ADD-ON Program 2021-22

ADD on Program On "LaTeX Editing Tool"

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|| 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/ /2021-22

Date:31/05/2022

Circular

Department of Computer Science & Engineering is conducting a Certificate Program (Add-on Program) on "LaTeX Editing Tool [21CS-SLET_01]" from 21-06-2022 to 09-07-2022. 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. Dr. Sunitha M R

Professor

Dept. of CS&E

AIT Chikmagalur

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

Professor and H.O.D. DepartmHOD's Signature ience and Engg Adichunchanagiri Institute of Technology CHIKMAGALUR - 577102

aga Principal Signature

ibyn B.E., M.Tech., Ph.D. Adichunchanagiri Institute of Technology CHIKKAMAGALURU-577102



ADD-ON Course On "LaTeX Editing Tool"





Organized by,

Department of Computer Science and Enginering. 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 Adhichunchanagiri 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 affiliated to is Visvesvarava 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:

LaTeX, a document preparation system, is widely used for publishing in many scientific fields like mathematics, statistics, computer engineering, chemistry, science, physics, economics, linguistics, etc., It is a powerful and open-source system that provides numerous facilities for typesetting of the automating document: i.e. structuring page layout, listing and auto-numbering of sections, tables, figures, generating a table of contents, managing crossreferencing, citing, and indexing.

Unlike other WYSIWYG editors, the content is written in plain text along with appropriate commands, thus, allowing the user to concentrate on the content rather than the aesthetics (the way it looks). The TeX typesetting program which LaTeX uses, was designed such that anyone can create good quality material with less efforts.

This course introduces the basic concepts of LaTeX. Participants taking this course will be able to create and design documents in LaTeX and presentations in Beamer with confidence.

Resource Person:

Dr. Sunitha M R

Professor

Dept of CS&E, AIT, Chikkamagaluru

Convenor:

Dr Pushpa Ravi Kumar,

Professor and Head,

Dept. of CS&E. AIT, Chikkamagaluru

Coordinator:

Mr. S J Prashantha

Asst Professor,

Dept. of CS&E, AIT, Chikkamagaluru

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-577102

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD-ON Course - LaTeX Editing Tool

Student Enrollment List

SI NO	NAME	USN	Signature
1	AAISHA SUHA	4A120CS001	1 m
2	ABHIJNA C D	Contraction of the second s	Carriana
3	AISHWARYA A S	4A120CS003	Abhijba
4	AISIRI H T	4AI20CS005	Austrasatio
5	AMITH SHETTY A R	4AI20CS006	distric
6	AMULYAJ	4AI20CS007	smith Whithy
7	ANANYA C M	4AI20CS008	America.T
8	ANIL KUMAR R PATIL	4AI20CS009	Anampa C-N
9	ANJANI S SINGH	4AI20CS010	Aug Kuma)
10	ANVIKA B N	4AI20CS011	Aviguisiugho
11	ARUN BELAVADI	4AI20CS012	Akurt
12	ARVAKS	4AI20CS013	Armo
12		4AI20CS014	figg
13	BHAGYA Y	4AI20CS015	Chap ya
15	BHAKTHI SAMPADA J S	4AI20CS016	BLACKS
	BHOOMIKA C V	4AI20CS017	Shoomla. C.V
16	BHOOMIKA G V	4AI20CS018	Bheanita G.V.
17 18	BHOOMIKA M	4AI20CS019	Bhoometra Mig
18	BHOOMIKA P.H	4A120CS020	KROminik
	BHUMIKAL	4AI20CS021	Athorn
20 21	CHANDRASHEKHARA M	4AI20CS022	alandration
Contraction of the local division of the loc	CHETHAN K S	4AI20CS023	13
22 23	CHINTHAN H K	4A120CS024	chimban
23	CHIRANTH K G	4AI20CS025	Chiratteto K. Br
25	DAIVIK M D	4A120CS026	Dairah MD
26	DEEKSHA C T DEEKSHITH K	4A120CS027	Deexsha
20	DHANYA H M	4AI20CS028	- allowshare
28	DIVYA SHREE M N	4A120CS029	Chung.
29	ESHANYA C Y	4AI20CS030	Divyo
30	FARDEEN KHAN	4AI20CS031	Ellos .
31	RAKESH G	4AI20CS032	fondeen khan.
32	GAGANA K R	4A120CS033	Pakest G
33	HARSHITH M O	4AI20CS034	Gagana E.R.
34	HARSHITH M PATEL	4AI20CS035	Rankaith MO
35	PRANCHANA H.S	4AI20CS036	Harshith M Pati
36	PRATHEEK ILN	4AI20CS068 4AI20CS069	Inanchanal.
37	PREETHAM GOWDA C.B	4AI20CS069 4AI20CS070	Prad P
38	RAKSHITA	4AI20CS070 4AI20CS073	Toelhalipuda
39	RANJAN GOWDA T N	4AI20CS073	Rakshills
40	RATAN AKKI	4AI20CS078	- Mann you
41	RENUKA N	4A120CS079	2 th
42	ROOPESH B Y	4AI20CS080	Rental
43	SANATH D U	4A120CS087	Roopesh

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44	SANATH R	4A120CS088	Sarath R.
45	SANJANA S	4AI20CS089	Sanjana.S.
46	SANVIHR	4AI20CS090	Sanvi FIR)
47	SUHAS Y C	4AI20CS108	SULOS
48	SUJAY G	4AI20CS109	alus
49	SUJITH D	4AI20CS110	Ruit
50	SUMEDH M ANVEKAR	4AI20CS111	Sarath
51	SWATHI K M	4A120CS112	Smathe
52	SYED AMAN	4AI20CS113	Ent
53	TANUSHREE D	4AI20CS114	Tamelyee
54	UDAY RAO C G	4AI20CS115	Halan
55	VAMSHIKA M J	4AI20CS116	Samok
56	VARSHA B C	4AI20CS117	Yeston
57	VARSHA V	4A120CS118	Varil
58	VARSHINI G	4AI20CS119	Voustin
59	VIDYA N G	4AI20CS120	Vielatca
60	VIJAYALAKSHMI G S	4A120CS121	figarlatshe
61	VINAY KUMAR B S	4AI20CS122	Manas

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Course Instructor Signature

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Professor and H.O.D. Department of Companyature ince and En-Adichunchanagiri Institute of Techr CHIKMAGALUR - 577102

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

Add on course for 4th sem BE, CSE – 30 Hours ADD on Course Name: LaTeX Editing Tool

Course Code: 21CS-SLET_01

Module 1: Overleaf guides

Creating a document in Overleaf, Uploading a project, Copying a project, Creating a project from a template Using the Overleaf project menu, Including images in Overleaf, Exporting your work from Overleaf, Working offline in Overleaf, Debugging Compilation timeout errors.

Module 2: LaTeX Basics

Creating your first LaTeX document, Choosing a LaTeX Compiler, Paragraphs and new lines, Bold, italics and underlining, Lists, Errors, Figures and tables: Inserting Images, Tables, Positioning Images and Tables, Lists of Tables and Figures.

Module 3: Mathematics

Mathematical expressions, Subscripts and superscripts, Brackets and Parentheses, Matrices, Fractions and Binomials, Aligning equations, Operators, Spacing in math mode, limits, Display, List of Greek letters and math symbols, Mathematical fonts, Using the Symbol Palette in Overleaf.

Text Books: 1. Guide to LATEX - UC Davis Mathematics, by H Kopka · 2004

References:

1. LATEX in 24 Hours, a practical guide for scientific writing by Dilip Datta

10 Hours

10 Hours

10 Hours



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

ADD on Course Name	: LaTeX Editing Tool
Course Code	: 21CS-SLET_01
Semester	: 4 th
Branch	: CSE

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Students are identified for ADD on Course Classes based on their enrolment. ADD on Course classes will be held during 21-06-2022 to 09-07-2022 at CS&E dept from 4 PM -6 PM

Attendance	Report

SI NO	NAME	USN					Dı	iring	; 21-	06-2	022	to 0	9-07-2	2022				Signature
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1	AAISHA SUHA	4AI20CS001	P	P	P	P	1	P	P	P	P	P	A	P	P	P	P	Ailho
2	ABHUNA C D	4AI20CS003	P	P	P	P	0	P	P	P	P	P	P	P	0	P	A	
3	AISHWARYA A S	4A120CS005	P	P	8	P	P	P	P	P	P	P	p	0	P	P	P	Richwarz
4	AISIRI H T	4A120CS006	P	P	P	P	P	0	P	p	P	P	D	P	P	P	P	Atitic
5	AMITH SHETTY A R	4A120CS007	P	P	D	P	P	P	P	p	P	P	8	8	D	D	P	andito
6	AMULYAJ	4AI20CS008	P	P	P	P	P	P	P	P	P	P	P	8	D	D	P	Rulya I
7	ANANYACM	4A120CS009	D	Þ	P	A	P	P	Þ	P	D	P	P	2	P	P	0	Ananyaci
8	ANIL KUMAR R PATIL	4AI20CS010	P	P	P	p	8	A	p	P	P	P	0	0	P	P	P	Auglikum
9	ANJANI S SINGH	4AI20CS011	A	A	P	D	P	8	P	P	P	P	P	D	P	P	P	AUCIU
10	ANVIKA B N	4AI20CS012	P	D	P	P	P	p	8	P	Ð	P	P	p	P	p	P	Anna
11	ARUN BELAVADI	4A120CS013	P	P	A	n	P	D	p	P	P	P	P	P	P	P	8	(Sund
12	ARYA K S	4A120CS014	P	0	P	P	P	D	P	P	P	P	8	D	P	D	P	Arys
13	BHAGYA Y	4A120CS015	P	D	P	P	P	P	P	P	P	P	P	P	D	P	P	200040
14	BHAKTHI SAMPADA J S	4A120CS016		P	P	P	8	D	P	P	P	P	P	D	P	P	D	BALLE
15	BHOOMIKA C V	4AI20CS017	D	D	0	₽	0	P	A	8	P	P	P	P	r	P	Þ	Blueniter
16	BHOOMIKA G V	4A120CS018	D	P	P	P	p	0	P	P	P	P	P	P	b	p	D	Bhronks
17	BHOOMIKA M	4AI20CS019	D	P	P	1	p	P	D	P	p	p	A	P	P		D	
18	BHOOMIKA P.H	4A120CS020	P	P	p	P	P	D	8	P	0	P	P	P	D	P	P	Bhoomit
9	BHUMIKAL	4A120CS021	P	D	p	D	P	D	P	P	P	D	D	P	P	P	D	Toround
0	CHANDRASHEKHARA M	4A120CS022	P	P	P	P	þ	P	P	7	D	\$	1	2	Þ	P	P	Bhac
1	CHETHAN K S	4AI20CS023	P	D	D	P	D	D	P	P	5	P	P	P	10	2	0	CHIONE
2	CHINTHAN H K	4A120CS024	D	D	P	D	P	8	7	P	8	0	P	P	P	P	P	EF?
3	CHIRANTH K G	4AI20CS025	P	Þ	P	P	p	p	7	P	P	P	0	P	D	2	P	chintan
4	DAIVIK M D	4A120CS026	D	D	p	D	P	P	D	8	b	P	0	P	P	P	0	chirardh)
5	DEEKSHA C T	4AI20CS027	D	Þ	P	P	P	P	P	8	P	5	P	P	P	P	P	Davakin
6	DEEKSHITH K	4AI20CS028	Ð	P	P	P	p	P	2	P	D	P	A	Þ	D	P	P	Derkal
7	DHANYAHM	4A120CS029	P.	D	P	5	P	0	T K	D	8	D	8	P	b	p	P	266637
8	DIVYA SHREE M N	4AI20CS030	P	P	p	p	p	P	2	D	P	P	1	D	15	P	1	grange
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)	FARDEEN KHAN	4AI20CS032		P.	pt	A	0	D	P	D	0	A	1p	p	P	P	ITC	Like?

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32	GAGANA K R	4AI20CS034		P.	P	H.	1K	P	P	P	P	P	P	P	P	P	A	Rakes
33	HARSHITH M O	4AI20CS034	P	1	P	ſ	P	P	P	P	P	P	A	P	P	P	P	Gagana
34	HARSHITH M PATEL	4AI20CS035	P	P	P	A	P	8	P	P	P	P	P	P	P	P	P	hallh
35	PRANCHANA H S	4A120CS036	P	P	P	P	P	9	P	P	P	P	A	P	P	P	P	Harchitt
36	PRATHEEK H.N	4AI20CS068	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Pranel
37	PREETHAM GOWDA C.B	4AI20CS069	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	Pratta
38	RAKSHITA		A	P	P	2	P	P	P	P	P	P	P	P	P	P	P	Facth
39	RANJAN GOWDA T N	4AI20CS073	P	P	P	8	P	f	P	P	P	P	P	A	P	P	P	Robin
40	RATAN AKKI	4A120CS077	P	P	P	P	P	P	P	P	P	P	P	P	P	PA	P	Jalg:
41	RENUKAN	4AI20CS078	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Edan
42	ROOPESH B Y	4A120CS079	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Arrant,
43	SANATH D U	4A120CS080	P	P	P	P	P	P	P	P	P	P	P	₽	1A	P	P	Parperh
44	SANATH R	4AI20CS087	P	P	1	P	P	P	P	P	P	P	P	P	P	P	P	Aust
45	SANJANA S	4A120CS088	P	P	P	P	P	A	P	P	P	P	P	P	1	19	P	Carath R
46	SANVIHR	4A120CS089	P	P	P	P	P	P	P	P	P	P	P	8	P	P	P	Sanjanas
47	SUHAS Y C	4A120CS090	P	P	P	17	1	P	P	P	P	P	P	9	P	1	P	Sanvit
48	SUJAY G	4AI20CS108	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	SUNG
49	SUJITH D	4AI20CS109		P	P	P	P	P	P	P	ρ	P	P	P	P	P	P	Quy.
50	SUMEDH M ANVEKAR	4AI20CS110	and the second	P	P	P	P	P	9	P	P	P	P	P	P	P	P	Buitty
51	SWATHLK M	4AI20CS111 4AI20CS112	P	P	P	P	P	P	P	P	P	P	p	P	P	-	P	Stonet
52	SYED AMAN	4AI20CS112 4AI20CS113	P	P	P	P	1	P	PD	P	P	P	9	P	p	P	PO	Suette
53	TANUSHREE D	4AI20CS114	P	P	PA	7	P	P	D	P	P	A	P	P	P	P	P	Soft A
54	UDAY RAO C G	4AI20CS115	P	P	5	P	P	P	P	P	P	P	P	P	P	P	P	Janus fin
55	VAMSHIKA M J	4AI20CS116	P	P	2	2	P	P	0	P	D	P	P	P	P	P	K	labolagy
56	VARSHA B C	4AI20CS117	P	P	P	P	P	P	P	D	P	Р Р	P	A	P	0	P	Vanshit
57	VARSHA V	4AI20CS118	P	P	D	D	P	P	P	P	D	P	P	P	P	2	0	Varis
58	VARSHINI G	4AI20CS119	P	P	2	2	P	P	P	p	P	P	p	P	P	P	P	1/200
59	VIDYA N G	4A120CS120	P	P	P	P	P	P	P	P	P	P	P	0	P	P	P	J.M.
60	VUAYALAKSHMI G S	4AI20CS121	P	P	P	D	P	p	P	P	P	P	P	P	P	P	P	Viaylasi
61	VINAY KUMAR B S	4AI20CS122	P	P	P	D	P	P	P	P	P	P	Þ	P	P	P	A	Vina

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Course Instructor Signature

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Professor and H.O.D. Gepartment of Consignation and Engr Adichunchanagiri Institute of Technolog CHIKMAGALUR - 577102

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ADICHUNCHANAGIRI INSTITUTEOF TECHNOLOGY Sri Adichunchanagiri Shikshana Trust (R) CHIKKAMAGALURU - 577 102



Department of Computer Science and Engineering. course on "LaTeX Editing Tool" from 21-06-2022 to 09-07-2022 organized by This is to certify that RENUKA N has successfully completed the add on

