



KSIT
K. S. INSTITUTE OF TECHNOLOGY

Kammavari Sangham(R)-1952

K. S. INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi. Affiliated to VTU, Belagavi, Karnataka. Accredited by NACC & NBA (Dept. of CSE, ECE, ME)

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109

Tel : 28435722 / 724 E-mail : principal@ksit.edu.in Web : www.ksit.edu.in

ONLINE CERTIFICATION COURSES 2021-22

SL NO.	NAME	COURSE	SIGNATURE
1	AKIF DELVI	GOOGLE ANALYTICS BEGINNERS	Akif delvi
2	VAISHNAVI.G	RINEX INTERNSHIP CERTIFICATE/2021	Varshana
3	KRISHNA.KR	LAUNCHING INTO MACHINE LEARNING	Krishna.KR
4	THANUSHREE.S	ARTIFICIAL INTELLIGENCE PROGRAM	Thansu
5	AMRUTHA.KH	USING DATABASE WITH PHYTHON	Amrutha
6	AMRUTHA HARSHAN	SQL(BASIC)	Amrutha
7	NEELAM SALI	BACKEND WEB DEV WITH NODEJS	Neelam
8	VARUNKAMBALI	BUILD A FACE RECOGNITION APPLICATION USING PHYTHON	Varun
9	KEERTHAN GOWDA.S	PROGRAMMING FOR EVERYBODY(GETTING STARTED WITH PHYTHON)	Gowda S
10	DEEPA.G	ALGORITHMIC TOOLBOX	Deepa
11	AMOGHA HS	PROGRAMMING FOUNDATION WITH JAVASCRIPTS,HTML AND CSS	Amogha
12	PREETHI K	PROGRAMMING FOR EVERYBODY(GETTING STARTED WITH PHYTHON)	Preethi k
13	JHISHNU.S	MACHINE LEARNING WITH DATA SCIENCE IN SUMMER INTERNSHIP PROGRAMME	Jhishnu.S
14	AMULYA .R	DATA ANALYSTICS WITH PYTHON COURSE	Amulya
15	AMULYA .R	PYTHON PROGRAMMING COURSE	Amulya
16	AMULYA .R	ARTIFICIAL INTELLIGENCE COURSE	Amulya
17	KRUPA .A	SENSOR ACTUATORS	Krupa
18	KRUPA .A	CLOUDE COMPUTING	Krupa
19	ADITI	DATA SCIENCE PROGRAMM	Aditi
20	ADITI	DATA SCIENCE PROGRAMM AT RINEX	Aditi
21	V.VARSHA	ROBOTICS WITH TECHNOOK	Varsha
22	UDAY .C.H	DATA SCIENCE PROGRAMM	Uday.C.H.


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K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109

Python Programming

Date of Conduction: 23-5-2022 to 28-5-2022

Venue: KSIT COLLEGE

Time: 9.00 AM TO 4.00 PM

Duration: 6 days

Sponsoring Bodies / Associating Organization: Nil

Expert Details – Dr. Surekha Borra, Prof. Pravven

Objectives / Key Highlights: To understand why Python is a useful scripting language for developers. To learn how to design and program Python applications. To learn how to use lists, tuples, and dictionaries in Python programs. To learn how to identify Python object types.

Participant details – 4th ,6th , 8th Semester students of ECE 331 students



Introduction to Python Programming

- Why do we need Python?
- Program structure in Python

Execution steps

- Interactive Shell
- Executable or script files.
- User Interface or IDE

Memory management and Garbage collections

- Object creation and deletion
- Object properties

Data Types and Operations

- Numbers
- Strings
- List
- Tuple
- Dictionary
- Other Core Types

Statements and Syntax in Python

- Assignments, Expressions and prints
- If tests and Syntax Rules
- While and For Loops
- Iterations and Comprehensions

File Operations

- Opening a file
- Using Files
- Other File tools

Functions in Python

- Function definition and call
- Function Scope
- Arguments
- Function Objects
- Anonymous Functions

Modules and Packages

- Module Creations and Usage
- Module Search Path
- Module Vs. Script
- Package Creation and Importing

Classes in Python

- Classes and instances
- Classes method calls
- Inheritance and Compositions
- Static and Class Methods
- Bound and Unbound Methods

- Operator Overloading
- Polymorphism

Exception Handling in Python Programming

- Default Exception Handler
- Catching Exceptions
- Raise an exception
- User defined exception

