	4AI17CS120	POOJA S	<i>Pooja</i>
52	4AI18CS400	Aishwarya C	<i>Aish</i>
53	4AI18CS402	ARPITHA C U	<i>Arpitha</i>
54	4AI18CS404	MANOJ R	<i>Manojir</i>
55	4AI18CS405	MOHAMMED IBRAHIM SAFIULLA	<i>Mohammed Ibrahim</i>
56	4AI18CS406	Nitish Kumar N H	<i>Natishkumar</i>
57	4AI18CS407	RAHIL M B	<i>Rahil M.B</i>
58	4AI18CS410	Sowmya A P	<i>Sowmya</i>
59	4AI17CS022	BHAVYA M N	<i>Bhavya</i>
60	4AI17CS023	BHOOMIKA B R	<i>Bhoomika</i>
61	4AI17CS024	BHUMIKA K G	<i>Bhumi</i>
62	4AI17CS025	CHAITHRA H G	<i>Chaitra</i>
63	4AI17CS026	CHANDAN C V	<i>Chandan</i>
64	4AI17CS027	CETHAN S	<i>Chethan S.</i>
65	4AI17CS028	CHIRANTH M V	<i>Chiranth</i>
66	4AI17CS029	DARSHAN K S	<i>Darshan K.S</i>
67	4AI17CS030	DEEKSHA R	<i>Deeksha</i>
68	4AI17CS031	DEEPIKA H P	<i>Deepika</i>
69	4AI17CS032	DEEPTHI A	<i>Deepthi</i>
70	4AI17CS033	FARHEEN NAAZ	<i>Farheen</i>
71	4AI17CS034	GOWRAV A S	<i>Gowrav A S</i>
72	4AI17CS036	HALEEMA FAIZA	<i>Haleema</i>

73	4AI17CS037	HARSHADA LACHARYA	Harshada
74	4AI17CS038	HARSHITHA C M	Harshitha
75	4AI17CS039	JAYALAKSHMI A N	Jayal
76	4AI17CS040	JEEVAN REDDY K N	Jeevan
77	4AI17CS041	JYOTHIRMAYEE P V S N	Jyothir
78	4AI17CS042	KARTHIK REDDY A P	Karthik
79	4AI17CS043	KAVANA S	Kavana
80	4AI17CS044	KAVYA B M	Kavya
81	4AI17CS045	KIRIGODALA NAGARAJU MANIKANTA	Kirigodala
82	4AI17CS047	LAVANYA M G	Lavanya
83	4AI17CS048	MADEEHA RAYAN FATHIM	Madeeha
84	4AI17CS049	MANASA I M	Manasa
85	4AI17CS050	MANASVI PRASHANTH	Manasvi
86	4AI17CS052	MEGHA M H	Megha
87	4AI17CS053	MEGHASHREE K S	Megha
88	4AI17CS054	MOHAMMED TAHA	Mohammed
89	4AI17CS055	NANDINI A S	Nandini
90	4AI17CS056	NAVDEEP M K	Navdeep
91	4AI17CS057	NELVITA LORRAINE FERNANDES	Nelvita
92	4AI17CS058	NIHARIKA B R	Niharika

ADICHUCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ADD ON COURSE: BASICS OF SOFTWARE TESTING

Toppers List

Sl.No	Student Name	Student USN	Marks Obtained
1	SHANMUKA G C	4AI17CS083	48
2	SHEEBA SUFIYA	4AI17CS089	47
3	SUHAS GOWDA	4AI17CS103	46


Signature of HOD
Professor and H.O.D.
Department of Computer Science and Engg.
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577102

ADICHUCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
ADD ON COURSE: BASICS OF SOFTWARE TESTING

SEMESTER: IV

Student Name: Shanmuka GC

Max Marks: 50

USN: 4A117CC083

Note: There are 50 multiple choice questions. All questions are compulsory. Each question carries equal marks.

50*1=50

1. A deviation from the specified or expected behavior that is visible to end-users is called:
a) An error b) a fault c) a failure d) a defect

2. A configuration management system would NOT normally provide:
a) Linkage of customer requirements to version numbers.
b) The precise differences in versions of software component source code.
 c) Facilities to compare test results with expected results.
d) Restricted access to the source code library

3. Test cases are designed during:
a) Test recording. b) Test configuration. c) Test planning. d) Test specification

4. Which of the following statements about reviews is true?
 a) Reviews should be performed on specifications, code, and test plans
b) Reviews are the least effective way of testing code.
c) Reviews are unlikely to find faults in test plans.
d) Reviews cannot be performed on user requirements specifications.

5. In case of Large Systems
a) Only few tests should be run b) Test Cases written by good test engineers should be executed
c) Only Good Test Cases should be executed d) Testing should be on the basis of Risk

6. Which of the following will be the best definition for Testing :
 a) Testing is executing Software for the purpose of finding defects
b) The purpose of testing is to demonstrate that the program is defect free
c) The purpose of testing is to demonstrate that the program does what it is supposed to do
d) The goal / purpose of testing is to demonstrate that the program works.

7. Which of the following is not a type of incremental testing approach?
 a) Big-bang b) Top down c) Bottom up d) Functional incrimination

8. Test Conditions are derived from
a) Test Design b) Test Cases c) Test Data d) Specifications

9. Pick the best definition of quality
a) Quality is job one requirements b) Zero defects c) Work as designed d) Conformance to

10. Fault Masking is
a) Creating a test case which does not reveal a fault b) Error condition hiding another error condition
c) Masking a fault by developer d) Masking a fault by a tester

11. Boundary value testing
a) Is the same as equivalence partitioning tests b) Tests combinations of input circumstances
 c) Test boundary conditions on, below and above the edges of input and output equivalence classes
d) Is used in white box testing strategy

48
50

R. Hanu

12. One Key reason why developers have difficulty testing their own work is:

- 1- a) Lack of technical documentation b) Lack of test tools on the market for developer's
c) ~~Lack of Objectivity~~ d) Lack of training

13. In a review meeting a moderator is a person who:

- 1- a) Takes minutes of the meeting b) Takes telephone calls
c) ~~Mediates between people~~ d) writes the documents to be reviewed

14. Acceptance test cases are based on what?

- 1- a) Decision table b) Design c) Code d) ~~Requirements~~

15. How much testing is enough?

- 1- a) This question is easy to answer b) This question is impossible to answer
c) ~~The answer depends on the risk for your industry, contract and special requirements~~
d) This answer depends on the maturity of your developers

16. which of the following is the component test standard?

- 1- a) IEEE 610 b) IEEE 829 c) BS7925-1 d) ~~BS7925-2~~

17. Which of the following is NOT a standard related to testing?

- 1- a) ~~IEEE610~~ b) IEEE829 c) BS7925-1 d) BS7925-2

18. The standard that gives definitions of testing terms is:

- 1- a) ISO/IEC 12207 b) ~~BS 7925-1~~ c) ANSI/IEEE 729 d) ANSI/IEEE 829

19. Which of the following is NOT true of incidents?

- 1- a) Incidents are raised when expected and actual results differ. b) Incidents may be raised against user requirements.
c) Incidents require investigation and/or correction.
d) ~~Incident resolution is the responsibility of the author of the software under test.~~

20. Which of the following is false?

- 1- a) In a system two different failures may have different severities.
b) A fault need not affect the reliability of a system.
c) ~~A system is necessarily more reliable after debugging for the removal of a fault.~~
d) Undetected errors may lead to faults and eventually to incorrect behavior.

21. Which of the following is the odd one out?

- 1- a) White box b) ~~Functional~~ c) Structural d) Glass box

22. Which of the following is a static test?

- 1- a) Coverage analysis b) ~~Code inspection~~ c) Usability assessment d) Installation test

23. Which of the following is a black box design technique?

- 1- a) statement testing b) error- guessing c) ~~equivalence partitioning~~ d) usability testing

24. Which of the following is not the integration strategy?

- 1- a) ~~Design based~~ b) Bottom-up c) Big-bang d) Top-down

25. Which of the following is NOT a reasonable test objective?

- 1- a) To find faults in the software b) To give confidence in the software
c) ~~To prove that the software has no faults~~ d) To find performance problems

26. Which of the following uses Impact Analysis most?

- a) Non-functional system testing b) Component testing c) User acceptance testing
d) Maintenance testing

27. Expected results are:

- a) Only important in system testing b) Most useful when specified in advance c) Only used in component testing
d) Derived from the code

28. What type of review requires formal entry and exit criteria, including metrics?

- a) Management review b) Inspection c) Walkthrough d) Post project review

29. The difference between re-testing and regression testing is:

- a) Re-testing ensures the original fault has been removed; regression testing looks for unexpected side-effects
b) Re-testing looks for unexpected side-effects; regression testing ensures the original fault has been removed
c) Re-testing is done by developers; regression testing is done by independent testers
d) Re-testing is done after faults are fixed; regression testing is done earlier

30. Given the following types of tool, which tools would typically be used by developers, and which by an independent system test team?