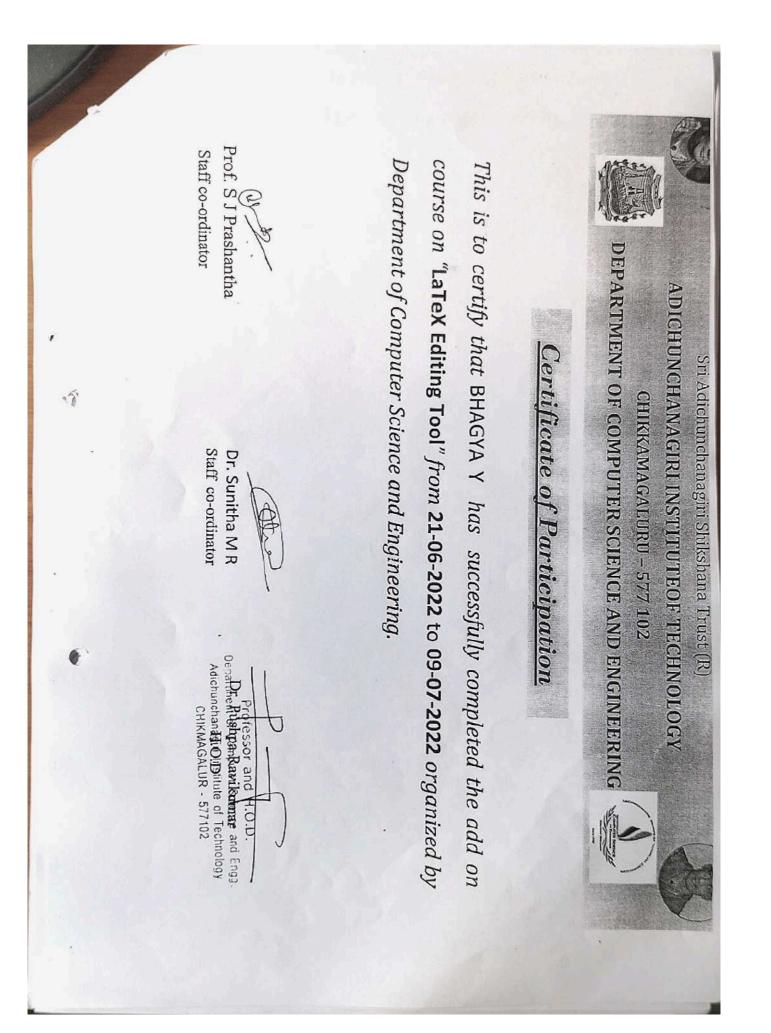
Prof. S J Prashantha Staff co-ordinator Q by

Dr. Sunitha M R HAN OF

Staff co-ordinator

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

ADD on Course Name: LaTeX Editing Tool

Course Code : 21CS-SLET_01

Semester: 4

Branch: CSE

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TOPPERS LIST

SI NO	NAME	USN	Marks Obtained
1	AAISHA SUHA	4AI20CS001	47
2	VIJAYALAKSHMI G S	4AI20CS121	45
3	DAIVIK M D	4AI20CS026	43

Course Instructor Signature

Professor and H.O.D

Department UCD Signature ence and En Adichunchanagiri Institute of Technol. 3, CHIKMAGALUR - 577102

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

ADD ON COURSE: LaTeX Editing Tool

SEMESTER : IV

Max Marks: 50

Student Name : Harshith M. Patel

Student USN : 4AT20CS036

Note: There are 50 multiple choice questions. All questions are compulsory. Each question carries equal 50*1=50 marks.

- 1. Question: To use _____ there is a requirement of LaTeX distribution (software).
 - a) TeX
 - Jo SciTE
 - c) LaTeX
 - d) Ubuntu
- 2. Question: Most LaTeX distribution software includes _____ and some additional software in them.
 - X TeX
 - b) SciTE
 - c) LaTeX
 - d) Ubuntu
- 3. Question: TeX Live is a very popular LaTeX distribution software which is available in the standard repositories
 - a) TeX
 - b) SciTE

 - d) Ubuntu
- 4. Question: While using LaTeX, there is also a need for plain_____editor and software to view the output file.
 - a) Text
 - b) Transcript

 - c) / Script e) Word
- 5. Question: LaTeX documents are typically created using any plain _____editor.
 - a) Text
 - b) Transcript
 - c) Scriptd) Word
- 6. Question: ____are examples of plain text editors.
 - J Gedit
 - b) SciTE
 - c) Both (A) and (B)
 - d) None of these

7. Question: The different parts of the text are marked using _____ commands that associate a meaning to them.

> a) LaTeX b) Simple e) TeX d) HTML

- 8. Question: ______command is used to define the document's title.
 - a) \title
 - b) \author

 - c) \date
- command is used to specify the 9. Question: author(s) of the document.
 - a) title b/ \author

 - c) liste
 - d) \document
- 10. Question: _____command is used to indicate the date the document was created.
 - * \title
 - b) \author
 - c) \date
 - d) idocument
- command can be used to explicitly 11. Question: ____ specify the logical structure of the document.
 - a) \ chapter

 - b) \ section c) \paragraph d) All of these
- 12. Question: LaTeX comes with ways to format these document elements in a pleasant looking professionalstyle.
 - a) Integrated
 - b) Built-in
 - c) Many

 - A Incorporated

- 13 Question The document is compiled (processed) using the LaTeX____and an output file is produced
 - a) Organization
 - ₩ Commands
 - c) System d) Document

14 Question While compilation, LuTeX can also

produce some additional

- Records X
- b) Archives
- c) Files
- d) Directories
- 15 Question: The produced additional files can be_____safely without losing any information.

 - a) Read
 - b) Deleted -e) Saved
 - d) Documented

16. Question: When the output file is viewed using appropriate software or print it on a printer, one can seethe____document.

- a) Unformatted
- b) Formatted
- c) In-line
- None of these
- 17. Question: In the output file, if the looks of the document are not satisfactory, it can be

further_____ with thehelp of built-in styles or own styles can be defined.

- a) Adapted
- c) Modified
- d) Customized
- 18. Question: Every time a modification is made in the ______text, there will be a need to compile it again for seeingthe effect of the change in the output
 - document.
 - 3 Source b) Basic
 - c) Beginning
 - d) Main
- 19. Question: Both TeX and LaTeX use the file

extension a) "text

b) .tex

- A
- d) .latex

20. Question: LaTeX has a command called _____ that produces the popular PDF format files. a) PDFtex

- b) pdflatex
- c) PDF d/ Latexpdf

- 21. Question: Full form of PDF is_
 - a) Perfect Document Format
 - N Portable Double Format
 - c) Portable Document Format
 - d) Perfect Deed Format
- 22. Question: PDF files are very popular for
- * sharing_____documents on the Web.
 - Producible
 - b) Printable
 - c) Printed
 - d) Scanned
- 23. Question: PDF documents can be viewed in_____default viewer.

 - a) TeX's
 - b) SciTE's
 - / LaTeX's
 - d) Ubuntu's

24. Question: Ubuntu's document default viewer

	-
a)	Evince
	Carl Carl Common Party

is_

	LaTeX
01	THEFALL

- c) Evine
- d All of these

25. Question: The edit-compile-view cycle

has		steps
-	8)	, One

- J Two
- c) Three
- d) Four

26. Question. The document can be edited by using any

- plain editor like
 - X Gedit
 - b) Word
 - c) Wordpad
 - d) Getil

27. Question: The LaTeX document can be compiled by issuing the command_____at the command

- prompt.
 - a) Pdflatex filename b) PDF filename
 - latexpdf filename
 - d) filename pdflatex
- 28. Question: The generated PDF file can be viewed by opening it from the
 - a) Desktop GUI

- o) Adobe
- d) LaTeX
- 29. Question: The generated PDF file can also be viewed by issuing the command____pdf filename at thecommand prompt.
 - a) Evince
 - b) LaTeX

 - c) Evine d All of these
- 30. Question: To use SciTE with pdflatex, there is a need to make enanges in its_____file,
 - a) Document
 - DY PDF
 - c) Configuration
 - d) LaTeX
- 31. Question: LaTeX is essentially a _____language.
 - A Markup
 - b) Highlighted
 - c) Object oriented
 - d) Simple
- 32 Question: The LaTeX source consists of plain text with some parts of the text marked up using markers knownas
 - a) Instructions
 - 51 Commands
 - Cuidelines
 - d) Directions
- 33 Question In LaTeX, some _____ are independent commands - they do no mark any specific part of the ICAL:
 - a) Instructions
 - (e) Commands
 - Guidelines 6)
 - Directions
- 34. Question: The LaTeX commands can perform a variety of tasks when the _____ is processed by the LaTeXsystem.
 - a) Organization

 - c) System
 - d) Document
- 35. Question: The LaTeX commands provide information about the text or the
 - a) Organization
 - b) File
 - c) System
 - d) Document
- 36. Question. The LaTeX commands indicate the role of the marked text in the overall structure of the_____

- a) Organization
- b) File
- System d
- d) Document
- 37. Question: The LaTeX commands directly
 - specify
 - a) Formatting
 - b) Informationc) Data

 - d File name
- 38 Question: The LaTeX command name can be a_____of alphabetic letters only, or it can be a single non-letter.
 - a) String
 - Sequence
 - c) Series
 - d) Chain
- 39. Question: LaTeX commands are _____sensitive.
 - J Event
 - b) Case
 - c) Instance
 - d) Example
- 40. Question: Some commands accept additional information which is called_____
 - a) Examples

 - b) Data info Arguments
 - d) Instances
- 41. Question: There are two types of _____optional and compulsory.
 - a) Examples
 - b) Data Info
 - o) Arguments d Instances
- arguments are not mandatory. 42 Question: a) Optional Compulsory

 - c) Instance
 - d) Event
- 43. Question: If one or more optional arguments are to be provided, they have to be written after the commandname, enclosed in_
 - e) [] (square brackets)
 - b) ""(quotes)
 - c) <>(angular brackets)
 - d) {} (curly braces)
- 44. Question: More than one optional argument has to be separated by

a) (:) colon

- b) (,) comma
- d) (A) caret

45. Question: Mandatory arguments (if there are any) have to be enclosed in in

- a) [] (square brackets)
- b) (quotes)
- c) / (angular brackets)
- () (curly braces)
- 46 Question: 12pt is an____argument.
 - a) Name b) Optional

 - c) Compulsoryd) All of these

37 Quistion: Article is a _____argument.

- 🖌 Name
- b) Optional
- c) Compulsoryd) All of these

48. Question: LaTeX treats all _____ characters (the space, tab and newline characters) as the same.

- a) Special
- b) Space e) Line
- d) Whitespace
- 49. Question: LaTeX converts all occurrences of multiple consecutive_____into a single space character.
 - a) Special
 - b) Space

 - c) Line d) Whitespace

50. Question: The_____at the beginning of a line are generally ignored and one or more consecutive blank linestre considered to mark the beginning of a new paragraph.

a) Special +) Space

- c) Line
- d) Whitespace

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

Add-On Course on "LaTeX Editing Tool"

Add-On Course PARTICIPANTS FEEDBACK

SI.No	DESCRIPTION	-		
1	How would you rate the presenter's	EXCELLENT	GOOD	POOR
	Anowieuge on the concent?	~		
2	How would you rate the concepts and Information provided by the Present	V		
3	What was your overall impression of the session?	~		
41	Remarks	The elce groot	ssion was	wory

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Signature of the Participants

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU

Department of Computer Science & Engineering

Summary Report

The course "LaTeX Editing Tool" was conducted at CS&E Dept from 21/06/2022 to 09/07/2022.

The main motive is to impart the knowledge and understanding about LaTeX system, explain the procedure of LaTeX typesetting and familiarize the participants with various document formats of LaTeX and enable them to prepare research articles, thesis, books, and presentations with confidence.

Course Outcomes

Students will be able to learn:

- Typesetting of complex mathematical formulae using LaTeX.
- Use tabular and array environments within LaTeX.
- Use various methods to either create or import graphics into a LaTeX document.
- Typesetting of journal articles, technical reports, thesis, books, and slide
- presentations. Automatic generation of table of contents, bibliographies and indexes.

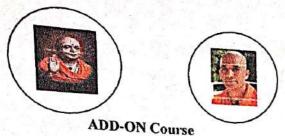
Instructor's Signature

HOD's Signature H.O.D. Department of Computer Science and Enc. Adichunchanegiri Institute of Technology CHIK MAGALUR - 577102

ADD-ON PROGRAM ON

P

"DIGITAL IMAGE PROCESSING AND MACHINE VISION"



On "Digital Image Processing and Machine Vision"





Organized by,

Department of Computer Science and Enginering. Adichunchanagiri Institute of Technology, Chikmagalur – 577102 Karnataka. India www.aitchikmagalur.ac.in

About the College:

of Jichunchanagiri Institute Technology (AIT) was established in the year 1980 under the auspicious Shikshana of Adhichunchanagiri of blessings Trust(R) with the Jagadguru Bhairavaikya 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 departments have engineering 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 Visvesvaraya affiliated to is Technological University, Belagavi. The alumni of the department are various reputed working in 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:

After you have succesfully followed the course on image processing and computer vision you will be able to use techniques to process and analyze images. In this course we will introduce the basic notions in image processing and computer vision in such a way that a student will be able practical for them use to purposes and have an understanding of the theoretical (mathematical) basics. Algorithms for image processing and vision are often the computer mathematical 'materialization' of formulas. Being able to make a mathematical a from program the Python using description programming language is an important objective of this course

Resource Person:

Mr. Darshan L M.

Assistant Professor

Dept of CS&E, AIT, Chikkamagaluru

Convenor:

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

Coordinator:

1. Mr. Gopalakrishna C, Associate Professor, Dept. CS&E, AIT, Chikkamagaluru

2. Mr. Chandra Naik G, Assistant Professor, Dept. CS&E, AIT, Chikkamagaluru



|| Jai Sri Gurudev ||



SRI ADICHUNCHANAGIRI SHIKSHANA TRUST ® DICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU

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

Ref: AIT/IQAC/CSE/ /2022-23

Date: 16/05/2022

Circular

Department of Computer Science & Engineering is conducting a Certificate Program (Add-on Program) on "Digital Image Processing and Machine vision" from 25/05/2022 to 10/06/2022. 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 Coordinators

 Mr. Chandra Naik G Assistant Professor
 Dept. of CS&E
 Mr. Gopalakrishna C
 Associate Professor
 Dept. of CS&E
 AIT Chikmagalur

H.O.D. Pro

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

DIGITAL IMAGE PROCESSING AND MACHINE VISION

Add on Course

6th Sem B.E., CSE

Duration –30 hours

Syllabus

MODULE 1

Overview of Applications of Vision and Image Processing, Digital Image Formats, Colour Models, Data Types, Operators., Manipulating Matrices, File I/O, The Image Processing Toolbox (10 Hours)

MODULE 2

Thresholding, Histogram Equalization, Linear Filtering (convolution), Noise Reduction, Nonlinear Filtering, Gradients, Edge Magnitude and Direction, Finite Difference Filters, Laplacian of Gaussian Filter, Canny Edge Detector, Colour Transformations, Colour Histogram Equalization Colour Median Filtering., Colour Gradient and Edge Detection (10 Hours)

MODULE 3

Thresholding as a form of Segmentation, Basic Global Thresholding, Optimal Global Thresholding, Techniques to improve global thresholding, Region Labelling, Boundary Tracing, Boundary-based measures of accuracy, Regionbased measures of accuracy, Measuring Reproducibility. (10 Hours)

Text Books/References:

(1)Textbook: Sonka M. Hlavac V. and Doyle R., Image Processing, Analysis, and Machine Vision, PWS Publishing, 1999.