Advanced Python Concepts

- Decorators
- Generators
- Iterators
- Co-routines

Standard Library Modules

Exercises

Roadmap with Python

Outcomes / Benefits:

- 1. Career opportunities:** Python is in high demand in the tech industry, so learning it can open up job opportunities in fields such as web development, data science, machine learning, and more.
- 2. Problem-solving skills:** Python's readability and simplicity make it a great language for learning the fundamentals of programming and problem-solving.
- 3. Automation:** Python is often used for tasks such as automating repetitive processes, data analysis, and scripting, which can save time and increase efficiency.
- 4. Collaboration:** Python's extensive libraries and frameworks make it a popular choice for collaborative projects, allowing developers to work together on various applications and systems.
- 5. Versatility:** Python can be used for a wide range of applications, from web development to scientific computing, making it a valuable skill in many different fields.

Overall, learning Python can lead to increased career opportunities, improved problem-solving skills, and the ability to work on a wide variety of projects.

CO/PO&P SO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
	3	3	2	3	3	3						3	2	2


HEAD OF THE DEPARTMENT
 Dept. of Electronics & Communication Engg.
 K.S. Institute of Technology
 Bengaluru - 560 109.


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32	1KS20EC036	HARSHITHA N	Hk	Hk	Hk	Hk	Hk	Hk
33	1KS20EC037	INCHARA.P	Inchara	Inchara	Inchara	Inchara	Inchara	Inchara
34	1KS20EC038	JAMPULA CHAITHANYA KRISHNA	Jk	Jk	Jk	Jk	Jk	Jk
35	1KS20EC039	JAMUNA S G	Jamuna	Jamuna	Jamuna	Jamuna	Jamuna	Jamuna
36	1KS20EC040	JANHAVI R	Janhavi	Janhavi	Janhavi	Janhavi	Janhavi	Janhavi
37	1KS20EC041	JAYANTH H	Jayanth	Jayanth	Jayanth	Jayanth	Jayanth	Jayanth
38	1KS20EC042	K.JEEVITHA	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha	Jeevitha
39	1KS20EC043	K M AMSHUMANATH	Amshumanath	Amshumanath	Amshumanath	Amshumanath	Amshumanath	Amshumanath
40	1KS20EC045	KAVANA.G.S	Kavana	Kavana	Kavana	Kavana	Kavana	Kavana
41	1KS20EC046	KAVYA S M	Kavya	Kavya	Kavya	Kavya	Kavya	Kavya
42	1KS20EC047	KEERTHANA.B.S	Keerthana	Keerthana	Keerthana	Keerthana	Keerthana	Keerthana
43	1KS20EC048	KIRAN DEV D	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran
44	1KS20EC049	KIRAN V NARAYAN	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran
45	1KS20EC050	KODIDELA PRATHIMA	Kodidela	Kodidela	Kodidela	Kodidela	Kodidela	Kodidela
46	1KS20EC051	KUMAR K G	Kumar	Kumar	Kumar	Kumar	Kumar	Kumar
47	1KS20EC052	KUSUMA V R	Kusuma	Kusuma	Kusuma	Kusuma	Kusuma	Kusuma