- i) Static analysis ii) performance testing iii. Test management iv) dynamic analysis

- a) Developers would typically use i and iv; test team ii and iii
b) Developers would typically use i and iii; test team ii and iv
c) Developers would typically use i, iii and iv; test team ii
d) Developers would typically use ii and iv; test team i and iii

31. Functional system testing is:

- a) Testing that the system functions with other systems
b) testing the end to end functionality of the system as a whole
c) Testing that the components that comprise the system function together
d) testing the system performs functions within specified response times

32. Which of the following items would not come under Configuration Management?

- a) Operating systems b) Live data c) Test documentation d) User requirement documents

33. Incidents would not be raised against:

- a) Requirements b) Documentation c) Improvements suggested by users d) Test cases

34. Maintenance testing is:

- a) Testing to maintain business advantage b) Testing a released system that has been changed
c) Testing by users to ensure that the system meets a business need d) Updating tests when the software has changed

35. Which of the following techniques is NOT a black box technique?

- a) State transition testing b) Syntax testing c) LCSAJ d) Boundary value analysis

36. What can static analysis NOT find?

- a) Memory leaks b) Unreachable ("dead") code c) The use of a variable before it has been defined
d) Array bound violations

37. Which of the following is likely to benefit most from the use of test tools providing test capture and replay facilities?

- a) Integration testing ~~b) Regression testing~~ c) System testing d) User acceptance testing

38. Which of the following requirements is testable?

- a) The system shall be user friendly.
~~b) The response time shall be less than one second for the specified design load.~~
c) The safety-critical parts of the system shall contain 0 faults.
d) The system shall be built to be portable.

39. In prioritizing what to test, the most important objective is to:

- ~~a) Test high risk areas.~~ b) Find as many faults as possible. c) Obtain good test coverage.
d) Test whatever is easiest to test.

40. Which of the following is false?

- a) An incident can be raised against documentation.
b) An incident occurs when expected and actual results differ.
c) Incidents can be analyzed to assist in test process improvement.
~~d) Incidents should always be fixed.~~

41. Identify the correct functional requirement.

- a) Robustness ~~b) Portability~~ c) Maintainability d) None

42. Identify the correct measure for correctness.

- a) Errors per KLOC ~~b) \$ per KLOC~~ c) Defects per KLOC d) None

43. Identify the fault-based testing technique.

- a) Beta testing b) Unit testing ~~c) Mutation testing~~ d) Stress testing

44. Identify the term which is not related to testing?

- ~~a) Failure~~ b) error c) Test case d) Test bot

45. When can white-box testing be started?

- a) After SRS creation b) after installation c) after programming ~~d) After designing~~

46. By whom is unit testing done?

- a) Users ~~b) Customers~~ c) Developers d) None

47. In which of the following categories can white-box testing be classified?

- ~~a) Design based testing~~ b) Structural testing c) Error guessing technique d) None of the above

48. Identify the term which is used to define testing?

- a) Finding broken code b) A stage of all projects ~~c) Evaluating deliverables to find errors~~
d) None of the above

49. Identify the environment in which we can perform alpha testing?

- a) User's end b) Developer's end c) Both a and b are correct ~~d) None of the above~~

50. Choose the correct option which represents the key objective of integration testing?

- a) Interface errors ~~b) Procedure errors~~ c) Design errors d) none of the above

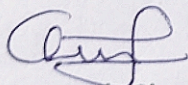
Summary Report

The course "Software Testing" was conducted at CS&E Dept from 25/01/2019 to 29/01/2019.

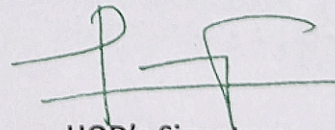
This course helps the students to understand critical processes of the software development process life cycle. It helps the companies to perform a comprehensive assessment of software and ensure that their product fulfils the client's needs. The testing phases of the software development lifecycle help to identify all errors and bugs of any software to companies before it is implemented. If the software bugs are not solved or fixed before deployment they badly affect the client's business.

Course Outcomes

1. Understand and describe the basic concepts of functional (black box) software testing.
2. Identify a number of test styles and techniques and assess their usefulness in your context.
3. Understand the basic application of techniques used to identify useful ideas for tests.
4. Help determine the mission and communicate the status of your testing with the rest of your project team.
5. Understand where key testing concepts apply within the context of unified processes.



Instructor's Signature



HOD's Signature

Professor and H.O.D.
Department of Computer Science and Engg.
Adichunchanagiri Institute of Technology
CHIKKAMAGALUR - 577102

ADD-ON Program

2021-22

ADD on Program

On

“Deep Learning :AI”



ADD-ON Course
On
"DEEP LEARNING:AI"



Organized by,
Department of Computer Science
and Engineering,
Adichunchanagiri Institute of
Technology,
Chikmagalur – 577102
Karnataka, India
www.aitechmagalur.ac.in

About the College:

Adichunchanagiri Institute of Technology (AIT) was established in the year 1980 under the auspicious of Adichunchanagiri Shikshana Trust(R) with the blessings of Bhairavaikya Jagadguru Padmabhushana Sri Sri Sri Dr. Balagangadharanatha Mahaswamiji to provide technical and other professional education in the rural area of Chikmagalur, the land of Coffee. With the blessings of Jagadguru Sri Sri Sri Nirmalanandanatha Swamiji, AIT is imparting the quality education in Engineering and Management with ethical and spiritual values. The engineering departments have

recognized as research centers under VTU. The college has well equipped laboratory facilities and highly qualified and experienced faculty. The Institute is providing good training for students to excel in academics as well as in industry requirements and aims towards 100% placements to give a better future for students.

About the Department:

The Department of Computer Science and Engineering is established in the year 1986. It was earlier affiliated to the Mysore University later to the Kuvempu University and at present, it is affiliated to Visvesvaraya Technological University, Belagavi. The alumni of the department are working in various reputed organizations in India and abroad. The department is accredited twice by National Board of Accreditation, New Delhi.

The department offers UG, PG Courses with an intake of 120 and 18 respectively and facilitates R&D through VTU recognized research center. The department has received funds from various reputed agencies like AICTE, VGST, KSCST, ISRO, ISTE, etc., for its activities.

Objectives of the Course:

Competence in technical writing holds great importance in the present era. Technical writing deals with specific knowledge, generally in the sphere of science and technology, and may be used in a wide variety of media: journal papers, thesis, project proposals, and other technical documents. DEEP LEARNING:AI is a document typesetting system that is used to produce high quality scientific documents, like articles, books, dissertations, technical reports, etc. Expertise in drafting technical documents is an indispensable skill for all professionals for it helps them to share their knowledge of technical subjects effectively in all domains of society and thus makes them competent in their professional careers

Resource Person:

Dr. Adarsh M J.
Associate Professor
Dept of CS&E, AIT, Chikkamagaluru

Convenor:

Dr Pushpa Ravi kumar, Professor and Head, Dept. of CS&E.

Coordinator:

Mr. S J Prashanth, Asst Professor,
Dept. CS&E, AIT, Chikkamagaluru



|| Jai Sri Gurudev ||



**SRI ADICHUNCHANAGIRI SHIKSHANA TRUST ®
ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY,
CHIKKAMAGALURU**

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Ref: AIT/IQAC/CSE/ /2018-2019

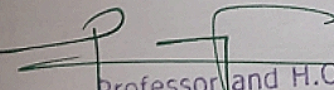
Date: 10/06/2018

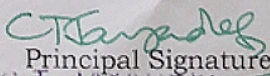
Circular

Department of Computer Science & Engineering is conducting a Certificate Program (Add-on Program) on "Deep Learning :AI [19CS_AC_013] from 18-06-2018 to 02-07-2018 All other HOD's instruct the concern department students to attend the program. Following faculty member (Course instructor) is conducting a certificate program at CS&E Department.