(2) Reference: Bose T., Digital Signal and Image Processing, Wiley, 2004. (3) Forsth D. A. and Ponce J., Computer Vision: A Modern Approach, Prentice Hall, 2003. Reference Books (1) Gonzales R.C. and Woods P., Digital Image Processing, AddisonWesley, 2002. (2) Duda R. O., Hart P. E., and Stork D. G., Pattern Classification, Wiley Inter science, 2001.



ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Add-On Course on

"DIGITAL IMAGE PROCESSING & MACHINE VISION" <u>STUDENT ENROLLMENT LIST</u>

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MICHUNCHANAGINI INSTITUTE OF ACHNOLOGY CHIKKAMAGALURU-577102 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ADD-ON Course - Digital Image Processing

Attendance Report

Note :Session 1-9.30-12.30 Session 2-2.30-5.30

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4AI19CS065	4AI1.9CS066	4AI19CS068	4AI19CS069	4AI19CS070	4AI19CS071	4AI19CS076	4AI19CS083	
38	39	40	41	42	43	44		

Course Hastructor's Signature

Professor and H.O.D. Departmentossor and Engin Adichunchanagiri leshture 34 Technology CHIKMAGALUR - 3271122

CSEE

ADICHUNCHANAGIRI INSTITUE OF TECHNOLOGY, CHIKKAMAGALURU-577102.

DEPARTMENT OF COPMUTER SCIENCE & ENGINEERING Add-On Course on "Digital Image Processing and Machine vision"

Over All Add-On Course PARTICIPANTS FEEDBACK

SI.No	DESCRIPTION	EXCELLENT	GOOD	POOR
1	How would you rate the presenter's knowledge on the concept?		Bood	
2	How would you rate the concepts and Information provided by the Presenter?	Excellent		
3	What was your overall impression of the session?		600 d	
4	Remarks	= NIL	~	

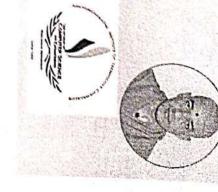
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Signature of the Participants



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ADICHUNCHANAGIRI INSTITUTEOF TECHNOLOGY Sri Adichunchanagiri Shikshana Trust (R) CHIKKAMAGALURU - 577 102 lliar our nucuaevil



Certificate of Participation

Science and Engineering. 25th May 2022 to 10th june 2022 ,organized by Department of Computer the add on course on "Digital Image Processing and Machine vision" from This is to certify that Pallave P. V has successfully completed

Prof. Chandra Naik G Staff co-ordinator

Prof. Gopalakrishna C Staff co-ordinator Konala P

Uen iment of Computer Science and Engg hundishpagi,Raisikalmar Technology Professor and H.O.D CHIHAOODLUR - 577102

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

Add-On Course on

"DIGITAL IMAGE PROCESSING AND MACHINE VISION"

TOPPERS LIST

SL NO	STUDENT NAME	USN	MARKS OBTAINED
1	RACHITHA P K	4AI19CS083	49
2	ANUSHA BHAT	4AI19CS015	48
3	MOKSHITH M D	4AI19CS060	47

cience and Enga H.O.D. essor and SIGNATEURE Science and Chinology Department angin Institute HOD Adichunchanagin Institute 577102

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING Add-On Course on "DIGITAL IMAGE PROCESSING" ASSESSMENT QUESTIONS

NAME: Rachitha P.K.

USN: 4A I 19 (5083

50*1=50 Marks

INSTRUCTIONS:

1. Answers to all questions are to be recorded on the multiple-choice form, either in the format A-D or True/False.

2. Tick Mark one option only to indicate the answer you consider correct for each question.

3. Mark your answers in Black or blue ink point pen on the multiple-choice form provided.

TICK MARK THE FOLLOWING QUESTIONS:

What is the first and foremost step in Image Processing?

 a) Image restoration
 b) Image enhancement
 c) Image acquisition
 d) Segmentation

 In which step of processing, the images are subdivided successively into smaller regions?

 a) Image enhancement
 b) Image acquisition
 c) Segmentation
 d) Wavelets

 What is the next step in image processing after compression?

 a) Wavelets
 b) Segmentation
 c) Representation and description
 d) Morphological processing

4. What is the step that is performed before color image processing in image processing?
a) Wavelets and multi resolution processing b) Image enhancement
c) Image restoration d) Image acquisition

5. How many number of steps are involved in image processing? (a) 10 b) 9 c) 11 d) 12

6. What is the expanded form of JPEG?a) Joint Photographic Expansion Groupc) Joint Photographs Expansion Group

b) Joint Photographic Experts Group d) Joint Photographic Expanded Group

7. Which of the following step deals with tools for extracting image components those are useful in the representation and description of shape?

a) Segmentationc) Compression

b) Representation & description Morphological processing

8. In which step of the processing, assigning a label (e.g., "vehicle") to an object based on its descriptors is done?
Object recognition
b) Morphological processing

c) Segmentation

b) Morphological processingd) Representation & description

9. What role does the segmentation play in image processing? a) Deals with extracting attributes that result in some quantitative information of interest b) Deals with techniques for reducing the storage required saving an image, or the bandwidth required transmitting it Deals with partitioning an image into its constituent parts or objects d) Deals with property in which images are subdivided successively into smaller regions 10. Among the following image processing techniques which are fast, precise and flexible. d) Photographic c) Electronic a) Optical b) Digital 11. An image is considered to be a function of a(x,y), where a represents: a) Height of image b) Width of image Amplitude of image d) Resolution of image 12. What is pixel? b) Pixel is the elements of an analog image 3) Pixel is the elements of a digital image d) Pixel is the cluster of an analog image c) Pixel is the cluster of a digital image 13. The range of values spanned by the gray scale is called: d) Resolution range c) Peak range Dynamic range b) Band range 14. Which is a color attribute that describes a pure color? Brightness d) Intensity a) Saturation b) Hue 15, Which gives a measure of the degree to which a pure colour is diluted by white light? ~a) Saturation b) Hue c) Intensity d) Brightness 16. Which means the assigning meaning to a recognized object? c) Acquisition d) Segmentation a) Interpretation b) Recognition 17. The transition between continuous values of the image function and its digital equivalent is called d) None of the Mentioned c) Rasterisation b) Sampling a) Quantisation 18. If the Gaussian filter is expressed as $H(u, v) = e^{(-D^2)} (u, v)/2D_0^2$, where D(u, v) is the distance from point(u, v), D_0 is the distance defining cutoff frequency, then for what value of D(u, v) the filter is down to 0.607 of its maximum value? c) $D(u, v) = D_0^3$ d) D(u, v) = 0b) $D(u, v) = D_0^2$ a) D(u, v) = D₀ 19. State the statement as true or false. "The GLPF did produce as much smoothing as the BLPF of order 2 for the same value of cutoff frequency". b) False a) True 20. In general, which of the following assures of no ringing in the output? b) Ideal Lowpass Filter a) Gaussian Lowpass Filter d) All of the mentioned

c) Butterworth Lowpass Filter

21. The lowpass filtering process can be applied in which of the following area(s)? a) The field of machine perception, with application of character recognition b) In field of printing and publishing industry c) In field of processing satellite and aerial images All of the mentioned 22. The edges and other abrupt changes in gray-level of an image are associated with_ a) High frequency components b) Low frequency components c) Edges with high frequency and other abrupt changes in gray-level with low frequency d) Edges with low frequency and other abrupt changes in gray-level with high frequency 23. A type of Image is called as VHRR image. What is the definition of VHRR image? a) Very High Range Resolution image b) Very High Resolution Range image Wery High Resolution Radiometer image d) Very High Range Radiometer Image 24. The Image sharpening in frequency domain can be achieved by which of the following a) Attenuating the high frequency components Attenuating the low-frequency components c) All of the mentioned d) None of the mentioned 25. The function of filters in Image sharpening in frequency domain is to perform reverse operation of which of the following Lowpass filter? a) Gaussian Lowpass filterb) Butterworth Lowpass filter c) Ideal Lowpass filter d) None of the Mentioned 26. If D_0 is the cutoff distance measured from origin of frequency rectangle and D(u, v) is the distance from point(u, v). Then what value does an Ideal Highpass filter will give if $D(u, v) \le D0$ andifD(u, v) >D0? (a) 0 and 1 respectively b) 1 and 0 respectively c) 1 in both case d) 0 in both case 27. What is the relation of the frequencies to a circle of radius D_0 , where D_0 is the cutoff distance measured from origin of frequency rectangle, for an Ideal Highpass filter? a) IHPF sets all frequencies inside circle to zero b) IHPF allows all frequencies, without attenuating, outside the circle e All of the mentioned d) None of the mentioned 28. Which of the following is the transfer function of the Butterworth Highpass Filter, of order n, D_{ϕ} is the cutoff distance measured from origin of frequency rectangle and D(u, v) is the distance from point(u, v)? a) $H(u,v)=1/1+[(D0/D(u,v))]^{2n}$ b) $H(u,v) = \{0 \text{ if } D(u,v) \le D0 \text{ and } 1 \text{ if } D(u,v) > D0\}$ c) $H(u,v)=1-e^{-D^2(u,v)/2D0^2}$ d) none of the mentioned

29. Which of the following is the transfer function of the Ideal Highpass Filter? Given D_0 is the cutoff distance measured from origin of frequency rectangle and D(u, v) is the distance from b)Tl(u,v)={0 if D(u,v) <= D0 and 1 if D(u,v)> D0} point(u, v).

a) $H(u,v)=1/1+[(D0/D(u,v))]^2n$ c) $H(u,v)=1-c^{-}D^{2}(u,v)/2D0^{2}$ d) none of the mentioned

30. Which of the following is the transfer function of the Gaussian Highpass Filter? Given D_0 is the cutoff distance measured from origin of frequency rectangle and D(u, v) is the distance from point(u, v).

b) $H(u,v) = \{0 \text{ if } D(u,v) \le D0 \text{ and } 1 \text{ if } D(u,v) > D0\}$ a) $H(u,v)=1/1+[(D0/D(u,v))^2n$ $H(u,v)=1-e^{-D^2(u,v)/2D0^2}$ d) none of the mentioned

31. For a given image having smaller objects, which of the following filter(s), having D_0 as the cutoff distance measured from origin of frequency rectangle, would you prefer for a comparably smoother result?

a) IHLF with Do 15 GHPF with Do 15 and order 2 b) BHPF with Do 15 and order 2 d) All of the mentioned

32. Which of the following statement(s) is true for the given fact that "Applying Highpass filters has an effect on the background of the output image"?

a) The average background intensity increases to near white

b) The average background intensity reduces to near black

c) The average background intensity changes to a value average of black and white d) All of the mentioned

33.Gaussian noise is referred to as d'normal noise b) black noise c) white noise a) red noise 34. Which of the following is an example of Digital Image processing? All of the mentioned c) camera mechanism a) Computer graphics b) Pixels 35.Convolution in spatial domain is multiplication in Aplane c)spatial domain b)time domain a frequency domain 36.Linear functions possesses the property of d)Both a and b c)multiplication b)homogeneity a) additivity 37.PDF in image processing is called b)probability density function a) probability degraded function d)probabilistic density function c) probabilistic degraded function 38. Filter that replaces the pixel value with the medians of intensity levels is b)geometric mean filter a) arithmetic mean filter d)sequence mean filter ~e) median filter 39.In geometric mean filters when alpha is equal to 1 then it works as

	a)notch filter	b)bandpass filter	c)wiener filter	N
-1-	40.In wiener filterin a)different	g it is assumed that b)homogenous	noise and image are	A)inverse filter
	41.EBCT scanners		c)correlated	Juncorrelated
1	a)electrical beam con c)electronic beam co	mputed tomography mputed tomograph		am computed tomography cam computed tomography
	42. PSF stands for			I mea tomography
_1-	a)probability spread c)probability spike fi	inction	b)point sprea d)point spike	d function function
<u>est</u> -	43. Filter that perform a)lowpass filter	ns opposite to band bbandpass filt	rejected filter is called er c)highpass f	ilter d)max filter
-1-	 44.Degradation can b a)2ways 	e estimated by 3ways	c)4ways	d)5ways
-1-	 45. The purpose of reaction a) degraded image 	storation is to gain original imag کطر	e c)pixels c	I) coordinates
1-	46. Power spectra and a) notch filter	noise of undegrade b) bandpass filte	d image must be knowr er بر wiener filter	
-1-	 47. Contra harmonic n a)degraded image 	nean filter produces b)original image	errestored ima	ige d)plane
-1-	 48.One that is not the t a)arithmetic mean filte c)harmonic mean filter 	r ł	5)geometric mean filter Bisequence mean filter	
·*	49. Which is meant by a orientation?	assuming any two n	eighboring that are both	h edge pixels with consistent
	a Canny edge detection	b)Smoothing	c)Segmentation	d)None of the mentioned
1	50. What is the process	of breaking an imag	ge into groups?	
	a)Edge detection	b)Smoothing	essegmentation	d)None of the mentioned

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU

Department of Computer Science & Engineering

Summary Report

The course "Digital Image Processing" was conducted at CS&E Dept from 25/05/2022 to 04/06/2022.

With this course students can understand how to improve images for human interpretation. Information can be processed and extracted from images for machine interpretation. The pixels in the image can be manipulated to any desired density and contrast.

Course Outcomes

Upon completion of the subject, students will be able to: ·

- To study the image fundamentals and mathematical transforms necessary for image processing.
- To study the image enhancement techniques
- To study image restoration procedures.
- To study the image compression procedures

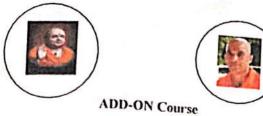
Instructor's Signature

HOD's Signature . Professor and H.O.D. animent of Computer Science and Engg. Multichanagiri Institute of Technology

ADD-ON Program 2017-18

ADD ON PROGRAM ON

"Basics of MATLAB Tool"





On "Basics of MATLAB Tool"





Organized by,

Department of Computer Science and Enginering. 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 Adhichunchanagiri Shikshana Trust(R) with blessings of the 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:

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

Hon Siegnatorescience a Department of Computer Science a Adiohunchanagiri Institute of Tech... CHIKMAGALUR - 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 tosolve 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:

- "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).