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36	1KS20EC092	SHAKTHI ANBAZHAGAN M	Shakthi	Shakthi	Shakthi	Shakthi	Shakthi	Shakthi
37	1KS20EC093	SHARATH M	Sharath	Sharath	Sharath	Sharath	Sharath	Sharath
38	1KS20EC094	SHASHANK S	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank
39	1KS20EC095	SHIVAREDDY B A	Shivarreddy	Shivarreddy	Shivarreddy	Shivarreddy	Shivarreddy	Shivarreddy
40	1KS20EC096	SHREYA H PADMANABHA	Shreya	Shreya	Shreya	Shreya	Shreya	Shreya
41	1KS20EC097	SHREYAS M S	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
42	1KS20EC098	SHREYAS P S RAO	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
43	1KS20EC099	SHWETA DEEPAK K	Shweta	Shweta	Shweta	Shweta	Shweta	Shweta
44	1KS20EC101	SONIKA.R	Sonika	Sonika	Sonika	Sonika	Sonika	Sonika
45	1KS20EC102	SUMANA N	Sumana	Sumana	Sumana	Sumana	Sumana	Sumana
46	1KS20EC103	SUMUKHA S	Sumukha	Sumukha	Sumukha	Sumukha	Sumukha	Sumukha
47	1KS20EC104	SURAKSHA N	Suraksha	Suraksha	Suraksha	Suraksha	Suraksha	Suraksha
48	1KS20EC105	TARUN PRASANNA	Tarun	Tarun	Tarun	Tarun	Tarun	Tarun
49	1KS20EC106	TEJAS N REDDY	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
50	1KS20EC107	THUMMALA GIRISH CHOWDARY	Girish	Girish	Girish	Girish	Girish	Girish
51	1KS20EC108	UDAY C H	Uday	Uday	Uday	Uday	Uday	Uday
52	1KS20EC109	UJJWAL NAIDU	Ujjwal	Ujjwal	Ujjwal	Ujjwal	Ujjwal	Ujjwal
53	1KS20EC110	VAISHNAVI A	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
54	1KS20EC111	VAISHNAVI V H	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
55	1KS20EC112	VARSHA N	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha
56	1KS20EC113	VIJAYALAKSHMI K	Vijayalakshmi	Vijayalakshmi	Vijayalakshmi	Vijayalakshmi	Vijayalakshmi	Vijayalakshmi
57	1KS20EC114	VINAY S P	Vinay	Vinay	Vinay	Vinay	Vinay	Vinay
58	1KS20EC115	VINAY SAGAR V ALUR	Vinay	Vinay	Vinay	Vinay	Vinay	Vinay
59	1KS20EC116	VINEETH M S	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth
60	1KS20EC117	YASHILAA S	Yashilaa	Yashilaa	Yashilaa	Yashilaa	Yashilaa	Yashilaa
61	1KS20EC118	YASHWANTH Y	Yashwanth	Yashwanth	Yashwanth	Yashwanth	Yashwanth	Yashwanth
62	1KS21EC401	SUDEEP V	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep	Sudeep


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Python Programming

ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER)

Dept / Branch : ECE

VI SEM A SECTION

SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
1	1KS19EC001	ABHILASH A S	AS	AS	AS	AS	AS	AS
2	1KS19EC002	ABHISHEK CHANDRESH	AJ	AJ	AJ	AJ	AJ	AJ
3	1KS19EC003	AISHWARYA BASAVARAJ KEMBAVI	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya	Aishwarya
4	1KS19EC004	AISHWARYA M G	MA	MA	MA	MA	MA	MA
5	1KS19EC005	AKSHAY KUMAR D	Akshay	Akshay	Akshay	Akshay	Akshay	Akshay
6	1KS19EC006	AKSHITHA	AK	AK	AK	AK	AK	AK
7	1KS19EC007	AMRUTA	Amruta	Amruta	Amruta	Amruta	Amruta	Amruta
8	1KS19EC008	AMULYA R	Amulya	Amulya	Amulya	Amulya	Amulya	Amulya
9	1KS19EC009	ANITHA S	Anitha	Anitha	Anitha	Anitha	Anitha	Anitha
10	1KS19EC010	ANJALI Y J	AJ	AJ	AJ	AJ	AJ	AJ
11	1KS19EC011	ARCHANA YADAV M	Ach	Ach	Ach	Ach	Ach	Ach
12	1KS19EC012	ASHRITHA R	Ash.R	Ash.R	Ash.R	Ash.R	Ash.R	Ash.R
13	1KS19EC013	BHARATH KUMAR R	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
14	1KS19EC014	BHAVANA S	Bhavana	Bhavana	Bhavana	Bhavana	Bhavana	Bhavana
15	1KS19EC015	CHAITRA P	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra	Chaitra
16	1KS19EC016	CHANDAN RAJ Y	Ch	Ch	Ch	Ch	Ch	Ch
17	1KS19EC017	CHANDANA.L	chand	chand	chand	chand	chand	chand
18	1KS19EC018	CHENNREDDY RAJASEKHAR	Chen	Chen	Chen	Chen	Chen	Chen
19	1KS19EC019	CHIRANTHANA YOGANANDA K	yogo	yogo	yogo	yogo	yogo	yogo
20	1KS19EC020	D NAYAN	Nayan	Nayan	Nayan	Nayan	Nayan	Nayan
21	1KS19EC021	DANESH RAJU V	D	D	D	D	D	D
22	1KS19EC022	DAVINO JOSEPH	D	D	D	D	D	D
23	1KS19EC023	DHANYA SUKANTH B K	D	D	D	D	D	D
24	1KS19EC024	DHEEMANTH K N	Dhe	Dhe	Dhe	Dhe	Dhe	Dhe
25	1KS19EC025	DISHA SHIVANI	Disha	Disha	Disha	Disha	Disha	Disha
26	1KS19EC026	ERAM FATHIMA	Eram	Eram	Eram	Eram	Eram	Eram
27	1KS19EC027	GAYATHRI P K	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri	Gayathri
28	1KS19EC028	GAYATHRI R WARRIER	Gay	Gay	Gay	Gay	Gay	Gay
29	1KS19EC029	GONUGUNTLA SAI SIDDARTHA	Sai	Sai	Sai	Sai	Sai	Sai
30	1KS19EC030	GOWRI S NADIGER	Gowri	Gowri	Gowri	Gowri	Gowri	Gowri
31	1KS19EC031	HARSHA R	H	H	H	H	H	H
32	1KS19EC032	HARSHITHA B Y	Harshitha	Harshitha	Harshitha	Harshitha	Harshitha	Harshitha
33	1KS19EC033	HEMANTH.R.PATIL	H	H	H	H	H	H
34	1KS19EC034	HIMA SWETHA S	Hima	Hima	Hima	Hima	Hima	Hima
35	1KS19EC035	JAGRUTI PAI	J	J	J	J	J	J
36	1KS19EC036	JAYANTH M B	J	J	J	J	J	J