Course Instructor

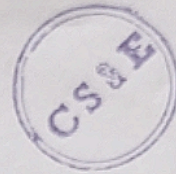
1. Prof. Vivekananda
Assistant Professor
Dept. of CS&E
AIT Chikmagalur
2. Prof. S J Prashantha
Assistant Professor
Dept. of CS&E
AIT Chikmagalur


Professor and H.O.D.
HOD's Signature
Department of Computer Science and Engg
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577102


Principal Signature
Dr. C.T. JAYADEVA
Principal B.E., M.Tech., Ph.D
Adichunchanagiri Institute of Technology
CHIKKAMAGALURU-577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Add on course – 30 Hours



ADD on Course Name: Deep Learning : AI

Course Code: 19CS_AC_013

Module 1:

10 Hours

Basic Concepts of Machine Learning: Machine Learning Systems ,Supervised Learning , Learning Algorithms Parametric Models ,Cost functions ,Generalization ,Regularization ,Evaluation of a Binary Classifier , Confusion Matrix ,Receiver Operating, Characteristic Curve , Precision Recall Curve.

Module 2:

10 Hours

Artificial Neural Networks: Basic Concepts ,Feed forward Neural Networks ,Single-Layer Perceptron ,Multilayer Perceptron ,ANN Learning Gradient Descent Methods ,Back-propagation Algorithm ,Regularization

Module 3:

10 Hours

Convolutional Neural Networks :Convolution Operation . Convolution in Mathematic and Image Processing Convolution in Neuroscience ,Convolutional Network Architecture . Convolutional Layer . Pooling .. Batch Normalization . Main Concepts Behind CNNs . Local Receptive fields. Parameter Sharing . Popular CNN Architectures .

TEXT BOOKS:

1. Neural Networks and Deep learning : A Text book by Charu C.Aggarrwal 2018

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD on Course Name: Deep Learning: AI

Course Code: 19CS_AC_013

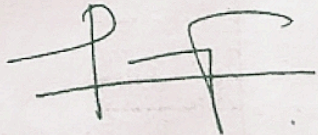
Branch: CSE

Student Enrollment List

SI NO	NAME	USN	SIGNATURE
1	APOORVA S R	4A114CS012	Apoorva S R
2	DEEKSHA K N	4A114CS026	Deeksha
3	ABHISHEK G	4A115CS002	Abhishek
4	CHANDANA P H	4A115CS028	Chandana
5	KOUSHIK S D	4A115CS051	Koushik S D
6	NIDHI A R	4A115CS064	Nidhi
7	SIDDANTH B K	4A115CS103	Siddanth
8	ADYA H N	4A116CS002	Adya
9	AGNES SANMATHI D	4A116CS003	Agnes
10	ALFIYA BANU	4A116CS004	Alfiya
11	ANANYA K V	4A116CS006	Ananya
12	ANUSHA K N	4A116CS007	Anusha
13	ANUVIKA A S	4A116CS008	Anuvika
14	ARVIND GIRISH	4A116CS009	Arvind
15	BABITHA B	4A116CS011	Babitha
16	BHAGYASHREE H D	4A116CS012	Bhagya
17	BHOOMIKA G S	4A116CS013	Bhoomika
18	BHOOMIKA K	4A116CS014	Bhoomika
19	BINDUSHREE C	4A116CS015	Bindu
20	BINDUSREE B R	4A116CS016	Bindu
21	BRUNDA D	4A116CS017	Brunda
22	CHANDANA H Y	4A116CS018	Chandana
23	CHINMAYEE	4A116CS019	Chinmayee
24	CHINTHANA M C	4A116CS021	Chinthana
25	CHIRAG M R	4A116CS022	Chirag
26	DEEPAK N R	4A116CS023	Deepak
27	DEEPIKA D P	4A116CS024	Deepika
28	GADDI CHETAN	4A116CS025	Gaddi
29	GOURAV B R	4A116CS026	Gourav
30	HARSHA H K	4A116CS027	Harsha
31	JAYASHREE	4A116CS028	Jayashree
32	JEEVAN A S	4A116CS029	Jeevan
33	KALPASHREE Y	4A116CS030	Kalpashree
34	KARTHIK N L	4A116CS031	Karthik
35	KAVYA S	4A116CS032	Kavya
36	KAVYA S K	4A116CS033	Kavya S K
37	KAVYASHREE C M	4A116CS034	Kavyashree
38	KHALEEL AHAMED	4A116CS035	Khaleel
39	KOWSHIK V	4A116CS036	Koushik
40	KRUTHIKA G NAYAK	4A116CS037	Kruthika
41	LEANDRA MARIA MENDON	4A116CS038	Leandra

42	MANISHA P BEERAI AH	4AI16CS040	Manisha
43	MEGHANA D Y	4AI16CS042	Meghana
44	MOHAMMED NIHAL KHAN	4AI16CS043	Mohammed Khan
45	MOUNA J	4AI16CS044	Mouna
46	NAMITHA M TAPSE	4AI16CS046	Namitha
47	NAVEEN P PARVATHANENI	4AI16CS047	Naveen
48	NAYANA K S	4AI16CS048	Nayana
49	NESARA B R	4AI16CS049	Nesara
50	NISCHITHA K S	4AI16CS051	Nischitha
51	NISHANTH K R	4AI16CS052	Nishanth
52	NISWARTH V SHETTY	4AI16CS053	Niswarth
53	P PRADEEP KUMAR	4AI16CS054	P Pradeep
54	POOJA B R	4AI16CS055	Pooja
55	POOJA B S	4AI16CS056	Pooja
56	POOJA N K	4AI16CS057	Pooja NK
57	POOJA S	4AI16CS058	Pooja
58	POORNIMA C L	4AI16CS059	Poornima
59	RACHANA N VANAGUR	4AI16CS062	Rachana
60	RAHULA	4AI16CS063	Rahula
61	RAHUL S	4AI16CS064	Rahul
62	POOJA C P	4AI16CS127	Pooja
63	ALFIYA SHAIK	4AI16CS130	Alfiya
64	AMBIKA D P	4AI17CS400	Ambika
65	SHASHIKALA S	4AI17CS407	Shashika
66	VIJETHA B S	4AI17CS409	Vijetha
67	SHREYA B R	4AI16CS085	Shreya
68	SHRIKARAN C N	4AI16CS086	Shrikaran
69	SHRUTHA R JAIN	4AI16CS087	Shrutha
70	SIDDESH P	4AI16CS088	Siddesh
71	SINCHANA S B	4AI16CS089	Sinchana
72	SINCHANA S GOWDA	4AI16CS090	Sinchana
73	SNEHA K	4AI16CS091	Sneha
74	SOUMYA H	4AI16CS092	Soumya
75	SOUNDARYA GOGATE T S	4AI16CS093	Soundarya
76	SOURAB SAKLECHA	4AI16CS094	Sourab
77	SOWMYA M	4AI16CS095	Sowmya
78	SPANDANA H P	4AI16CS096	Spandana
79	SPANDANA S	4AI16CS097	Spandana
80	SPARSHA B R	4AI16CS098	Sparsha
81	SPOORTHI A N	4AI16CS099	Spoorthi
82	SRISTI BAGAMANE	4AI16CS100	Sristi
83	SRUSTI R B S	4AI16CS101	Srusti
84	SUMANTHA M K	4AI16CS102	Sumantha
85	SUPRITH K	4AI16CS103	Suprith
86	SUPRIYA S K	4AI16CS104	Supriya
87	VAISHNAVI C O	4AI16CS114	Vaishnavi

Manisha
Course Instructor Signature


Professor S. H. D.
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ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD on Course Name: Deep Learning :AI

Course Code : 19CS_AC_013

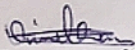
Branch: CSE

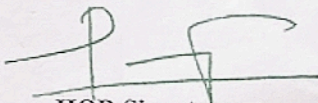
Students are identified for ADD on Course Classes based on their enrolment.
 ADD on Course classes will be held during 18-06-2018 to 02-07-2018 at CS&E dept
 from 4-6pm