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

ADD-ON Course - Basics of MATLAB Tool

Enrollment List

SI. NO	USN	Student Name	-
1	4AI14CS012	APOORVASR Apoonna	
2	4AI14CS026	DEEKSHAKN Dey	
3	4AI15CS002	ABHISHEK G Athich	
4	4AI15CS028	CHANDANA PH Chanden	
5	4AI15CS051	KOUSHIKSD Kouthic	
6	4AI15CS064	NIDHIAR NICH	5
7	4AI15CS103	SIDDANTH BK Biddanth	
8	4AI16CS002	ADYAHN Adya	
9	4AI16CS003	AGNES SANMATHI D	
10	4AI16CS004	ALFIYA BANU AS	
11	4AI16CS006	ANANYA KV Araupk.y	
12	4AI16CS007	ANUSHAKN A nusher	
13	4AI16CS008	ANUVIKA A S Aprilia	
14	4AI16CS009	ARVIND GIRISH Awind him	
15	4AI16CS011	BABITHA B BOLILLE	
16	4AI16CS012	BHAGYASHREE H D Praghyah	n
17	4AI16CS013	BHOOMIKAGS BLoom	
18	4AI16CS014	BHOOMIKAK BLOOM	
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22		4AI16CS023	DEEPAKNR Deepe
23		4Al16CS025	GADDI CHETAN chether
24		4AI16CS026	GOURAV BR Gouron
25	;	4AI16CS027	HARSHAHK Haribatt
26	5	4AI16CS028	JAYASHREE Jagashere
27	7	4AI16CS029	JEEVANAS Jeevan
28	8	4AI16CS030	KALPASHREEY Lalpostry
2	9	4AI16CS031	KARTHIKNL Kasthill
3	0	4AI16CS032	KAVYAS Kangag.
3	1	4AI16CS033	KAVYASK Kangatic
3	32	4AI16CS034	KAVYASHREECM Kayara
3	33	4AI16CS035	KHALEEL AHAMED Knaleel
	34	4AI16CS036	KOWSHIK V
	35	4AI16CS037	KRUTHIKA G NAYAK KAUSA
4	36	4AI16CS038	LEANDRA MARIA MENDON MOSUL
	37	4AI16CS040	MANISHA P BEERAIAH Maau
	38	4AI16CS042	MEGHANADY Meghan
	39	4AI16CS047	PARVATHANENI Ifent
	40	4AI16CS048	NAYANAKS Hauy
	41	4AI16CS049	NESARA BR (Noralh
	42	4AI16CS051	NISCHITHAKS ALKS
	43	4AI16CS052	NISHANTH KR Nighauthe
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Γ	47	4AI16CS062	RACHANA N VANAGUR Pachana
Ľ	48	4AI16CS127	POOJACP Loga CF

49	4AI14CS092	SHREYASCB Sheer CB.
50	4AI15CS063	NAVANEETH G D NAMA
51	4AI15CS102	SHUSHMAN GOWDA Sunto
52	4AI15CS112	SUMANVH Laur
53	4AI16CS039	MADHUMITHA KM Mara
54	4AI16CS065	RAKESH T 'R'
55	4AI16CS066	RAMANANDA S BHAT
56	4AI16CS067	RAMYAR D HALLS
57	4AI16CS068	RAMYASHREE CA Partice
58	4AI16CS070	ROJAKS (2) Ora
59	4AI16CS072	OCOVER.
60	4AI16CS073	SAHANA DESAI
61	4AI16CS074	SAMRUDDHIDK Samuelden
62	4AI16CS075	SAMRUDH PATEL DMD + ODM
63	4AI16CS076	SAMRUDHI H R
64	4AI16CS079	SANJANAR Sange
65	4AI16CS080	SANJANA R G CANANA
66	4AI16CS081	SAVEENAMM Davoena M.M.
67	4AI16CS082	SHARATH KR ROAS
68	4AI16CS085	SHREYA BR CLIRACADS
69	4AI16CS086	SHRIKARAN CN Prifaranen
70	4AI16CS087	SHRUTHAR JAIN DAIL
71	4AI16CS088	SIDDESH P Stopped
72	4AI16CS089	SINCHANASB Sinchang b
73	4AI16CS090	SINCHANA S GOWDA
74	4AI16CS091	SNEHAK Sal
75	4AI16CS092	SOUMYA H JOUMYA

76	4AI16CS100	SRISTI BAGAMANE
77	4AI16CS101	SRUSTIR BS Soustish
78	4AI16CS102	SUMANTHAM K
79	4AI16CS103	SUPRITH K
80	4AI16CS104	SUPRIYASK Sold Leger
81	4AI16CS105	SURYACP Summer
82	4AI16CS106	SUSHMAS Sultan 9

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Course Instructor's Signature

Department of Computer Science Enu E Adichunchanagiri Institute of Tc CHIKMAGALUR - 577102

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

ADD-ON Course - Basics of MATLAB Tool Attendance Report

Note :Session 1-9.30-12.30 Session 2-2.30-5.30

	NSN	Student Name	26	26/11/2018	1/72	27/11/2018	28/1	28/11/2018	29/1	29/11/2018	30/1	30/11/2018	Signature
-			Session-1	Session-2									
	4AI14CS012	APOORVA S R	٩	٩	9	Р	٩	d	a	a	d	a	Appound
5	4AI14CS026	DEEKSHA K N	d	d	d	Р	d	A	A	d	٩	٩	Deel
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4	4AI15CS028	CHANDANA PH	Р	d	d	Р	8	d	Р	A	d	Р	readore
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9	4AI15CS064	NIDHI A R	Р	6	b	P	A	P	Р	Р	d	A	Nielu
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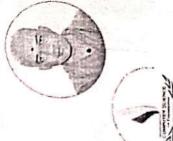
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Course Instructor's Signature Jes C





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ADICHUNCHANAGIRI INSTITUTEOF TECHNOLOGY Sri Adichunchanagiri Shikshana Trust (R) CHIKKAMAGALURU - 577 102 ||Jai Sri Gurudev||



Certificate of Participation

This is to certify that <u>Meéhana D.Y</u> 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 P----

Prof. SJ Prashanth Staff co-ordinator

Dr. Pushpa Ravikumar H.O.D

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

OVER ALL Add-On Course PARTICIPANTS FEEDBACK

Sl.No	DESCRIPTION	EXCELLENT	GOOD	DOOD
1	How would you rate the presenter's knowledge on the concept?		0000	POOR
2	How would you rate the concepts and Information provided by the Presenter?		\sim	in the second
3	What was your overall impression of the session?			
4	Remarks	Came to MANLAB, PO helf	know a session	was
		po helf	full.	

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. DepartmentSignaturputor Stronce 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.

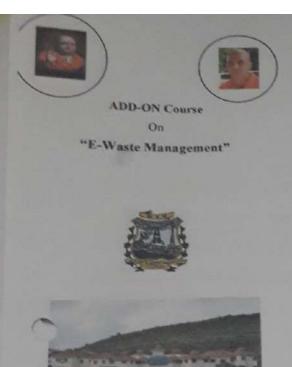
3. Students learned graphic features of MATLAB and they are able to use this feature effectively in the various applications.

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. Separtment of Computer Science and Lings Churchanagiri Institute of Technology - AGALUR - 577102



Organized by,

Department of Computer Science and Enginering. Adichunchanagiri Institute of Technology, Chikmagalur – 577102 Karnataka. India www.aitchikmagalur.ac.in

About the College:

dichunchanagiri Institute of echnology (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. Balagangadharanatha

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

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 arms 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:

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, Chikkamagaluru

Convenor:

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

Coordinator:

Mr. Gopinath C B, Asst Professor,

Dept CS&E, AIT, Chikkamagaluru

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, Ewaste 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 ||

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: 16/03/2018

<u>Circular</u>

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 !' epartment of Computer Scient Adichunchanagiri Institute of Technology CHIKMAGALUR - 577102

CTJagade

Dr. CPilin LAXA DEVAure Principal Adichunchanagiri Institute of CHIKKAMAGALURU-577102

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

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	CHAITRA B L		4AI18CS084 ROHIT CHAVAN				KARTHIK GOWDA H L			4AI18CS058 NIHARIKATS	Course Instructor's Signature

C. C. C.

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

Attendance Report

Note: Session 1 -9.30-12.30

ession 2-2.30-5.30

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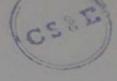
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30	4AI18CS045	MANOJ KUMAR B G	d	0	2	d	d	d	20	A	0	12	HIMARI
21	4AI18CS047	MANOJ P H	d	0	d	20	2	10	1	d	-	6	Provalation
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33	4A118CS052	MOHITH N H	a	20	- 0	0	2	d	d	d	2	A	Val
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38	4AI18CS062	NISCHAL B]	A	a	4	d	2 4	0	d	d	40	20	- Andrant
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Course Instructor's Signature

HOD's Signature Professor and H.O.D Department of Computer Science a Adichunchanagin Institute of Tec Adichunchanagin Institute of Tec



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

Add-On Course on "E-Waste" OVER ALL Add-On Course PARTICIPANTS FEEDBACK

SI.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 the the En own And to	to know ings the lower get si	t's happ it's happ rounding id of it

Hosha KP Signature of the Participants

the add on course on "E- Waste Management " from 16th to 20th March This is to certify that HARSHA K. P has successfully completed Dr. Phylipa Ravikumar H.O.D 2018 , organized by Department of Computer Science and Engineering. DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ADICHUNCHANAGIRI INSTITUTEOF TECHNOLOGY Certificate of Participation Sri Adichunchanagiri Shikshana Trust (R) CHIKKAMAGALURU - 577 102 Prof. S J Prashanth []]ai Sri Gurudev]] Staff co-ordinator confrondinator Prof. Chethan P Da)

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	4A118CS063	48
3	CHANDANA KS	4AI18CS022	47

Signature of HOD Professor and H.C Department of Computer Scien

CHIKMAGALUR

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

Semester: I

Assessment Questions

Student Name: ANKITHA A.P USN: 4AT 18 CS 007

1. E-waste is also known as

a) Electronic waste b) Essential waste c) European waste

Max Marks: 50

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

e) 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. b) Mercury, Cadmium and Lead.

a) Copper, and Bromine. d) Boron, Fluorine and Hydrogen.

c) Lithium, Beryllium and Bromine.

6. What are the adverse effects of mercury on health?

b) Damages kidneys and brain. c) Softens bones. d) Asthmatic bronchitis a) Lung Cancer.

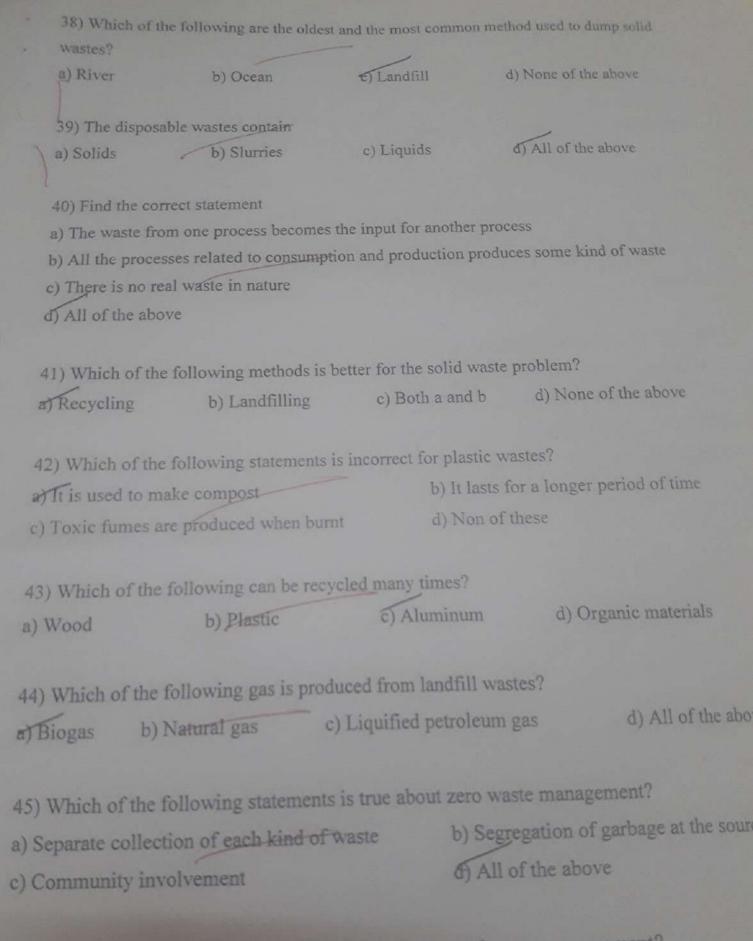
7. When did E-waste (management and handling) rules, 2011 come into effect?

b) March 1, 2012 c) May 1, 2012. d) July 1, 2012 a) January 1, 2012

AN 25-29-20		
	8. Which cities produce the highest e-waste in Indi	a?
	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
1	a) Cathode Ray Tubes. b) Computer plate.	
1		
	10) Who is responsible for the disposal of the pro-	
	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	
t		
	12) Which of the following reduce e-waste?	
	a) Purchasing more and more gadgets	b) Using them for a short time and then discarded
2	e) Good maintenance	d) All of these
1		
	13) WEEE is almost% of e-waste	e from solid waste.
	b) 10	c) 15 d) 20
1	a) 5	
1	14) In India, E-Waste management assume	s greater significance because
	a) Generation of own e-waste	b) Dumping of e-waste from developed countries
		d) All of these
)	c) Lack of awareness	
l	15) Which of the following is one of the in	apacts of e-waste on the environment?
	15) Which of the following is one of the in	tion c) Soil erosion d) Emission of gases
	a) Global Warming b) Deforesta	tion c) son crosten
	a) Groom	
L	16) The insulated wire has copper which	causes
	16) The insulated wire has copped	risk of lung cancer
	a) Skin disease or allergies or increase the	11 non nervous system
	a) Skin disease or allergies of mercanb) Can damage human's kidney, brain an	a numan ner to as a p
	c) Neurological disorders	
	c) Neurological disorder	
	d) Damage live and bones	

17) The term 15	WM refers to		
a) International	Solid Waste Management	b) Integrated Solid Wa	ste Management
c) Integrated So	lid Waste Machine	d) International Solid V	
18) In 2006, the waste by 2010.	IAER projected that the elec	tronic and electrical appliance	s would become e-
a) I billion	b) 2 billion	©) 3 billion	d) 4 billion
19) What is the l	nazardous pollutant released	from calculators?	
a) Lithium	b) Barium	c) Lead	d) Copper
20) Which of the	following can be considered	ed as source reduction?	
a) Material Subst	itution b) Trea	ating offsite c) Analysis	d) Landfill disposal
21) Which of the	following metal affects me	ental development in childre	m?
a) Lead	b) Barium	c) Zinc	d) Sliver
22) Which of the	following health impact is	observed by dumping cath	
a) Silicosis	b) Lung Disease	c) Kidney Inflammation	d) PAH exposure
23) What is iron a	nd steel constitute of e-wa	aste?	
a) 20	b) 30	c) 40	0)50
24) According to t	he Comptroller and Audi	tor General (CAG) report	what is the amount of e-
waste generated ar	inually?		/
a) 8LT	b) 5LT	c) 4LT	d) 7LT
25) Which of the h	azardous pollutant occur	rs in plastic?	
) Lithium	b) PCB's	c) Lead	d) Copper
26) Which of the fo	bllowing is not a biomed	dical waste?	/
a) Animal waste	b) Microbiological		vaste (d) Domestic waste
27) West and	evetern was established	in which of the follow	ing cities for the first time?
		c) Paris	(d) London
a) Athens	b) Lahore	C) 1 2015	

28) What is hazardous pollutant released from Circuit Boards? a) Arsenic b) Barium C) Lead 29) Why is it difficult to recycle plastics? a) It is very hard c) It is adhesive d) It contains different types of polymer resins 30) Which of the following is done on an individual level? d) Source reduction b) Disposal 31) What is hazardous pollutant released from Calculators? 6) Mercury d) Copper a) Lithium 32) Which of the following plans is used as a waste management plan? b) The integrated plan c) Plan for recycling d) Plan for reducing a) Plan for reuse 33) The organic material of the solid waste will decompose b) By the soil particles a) By the flow of water c) By the action of microorganisms 34) Which of the following wastes is called the Municipal Solid Waste (MSW)? c) Plastic cans d) All of the above b) Wood pieces a) Food wastes 35) The process of burning municipal solid wastes under suitable temperature and conditions in a specific furnace is called d) Vermicomposting c) Recycling b) Incineration a) Landfill 36) The burning of solid waste is not recommended because b) It requires a lot of space a) It is very costly a) It causes several environmental issues c) It requires modern technologies 37) When the organic matter present in the sanitary landfill decomposes, it generates d) All of the above c) Hydrogen b) Nitrogen a) Methane



46) How many main components are there in integrated waste management?

fi Three

c) Seven

d) Eleven

a) Two

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

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

Because paper can be used only one time

d) Because paper is very thick and can't cover the food containers

d) Batteries

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.

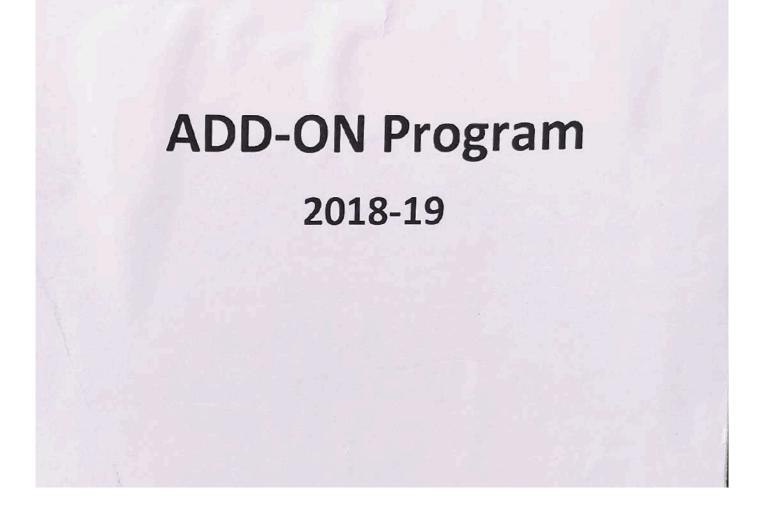
Course Outcomes

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.