37	1KS19EC037	KAMMA MANUBOLU MANOGNA	Manogna	Manogna	Manogna	Manogna	Manogna	Manogna
38	1KS19EC038	KARTHIK K	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
39	1KS19EC039	KASHYAP.P	Kashyap	Kashyap	Kashyap	Kashyap	Kashyap	Kashyap
40	1KS19EC040	KRUPA.A	Krupa	Krupa	Krupa	Krupa	Krupa	Krupa
41	1KS19EC041	KRUTHI K S	Kruthi	Kruthi	Kruthi	Kruthi	Kruthi	Kruthi
42	1KS19EC042	LAKSHMAN KUMARA B	Lakshman	Lakshman	Lakshman	Lakshman	Lakshman	Lakshman
43	1KS19EC043	LIKITHA.H	Likitha	Likitha	Likitha	Likitha	Likitha	Likitha
44	1KS19EC044	M LOKESHWARI	M Lokeshwari	M Lokeshwari	M Lokeshwari	M Lokeshwari	M Lokeshwari	M Lokeshwari
45	1KS19EC045	MANU N KANDRA	Manu	Manu	Manu	Manu	Manu	Manu
46	1KS19EC046	MEGHANA H P	Meghana	Meghana	Meghana	Meghana	Meghana	Meghana
47	1KS19EC047	MOHAMMAD RAKHEEB M R	Mohammad	Mohammad	Mohammad	Mohammad	Mohammad	Mohammad
48	1KS19EC048	MOHITH KUMAR G	Mohith	Mohith	Mohith	Mohith	Mohith	Mohith
49	1KS19EC049	MONIKA V ARYA	Monika	Monika	Monika	Monika	Monika	Monika
50	1KS19EC050	MONISHA.B.K	Monisha	Monisha	Monisha	Monisha	Monisha	Monisha
51	1KS19EC051	N ANILA	Anila	Anila	Anila	Anila	Anila	Anila
52	1KS19EC052	NIDHI S	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi	Nidhi
53	1KS19EC053	NISARGA K	Nisarga	Nisarga	Nisarga	Nisarga	Nisarga	Nisarga
54	1KS19EC054	NITHIN D	Nithin	Nithin	Nithin	Nithin	Nithin	Nithin
55	1KS19EC055	PAVAN KUMAR G R	Pavan	Pavan	Pavan	Pavan	Pavan	Pavan
56	1KS19EC056	POKURI MOUNIKA	Pokuri	Pokuri	Pokuri	Pokuri	Pokuri	Pokuri
57	1KS19EC057	POOJA S P	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
58	1KS19EC058	PRADEEP GADED	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep
59	1KS19EC059	PRAKASH CHEGORE	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash
60	1KS19EC061	PRASHANTH.S.K	Prashanth	Prashanth	Prashanth	Prashanth	Prashanth	Prashanth
61	1KS19EC062	PRAVEEN KUMAR N	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
62	1KS19EC063	PREETHAM G H	Preetham	Preetham	Preetham	Preetham	Preetham	Preetham
63	1KS19EC064	PRIYANKA K	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
64	1KS19EC065	RADHA KRISHNA L	Radha	Radha	Radha	Radha	Radha	Radha
65	1KS19EC066	RAJALAKSHMI S	Rajalakshmi	Rajalakshmi	Rajalakshmi	Rajalakshmi	Rajalakshmi	Rajalakshmi