Attendance Report

SI NO	NAME	USN	During 18-06-2018 to 02-07-2018															Signature
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	APOORVA S R	4AI14CS012	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Apoorva SR	
2	DEEKSHA K N	4AI14CS026	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Deeksha KN	
3	ABHISHEK G	4AI15CS002	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Abhishek	
4	CHANDANA P H	4AI15CS028	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Chandana	
5	KOUSHIK S D	4AI15CS051	P	P	P	P	P	P	P	P	P	A	A	P	P	P	Koushik	
6	NIDHI A R	4AI15CS064	P	P	P	P	P	P	P	P	P	A	A	P	P	P	Nidhi	
7	SIDDANTH B K	4AI15CS103	P	P	P	P	P	P	A	A	A	A	P	P	P	P	Siddanth	
8	ADYA H N	4AI16CS002	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Adya HN	
9	AGNES SANMATHI D	4AI16CS003	P	P	P	P	P	P	A	A	P	P	P	P	P	P	Agnes Sanmathi D	
10	ALFIYA BANU	4AI16CS004	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Alfiya Banu	
11	ANANYA K V	4AI16CS006	P	A	P	A	P	P	P	P	P	P	A	P	P	P	Ananya KV	
12	ANUSHA K N	4AI16CS007	P	P	P	P	P	A	A	A	A	P	P	P	P	P	Anusha KN	
13	ANUVIKA A S	4AI16CS008	P	A	A	P	P	P	A	P	P	P	P	P	P	P	Anuvika AS	
14	ARVIND GIRISH	4AI16CS009	P	P	P	P	P	P	P	P	P	P	A	A	P	A	Arvind Girish	
15	BABITHA B	4AI16CS011	P	P	A	A	P	P	P	P	P	A	P	P	P	P	Babitha B	
16	BHAGYASHREE H D	4AI16CS012	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bhagya	
17	BHOOMIKA G S	4AI16CS013	P	P	P	P	P	P	A	A	A	P	P	P	P	P	Bhoomika	
18	BHOOMIKA K	4AI16CS014	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Bhoomika K	
19	BINDUSHREE C	4AI16CS015	P	P	P	P	P	P	P	P	A	P	P	P	A	P	Bindushree C	
20	BINDUSREE B R	4AI16CS016	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Bindusree BR	
21	BRUNDA D	4AI16CS017	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Brunda D	
22	CHANDANA H Y	4AI16CS018	A	A	A	P	P	P	A	P	P	P	P	P	P	P	Chandana HY	
23	CHINMAYEE	4AI16CS019	P	P	P	A	P	P	A	P	P	P	A	P	P	P	Chinmayee	
24	CHINTHANA M C	4AI16CS021	A	A	P	P	P	P	P	P	P	A	P	P	P	P	Chinthana MC	
25	CHIRAG M R	4AI16CS022	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Chirag MR	
26	DEEPAK N R	4AI16CS023	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Deepak NR	
27	DEEPIKA D P	4AI16CS024	P	A	P	P	A	P	P	P	P	P	P	A	P	P	Deepika DP	
28	GADDI CHETAN	4AI16CS025	P	P	A	P	P	A	P	P	P	P	P	P	P	P	Gaddi Chetan	
29	GOURAV B R	4AI16CS026	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Gourav BR	
30	HARSHA H K	4AI16CS027	P	P	P	P	P	P	P	P	P	P	A	P	P	P	Harsha HK	
31	JAYASHREE	4AI16CS028	P	A	P	P	P	P	P	P	P	P	P	P	P	A	Jayashree	
32	JEEVAN A S	4AI16CS029	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Jeevan AS	
33	KALPASHREE Y	4AI16CS030	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Kalpashree Y	
34	KARTHIK N L	4AI16CS031	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Karthik NL	
35	KAVYA S	4AI16CS032	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Kavya S	
36	KAVYA S K	4AI16CS033	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Kavya SK	
37	KAVYASHREE C M	4AI16CS034	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Kavyashree CM	
38	KHALEEL AHAMED	4AI16CS035	P	P	A	P	P	P	P	P	P	P	P	A	P	P	Khaleel Ahmed	

39	KOWSHIK V	4AI16CS036	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	Kat
40	KRUTHIKA G NAYAK	4AI16CS037	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Krutika
41	LEANDRA MARIA MENDON	4AI16CS038	A	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	Leandra
42	MANISHA P BEERAJAH	4AI16CS040	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Manisha
43	MEGHANA D Y	4AI16CS042	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Meghana
44	MOHAMMED NIHAL KHAN	4AI16CS043	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Mohammed
45	MOUNA J	4AI16CS044	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Mouna
46	NAMITHA M TAPSE	4AI16CS046	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Namitha
47	NAVEEN P PARVATHANENI	4AI16CS047	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Naveen
48	NAYANA K S	4AI16CS048	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Nayana
49	NESARA B R	4AI16CS049	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Nesara
50	NISCHITHA K S	4AI16CS051	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Nischitha
51	NISHANTH K R	4AI16CS052	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	Nishanth
52	NISWARTH V SHETTY	4AI16CS053	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Niswarth
53	P PRADEEP KUMAR	4AI16CS054	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Praadeep
54	POOJA B R	4AI16CS055	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	Pooja
55	POOJA B S	4AI16CS056	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P	Pooja
56	POOJA N K	4AI16CS057	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Pooja
57	POOJA S	4AI16CS058	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Pooja
58	POORNIMA C L	4AI16CS059	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Poornima
59	RACHANA N VANAGUR	4AI16CS062	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Rachana
60	RAHULA	4AI16CS063	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	Rahula
61	RAHUL S	4AI16CS064	A	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Rahul
62	POOJA C P	4AI16CS127	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	Pooja
63	ALFIYA SHAIK	4AI16CS130	P	P	P	A	P	P	P	P	P	A	P	A	P	P	P	P	Alfiya
64	AMBIKA D P	4AI17CS400	P	A	P	P	P	P	P	P	P	A	P	P	P	P	P	P	Ambika
65	SHASHIKALA S	4AI17CS407	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Shashikala
66	VUETHA B S	4AI17CS409	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Vuetha
67	SHREYA B R	4AI16CS085	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Shreya
68	SHRIKARAN C N	4AI16CS086	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	Shrikaran
69	SHRUTHA R JAIN	4AI16CS087	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Shrutha
70	SIDDESH P	4AI16CS088	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Siddesh
71	SINCHANA S B	4AI16CS089	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Sinchana
72	SINCHANA S GOWDA	4AI16CS090	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Sinchana
73	SNEHA K	4AI16CS091	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sneha
74	SOUMYA H	4AI16CS092	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Soumya
75	SOUNDARYA GOGATE T S	4AI16CS093	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	Soundarya
76	SOURAB SAKLECHA	4AI16CS094	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sourab
77	SOWMYA M	4AI16CS095	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Sowmya
78	SPANDANA H P	4AI16CS096	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	Spandana
79	SPANDANA S	4AI16CS097	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Spandana
80	SPARSHA B R	4AI16CS098	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Sparsha
81	SPOORTHI A N	4AI16CS099	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	Spoorthi
82	SRISTI BAGAMANE	4AI16CS100	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P	Sristi
83	SRUSTI R B S	4AI16CS101	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Srusti
84	SUMANTHA M K	4AI16CS102	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	Sumantha
85	SUPRITH K	4AI16CS103	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Suprith
86	SUPRIYA S K	4AI16CS104	P	P	P	P	P	P	A	A	A	A	P	P	P	P	P	P	Supriya
87	VAISHNAVI C O	4AI16CS114	A	A	A	P	P	P	P	P	P	P	A	A	P	P	P	P	Vaishnavi


Course Instructor Signature


HOD Signature
Professor and H.O.D.
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ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU

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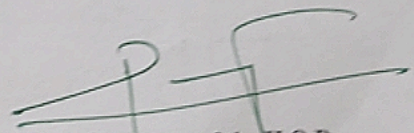
ADD ON COURSE NAME: DEEP LEARNING: AI

COURSE CODE: 19CS_AC_013

ASSESSMENT QUESTIONS

LIST OF TOPPERS

SLNo	Name of the Student	USN	Marks Scored
1	Vaishnavi C O	4AI16CS114	50
2	Sumantha M K	4AI16CS102	49
3	Sristi Bagamane	4AI16CS100	48



Signature of the H.O.D
Professor and H.O.D.