Gopworth Instructor's Signature

Automatic and Strategies and Strateg



ADD on Program On "Basics of VLSI Design"

6



|| 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

5

(

1. Prof. S J Prashantha Assistant Professor Dept. of CS&E

AIT Chikmagalur

2. Prof. Vivekananda Assistant Professor Dept. of CS&E

AIT Chikmagalur

H.O.D. fessor an Depart HOD's Signature Science and Enga Adichunchanagiri Institute of Technology CHIKMAGALUR - 577102

Principal Signature

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



ADD-ON Course

On "Basics of VLSI Design"





Organized by,

Department of Computer Science and Enginering. 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 Adhichunchanagiri 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 Visvesvaraya affiliated to 15 Technological University, Belagavi. The alumni of the department are various reputed working in 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:

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, 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

DICHUNCHANAGIRI 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:

Introduction: Basic steps of IC fabrication, PMOS, NMOS, CMOS &BiCMOS, and SOI process technologies, MOS transistors - MOS transistor switches - Basic gate using switches, working polartransistor Resistors and Capacitors. Basic Electrical Properties of MOS and BiCMOS Circuits: Working of MOS transistors threshold voltage; MOS design equations: Ids-Vds relationships, Threshold Voltage, Body effect, Channel length modulation , gm, gds, figure of merit ω0; Pass transistor, NMOS Inverter, CMOS Inverter analysis and design, Various pull ups loads, Bi-CMOS Inverters.

Module 2:

Basic Circuit Concepts: Capacitance, resistance estimations- Sheet Resistance Rs, MOS Divice Capacitances, routing a pacitance, 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, 2µm 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:

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.

10 Hours

10 Hours

10 Hours

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	APOOSUA S
2	DEEKSHA K N	4AI14CS026	Decksha ×
3	ABHISHEK G	4AI15CS002	Abish
4	CHANDANA PH	4AI15CS028	Chart
5	KOUSHIK S D	4AI15CS051	Roughill
6	NIDHI A R	4AI15CS064	1 Darkip R
7	SIDDANTH BK	4AI15CS103	SULT
8	ADYA H N	4AI16CS002	AdukthAN
9	AGNES SANMATHI D	4AI16CS003	Ames Samueli
10	ALFIYA BANU	4AI16CS004	Calling Could
11	ANANYA K V	4AI16CS006	Alfine Row Aranja K.V
12	ANUSHA K N	4AI16CS007	Anishaku
13	ANUVIKA A S	4AI16CS008	P
14	ARVIND GIRISH	4AI16CS009	Ame
15	BABITHA B	4AI16CS011	Delitors
16	BHAGYASHREE H D	4AI16CS012	- nalitors
17	BHOOMIKA G S	4AI16CS012	Thenho 6
18	внооміка к	4AI16CS014	
19	BINDUSHREE C	4AI16CS015	Bhonith R
20	BINDUSREE B R	4AI16CS016	Binudustrice B
21	BRUNDA D	4AI16CS017	Burs
22	CHANDANA H Y	4AI16CS018	20 1000
23	CHINMAYEE	4AI16CS019	- Chandra
24	CHINTHANA M C	4A/16CS021	- ch
25	CHIRAG M R	4AI16CS022	- chit
26	DEEPAK N R	4AI16CS022	- chirag
27	DEEPIKA D P	4AI16CS024	Deepika PP
28	GADDI CHETAN	4AI16CS025	- Oralliter
29	GOURAV B R	4AI16CS026	- Crouker BR
30	HARSHA H K	4AI16CS027	Aparthe
31	JAYASHREE	4AI16CS028	Jayashree
32	JEEVAN A S	4AI16CS029	Scevan, A.S
33	KALPASHREE Y	4AI16CS030	- Repathree.
34	KARTHIK N L	4AI16CS030	- Halt
35	KAVYA S	4AI16CS032	- langas
36	KAVYA S K	4A!16CS032	- Kurch
37	KAVYASHREE C M	4AI16CS033	- TAM
38	KHALEEL AHAMED	4AI16CS034 4AI16CS035	- Mayner
39	KOWSHIK V	4AI16CS035	- there Ahaned
40	KRUTHIKA G NAYAK		- Kowshik
41	LEANDRA MARIA MENDON	4AI16CS037	- Knutika Or Ny
42	MANISHA P BEERAIAH	4AI16CS038	Learbra Maria
43	MEGHANA D Y	4AI16CS040	navi
14	MOHAMMED NIHAL KHAN	4AI16CS042	
45	MOUNA J	4AI16CS043	Mohanney
46	NAMITHA M TAPSE	4AI16CS044	- Mayor Cal
47	MANUTA INTAPSE	4AI16CS046	Nanithal MIC.

	NAVEEN P PARVATHANENI	4AI16CS047	Nauben
8	ΝΑΥΑΝΑ Κ S	4AI16CS048	Najara
9	NESARA B R	4AI16CS049	NisaraBR
50	NISCHITHA K S	4AI16CS051	Nieschilde KS
51	NISHANTH K R	4AI16CS052	Nicsharth 1
52	NISWARTH V SHETTY	4AI16CS053	Ninsuashmu
53	P PRADEEP KUMAR	4AI16CS054	tradeyto
54	POOJA B R	4AI16CS055 /*	POOJA BR
55	POOJA B S	4AI16CS056	Prota B.J
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58	POORNIMACL	4AI16CS059	Doogus
59	RACHANA N VANAGUR	4AI16CS062	Pad
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61	RAHUL S	4AI16CS064	Date:
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63	ALFIYA SHAIK	4AI16CS130	- Indiana
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87	VAISHNAVI C O VAISHNAVI RAO	4AI16CS114 4AI16CS115	Taishnav, Co

Ø. Course Instructor Signature

Department of Computer Science and Er Adichunchanagiri Institute of Technolog, 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

C

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

SI NO	NAME	USN	During 15-01-2018 to 28-01-2018.	Signature
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29	GOURAV B R	4AI16CS026	PPPPPPPPPPPPP	Orr.
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33	KALPASHREE Y	4AI16CS030	PP PP PPPPPPPPPP	Kadd who
34	KARTHIK N L	4AI16C5031	PPPPPPPPPPPPPPP	Karthak M
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Attendance Report

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Course Instructor Signature

D

IDD Signature

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

ADICHUNCHANAGIRI INSTITUE OF TECHNOLOGY, CHIKKAMAGALURU-577102. DEPARTMENT OF COPMUTER 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?	L		
2	How would you rate the concepts and Information provided by the Presenter?	~		
3	What was your overall impression of the session?	\checkmark		
4	Remarks	-		

Signature of the Participants



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ADICHUNCHANAGIRI INSTITUTEOF TECHNOLOGY Sri Adichunchanagiri Shikshana Trust (R) CHIKKAMAGALURU - 577 102 ||Jai Sri Gurudev||

Certificate of Participation

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

Prof. S J Prashantha Staff co-ordinator

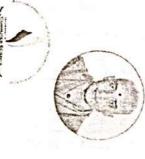
Prof. Vivekananda

Statt co-ordinator

Dr. Rushpa Ravikumarence de Aductions, H.O.D Institute of Technology CHIRAMGALUS - 571 192



ADICHUNCHANAGIRI INSTITUTEOF TECHNOLOGY Sri Adichunchanagiri Shikshana Trust (R) CHIKKAMAGALURU - 577 102 ||Jai Sri Gurudev||



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

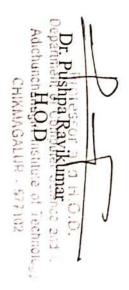
Certificate of Participation

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

Prof. SJ Prashantha

Staff co-ordinator

Prof. Vivekananda Staff co-ordinator



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

76

ADD ON COURSE: Basics of VLSI Design

Student Name: SOURAB SAKLECHA

USN: 4AIL 6 CS094

Instruction for students:

- 1. Mark your answers in Black or blue ink point pen on the multiple-choice form provided.
- 2. Tick mark only one option you consider correct for each questions.
- 3. Each question carries 1 mark

Answer for 50 multiple choice questions

1. The work function difference is negative for _____ b) polysilicon gate a) silicon substrate d) none of the mentioned cysilicon substrate & polysilicon gate

2. Substrate bias voltage is positive for nMOS.

a) true b) false

According to body effect, substrate is biased with respect to ______ a) source b)drain c)gate d) Vss

4. Increasing Vsb _____ the threshold voltage. a) does not effect
 b) decreases

c) increases d) exponentially increases

5. Transconductance gives the relationship between _____

a) input current and output voltage b) output current and input voltage c) input current and input voltage d) output current and output voltage

6. Transconductance can be increased by ____

b) increasing the width a) decreasing the width

d) decreasing the length c) increasing the length

7. Increasing the transconductance

b) decreasing area occupied a) increases input capacitance

c) decreasing input capacitance d) decrease in output capacitance

8. Ids is _____ to length L of the channel.

a) directly proportional b) inversely proportional d) logarithmically related c) not related

9. Switching speed of a MOS device depends on

a) gate voltage above a thresholdb) carrier mobility c) length channel

d) all of the mentioned

10) A fast circuit requires b) low gm a) high gm d) low cost c) does not depend on gm 11) Surface mobility depends on b) effective gate voltage a) effective drain voltage Affective source voltage c) channel length 12) What is a MOS transistor? b) majority carrier device (a) minority carrier device d) none of the mentioned c) majority & minority carrier device 13) The MOS transistor is non conducting when? b) zero threshold voltage a) fero source bias d) zero drain bias 0 c) zero gate bias 14) Gate logic is also called as b) switch logic a) transistor logic di restoring logic c) complementary logic 15) Both NAND and NOR gates can be used in gate logic. a) true b) false power dissipation. 16) The CMOS inverter has d) very less stno a) low b) more 17) As the number of inputs increases, the NAND gate delay a) increases b) decreases c) does not vary d) exponentially decreases D 18) NAND gate delay can be given as a) Tint b) Tint/n (2 n*Tint d) 2n*Tint 19) In CMOS NAND gate, p transistors are connected in d) random c) cascade b) parallel a) series 20) BiCMOS is used for fan-out. c) no d) very less b)more a) less 21) Which can handle high capacitance load? b) nMOS NAND c) CMOS NAND BICMOS NAND a) NAND 22) Which among the following is a process of transforming design entry information of the circuit into a set of logic equations? b) Optimization Synthesis d. Verification a) Simulation is the fundamental architecture block or element of a target PLD. 23) 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 c) Testing

()

b) Placement & routing

d) Extraction

25) In Net-list language, the net-list is generated synthesizing VHDL code. a) Before b) At the time of (during) d) None of the above c)After

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

by 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?

b) RTL VHDL description a) Attributes & Library

Gate-level net list c) Circuit constraints

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'. b) During a) Before 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 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 cHTigh 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 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) Att 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 diodeb. MOS transistorc. MOS switchd. All of the above

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

a. Validation

Verification

c. Simulation

d. Integration

30 50

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

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

Toppers List

H.Q.D. tessor ar Departmignature of HORience and Engs 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

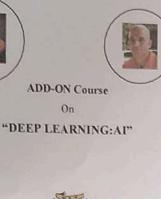
- To learn basic CMOS Circuits.
- To learn CMOS process technology
- To learn techniques of chip design using programmable devices.
- To learn the concepts of designing VLSI Subsystems.

Instructor's Signature

HOD's Signature

Professor and H.O.D. Confiment of Computer Science and Engg. httragini Institute of Technology Call UR - 577102

ADD on Program On "Deep Learning :AI"





Organized by,

Department of Computer Science and Enginering. 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 Ad&chunchanagiri 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:

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

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

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

professor and H.O.D. DepartmenPos Signaturecience and Engo Adichunchanagiri Institute of Technology CHIKMAGALUR - 577102

ncipal Signature

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:

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:

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:

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

10 Hours

10 Hours

10 Hours

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

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2	APOORVA S R	4/411403011	Apostua S.R
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3	DEEKSHA K N	4AI15C5002	Aberlant
	ABHISHEK G	4AJ15C5028	Chambert
4	CHANDANA P.H	4AI15C5051	Kaughik S.D.
5	KOUSHIK S D	4AJ15C5064	NELLO
6	NIDHI A R	4AJ15C5103	det -
7	SIDDANTH B.K	4A/16C5002	20th
8	ADYA H N	4AI16C5003	AFT
9	AGNES SANMATHI D	4AI16CS004	Alle
10	ALFIYA BANU	4AI16C5006	trange
11	ANANYA K V	4AI16CS007	Anube
12	ANUSHA K N	4AJ16C5008	Antit
13	ANUVIKA A S	4A/16CS009	friend-greente
14	ARVIND GIRISH	4AI16CS011	Batella.
15	BABITHA B	4AI16CS012	Rec
16	BHAGYASHREE H D	4AI16CS013	Breston 116
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18	BHOOMIKA K	4A/16C5015	al with
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20	BINDUSREE B R	4AI16CS017	Brush
21	BRUNDA D	4AI16C5018	chandre
22	CHANDANA H Y	4AI16CS019	chrome
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14	CHINTHANA M C	4AI16CS022	Chierag nyes.
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7	DEEPAK N R	4A/16CS024	Repiked
8	DEEPIKA D P	4A/16CS025	Bolie Cents
9	GADDI CHETAN	4AI16CS026	GAUSIAN
0	GOURAV B R	4AI16CS027	America
1	HARSHA H K	4A/16CS028	Jerschols
2	JAYASHREE	4A/16CS029	Tonion-
3	JEEVAN A S	4A/16C5023	Lahahrere
4	KALPASHREE Y	4A/16CS031	Southly not
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	KOWSHIK V	4A116CS036	Kowshik.
_	KRUTHIKA G NAYAK LEANDRA MARIA MENDON	4AI16CS037 4AI16CS038	hyuthitia ty

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6 N	AMITHA M TAPSE	4AI16CS046	Now
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10	NAYANA KS	4A/16CS048	Navan
50	NESARA B R	4AI16CS049	Ber
-	NISCHITHA K S	4AI16CS051	(Lustre)
51	NISHANTH K R	4AI16CS052	Nela
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55	POOJA B S	4AI16CS056	800
56	POOJA N K	4AI16C5057	PoridoNK
57	POOJA S	4AI16CS058	(Park)
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66	VUETHA B S	4AI17CS409	U I I I I
67	SHREYA B R	4AI16CS085	- we
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70	SIDDESH P	4A116CS088	Esd July
71	SINCHANA S B	4AI16CS089	And
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73	SNEHA K	4A/16CS091	Shide
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84	SUMANTHA M K	4A/16CS102	Sunantee
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87		4AI16CS114	Veusphan

Course Instructor Signature

ADICHE

Professop Sign Hude D. Department of Computer Science and Engg Adichunchanges Institute of Technology CHIRL ADALUR - 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	NAME	USN	T		•	Du	ring	g 18	8-00	5-20	018	to	02-0	7-20	18	12	E	Signature
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9	AGNES SANMATHI D	4AI16C5003	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	Albria boul
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11	ANANYA K V	4AI16C5006	P	A	P	A	P	P	Ρ	P	P	P	P	A	P	P	P	Harana .
12	ANUSHA K N	4AI16C5007	P	P	P	P	P	P	A	A	A	A	P	P	P	P	P	A Marilla
13	ANUVIKA A S	4A/16CS008	P	A	A	P	P	P	P	A	P	P	P	P	P	P	P	
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15	BABITHA B	4A/16CS011	P	P	A	A	P	P	P	P	P	P	A	ρ	P	P	P	Bald
16	BHAGYASHREE H D	4AI16CS012	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bragua
17	BHOOMIKA G S	4AI16CS013	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	Rous
18	BHOOMIKA K	4AJ16CS014	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	Broom
19	BINDUSHREE C	4AI16CS015	P	P	P	Þ	P	P	P	P	P	A	P	P	P	A	P	Binell
20	BINDUSREE B R	4A/16CS016	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Rap
21	BRUNDA D	4AI16CS017	D	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Diathoa
22	CHANDANA H Y	4AI16C5018	A	A	A	P	P	P	A	P	P	P	P	P	P	P	P	heart
23	CHINMAYEE	4AI16C5019	P	P	P	A	P	P	A	P	P	P	P	A	p	P	P	1stant
24	CHINTHANA M C	4AI16C5021 -	A	A	P	P	P	P	D	0	P	P	A	P	P	P	P	with
25	CHIRAG M R	4AJ16C5022	0	D	D	P	P	0	0	P	D	P	0	P	D	P	P	Unrest
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28	GADDI CHETAN	4AI16CS025	P	P	A	P	P	A	P	D	P	P	P	P	D	P	P	
29	GOURAV B R	4AI16C5026	P	P	A	P	P	D	P	P	P	p	P	P	P	P	P	house
30	HARSHA H K	4AI16C5027	A	P	8	P	P	P	0	P	0	P	D	A	P	P	P	tour
31	JAYASHREE	4A/16C5028	0	A	P	P	P	P	P	P	P	P	P	P	P	P	A	Jack
32	JEEVAN A S	4AI16C5029	P	A	P	P	P	P	P	P	P	P	P	P	P	-	11	
33	KALPASHREE Y	4AI16C5030		1.	P	1.1	P	P	-	1	P	-	P	P		P	P	Tevan
34	KARTHIK N L	4A/16C5030	P	P	P	P	P	P	P	P	-	A	1	0	p	P	P	Rencer
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37	KAVYASK	4AI16C5033	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Kura
-	KAVYASHREE C M	4AI16CS034	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Kavya.
38	KHALEEL AHAMED	4AI16C5035	P	P	A	P	P	9	P	P	P	P	P	P	A	p	P	kh li.