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PYTHON PROGRAMMING

ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER)

DEPT / BRANCH : ECE

VI SEM B SECTION

SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
1	1KS19EC067	RAMYASREE R	Ramyasree	Ramyasree	Ramyasree	Ramyasree	Ramyasree	Ramyasree
2	1KS19EC068	RANGASWAMY.U	Ranga	Ranga	Ranga	Ranga	Ranga	Ranga
3	1KS19EC069	ROHAN K R	Rohan	Rohan	Rohan	Rohan	Rohan	Rohan
4	1KS19EC070	S K BHARATESH	S K	S K	S K	S K	S K	S K
5	1KS19EC071	SABARISH I J	Sabarish	Sabarish	Sabarish	Sabarish	Sabarish	Sabarish
6	1KS19EC072	SAHANA K S	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana
7	1KS19EC073	SAHANA S	Sahana	Sahana	Sahana	Sahana	Sahana	Sahana
8	1KS19EC074	SAI PRIYA T S	Sai Priya	Sai Priya	Sai Priya	Sai Priya	Sai Priya	Sai Priya
9	1KS19EC075	SAMIKSHA S	Samiksha	Samiksha	Samiksha	Samiksha	Samiksha	Samiksha
10	1KS19EC076	SANTOSH HEGDE	Santosh	Santosh	Santosh	Santosh	Santosh	Santosh
11	1KS19EC077	SATHVIK U M	Sathvik	Sathvik	Sathvik	Sathvik	Sathvik	Sathvik
12	1KS19EC078	SHAMITHA BIJOUR	Shamitha	Shamitha	Shamitha	Shamitha	Shamitha	Shamitha
13	1KS19EC079	SHASHANK KASHYAP H R SHIVARAMA	Shashank	Shashank	Shashank	Shashank	Shashank	Shashank
14	1KS19EC080	KRISHNA K P	Shiva	Shiva	Shiva	Shiva	Shiva	Shiva
15	1KS19EC081	SHREYAMS D K	Shreya	Shreya	Shreya	Shreya	Shreya	Shreya
16	1KS19EC082	SHREYAS B.ARADHYA	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
17	1KS19EC083	SHREYAS GOWDA	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
18	1KS19EC084	SHREYAS V BHARADWAJ	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas	Shreyas
19	1KS19EC085	SHOBHAM KUMAR SINGH A	Shobham	Shobham	Shobham	Shobham	Shobham	Shobham
20	1KS19EC086	SINCHANA M N	Sinchana	Sinchana	Sinchana	Sinchana	Sinchana	Sinchana
21	1KS19EC087	SRINIVAS S	Srinivas	Srinivas	Srinivas	Srinivas	Srinivas	Srinivas
22	1KS19EC088	SRINIVASAN M	Srinivasan	Srinivasan	Srinivasan	Srinivasan	Srinivasan	Srinivasan
23	1KS19EC089	SRIRAM	Sriram	Sriram	Sriram	Sriram	Sriram	Sriram
24	1KS19EC090	SUHAS.M	Suhas	Suhas	Suhas	Suhas	Suhas	Suhas
25	1KS19EC092	SUMUKHA VASISHTA M R	Sumukha	Sumukha	Sumukha	Sumukha	Sumukha	Sumukha
26	1KS19EC093	SUSHMITHA S	Sushmitha	Sushmitha	Sushmitha	Sushmitha	Sushmitha	Sushmitha
27	1KS19EC094	SWAGATH AITHAL P G	Swagath	Swagath	Swagath	Swagath	Swagath	Swagath
28	1KS19EC095	SWATHI U	Swathi	Swathi	Swathi	Swathi	Swathi	Swathi
29	1KS19EC096	T N L RUTHVIK	T N L	T N L	T N L	T N L	T N L	T N L
30	1KS19EC097	TEJASHWINI P V	Tejashwini	Tejashwini	Tejashwini	Tejashwini	Tejashwini	Tejashwini
31	1KS19EC098	THEERTHANA S R	Theerth	Theerth	Theerth	Theerth	Theerth	Theerth
32	1KS19EC099	TUSHAR R VASISHTA	Tushar	Tushar	Tushar	Tushar	Tushar	Tushar
33	1KS19EC100	VAISHNAVI K	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
34	1KS19EC101	VANDANA G	Vandana	Vandana	Vandana	Vandana	Vandana	Vandana
35	1KS19EC102	VANDANA S	Vandana	Vandana	Vandana	Vandana	Vandana	Vandana
36	1KS19EC103	VIGNESH MUTHAIAH R	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh
		VIKAS G	Vikas	Vikas	Vikas	Vikas	Vikas	Vikas

SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
38	1KS19EC105	VINUTH S REDDY	<i>reddy</i>	<i>reddy</i>	<i>reddy</i>	<i>reddy</i>	<i>reddy</i>	<i>reddy</i>
39	1KS19EC106	VISHAL SANJAY RAJU	<i>Be</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>
40	1KS19EC107	VISHNU RAATA YADUNANDAN	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>	<i>V</i>
41	1KS19EC108	YASHASWINI N	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>	<i>Yash</i>

Principals

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K.S.INSTITUTE OF TECHNOLOGY

14, RAGHUVANAHALLI, KANAKAPURA MAIN ROAD, BENGALURU-560109

PYTHON PROGRAMMING

ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER)

DEPT / BRANCH : ECE

VIII SEM A SECTION

SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
1	1KS18EC001	A N BHOO MIKA CHOWDARY	AP	AP	AP	AP	AP	AP
2	1KS18EC002	ABHISHEK.V	Abhi	Abhi	Abhi	Abhi	Abhi	Abhi
3	1KS18EC003	ADITHI.S	Aditi	Aditi	Aditi	Aditi	Aditi	Aditi
4	1KS18EC004	AISHWARYA BANDIGANI	Aish	Aish	Aish	Aish	Aish	Aish
5	1KS18EC005	AISHWARYA R	Aish	Aish	Aish	Aish	Aish	Aish
6	1KS18EC006	AKASH R	Ak	Ak	Ak	Ak	Ak	Ak
7	1KS18EC007	AKHILA V	Akh	Akh	Akh	Akh	Akh	Akh
8	1KS18EC008	ANAGHA S	Anag	Anag	Anag	Anag	Anag	Anag
9	1KS18EC009	ANANYA ANANTH	Ananya	Ananya	Ananya	Ananya	Ananya	Ananya
10	1KS18EC010	ASHRITHA S C	Ash	Ash	Ash	Ash	Ash	Ash
11	1KS18EC011	AYEESHA RUMAN	Ayesha	Ayesha	Ayesha	Ayesha	Ayesha	Ayesha
12	1KS18EC012	C A SUSHMA	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma
13	1KS18EC013	C M CHAITHANYA VARDHAN	Chait	Chait	Chait	Chait	Chait	Chait
14	1KS18EC014	CHANDAN Y C	Chan	Chan	Chan	Chan	Chan	Chan
15	1KS18EC015	CHARAN.G	Char	Char	Char	Char	Char	Char
16	1KS18EC016	CHINNAPU CHARAN TEJA REDDY	Ch	Ch	Ch	Ch	Ch	Ch
17	1KS18EC017	CHITHRITHA G R	Chitra	Chitra	Chitra	Chitra	Chitra	Chitra
18	1KS18EC018	DARSHAN V	Dar	Dar	Dar	Dar	Dar	Dar
19	1KS18EC019	DARSHAN S	Darsh	Darsh	Darsh	Darsh	Darsh	Darsh
20	1KS18EC020	DEEKSHA S N	Dee	Dee	Dee	Dee	Dee	Dee
21	1KS18EC021	DEEPTHI ANDANI	Deep	Deep	Deep	Deep	Deep	Deep
22	1KS18EC022	DHANUSHREE C	Dhan	Dhan	Dhan	Dhan	Dhan	Dhan
23	1KS18EC023	DHEERAJ M S	Dhee	Dhee	Dhee	Dhee	Dhee	Dhee
24	1KS18EC024	DHRITHIRHUTH RAJANNA	Dh	Dh	Dh	Dh	Dh	Dh
25	1KS18EC025	DINESH KUMAR NAYAK	Din	Din	Din	Din	Din	Din
26	1KS18EC026	DIVAKARBABU Y	Dv	Dv	Dv	Dv	Dv	Dv
27	1KS18EC027	G.J.NITHIN	Niti	Niti	Niti	Niti	Niti	Niti
28	1KS18EC028	GANESH P	Gan	Gan	Gan	Gan	Gan	Gan

SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
29	1KS18EC029	GOKUL G	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul
30	1KS18EC030	HARSH SHARMA	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh
31	1KS18EC031	HARSHITHA S	Harsh	Harsh	Harsh	Harsh	Harsh	Harsh
32	1KS18EC032	JAHNAVI A P	Jah	Jah	Jah	Jah	Jah	Jah
33	1KS18EC033	JANHAVI K P	Jah	Jah	Jah	Jah	Jah	Jah
34	1KS18EC034	JHANA VI	Jhavi	Jhavi	Jhavi	Jhavi	Jhavi	Jhavi
35	1KS18EC035	JISHNU S	Jish	Jish	Jish	Jish	Jish	Jish
36	1KS18EC036	JYOTSNA B UPADHYE	Jyots	Jyots	Jyots	Jyots	Jyots	Jyots
37	1KS18EC037	K RISHIKA RAVI	KR	KR	KR	KR	KR	KR
38	1KS18EC038	KARISHMA M	Ka	Ka	Ka	Ka	Ka	Ka
39	1KS18EC039	KOMALA K V	Komal	Komal	Komal	Komal	Komal	Komal
40	1KS18EC040	LAVANYA M	Lavany	Lavany	Lavanya	Lavanya	Lavanya	Lavanya
41	1KS18EC041	M.NIHITHA YADAV	NH	NH	NH	NH	NH	NH
42	1KS18EC042	MAHANTH SAI M	MS	MS	MS	MS	MS	MS
43	1KS18EC043	MANOJ G S	Mano	Mano	Mano	Mano	Mano	Mano
44	1KS18EC044	MEGHA R	Megh	Megh	Megha	Megha	Megha	Megha
45	1KS18EC045	MEGHANA B S	Megha	Megha	Megha	Megha	Megha	Megha
46	1KS18EC046	MEGHANA GOWDA V	MG	MG	MG	MG	MG	MG
47	1KS18EC047	MOHAMMED FAIZAN SHAFI	MF	MF	MF	MF	MF	MF
48	1KS18EC048	MONISHA B R	MB	MB	MB	MB	MB	MB
49	1KS18EC049	N S V JASHWANTH	Jash	Jash	Jash	Jash	Jash	Jash
50	1KS18EC050	NAGA OMKAR N	Naga	Naga	Naga	Naga	Naga	Naga
51	1KS18EC051	NAGASHREE A	Nagash	Nagash	Nagash	Nagash	Nagash	Nagash
52	1KS18EC052	NAMITH R	Namit	Namit	Namit	Namit	Namit	Namit
53	1KS18EC053	NAVYA M S	Navya	Navya	Navya	Navya	Navya	Navya
54	1KS18EC054	NIHARIKA S A	Niharika	Niharika	Niharika	Niharika	Niharika	Niharika
55	1KS18EC055	NIROSHA G J	Niro	Niro	Niro	Niro	Niro	Niro
56	1KS18EC056	NISHANTH J RAO	Nish	Nish	Nish	Nish	Nish	Nish
57	1KS18EC057	P SAI GOVARDHAN	Sai	Sai	Sai	Sai	Sai	Sai
58	1KS18EC058	PARIKSHITH S	Parik	Parik	Parik	Parik	Parik	Parik

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PYTHON PROGRAMMING

ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER)