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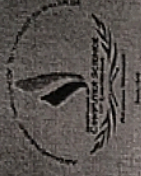
||Jai Sri Gurudev||

Sri Adichunchanagiri Shikshana Trust (R)

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

CHIKKAMAGALURU - 577 102

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Certificate of Participation

This is to certify that POOJA B R has successfully completed the add on course on "Deep Learning :AI" from 18-06-2018 to 02-07-2018 organized by Department of Computer Science and Engineering.

Prof. S J Prashantha
Staff co-ordinator

Prof. Vivekananda
Staff co-ordinator

Professor and H.O.D.
Dr. Pushpan Ravikiran
Adichunchanagiri Institute of Technology
CHIKKAMAGALURU - 577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD ON COURSE NAME: DEEP LEARNING: AI

COURSE CODE: 19CS_AC_013

ASSESSMENT QUESTIONS

35
50

Name of the Student: Apoorva S.R

Max Marks: 50

USN: HA11HCS012

1. Which of the following is a subset of machine learning?
 A. Numpy B. SciPy C. Deep Learning D. All of the above
2. How many layers Deep learning algorithms are constructed?
 A. 2 B. 3 C. 4 D. 5
3. The first layer is called the?
 A. inner layer B. outer layer C. hidden layer D. None of the above
4. RNNs stands for?
 A. Receives neural networks B. Report neural networks
C. Recording neural networks D. Recurrent neural networks
5. Which of the following is/are Common uses of RNNs?
 A. Businesses Help securities traders to generate analytic reports
 B. Detect fraudulent credit-card transaction
C. Provide a caption for images
D. All of the above
6. CNN is mostly used when there is an?
 A. structured data B. unstructured data C. Both A and B D. None of the above
7. Which neural network has only one hidden layer between the input and output?
 A. Shallow neural network B. Deep neural network
C. Feed-forward neural networks D. Recurrent neural networks

8. Deep learning algorithms are _____ more accurate than machine learning algorithm in image classification.
- A. 33% B. 37% C. 40% ~~D. 41%~~ |
9. In which of the following applications can we use deep learning to solve the problem?
- A. Protein structure prediction B. Prediction of chemical reactions
C. Detection of exotic particles ~~D. All of the above~~ |
10. The number of nodes in the input layer is 10 and the hidden layer is 5. The maximum number of connections from the input layer to the hidden layer are
- A. 50 B. less than 50 ~~C. more than 50~~ D. It is an arbitrary value
11. The input image has been converted into a matrix of size 28 X 28 and a kernel/filter of size 7 X 7 with a stride of 1. What will be the size of the convoluted matrix?
- A. 20x20 ~~B. 21x21~~ C. 22x22 D. 25x25
12. In a simple MLP model with 8 neurons in the input layer, 5 neurons in the hidden layer and 1 neuron in the output layer. What is the size of the weight matrices between hidden output layer and input hidden layer?
- A. [1 X 5], [5 X 8] ~~B. [5 X 1], [8 X 5]~~ C. [8 X 5], [5 X 1] D. [8 X 5], [1 X 5] |
13. Which of the following functions can be used as an activation function in the output layer if we wish to predict the probabilities of n classes (p_1, p_2, \dots, p_k) such that sum of p over all n equals to 1?
- ~~A. Softmax~~ B. ReLu C. Sigmoid D. Tanh |
14. Assume a simple MLP model with 3 neurons and inputs= 1,2,3. The weights to the input neurons are 4,5 and 6 respectively. Assume the activation function is a linear constant value of 3. What will be the output?
- A. 32 B. 64 ~~C. 96~~ D. 128 |
15. Sentiment analysis using Deep Learning is a many-to one prediction task.
- ~~A. True~~ B. False C. Can be true and false D. can not say |
16. In CNN, having max pooling always decrease the parameters?
- A. True ~~B. False~~ C. Can be true and false D. cannot say |
17. When an experienced deep learning engineer works on a new problem, they can usually use insight from previous problems to train a good model on the first try, without needing to iterate multiple times through different models.?
- ~~A. True~~ B. False |

18. Which of the factors affect the performance of learner system does not include?

- a) Representation scheme used b) Training scenario
c) Type of feedback ~~d) Good data structures~~

19. Different learning methods does not include?

- a) Memorization ~~b) Analogy~~ c) Deduction d) Introduction

20. In language understanding, the levels of knowledge that does not include?

- a) Phonological b) Syntactic ~~c) Empirical~~ d) Logical

21. A model of language consists of the categories which does not include?

- a) Language units b) Role structure of units ~~c) System constraints~~ d) Structural units

22. Among the following which is not a horn clause?

- a) p ~~b) $\neg p \vee q$~~ c) $p \rightarrow q$ d) $p \rightarrow \neg q$

23. Type of matrix decomposition model is _____

- A. predictive model ~~B. descriptive model~~ C. logical model D. None

24. PCA is _____

- ~~A. backward feature selection~~ B. forward feature selection.
C. feature extraction D. None of these

25. Supervised learning and unsupervised clustering both require which is correct according to the statement.

- ~~A. input attribute~~ B. hidden attribute C. output attribute D. categorical attribute

26. Following are the types of supervised learning _____

- A. Regression B. classification C. subgroup discovery ~~D. All of above~~

27. A feature F1 can take certain value: A, B, C, D, E, & F and represents grade of students from a college. Here feature type is _____

- ~~A. Ordinal~~ B. nominal C. categorical D. Boolean

28. Following is powerful distance metrics used by Geometric model _____

- A. Manhattan distance B. Euclidean distance ~~C. All of above~~ D. None of above

29. The output of training process in machine learning is _____

- A. Machine learning algorithm. ~~B. Machine learning model~~ C. Null D. accuracy

30. Which of the following is a good test dataset characteristic?

- A. is representative of the dataset as a whole
- B. large enough to yield meaningful results
- C. All of above
- D. None of above

31. Which of the following techniques would perform better for reducing dimensions of a data set?

- A. removing columns which have high variance in data
- B. removing columns which have too many missing value
- C. removing columns with dissimilar data trends
- D. None of the above

32. You are given reviews of few Netflix series marked as positive, negative and neutral. Classifying reviews of a new Netflix series is an example of _____

- A. unsupervised learning
- B. supervised learning
- C. semi supervised learning
- D. reinforcement learning

33. Like the probabilistic view, the _____ view allows us to associate a probability of membership with each classification

- A. Deductive
- B. exemplar
- C. classical
- D. inductive

34. Database query is used to uncover this type of knowledge.

- A. Hidden
- B. shallow
- C. Deep
- D. multidimensional

35. Data used to build a data mining model.

- A. Training data
- B. hidden data
- C. test data
- D. validation data

36. If machine learning model output doesn't involves target variable then that model is called as _____

- A. predictive model
- B. descriptive model
- C. reinforcement learning
- D. all of the above

37. In the example of predicting number of babies based on stork's population, Number of babies is _____

- A. feature
- B. observation
- C. outcome
- D. attribute

38. Following are the descriptive models _____

- A. Classification
- B. clustering
- C. association rule
- D. Both 1 and 2

39. What does dimensionality reduction reduce?

- A. Collinearity
- B. stochastic
- C. entropy
- D. performance

40. Which of the following is the best machine learning method?

- A. Accuracy B. scalable C. fast D. All of above

41. In multiclass classification number of classes must be _____

- A. Equals to two B. less than two C. greater than two D. None

42. Which of the following can only be used when training data are linearly separable?

- A. linear logistic regression B. linear hard-margin svm
C. linear soft margin svm D. parzen windows

43. Impact of high variance on the training set?

- A. underfitting B. overfitting C. both underfitting & overfitting D. depends upon the dataset

44. The effectiveness of an SVM depends upon _____

- A. kernel parameters B. selection of kernel C. soft margin parameter D. All of the above

45. Feature can be used as a _____

- A. predictor B. binary split C. All of above D. None of above

46. Which of the following evaluation metrics can not be applied in case of logistic regression output to compare with target?