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3	MEGHANA D Y	4AI16CS042	P	P	P	P	p	P	P	A	P	P	P	P	P	P	P	Methands
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46	NAMITHA M TAPSE	4AI16C5046	P	P	P	P	p	P	P	P	P	P	P	A	P	P	P	Monitikation
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48	NAYANA K S	4AI16CS048	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	1400-
49	NESARA B R	4A116CS049	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	nerara
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53	P PRADEEP KUMAR	4AI16CS054	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Dreidler
54	POOJA B R	4AI16CS055	P	P	P	p	A	P	P	P	P	P	P	P	P	P	P	HEOJA
55	POOLA B S	4AI16C5056	À	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Heat
56	PODJA N K	4AI16CS057	P	P	P	P	p	P	P	P	P	P	A	P	P	P	P	\$
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67	SHREYA B R	4AI16C5085	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Liki
63	SHRIKARAN C N	4AI16C5086	P	P	A	A	P	P	P	P	P	9	R	P	P	P	P	Chit
65	SHRUTHA R JAIN	4AJ16CS087	P	P	-	P	P	P	P	P	P	P	P	P	A	P	P	siddurk
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1 March	6 SUPRIYA 5 K 7 VAISHNAVI C O	4AI16CS114	A	A		-	-	P		p	P	P	P	A	-	p	p	Vaishn

Course Instructor Signature

HOD Signature

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

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 CHIDMAGALUR - \$77 102

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 DepaDreRushpanRavikhiense and Envi AdichunchanagicolityItute of Technic CHIKMAGALUR - 577103 Professor and H.O.D. DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AIDICHUNCHANNAGIRI INSTITUTEOF TECHNOLOGY **Certificate of Participation** Sri Adichunchanagiri Shikshana Trust (R) CHIRKAMAGALURU - 577 102 Department of Computer Science and Engineering. ||Jai Sri Gurudev|| Prof. Vivekananda Staff co-ordinator N goli Prof. SJ Prashantha Staff co-ordinator

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING ADD ON COURSE NAME: DEEP LEARNING: AI COURSE CODE: 19CS_AC_013 ASSESSMENT QUESTIONS

Name of the Student: Aportva. S.R USN: HAIIHCSO12

Max Marks: 50

Which of the following is a subset of machine learning?
 A. Numpy B. SciPy 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?

. 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 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?

X A. Shallow neural network

B. Deep neural network D. Recurrent neural networks

C. Feed-forward 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 O
- 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 D. 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] D. [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 (p1, p2..pk) 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

3

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

	Which of the factors affect the performance of learner system does not include?
8) Representation scheme used b) Training scenario
0	c) Type of feedback 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 Empirical d) Logical
21	. A model of language consists of the categories which does not include?
	a) Language units b) Role structure of units System constraints d) Structural units O
22	Among the following which is not a horn clause?
	a) p $for V q$ c) $p \rightarrow q$ d) $p \rightarrow 0q$
23	Type of matrix decomposition model is
	A. predictive model D. descriptive model C.logical model D.None
24	I. PCA is
	K backward feature selectionB.forward feature selection.C. feature extractionD. None of these
25	. Supervised learning and unsupervised clustering both require which is correct according to the statement.
	M. 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
	K Ordinal B. nominal C. categorical D. Boolean
28	. Following is powerful distance metrics used by Geometric model
	A. Manhattan distance B. Euclidean distance All of above D. None of above O
29	. The output of training process in machine learning is

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
- B. 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 I. supervised learning

B. 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. exampler D. inductive C. classical

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

K. Hidden B. shallow C. Deep D. multidimensional

35. Data used to build a data mining model.

A. Training data B. hidden data U. test data D. validation data

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

A. predictive model (K. descriptive model C. reinforcement learning

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

B. observation

L'ouicome

D.attribute

38. Following are the descriptive models

A. Classification B. clustering

C. association rule

D. Both 1 and 2

()

D. all of the above

39. What does dimensionality reduction reduce?

V. 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 S. greater than two D. None	
42. Which of the following can only be used when training data are linearly separable?	
A. linear logistic regressionD. linear hard-margin svmC. linear soft margin svmD. parzen windows	
43. Impact of high variance on the training set?	1
A. underfitting D. depends upon the dataset	
44. The effectiveness of an SVM depends upon	
A. kernel parameters D. selection of kernel C. soft margin parameter D. All of the above	
45. Feature can be used as a O	
X. 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 C 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	
K. 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 <i>L</i> reinforcement learning D. None	
50. Different learning methods does not include?	
A. Deduction B. memorization C. analogy D. Introduction	

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

Add-On Course on "Deep Learning :AI"

OVER ALL Add-On Course PARTICIPANTS FEEDBACK

0

Sl.No	DESCRIPTION	EXCELLENT	GOOD	POOR
1	How would you rate the presenter's knowledge on the concept?	V	1.2 (10)	
2	How would you rate the concepts and Information provided by the Presenter?	V		
3	What was your overall impression of the session?			V
4	Remarks	Got son after a sessie	ne Kno ettending n.	wleclge the

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

- apprinte Instructor's Signature

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

ADD ON COURSE

ON

"BASICS OF SOFTWARE TESTING"



On "Basics of Software Testing"





Organized by,

Department of Computer Science and Enginering. 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 Adhichunchanagiri 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 blessings of Coffee. With the Sri. Sri. Sri. Jagadguru Nirmalanandanatha Swamiji, AIT is imparting the quality education in Engineering and Management with ethical and spiritual values. The have departments engineering

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 Visvesvaraya to affiliated is Technological University, Belagavi. The alumni of the department are reputed various working in 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 expected matches product requirements and to ensure that software product is Defect free. It involves execution of software/system or manual using components 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, Chikkamagaluru

Convenor:

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

Coordinator:

Mr. Gopinath C B, Asst Professor,

Dept. CS&E, AIT, Chikkamagaluru

ADICHUNCHAN ATRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU-577102 DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING ADD-ON Course - Basics of Software Testing Student Enrollment List

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Student Name	M D ZAHID HIISSAIN	ROHITH KIIMAP SINCH	POOLA H R	POOLAKR	PRAGATHI HEBRAR K M	PRAIWALA D E	PRAJWAL M D	PREETHI N U	PRERANA M V	PRIYANKA T M	U'K '		RANJANAA	ROHITH VINOD HUKKIERI	SADHANA P.HEBBAR	SAHANA M N	SANIAN R	SANJANA S	SANJITHA P	SHANMUKHA G C	SHARATH C D
NSN	4AI16CS041	4AI16CS069	4AI17CS062	4AI17CS063	4AI17CS064	4AI17CS065	4AI17CS066	4AI17CS069	4AI17CS070	4AI17CS071	4AI17CS072	4AI17CS074	4AI17CS075	4AI17CS076	4AI17CS077	4AI17CS078	4AI17CS080	4AI17CS081	4AI17CS082	4AI17CS083	4AI17CS084
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UMME SUHANA	ULLAS M R	THEJUS C J	TEJASHWINI B V	TEJAS M DEVANG	SYED MAQDUM C M	SWAROOP A PAWAR	SUSHMITHA R	SUJITH D S	SUHAS S GOWDA	SUCHITHA H S	SREERAKSHA TAPSE H	SPOORTHI K S	SOWMYA H L	SOUNDARYA A R	SNEHA S P	SMAYANA A C	SHRINIDHI A S	SHRESHTA K S	SHREENIKA A K	SHRAVYA J N	SHRAVANI R A	SHEEBA SUFIYAN	SHATHANIKA H V	SHASHANK S HEBBAR	SHASHANK S	SHARATH M G
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ADICHUCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING ADD ON COURSE: <u>BASICS OF SOFTWARE TESTING</u>

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

Toppers List

Signature of EOD Professor and Engg. 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: 4ATI Note: There are 50 multiple choice questions. All questions are compulsory. Each question carries 50*1=50 1. A deviation from the specified or expected behavior that is visible to end-users is called: -1a) 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. Facilities to compare test results with expected results. d) Restricted access to the source code librar 3. Test cases are designed during: Test specification c) Test planning. b) Test configuration. a) Test recording. 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 b) Test Cases written by good test engineers should be executed a) Only few tests should be run d) Testing should be on the basis of Risk c) Only Good Test Cases should be executed 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? d) Functional incrimination c) Bottom up b) Top down Big-bang 8. Test Conditions are derived from d) Specifications c) Test Data b) Test Cases a) Test Design 9. Pick the best definition of quality d) Conformance to c) Work as designed b) Zero defects a) Quality is job one requirements a) Creating a test case which does not reveal a fault (descention fiding another error condition d) Masking a fault by a tester c) Masking a fault by developer b) Tests combinations of input circumstances 11. Boundary value testing a) Is the same as equivalence partitioning tests -1 - ce) Test boundary conditions on, below and above the edges of input and output equivalence classes d) Is used in white box testing strategy

-1-	12. One Key reason why developers have difficulty testing their own work is:a) Lack of technical documentationb) Lack of test tools on the market for developer'sb) Lack of test tools on the market for developer'sc) Lack of Objectivityd) Lack of training
-1-	 13. In a review meeting a moderator is a person who: a) Takes minutes of the meeting b) Takes telephone calls c) Mediates between people d) writes the documents to be reviewed
-1-	 14. Acceptance test cases are based on what? a) Decision table b) Design c) Code d) Requirements
-1-	 15. How much testing is enough? 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
-1-	16. which of the following is the component test standard?a) IEEE 610b) IEEE 829c) BS7925-1_d) BS7925-2
-11	17. Which of the following is NOT a standard related to testing? (عربه) IEEE610 b) IEEE829 c) BS7925-1 d) BS7925-2
-1	18. The standard that gives definitions of testing terms is: a) ISO/IEC 12207 b) BS 7925-1 c) ANSI/IEEE 729 d) ANSI/IEEE 829
-17	 19. Which of the following is NOT true of incidents? 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.
-1-	 20. Which of the following is false? 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.
- - a	21. Which of the following is the odd one out? a) White boxb) Functional c) Structural d) Glass box
$\left -\frac{2}{a} \right $	2. Which of the following is a static test?) Coverage analysis b) Code inspection c) Usability assessment d) Installation test
-1 - 2: a)	3. Which of the following is a black box design technique? () statement testing b) error- guessing c) equivalence partitioning d) usability testing
-1 - 24 a)	4. Which of the following is not the integration strategy? Design based b) Bottom-up c) Big-bang d) Top-down
- a)	. Which of the following is NOT a reasonable test objective?To find faults in the softwareb) To give confidence in the softwareTo prove that the software has no faultsd) To find performance problems

26. Which of the following uses Impact Analysis most? a) Non-functional system testing b) Component testing d) Maintenance testing c) User acceptance testing 27. Expected results are: a) Only important in system testing -b) Most useful when specified in advance d) Derived from the code c) Only used in 28. What type of review requires formal entry and exit criteria, including metrics? -) ' a) Management review 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 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: b) Documentation ______ Improvements suggested by users a) Requirements d) Test cases 34. Maintenance testing is: a) Testing to maintain business advantage b) Testing a released system that has been changed) Testing by users to ensure that the system meets a business need d) Updating tests when the software has changed -1 35. Which of the following techniques is NOT a black box technique? a) State transition testing b) Syntax testing -eTLCSAJ 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 (d) User acceptance testing (d)
- -	 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.
. ۲	41. Identify the correct functional requirement. a)Robustness (b)Portability c)Maintainability d)None
-0-	42. Identify the correct measure for correctness. a)Errors per KLOC\$ per KLOC\$ per KLOC\$ optimized on the set of the set
- 1 -	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 c) Developers d)None 47. In which of the following categories can white-box testing be classified? 47. In which of the following categories can white-box testing be classified? 47. In which of the following categories can white-box testing be classified?
-1-	What m has cu workers
- -	a)Finding broken code b)A stage of the p
-+	 d)None of the above 49. Identify the environment in which we can perform alpha testing? 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 c) Both a environment testing?
-1:	50. Choose the correct option which represents the angle c) Design errors d) here a line and a line

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY CHIKKAMAGALURU

Department of Computer Science & Engineering

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

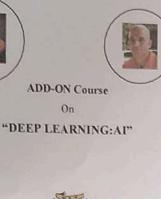
- Understand and describe the basic concepts of functional (black box) software testing.
- Identify a number of test styles and techniques and assess their usefulness in your context.
- 3. Understand the basic application of techniques used to identify useful ideas for tests.
- 4. Help determine the 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 D. Professor and H.O.D. Professor and H.O.D. Internet of Computer Science and Engg nunchanagiri Institute of Technology CHIKMAGALUR - 577102

ADD-ON Program 2021-22

ADD on Program On "Deep Learning :AI"





Organized by,

Department of Computer Science and Enginering. 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 Ad&chunchanagiri 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:

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

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

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

professor and H.O.D. DepartmenPos Signaturecience and Engo Adichunchanagiri Institute of Technology CHIKMAGALUR - 577102

ncipal Signature

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:

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:

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:

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

10 Hours

10 Hours

10 Hours

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

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2	APOORVA S R	4/411403011	Apostua S.R
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3	DEEKSHA K N	4AI15C5002	Aberlant
	ABHISHEK G	4AJ15C5028	Chambert
4	CHANDANA P.H	4AI15C5051	Kaughik S.D.
5	KOUSHIK S D	4AJ15C5064	NELLO
6	NIDHI A R	4AJ15C5103	det -
7	SIDDANTH B.K	4A/16C5002	20th
8	ADYA H N	4AI16C5003	AFT
9	AGNES SANMATHI D	4AI16CS004	Alle
10	ALFIYA BANU	4AI16C5006	trange
11	ANANYA K V	4AI16CS007	Anube
12	ANUSHA K N	4AJ16C5008	Antit
13	ANUVIKA A S	4A/16CS009	friend-greente
14	ARVIND GIRISH	4AI16CS011	Batella.
15	BABITHA B	4AI16CS012	Rec
16	BHAGYASHREE H D	4AI16CS013	Breston 116
17	BHOOMIKA G S	4A/16C5014	Bh an-
18	BHOOMIKA K	4A/16C5015	al with
19	BINDUSHREE C	4A116C5016	Conductoree. R
20	BINDUSREE B R	4AI16CS017	Brush
21	BRUNDA D	4AI16C5018	chandre
22	CHANDANA H Y	4AI16CS019	chrome
14	CHINMAYEE	4A/16C5021	Chiththank.
14	CHINTHANA M C	4AI16CS022	Chierag nyes.
6	CHIRAG M R	4AJ16CS023	Amorto U.S.
7	DEEPAK N R	4A/16CS024	Repiked
8	DEEPIKA D P	4A/16CS025	Bolie Cents
9	GADDI CHETAN	4AI16CS026	GAUSIAN
0	GOURAV B R	4AI16CS027	America
1	HARSHA H K	4A/16CS028	Jerschols
2	JAYASHREE	4A/16CS029	Tonion-
3	JEEVAN A S	4A/16C5023	Lahahrere
4	KALPASHREE Y	4A/16CS031	Southly not
(1) J	KARTHIK N L	4AI16C5032	Kavjaer
	KAVYA S	4AI16C5032 4AI16C5033	YONVA S.K.
	KAVYA S K		
-	KAVYASHREE C M	4AI16CS034	Kavyashree
	KHALEEL AHAMED	4A/16CS035	Khalled
	KOWSHIK V	4A116CS036	Kowshik.
_	KRUTHIKA G NAYAK LEANDRA MARIA MENDON	4AI16CS037 4AI16CS038	hyuthitia ty

MA	NISHA P BEERAIAH	4AI16CS040	elacida
ME	GHANA D Y	4AI16CS042	- Warres
M	OHAMMED NIHAL KHAN	4AI16CS043	alabarra khar
M	OUNAJ	4AI16CS044	toto prince to
6 N	AMITHA M TAPSE	4AI16CS046	Now
-	AVEEN P PARVATHANENI		Mante
10		4AI16CS047	Nameen.
10	NAYANA KS	4A/16CS048	Navan
50	NESARA B R	4AI16CS049	Ber
-	NISCHITHA K S	4AI16CS051	(Lustre)
51	NISHANTH K R	4AI16CS052	Nela
52	NISWARTH V SHETTY	4AI16CS053	Sunta
53	P PRADEEP KUMAR	4AI16CS054	Real Currer
54	POOJA B R	4A116CS055	65pa.
55	POOJA B S	4AI16CS056	800
56	POOJA N K	4AI16C5057	PoridoNK
57	POOJA S	4AI16CS058	(Lail)
58	POORNIMA C L	4AI16CS059	Pop Nico
59	RACHANA N VANAGUR	4AI16CS052	harboar
60	RAHULA	4AI16CS053	-tzs t
61	RAHULS	4AI16CS064	A.
62	POOJA C P	4AI16CS127	- And
63	ALFIYA SHAIK	4AI16CS13D	Alila shash
64	AMBIKA D P	4A117CS400	Alita sharly
65	SHASHIKALA S	4AI17CS407	Mabile .
66	VUETHA B S	4AI17CS409	U I I I I
67	SHREYA B R	4AI16CS085	- we
68	SHRIKARAN CN	4AI16C5086	Dr. St. 1
69	SHRUTHA R JAIN	4AI16C5087	d rulla
70	SIDDESH P	4A116CS088	Esd July
71	SINCHANA S B	4AI16CS089	And
72	SINCHANA S GOWDA	4AI16CS090	Sinches
73	SNEHA K	4A/16CS091	Shide
74	SOUMYA H	4AI16C5092	Soumette
75	SOUNDARYA GOGATE T S	4AI16C5093	Secondania -
76	SOURAB SAKLECHA	4A116CS094	Squiate I
77	SOWMYA M	4AI16CS095	Sonrth
78	SPANDANA H P	4AI16CS096	Spandana
79	SPANDANA S	4Al16CS097	Spandanas.
80	SPARSHA B R	4A/16CS098	Sperahe
81	SPOORTHI A N	4A/16CS099	- Spurcha Arr
82	SRISTI BAGAMANE	4A/16CS100	Sum
83	SRUSTI R B S	4AI16CS101	sausti
84	SUMANTHA M K	4A/16CS102	Sunantee
85	SUPRITHK .	4AI16CS103	Suporthk
86		4AI16CS104	Sunaufee Supoithk Supoithk
87		4AI16CS114	Veusphan

Course Instructor Signature

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Professop Sign Hude D. Department of Computer Science and Engg Adichunchanges Institute of Technology CHIRL ADALUR - 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	NAME	USN	T		•	Du	ring	g 18	8-00	5-20	018	to	02-0	7-20	18	12	E	Signature
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2	DEEKSHA K N	4AJ14C5026	A	P	P	P	P	-	_	P	P	P	P	P	D	P	P	Abient
3	ABHISHEK G	4AI15CS002	P	P	P	P	1	9	P	-	(100mg)	C. C	P	A	P	P	P	cherot
4 .	CHANDANA PH	4AI15C5028	P	P	9	P	P	P	P	P	P	P		A	P	P	P	(com s
5	KOUSHIK S D	4AI15CS051	P	P	P	P	P	P	P	P	P	P	A	10000000000	P	P	P	Midhoute
6	NIDHI A R	4AI15C5064	P	P	P	P	P	P	P	P	P	-	P	A	P	P	P	Siduth
7 .	SIDDANTH B K	4AI15CS103	P	P	P	P	P	P	P	A	A	A	1	P	P	100/100	P	Adyath
8	ADYA H N	4AJ16CS002	P	P	P	P	P	P	P	P	P	P	P	P	THE R. LOW	P		And Swith D
9	AGNES SANMATHI D	4AI16C5003	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	Albria boul
10	ALFIYA BANU	4AI16CS004	P	P	P	P	A	P	P	P	P	P	P	P	1		P	
11	ANANYA K V	4AI16C5006	P	A	P	A	P	P	Ρ	P	P	P	P	A	P	P	P	Harana .
12	ANUSHA K N	4AI16C5007	P	P	P	P	P	P	A	A	A	A	P	P	P	P	P	A Marilla
13	ANUVIKA A S	4A/16CS008	P	A	A	P	P	P	P	A	P	P	P	P	P	P	P	
14	ARVIND GIRISH	4AI16CS009	P	P	P	P	P	P	P	P	P	P	P	A	A	P	A	A grave what int
15	BABITHA B	4A/16CS011	P	P	A	A	P	P	P	P	P	P	A	ρ	P	P	P	Bald
16	BHAGYASHREE H D	4AI16CS012	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Bragua
17	BHOOMIKA G S	4AI16CS013	P	P	P	P	P	P	P	A	A	A	P	P	P	P	P	Rous
18	BHOOMIKA K	4AJ16CS014	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	Broom
19	BINDUSHREE C	4AI16CS015	P	P	P	Þ	P	P	P	P	P	A	P	P	P	A	P	Binell
20	BINDUSREE B R	4A/16CS016	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P	Rap
21	BRUNDA D	4AI16CS017	D	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Diathoa
22	CHANDANA H Y	4AI16C5018	A	A	A	P	P	P	A	P	P	P	P	P	P	P	P	heart
23	CHINMAYEE	4AI16C5019	P	P	P	A	P	P	A	P	P	P	P	A	p	P	P	1stant
24	CHINTHANA M C	4AI16C5021 -	A	A	P	P	P	P	D	0	P	P	A	P	P	P	P	with
25	CHIRAG M R	4AJ16C5022	0	D	D	P	P	0	0	P	D	P	0	P	D	P	P	Unrest
26	DEEPAK N R	4AI16C5023	0	P	P	P	P	P	D	P	P	0	P	P	A	P	0	Devor
27	DEEPIKA D P	4AI16CS024	P	A	P	P	A	p	0	P	P	0	0	P	A	P	P	Recon
28	GADDI CHETAN	4AI16CS025	P	P	A	P	P	A	P	D	P	P	P	P	D	P	P	
29	GOURAV B R	4AI16C5026	P	P	A	P	P	D	P	P	P	p	P	P	P	P	P	house
30	HARSHA H K	4AI16C5027	A	P	8	P	P	P	0	P	0	P	D	A	P	P	P	taur
31	JAYASHREE	4A/16C5028	0	A	P	P	P	P	P	P	P	P	P	P	P	P	A	Jack
32	JEEVAN A S	4AI16C5029	P	A	P	P	P	P	P	P	P	P	P	P	P	-	11	
33	KALPASHREE Y	4AI16C5030		1.	P	1.1	P	P	-	1	P	-	P	P		P	P	Tevan
34	KARTHIK N L	4A/16C5030	P	P	P	P	P	P	P	P	-	A	1	0	p	P	P	Rencer
35	KAVYAS		1	A	1	P	10.000	1	P	1	9	P	P	1	P	P	P	Fasther
36		4AI16C5032	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	kanaya
37	KAVYASK	4AI16C5033	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P	Kura
-	KAVYASHREE C M	4AI16CS034	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	Kavya.
38	KHALEEL AHAMED	4AI16C5035	P	P	A	P	P	9	P	P	P	P	P	P	A	p	P	kh li.

	KOWSHIK V	4AI16CS036	P	P	P	P	P	p	P	P	P	P	P	A	P	P	P	Kat
0	KRUTHIKA G NAYAK	4AI16CS037	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Kuut.
1	LEANDRA MARIA MENDON	4AI16C5038	A	P	P	P	p	P	P	P	P	A	A	P	P	P	р	Leant
2	MANISHA P BEERAIAH	4AI16CS040	A	P	P	P	P	ρ	P	P	P	P	P	P	P	P	P	masse
3	MEGHANA D Y	4AI16CS042	P	P	P	P	p	P	P	A	P	P	p	P	P	P	P	Methands
14	MOHAMMED NIHAL KHAN	4AI16CS043	A	P	9	P	P	P	P	ρ	P	P	Ρ	P	P	A	P	Nehbull
15	MOUNAJ	4A116CS044	P	P	P	P	P	P	P	A	P	P	P	A	ρ	P	P	Mober
46	NAMITHA M TAPSE	4AI16C5046	P	P	P	P	p	P	P	P	P	P	P	A	P	P	P	Monifilitatio
47	NAVEEN P PARVATHANENI	4AI16C\$047	P	P	P	P	P	P	P	P	P	P	A	P	ρ	P	P	Naveen
48	NAYANA KS	4AI16CS048	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	1400-
49	NESARA B R	4A116CS049	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	nerara
50	NISCHITHA K S	4A116CS051	Ð	D	P	P	P	P	P	P	P	P	P	P	P	P	P	Num
51	NISHANTH K.R.	4A116CS052	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	Alishaush
52	NISWARTH V SHETTY	4AI16C5053	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	ALR GOL
53	P PRADEEP KUMAR	4AI16CS054	A	P	P	0	P	P	P	P	P	P	P	P	P	P	P	Dreedler
54	POOJA B R	4AI16CS055	P	P	P	p	A	P	P	P	P	P	P	P	P	P	P	HEDjar
55	POOLA B S	4AI16C5056	A	P	P	P	P	P	P	A	P	P	P	P	P	P	P	Hast
56	PODJA N K	4AI16CS057	P	P	P	P	p	P	P	P	P	P	A	P	P	P	P	\$
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59	RACHANA N VANAGUR	4AI16CS062	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P-	hor
60		4AI16C5063	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	Kenthi
61	RAHULS	4AJ16CS064	A	A	P	P	P	P	P	P	P	P	A	P	P	P	P	Ohn
62	POOJA C P	4AI16CS127	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	POOTA -
63		4AI16C5130	P	P	P	A	P	P	P	P	P	A	P	A	P	P	P	Ale
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65	5 SHASHIKALA S	4AI17CS407	P	P	A	P	P	P	P	P	P	P	P	P	P	A	ρ	40
66	VUETHA B S	4AI17C5409	P	P	P	P	P	A	P	P	P	P	P	P	P	P	ρ	sea
67	7 SHREYA B R	4AI16C5085	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	Liki
63	SHRIKARAN C N	4AI16CS086	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	Chift
65	9 SHRUTHA R JAIN	4AJ16CS087	P	P	P	P	P	P	P	P	9	P	P	P	A	P	P	siddul
71	0 SIDDESH P	4AI16C5088	. P	P		P	P	P	P	P	P	P	P	P	P	P	ρ	Sincha
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70		4AI16CS094	P	P	1	P	D	P	P	P	P	P	P	D	P	A	P	Berny
7		4AI16CS095	P	P		D	P	P	P	P	P	A	A	P	P	P	P	Spandain
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8		4AI16C5104	0	p	-	-	1000	1		A	A	A	A	P	P	P	P	R
1 March	6 SUPRIYA S K 7 VAISHNAVI C O	4AI16CS114	A	-		-	-	P	-	p	P	P	P	A	-	p	p	Vashn

Course Instructor Signature

HOD Signature

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

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 CHIDMAGALUR - \$77 102

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 DepaDreRushpanRavikhiense and Envi AdichunchanagicolityItute of Technic CHIKMAGALUR - 577103 Professor and H.O.D. DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AIDICHUNCHANNAGIRI INSTITUTEOF TECHNOLOGY **Certificate of Participation** Sri Adichunchanagiri Shikshana Trust (R) CHIRKAMAGALURU - 577 102 Department of Computer Science and Engineering. ||Jai Sri Gurudev|| Prof. Vivekananda Staff co-ordinator N goli Prof. SJ Prashantha Staff co-ordinator

ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY, CHIKKAMAGALURU DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING ADD ON COURSE NAME: DEEP LEARNING: AI COURSE CODE: 19CS_AC_013 ASSESSMENT QUESTIONS

Name of the Student: Aportva. S.R USN: HAIIHCSO12

Max Marks: 50

Which of the following is a subset of machine learning?
 A. Numpy B. SciPy 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?

. 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 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?