- A. Accuracy B. auc-roc C. logloss D. mean-squared-error

47. A measurable property or parameter of the data-set is _____

- A. training data B. test data C. feature D. validation data

48. Support Vector Machine is _____

- A. geometric model B. probabilistic model C. logical model D. none

49. Imagine a Newly-Born starts to learn walking. It will try to find a suitable policy to learn walking after repeated falling and getting up. Specify what type of machine learning is best suited?

- A. Regression B. means algorithm C. reinforcement learning D. None

50. Different learning methods does not include?

- A. Deduction B. memorization C. analogy D. Introduction

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU-577102.
DEPARTMENT OF COPMUTER SCIENCE & ENGINEERING

Add-On Course on "Deep Learning :AI"

OVER ALL Add-On Course PARTICIPANTS FEEDBACK

Sl.No	DESCRIPTION	EXCELLENT	GOOD	POOR
1	How would you rate the presenter's knowledge on the concept?	✓		
2	How would you rate the concepts and Information provided by the Presenter?	✓		
3	What was your overall impression of the session?			✓
4	Remarks	Got some Knowledge after attending the session.		

MAAS
Signature of the Participants

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU

Department of Computer Science & Engineering

Summary Report

The course "Deep Learning:AI" was conducted at CS&E Dept from 18/06/2018 to 02/07/2018.

The main objective of this course is to make students comfortable with tools and techniques required in handling large amounts of datasets. They will also uncover various deep learning methods in NLP, Neural Networks etc. Several libraries and datasets publicly available will be used to illustrate the application of these algorithms. This will help students in developing skills required to gain experience of doing independent research and study.

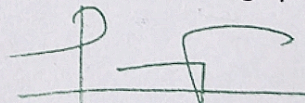
Course Outcomes

Students are able to

- Understand the informed and uninformed problem types and apply search strategies to solve them.
- Apply difficult real life problems in a state space representation so as to solve them using AI techniques like searching and game playing.
- Design and evaluate intelligent expert models for perception and prediction from intelligent environment.
- Formulate valid solutions for problems involving uncertain inputs or outcomes by using decision making techniques.
- Demonstrate and enrich knowledge to select and apply AI tools to synthesize information and develop models within constraints of application area.
- Examine the issues involved in knowledge bases, reasoning systems and planning



Instructor's Signature



HOD's Signature .

Professor and H.O.D.
Department of Computer Science and Engineering
Adichunchanagiri Institute of Technology
CHIKMAGALUR - 577102

Advance In Machine Learning

VIII "A" SECTION

SL.NO	USN	NAME
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Advance in Andriod Application Development

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Date: 07 / 03 / 2020

To,
The Head of Department,
Computer Science & Engineering,
AIT, Chikmagalur

Sub: Feedback on the Add-On course we conducted for the students of CS&E

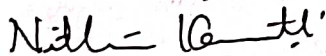
Respected Madam,

With reference to the above subject, we are happy to have conducted the add-on course in the Department of Computer Science & Engineering on Advances in Android Application Development and Machine Learning.

First thing I have to say, the commitment of the students towards the add-on course was wonderful, that too in their vacation period. We could clearly see the urge in the students to learn new technologies and practical applications of those technologies. This helped us to conduct the course in a proactive manner. The attendance of the students throughout the course was overwhelming which showed their unconditional interest in the proceedings. It was a nice experience for us too, we always feel it interesting to communicate with the students with an urge to learn.

I would like to thank you ma'am on behalf of Capulus Technologies for the opportunity and support provided to us during the course. I would also like to thank the co-ordinators of the course Dr.Taranath N.L, Associate Professor, CS&E and Mr. Darshan L.M, Assistant Professor, CS&E for their support. We hope the add-on course was useful for the students and has achieved its intended outcome.

Yours' Faithfully



(Nithin Kamath)

Executive Director

Capulus Technologies Private Limited

About Capulus Technologies

Capulus Technologies is a Private Limited Software Firm helping companies, industries, institutions and government manage complexities in their operations by providing them smart technology solutions. Since founding, Capulus Technologies has always believed in the highest level of integrity, "client first" in providing reliable and highly effective services. Our practical knowledge and rich experiences allow us to provide comprehensive I.T services to our clients spread across various sectors starting from small businesses to various Government departments. Capulus Technologies Private Limited is the company which developed the official app of Karnataka State Police which has been implemented state-wide across Karnataka.

The Company has wide experience in developing software applications according to the needs of the clients. The team has good domain expertise and have provided software solutions for various Government Departments as well as Private Companies. The company is recognized by Central Government under StartUp India initiative and has received a Certificate of Recognition.

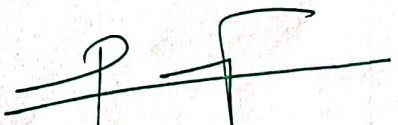
Toppers in Add - On Course Test

Advances in Android Application Development:

Sl.No	Name	USN	MARKS OBTAINED
1	Niswarth V Shetty	4AI16CS053	22

Advances in machine Learning:

Sl.No	Name	USN	MARKS OBTAINED
1	Karthik N L	4AI16CS031	21


Signature of the HOD
Professor and H.O.D.
Department of Computer Science and Eng
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Advance In Machine Learning

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28	4AI17CS408	SHREELAKSHMI M	

1. In Machine Learning if 'Answers' and 'Data' are given as input, what will we get as output?
 - a. Bugs
 - b. Machine Learning
 - c. Rules
 - d. Answers
2. What is the process in which we instruct a computer what the data represents (i.e. data is for walking, data is for running etc.,)
 - a. Categorizing the Data
 - b. Labelling the Data
 - c. Programming the Data
 - d. Learning the Data
3. What is a Dense in keras?
 - a. A single neuron
 - b. A layer of connected neurons
 - c. A layer of disconnected neurons
 - d. Mass over Volume
4. What does a Loss function do?
 - a. Figures out if you win or lose
 - b. Generates a guess
 - c. Decides to stop training a neural network
 - d. Measures how good the current guess is
5. What does the optimizer do?
 - a. Figures out how to efficiently compile your code
 - b. Measures how good the current guess is
 - c. Generates a new and improved guess
 - d. Decides to stop training a neural network
6. What is Convergence?
 - a. The unknown word in the ML class
 - b. The process of getting very close to the correct answer
 - c. A dramatic increase in loss
 - d. A programming API for AI
7. What does model.fit do?
 - a. It makes a model fit available memory
 - b. It trains the neural network to fit one set of values to another
 - c. It determines if your activity is good for your body
 - d. It optimizes an existing model
8. What do the Fashion MNIST Images look like?
 - a. 100x100 Color
 - b. 28x28 3d
 - c. 28x28 Color
 - d. 28x28 Greyscale
9. Why are there 10 output neurons while using MNIST data set?
 - a. Purely arbitrary
 - b. There are 10 different labels
 - c. To make it classify 10x faster
 - d. To make it train 10x faster

10. What does Relu do?

- a. For a value x , it returns $1/x$
- b. It only returns x if x is less than zero
- c. It only returns x if x is greater than zero
- d. It returns the negative of x

11. Why do you split data into training and test sets?

- a. To test a network with previously unseen data
- b. To train a network with previously unseen data
- c. To make training quicker
- d. To make testing quicker

12. What method gets called when an epoch finish?

- a. `on_epoch_finished()`
- b. `on_epoch_end()`
- c. `On_training_complete()`
- d. `on_end()`

13. What parameter do you set in your fit-function to use callbacks?

- a. `callback=[]`
- b. `oncallback=[]`
- c. `callbacks=[]`
- d. `oncallbacks=[]`

14. What is a Convolution?

- a. A technique to make images smaller
- b. A technique to filter out unwanted images
- c. A technique to isolate features in images
- d. A technique to make images bigger

15. What is a Pooling?

- a. A technique to make images sharper
- b. A technique to isolate features in images
- c. A technique to reduce the information in an image while maintaining features
- d. A technique to combine picture

16. After max pooling a 26×26 image with a 2×2 filter, how big will the output be?

- a. 28×28
- b. 26×26
- c. 56×56
- d. 13×13

17. Using Image Generator, how do you label images?

- a. It's based on the file name
- b. It's based on the directory the image is contained in
- c. You have to manually do it
- d. TensorFlow figures it out from the contents

18. What method on the Image Generator is used to normalize the image?

- a. `normalize_image=`
- b. `normalize=`
- c. `Rescale_image=`
- d. `rescale=`

19. When we specify the `input_shape` to be $(300, 300, 3)$, what does that mean?

- a. There will be 300 images, each size 300, loaded in batches of 3
- b. Every Image will be 300×300 pixels, and there should be 3 Convolutional Layers
- c. Every Image will be 300×300 pixels, with 3 bytes to define color
- d. There will be 300 horses and 300 humans, loaded in batches of 3

20. If your training data is close to 1.000 accuracy, but your validation data isn't, what's the risk here?

- a. You're overfitting on your training data
- b. You're underfitting on your validation data
- c. No risk, that's a great result
- d. You're overfitting on your validation data

21. What does `flow_from_directory` give you on the ImageGenerator?

- a. The ability to easily load images for training
- b. The ability to pick the size of training images
- c. The ability to automatically label images based on their directory name
- d. All of the above

22. Why is the validation accuracy a better indicator of model performance than training accuracy?

- a. It isn't, they're equally valuable
- b. There's no relationship between them
- c. The validation accuracy is based on images that the model hasn't been trained with, and thus a better indicator of how the model will perform with new images.
- d. The validation dataset is smaller, and thus less accurate at measuring accuracy, so its performance isn't as important

23. If my training data only has people facing left, but I want to classify people facing right, how would I avoid overfitting?

- a. Use the 'flip_vertical' parameter around the Y axis
- b. Use the 'flip' parameter
- c. Use the 'horizontal_flip' parameter
- d. Use the 'flip' parameter and set 'horizontal'

24. When training with augmentation, you noticed that the training is little slower. Why?

- a. Because the image processing takes cycles
- b. Because the augmented data is bigger
- c. Because there is more data to train on
- d. Because the training is making more mistake

25. When using Image Augmentation with the ImageDataGenerator, what happens to your raw image data on-disk.?

- a. It gets overwritten, so be sure to make a backup
- b. A copy is made and the augmentation is done on the copy
- c. Nothing, all augmentation is done in-memory
- d. It gets deleted

Name of the Student : VARUN.A.S

USN : 4A116CS117

Marks Awarded :



||Jai Sri Gurudev||

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DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
CERTIFICATE OF APPRECIATION



This is to certify that Mr./Ms. _____

of 8th Semester has participated and qualified in the add-on Course on "Advances in Machine Learning"
organized by Department of Computer Science & Engineering, AIT, Chikkamagaluru during 27th
January to 8th February 2020 in association with Capulus Technologies Private Limited,
Chikkamagaluru.

M. S. K. S.

Executive Director
Capulus Technologies,
Chikkamagaluru

HOD, Dept. of CS&E

AIT, Chikkamagaluru

Principal

AIT, Chikkamagaluru

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||Jai Sri Gurudev||

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Nithya

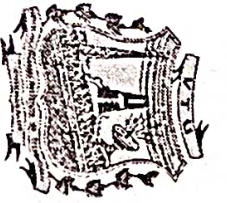
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Capulus Technologies,
Chikkamagaluru

HOD, Dept. of CS&E
AIT, Chikkamagaluru

Principal
AIT, Chikkamagaluru



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|| Jai Sri Gurudev ||
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ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Internship Practice on "Machine Learning and its Applications"



FEEDBACK FORM

Particulars

1. How was the overall organization of the Internship?
2. How were the Resource Persons?
3. Was the content of Presentation relevant and current?
4. How were the Different sessions?
5. Generally, how was the whole experience at the meeting.
6. Comments and Suggestions:

	A	B	C	D
1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sadvi M.B.
Signature

Note: A: Excellent B: Very Good C: Good D: Satisfactory

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Date: 07 / 03 / 2020

To,
The Head of Department,
Computer Science & Engineering,
AIT, Chikmagalur

Sub: Feedback on the Add-On course we conducted for the students of CS&E

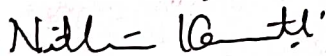
Respected Madam,

With reference to the above subject, we are happy to have conducted the add-on course in the Department of Computer Science & Engineering on Advances in Android Application Development and Machine Learning.

First thing I have to say, the commitment of the students towards the add-on course was wonderful, that too in their vacation period. We could clearly see the urge in the students to learn new technologies and practical applications of those technologies. This helped us to conduct the course in a proactive manner. The attendance of the students throughout the course was overwhelming which showed their unconditional interest in the proceedings. It was a nice experience for us too, we always feel it interesting to communicate with the students with an urge to learn.

I would like to thank you ma'am on behalf of Capulus Technologies for the opportunity and support provided to us during the course. I would also like to thank the co-ordinators of the course Dr.Taranath N.L, Associate Professor, CS&E and Mr. Darshan L.M, Assistant Professor, CS&E for their support. We hope the add-on course was useful for the students and has achieved its intended outcome.

Yours' Faithfully



(Nithin Kamath)

Executive Director

Capulus Technologies Private Limited

About Capulus Technologies

Capulus Technologies is a Private Limited Software Firm helping companies, industries, institutions and government manage complexities in their operations by providing them smart technology solutions. Since founding, Capulus Technologies has always believed in the highest level of integrity, "client first" in providing reliable and highly effective services. Our practical knowledge and rich experiences allow us to provide comprehensive I.T services to our clients spread across various sectors starting from small businesses to various Government departments. Capulus Technologies Private Limited is the company which developed the official app of Karnataka State Police which has been implemented state-wide across Karnataka.

The Company has wide experience in developing software applications according to the needs of the clients. The team has good domain expertise and have provided software solutions for various Government Departments as well as Private Companies. The company is recognized by Central Government under StartUp India initiative and has received a Certificate of Recognition.

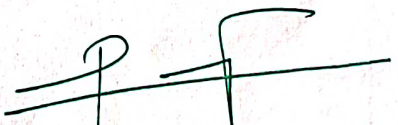
Toppers in Add - On Course Test

Advances in Android Application Development:

Sl.No	Name	USN	MARKS OBTAINED
1	Niswarth V Shetty	4AI16CS053	22

Advances in machine Learning:

Sl.No	Name	USN	MARKS OBTAINED
1	Karthik N L	4AI16CS031	21


Signature of the HOD
Professor and H.O.D.
Department of Computer Science and Eng
Adichunchanagiri Institute of Technolog
CHIKMAGALLUR - 577 102

Advance In Machine Learning

VIII "A" SECTION

SL.NO	USN	NAME	Signature
1	4AI15CS051	KOUSHIK S D	
2	4AI15CS103	SIDDANTH B K	<i>[Signature]</i>
3	4AI16CS008	ANUVIKA A S	Balitha B
4	4AI16CS011	BABITHA B	<i>[Signature]</i>
5	4AI16CS012	BHAGYASHREE H D	Chintan M.C
6	4AI16CS021	CHINTHANA M C	Veejath
7	4AI16CS023	DEEPAK N R	chetan.G
8	4AI16CS025	GADDI CHETAN	<i>[Signature]</i>
9	4AI16CS027	HARSHA H K	Jayashree
10	4AI16CS028	JAYASHREE H M	<i>[Signature]</i>
11	4AI16CS030	KALPASHREE Y	Karthi
12	4AI16CS031	KARTHIK N L	Koushik.V
13	4AI16CS036	KOWSHIK V	Kavya
14	4AI16CS037	KRUTHIKA G NAYAK	Ravish
15	4AI16CS040	MANISHA P BEERIAIAH	Meghana.B.G
16	4AI16CS042	MEGHANA D Y	
17	4AI16CS047	NAVEEN P PARVATHANENI	Nayana
18	4AI16CS048	NAYANA K S	Nischitha U.S.
19	4AI16CS051	NISCHITHA K S	P. Pradeep Kumar
20	4AI16CS054	P PRADEEP KUMAR	Pooja
21	4AI16CS056	POOJA B S	