X A. Shallow neural network

B. Deep neural network D. Recurrent neural networks

C. Feed-forward 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 O
- 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 D. 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] D. [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 (p1, p2..pk) 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

3

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

	Which of the factors affect the performance of learner system does not include?
8	b) Training scenario
C	c) Type of feedback
9	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 (Empirical d) Logical
21	. A model of language consists of the categories which does not include?
	a) Language units b) Role structure of units System constraints d) Structural units O
2:	Among the following which is not a horn clause?
	a) p $p \lor q$ c) $p \to q$ d) $p \to 0q$
23	Type of matrix decomposition model is
	A. predictive model B. descriptive model C.logical model D.None
2-	I. PCA is
	K. backward feature selectionB. forward feature selection.C. feature extractionD. 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
	K Ordinal B. nominal C. categorical D. Boolean
28	. Following is powerful distance metrics used by Geometric model
	A. Manhattan distance B. Euclidean distance All of above D. None of above O
29	. The output of training process in machine learning is

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
- B. 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 I. supervised learning

B. 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. exampler D. inductive C. classical

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

K. Hidden B. shallow C. Deep D. multidimensional

35. Data used to build a data mining model.

A. Training data B. hidden data U. test data D. validation data

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

A. predictive model (K. descriptive model C. reinforcement learning

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

B. observation

L'ouicome

D.attribute

38. Following are the descriptive models

A. Classification B. clustering

C. association rule

D. Both 1 and 2

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D. all of the above

39. What does dimensionality reduction reduce?

V. 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 S. greater than two D. None	
42. Which of the following can only be used when training data are linearly separable?	
A. linear logistic regressionD. linear hard-margin svmC. linear soft margin svmD. parzen windows	
43. Impact of high variance on the training set?	1
A. underfitting D. depends upon the dataset	
44. The effectiveness of an SVM depends upon	
A. kernel parameters D. selection of kernel C. soft margin parameter D. All of the above	
45. Feature can be used as a O	
X. 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 C 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	
K. 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 <i>L</i> . reinforcement learning D. None	
50. Different learning methods does not include?	
A. Deduction B. memorization C. analogy D. Introduction	

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

Add-On Course on "Deep Learning :AI"

OVER ALL Add-On Course PARTICIPANTS FEEDBACK

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Sl.No	DESCRIPTION	EXCELLENT	GOOD	POOR
1	How would you rate the presenter's knowledge on the concept?	V	1.2 (10)	
2	How would you rate the concepts and Information provided by the Presenter?	V		
3	What was your overall impression of the session?			V
4	Remarks	Got son after a sessie	ne Kno ettending n.	wleclge the

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

- apprinte Instructor's Signature

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

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1	4AI15CS051	KOUSHIK S D
2	4AI15CS103	SIDDANTH BK
3	4AI16CS008	ANUVIKA A S
4	4AI16CS011	BABITHA B
5	4AI16CS012	BHAGYASHREE H D
6	4AI16CS021	CHINTHANA M C
7	4AI16CS023	DEEPAK N R
8	4AI16CS025	GADDI CHETAN
9	4AI16CS027	HARSHA H K
10	4AI16CS028	JAYASHREE H M
11	4AI16CS030	KALPASHREE Y
12	4AI16CS031	KARTHIK N L
13	4AI16CS036	KOWSHIK V
14	4AI16CS037	KRUTHIKA G NAYAK
15	4AI16CS040	MANISHA P BEERAIAH
16	4AI16CS042	MEGHANA D Y
17	4AI16CS047	NAVEEN P PARVATHANENI
18	4AI16CS048	NAYANA K S
19	4AI16CS051	NISCHITHA K S
20	4AI16CS054	P PRADEEP KUMAR
21	4AI16CS056	POOJA B S

		d Application Development
SL.NO		"B" SECTION
1	USN	NAME
2	4AI14CS092	SHREYAS C B
3	4AI15CS063	NAVANEETH G D
4	4AI15CS102	SHUSHMA N GOWDA
5	4AI15CS112	SUMAN V H
	4AI16CS065	RAKESHT
6	4AI16CS066	RAMANANDA S BHAT
7	4AI16CS067.	RAMYA R
8	4AI16CS068	RAMYASHREE C A
9	4AI16CS078	SANJANA J
10	4AI16CS079	SANJANA R
11	4AI16CS082	SHARATH K R
12	4AI16CS086	SHRIKARAN C N
13	4AI16CS087	SHRUTHA R JAIN
14	4AI16CS088	SIDDESH P
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16	4AI16CS095	SOWMYA M
17	4AI16CS099	SPOORTHI A N
18	4AI16CS101	SRUSTI R B S
19	4AI16CS102	SUMANTHA M K
20	4AI16CS103	SUPRITH K
21	4AI16CS104	SUPRIYA S K
22	4AI16CS105	SURYA C P
23	4AI16CS106	SUSHMA S
24	4AI16CS107	SUSHMITHA C S
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2	4AI16CS119	VEDA B
3	4AI16CS120	VEEKSHITH GOWDA Y M
14	4AI16CS121	VIKAS BHARADWALH C
5	4AI16CS122	VINDYA KOPPAD
36	4AI16CS123	VIVEKANANDA A M
37	4AI16CS126	TASHASWINI K
38	4AI16CS129	CHITRA R M
39	4AI16CS128	SHREYA K V
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4	VIII "B	" SECTION
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2	4AI16CS070	ROJAKS
3	4AI16CS072	SADVI N B
4	4AI16CS073	SAHANA DESAI
5	4AI16CS074	
6	4AI16CS075	SAMRUDDHI D K
7	4AI16CS076	SAMRUDH PATEL D M
8	4AI16CS077	SAMRUDHI H R
9	4AI16CS080	SANDESH S
10	4AI16CS081	SANJANA R G
11	4AI16CS085	SAVEENA M M
12	4AI16CS089	SHREYA B R
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15	4AI16CS092	SNEHA K
16	4AI16CS092	SOUMYA H
17	4AI16CS096	SOURAB SAKLECHA
18	4AI16CS097	SPANDANA H P
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20	4AI16CS100	SPARSHA B R
21	4AI16CS108	SRISTI BAGAMANE SWATHI B S
22	4AI16CS113	VAISHNAVI A R
23	4AI16CS114	VAISHNAVI A R
24	4AI16CS117	VARUNAS
25	4AI16CS118	VATSALYA H V
26	4AI16CS125	YASHASWINI C
27	4AI17CS402	DEEPAIM
28	4AI17CS408	SHREELAKSHMI M

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Date: 07 / 03 / 2020

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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

NEL- G

(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 constitutions by providing them smart technology solutions. Since Country and the state is the bishest level of integrity. Capitus recinologies is a rivate Linited Software Firm helping companies, industries, institutions and government manage complexities in the operations by providing them smart technology solutions. Since founding, Capulus Technologies has always believed in the highest level of integrity, followed a people-oriented approach, and given back to the society whenever possible. Capulus Technologies will continue to follow the principle of "elient first" in providing reliable and highly effective services. Our protective technologies will continue to follow the principle of Capulus Technologies Private Limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the private limited by the private limited is the private limited by the p Capulus Technologies Private Limited is the company which developed the official app of Karnataka State Police which has been implemented state-wide across Karnataka.

wide across Naturata, 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 Recognized Government under StartUp India initiative and has received a Certificate of Recognition.

Toppers in Add - On Course Test

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Advances in machine Learning:

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	4AI16CS031	21
	Name Karthik N L	Name 05/V

Signature of the HOD

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

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Department of CS & E, AIT, Chikkamagaluru Add on Course Test Advances in MACHINE LEARNING

- 1. In Machine Learning if Answers' and 'Data'are given as input, what will we get as output?
 - b. Machine Learning
 - Rules
 - d. Answers
- 2. What is the process in which weinstruct a computer what the data represents (i.e. data is for walking, data is for runningetc.,)
 - a. Categorizing the Data
 - . 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
 - A. Measures how good the current guess is

5. What does the optimizer do?

- 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?

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- a. The unknown word in the ML class
- . The process of getting very close to the correct answer
 - c. A dramatic increase in loss
 - d. A programming API for AI

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
 - g. To make it classify 10x faster
 - d. To make it train 10x faster

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(i.e. data is for walking, data is for runningete)
a. Categorizing the Data
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'hat does that mean?
d be 3 Convolutional Layers
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

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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
- 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

- . 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

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- Va. 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

USN: 4AI16CS 117

Name of the Student : VARUN. A. S

Marks Awarded :





ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY Sri Adichunchanagiri Shikshana Trust ® CHIKKAMAGALURU-577102 ||Jai Sri Gurudev||

COMPUTER SCIENCE & ENGINEERING CERTIFICATE OF APPRECIATION DEPARTMENT OF

This is to certify that Mr./Ms.

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

Executive Director Capulus Technologies,

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Chikkamagaluru

HOD, Dept. of CS&E AIT,Chikkamagluru

Principal AIT, Chikkamagaluru

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COMPUTER SCIENCE & ENGINEERING CERTIFICATE OF APPRECIATION CHIKKAMAGALURU-577102 DEPARTMENT OF

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.

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Executive Director Capulus Technologies, Chikkamagaluru

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HOD, Dept. of CS&E AIT,Chikkamagluru

Principal AIT, Chikkamagaluru

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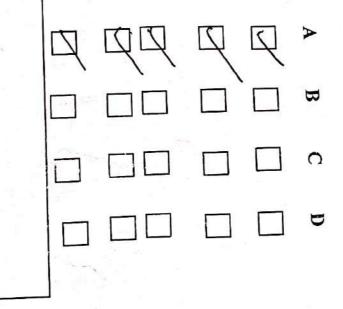
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Particulars

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- 3. Was the content of Presentation relevant and current?
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- 6. Comments and Suggestions:





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

D: Satisfactory

Signature adul

Advance In Machine Learning					
VIII "A" SECTION					
L.NO	USN	NAME			
1	4AI15CS051	KOUSHIK S D			
2	4AI15CS103	SIDDANTH BK			
3	4AI16CS008	ANUVIKA A S			
4	4AI16CS011	BABITHA B			
5	4AI16CS012	BHAGYASHREE H D			
6	4AI16CS021	CHINTHANA M C			
7	4AI16CS023	DEEPAK N R			
8	4AI16CS025	GADDI CHETAN			
9	4AI16CS027	HARSHA H K			
10	4AI16CS028	JAYASHREE H M			
11	4AI16CS030	KALPASHREE Y			
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13	4AI16CS036	KOWSHIK V			
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18	4AI16CS048	NAYANA K S			
19	4AI16CS051	NISCHITHA K S			
20	4AI16CS054	P PRADEEP KUMAR			
21	4AI16CS056	POOJA B S			

		d Application Development
SL.NO		"B" SECTION
1	USN	NAME
2	4AI14CS092	SHREYAS C B
3	4AI15CS063	NAVANEETH G D
4	4AI15CS102	SHUSHMA N GOWDA
5	4AI15CS112	SUMAN V H
	4AI16CS065	RAKESHT
6	4AI16CS066	RAMANANDA S BHAT
7	4AI16CS067.	RAMYA R
8	4AI16CS068	RAMYASHREE C A
9	4AI16CS078	SANJANA J
10	4AI16CS079	SANJANA R
11	4AI16CS082	SHARATH K R
12	4AI16CS086	SHRIKARAN C N
13	4AI16CS087	SHRUTHA R JAIN
14	4AI16CS088	SIDDESH P
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17	4AI16CS099	SPOORTHI A N
18	4AI16CS101	SRUSTI R B S
19	4AI16CS102	SUMANTHA M K
20	4AI16CS103	SUPRITH K
21	4AI16CS104	SUPRIYA S K
22	4AI16CS105	SURYA C P
23	4AI16CS106	SUSHMA S
24	4AI16CS107	SUSHMITHA C S
.5	4AI16CS109	SWATHI S
6	4AI16CS110	THATPRANA J S
7	4AI16CS111	THRUPTHI L C
8	4AI16CS112	TULASIDAS M NAIK
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4	4AI16CS122	VIKAS BHARADWAJ H G
5	4AI16CS123	VINDYA KOPPAD
6	4AI16CS126	VIVEKANANDA A M
7	4AI16CS129	TASHASWINI K
8	4AI16CS128	CHITRA R M
9	4AI17CS405	SHREYA K V SARIKA T C

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1	4AI16CS039	MADHUMITHA K M		
2	4AI16CS070	ROJAKS		
3	4AI16CS072	SADVI N B		
4	4AI16CS073	SAHANA DESAI		
5	4AI16CS074			
6	4AI16CS075	SAMRUDDHI D K		
7	4AI16CS076	SAMRUDH PATEL D M		
8	4AI16CS077	SAMRUDHI H R		
9	4AI16CS080	SANDESH S		
10	4AI16CS081	SANJANA R G		
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23	4AI16CS114	VAISHNAVI C O		
24	4AI16CS117	VARUNAS		
25	4AI16CS118	VATSALYA H V		
26	4AI16CS125	YASHASWINI C		
27	4AI17CS402	DEEPAIM		
28	4AI17CS408	SHREELAKSHMI M		

CAPULUS TECHNOLOGIES PRIVATE LIMITED

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CIN U72900KA2017PTC103203 Ph: +91 8262 - 298089

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Date: 07 / 03 / 2020

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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

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(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 constitutions by providing them smart technology solutions. Since Country and the state is the bishest level of integrity. Capitus recinologies is a rivate Linited Software Firm helping companies, industries, institutions and government manage complexities in the operations by providing them smart technology solutions. Since founding, Capulus Technologies has always believed in the highest level of integrity, followed a people-oriented approach, and given back to the society whenever possible. Capulus Technologies will continue to follow the principle of "elient first" in providing reliable and highly effective services. Our protective technologies will continue to follow the principle of Capulus Technologies Private Limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the company which developed the efficience of the private limited is the private limited by the private limited is the private limited by the p Capulus Technologies Private Limited is the company which developed the official app of Karnataka State Police which has been implemented state-wide across Karnataka.

wide across Naturata, 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 Recognized Government under StartUp India initiative and has received a Certificate of Recognition.

Toppers in Add - On Course Test

Advances in Android Application Development:

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Advances in machine Learning:

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Name	USN	MARKS OBTAINED
	4AI16CS031	21
	Name Karthik N L	Name 05/V

Signature of the HOD

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

Advance In Machine Learning				
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Department of CS & E, AIT, Chikkamagaluru Add on Course Test Advances in MACHINE LEARNING

- 1. In Machine Learning if Answers' and 'Data'are given as input, what will we get as output?
 - b. Machine Learning
 - Rules
 - d. Answers
- 2. What is the process in which weinstruct a computer what the data represents (i.e. data is for walking, data is for runningetc.,)
 - a. Categorizing the Data
 - . 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
 - A. Measures how good the current guess is

5. What does the optimizer do?

- 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?

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- a. The unknown word in the ML class
- . The process of getting very close to the correct answer
 - c. A dramatic increase in loss
 - d. A programming API for AI

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
 - g. To make it classify 10x faster
 - d. To make it train 10x faster

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a. For a value x, it returns 1/x	1.9.273
a. For a value x, it returns 1/x, manual 11/2	vepartment of Co & E
and a funde my it foturing fra	and the second second
 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 	" Visiting 1 anening if A new ore' and 'Data'a
c. It only returns x if x is greater than zero	a max on clinent n protoci manati a
d. It fotunts the negative of x	
11. Why do you split data into training and test sets?	gnime Learning
va. To test a network with previously unseen data	N Rules
b. To train a network with previously unseen data	d. Answers
d. To make testing quicker	(i.e. data is for walking, data is for runningete
12. What method gets called when an epoch finish?	a. Categoriving the Data
a. on_epoch_finished()	A Labelling the Data
v. on_epoch_end()	nun orthogen auf anti-
c. On_training_complete()	stad and gain and the
d. on_end()	Standing is a Dense in heros?
13. What parameter do you set in your fit-function to use	callbacks?
a. callback=[]	CONTRACTOR CONTRACTOR AND
b. oncallback=[]	enous de la compacta
Vc. callbacks=[]	
d. oncallbacks=[]	
14. What is a Convolution?	
a. A technique to make images smaller	strandar built
A technique to filter out unwanted images	al genus talent. " - "
c. A technique to isolate features in imagesd. A technique to make images bigger	All and the second s
15. What is a Pooling?	and all prove the stands of the second se
a. A technique to make images sharper	
b. A technique to isolate features in images	
A technique to reduce the information in an image whi	le maintaining features
d. A technique to combine picture	in maintaining reatures
16. After max pooling a 26x26 image with a 2x2 filter, how	big will the output be?
a. 28x28	g ine output be.
0 b. $26x2656x56$	
V. V. V. V.	A set of the
d. 13x13	
17. Using Image Generator, how do you label images?	
a. It's based on the file name	
0 b. It's based on the directory the image is contained in	
c. You have to manually do it	
A. TensorFlow figures it out from the contents	
18. What method on the Image Generator is used to normal	lize the image?
normalize=	
0 c. Rescale_image=	
d. rescale=	
19. When we specify the input_shape to be (300, 300, 3), what a. There will be 300 images each size 200 it with the state of the state	at does that mean?
and a start of the start start start and loaded in the	1 0-
A U. Every image will be 300x300 pixels and there should be	
U c. Every Image will be 300x300 pixels, with 3 bytes to de	fine 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

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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
- 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

- . 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

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- Va. 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

USN: 4AI16CS 117

Name of the Student : VARUN. A. S

Marks Awarded :





ADICHUNCHANAGIRI INSTITUTE OF TECHNOLOGY Sri Adichunchanagiri Shikshana Trust ® CHIKKAMAGALURU-577102 ||Jai Sri Gurudev||

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Executive Director Capulus Technologies,

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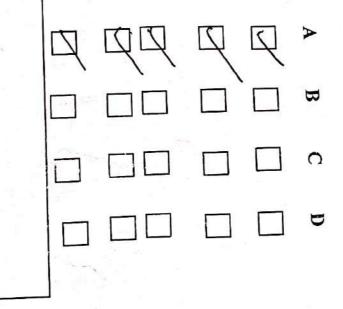
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ADD-ON Program 2021-22