Advance In Machine Learning

VIII "B" SECTION

SL.NO	USN	NAME	Signature
1	4AI16CS039	MADHUMITHA K M	Madhumitha
2	4AI16CS070	ROJA K S	Roja
3	4AI16CS072	SADVI N B	Sadvi N-B
4	4AI16CS073	SAHANA DESAI	Sahana Desai
5	4AI16CS074	SAMRUDDHI D K	Sarudhi
6	4AI16CS075	SAMRUDH PATEL D M	
7	4AI16CS076	SAMRUDHI H R	
8	4AI16CS077	SANDESH S	
9	4AI16CS080	SANJANA R G	
10	4AI16CS081	SAVEENA M M	Saveena M.M
11	4AI16CS085	SHREYA B R	
12	4AI16CS089	SINCHANA S B	
13	4AI16CS090	SINCHANA S GOWDA	
14	4AI16CS091	SNEHA K	
15	4AI16CS092	SOUMYA H	
16	4AI16CS094	SOURAB SAKLECHA	
17	4AI16CS096	SPANDANA H P	
18	4AI16CS097	SPANDANA S	
19	4AI16CS098	SPARSHA B R	Parsha B.R.
20	4AI16CS100	SRISTI BAGAMANE	
21	4AI16CS108	SWATHI B S	
22	4AI16CS113	VAISHNAVI A R	
23	4AI16CS114	VAISHNAVI C O	
24	4AI16CS117	VARUN A S	Varun
25	4AI16CS118	VATSALYA H V	
26	4AI16CS125	YASHASWINI C	
27	4AI17CS402	DEEPA J M	Deepa J.M.
28	4AI17CS408	SHREELAKSHMI M	

1. In Machine Learning if 'Answers' and 'Data' are given as input, what will we get as output?
 - a. Bugs
 - b. Machine Learning
 - c. Rules
 - d. Answers
2. What is the process in which we instruct a computer what the data represents (i.e. data is for walking, data is for running etc.,)
 - a. Categorizing the Data
 - b. Labelling the Data
 - c. Programming the Data
 - d. Learning the Data
3. What is a Dense in keras?
 - a. A single neuron
 - b. A layer of connected neurons
 - c. A layer of disconnected neurons
 - d. Mass over Volume
4. What does a Loss function do?
 - a. Figures out if you win or lose
 - b. Generates a guess
 - c. Decides to stop training a neural network
 - d. Measures how good the current guess is
5. What does the optimizer do?
 - a. Figures out how to efficiently compile your code
 - b. Measures how good the current guess is
 - c. Generates a new and improved guess
 - d. Decides to stop training a neural network
6. What is Convergence?
 - a. The unknown word in the ML class
 - b. The process of getting very close to the correct answer
 - c. A dramatic increase in loss
 - d. A programming API for AI
7. What does model.fit do?
 - a. It makes a model fit available memory
 - b. It trains the neural network to fit one set of values to another
 - c. It determines if your activity is good for your body
 - d. It optimizes an existing model
8. What do the Fashion MNIST Images look like?
 - a. 100x100 Color
 - b. 28x28 3d
 - c. 28x28 Color
 - d. 28x28 Greyscale
9. Why are there 10 output neurons while using MNIST data set?
 - a. Purely arbitrary
 - b. There are 10 different labels
 - c. To make it classify 10x faster
 - d. To make it train 10x faster

10. What does Relu do?

- a. For a value x , it returns $1/x$
- b. It only returns x if x is less than zero
- c. It only returns x if x is greater than zero
- d. It returns the negative of x

11. Why do you split data into training and test sets?

- a. To test a network with previously unseen data
- b. To train a network with previously unseen data
- c. To make training quicker
- d. To make testing quicker

12. What method gets called when an epoch finish?

- a. `on_epoch_finished()`
- b. `on_epoch_end()`
- c. `On_training_complete()`
- d. `on_end()`

13. What parameter do you set in your fit-function to use callbacks?

- a. `callback=[]`
- b. `oncallback=[]`
- c. `callbacks=[]`
- d. `oncallbacks=[]`

14. What is a Convolution?

- a. A technique to make images smaller
- b. A technique to filter out unwanted images
- c. A technique to isolate features in images
- d. A technique to make images bigger

15. What is a Pooling?

- a. A technique to make images sharper
- b. A technique to isolate features in images
- c. A technique to reduce the information in an image while maintaining features
- d. A technique to combine picture

16. After max pooling a 26×26 image with a 2×2 filter, how big will the output be?

- a. 28×28
- b. 26×26
- c. 56×56
- d. 13×13

17. Using Image Generator, how do you label images?

- a. It's based on the file name
- b. It's based on the directory the image is contained in
- c. You have to manually do it
- d. TensorFlow figures it out from the contents

18. What method on the Image Generator is used to normalize the image?

- a. `normalize_image=`
- b. `normalize=`
- c. `Rescale_image=`
- d. `rescale=`

19. When we specify the `input_shape` to be $(300, 300, 3)$, what does that mean?

- a. There will be 300 images, each size 300, loaded in batches of 3
- b. Every Image will be 300×300 pixels, and there should be 3 Convolutional Layers
- c. Every Image will be 300×300 pixels, with 3 bytes to define color
- d. There will be 300 horses and 300 humans, loaded in batches of 3

20. If your training data is close to 1.000 accuracy, but your validation data isn't, what's the risk here?

- a. You're overfitting on your training data
- b. You're underfitting on your validation data
- c. No risk, that's a great result
- d. You're overfitting on your validation data

21. What does `flow_from_directory` give you on the ImageGenerator?

- a. The ability to easily load images for training
- b. The ability to pick the size of training images
- c. The ability to automatically label images based on their directory name
- d. All of the above

22. Why is the validation accuracy a better indicator of model performance than training accuracy?

- a. It isn't, they're equally valuable
- b. There's no relationship between them
- c. The validation accuracy is based on images that the model hasn't been trained with, and thus a better indicator of how the model will perform with new images.
- d. The validation dataset is smaller, and thus less accurate at measuring accuracy, so its performance isn't as important

23. If my training data only has people facing left, but I want to classify people facing right, how would I avoid overfitting?

- a. Use the 'flip_vertical' parameter around the Y axis
- b. Use the 'flip' parameter
- c. Use the 'horizontal_flip' parameter
- d. Use the 'flip' parameter and set 'horizontal'

24. When training with augmentation, you noticed that the training is little slower. Why?

- a. Because the image processing takes cycles
- b. Because the augmented data is bigger
- c. Because there is more data to train on
- d. Because the training is making more mistake

25. When using Image Augmentation with the ImageDataGenerator, what happens to your raw image data on-disk.?

- a. It gets overwritten, so be sure to make a backup
- b. A copy is made and the augmentation is done on the copy
- c. Nothing, all augmentation is done in-memory
- d. It gets deleted

Name of the Student : VARUN.A.S

USN : 4AI16CS117

Marks Awarded :



||Jai Sri Gurudev||

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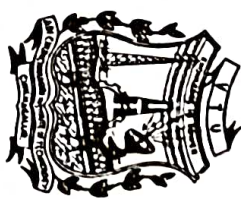


ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

CHIKKAMAGALURU-577102



DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING
CERTIFICATE OF APPRECIATION



This is to certify that Mr./Ms. _____

of 8th Semester has participated and qualified in the add-on Course on "Advances in Machine Learning" organized by Department of Computer Science & Engineering, AIT, Chikkamagaluru during 27th January to 8th February 2020 in association with Capulus Technologies Private Limited, Chikkamagaluru.

M. S. K. S.

Executive Director
Capulus Technologies,
Chikkamagaluru

HOD, Dept. of CS&E

AIT, Chikkamagaluru

Principal

AIT, Chikkamagaluru

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ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY

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Nithya

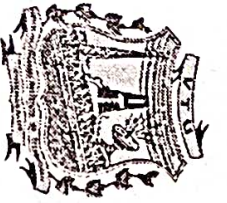
Executive Director
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AIT, Chikkamagaluru

Principal
AIT, Chikkamagaluru



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|| Jai Sri Gurudev ||
Sri Adichunchanagiri Shikshana Trust (R)

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Internship Practice on "Machine Learning and its Applications"



FEEDBACK FORM

Particulars

1. How was the overall organization of the Internship?
2. How were the Resource Persons?
3. Was the content of Presentation relevant and current?
4. How were the Different sessions?
5. Generally, how was the whole experience at the meeting.
6. Comments and Suggestions:

	A	B	C	D
1.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sadvi M.B.
Signature

Note: A: Excellent B: Very Good C: Good D: Satisfactory

ADD-ON Program

2021-22