DEPT / BRANCH : ECE

VIII TH SEM B SECTION

SI.NO	USN	STUDENT NAME	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
1	1KS16EC005	AKASH CHANDRAPPA GURUVANNAVAR	Akash	Akash	Akash	Akash	Akash	Akash
2	1KS18EC060	POOJA S	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
3	1KS18EC061	PRAKRUTHI S H	Prakruthi	Prakruthi	Prakruthi	Prakruthi	Prakruthi	Prakruthi
4	1KS18EC063	PUNEETH M	Puneeth	Puneeth	Puneeth	Puneeth	Puneeth	Puneeth
5	1KS18EC064	PURUSHOTHAM V R	Purush	Purush	Purush	Purush	Purush	Purush
6	1KS18EC066	RAGHAVENDRA.K.P	Raghu	Raghu	Raghu	Raghu	Raghu	Raghu
7	1KS18EC067	RAGHU B T	Raghu	Raghu	Raghu	Raghu	Raghu	Raghu
8	1KS18EC068	RAJ KRISHNA	Raj	Raj	Raj	Raj	Raj	Raj
9	1KS18EC069	RAJATH S BHUSHAN	Rajath	Rajath	Rajath	Rajath	Rajath	Rajath
10	1KS18EC070	RAM BHADUR MAHARA	Ram	Ram	Ram	Ram	Ram	Ram
11	1KS18EC071	RASETTY SANDEEP	Rase	Rase	Rase	Rase	Rase	Rase
12	1KS18EC073	RITHVIK P	RP	RP	RP	RP	RP	RP
13	1KS18EC074	S MANOJ	SM	SM	SM	SM	SM	SM
14	1KS18EC075	S RAHUL	SR	SR	SR	SR	SR	SR
15	1KS18EC076	S TUSHAR HARINATH	Tushar	Tushar	Tushar	Tushar	Tushar	Tushar
16	1KS18EC077	SAGAR T C	Sagar	Sagar	Sagar	Sagar	Sagar	Sagar
17	1KS18EC078	SANJANA B	San	San	San	San	San	San
18	1KS18EC079	SANKET B PASCHAPURI	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket
19	1KS18EC080	SHASHANK H K	Shash	Shash	Shash	Shash	Shash	Shash
20	1KS18EC081	SHEETAL N GOWDA	Sheetal	Sheetal	Sheetal	Sheetal	Sheetal	Sheetal
21	1KS18EC082	SHIVA SHANKAR.B	Shiv	Shiv	Shiv	Shiv	Shiv	Shiv
22	1KS18EC083	SHREYA V DEV	Shreya	Shreya	Shreya	Shreya	Shreya	Shreya
23	1KS18EC084	SHREYAS C	Sh	Sh	Sh	Sh	Sh	Sh
24	1KS18EC085	SHREYAS D R	Sh	Sh	Sh	Sh	Sh	Sh
25	1KS18EC086	SHRIKANTH C K	Sh	Sh	Sh	Sh	Sh	Sh
26	1KS18EC087	SIRI RAVINATH	Siri	Siri	Siri	Siri	Siri	Siri
27	1KS18EC088	SIRISHA.M	Sirisha	Sirisha	Sirisha	Sirisha	Sirisha	Sirisha
28	1KS18EC090	SOMASHEKAR M	S	S	S	S	S	S

SI.NO	USN	STUDENT NAME	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
29	1KS18EC091	SUDHEER B	Sud	Sud	Sud	Sud	Sud	Sud
30	1KS18EC092	SUJAY R	Sup	Sup	Sup	Sup	Sup	Sup
31	1KS18EC093	SUPRIYA S	Sup	Sup	Sup	Sup	Sup	Sup
32	1KS18EC094	SURAJ V GHORPADE	Sur	Sur	Sur	Sur	Sur	Sur
33	1KS18EC095	SUSHMA.A.V	Su	Su	Su	Su	Su	Su
34	1KS18EC096	SUSHMITHA R	Su	Su	Su	Su	Su	Su
35	1KS18EC097	THANUSH R S	Tha	Tha	Tha	Tha	Tha	Tha
36	1KS18EC098	THANUSHREE D	Tha	Tha	Tha	Tha	Tha	Tha
37	1KS18EC099	VAISHNAVI G	Va	Va	Va	Va	Va	Va
38	1KS18EC100	VAKKALA GADDA ANIL	VGA	VGA	VGA	VGA	VGA	VGA
39	1KS18EC101	VANDANA K	Va	Va	Va	Va	Va	Va
40	1KS18EC102	VARSHINI.B.M	Var	Var	Var	Var	Var	Var
41	1KS18EC103	VASANTH PAI.M	Va	Va	Va	Va	Va	Va
42	1KS18EC104	VIJAY BABU K	VB	VB	VB	VB	VB	VB
43	1KS18EC105	VINAY K	Va	Va	Va	Va	Va	Va
44	1KS18EC106	VINAY S	Vs	Vs	Vs	Vs	Vs	Vs
45	1KS18EC108	VISHAL MADHUSUDAN	Vish	Vish	Vish	Vish	Vish	Vish
46	1KS18EC109	VISHWAS P	VP	VP	VP	VP	VP	VP
47	1KS18EC110	VIVEKGOWDA J	Viv	Viv	Viv	Viv	Viv	Viv
48	1KS18EC111	VRINDHA SHAM BHATT	VSR	VSR	VSR	VSR	VSR	VSR
49	1KS19EC400	HEMANTHA V	Hem	Hem	Hem	Hem	Hem	Hem
50	1KS19EC401	KARTHIK B P	Kar	Kar	Kar	Kar	Kar	Kar
51	1KS19EC402	KRISHNAPRASAD B	KP	KP	KP	KP	KP	KP
52	1KS19EC403	NAVEEN G	Ng	Ng	Ng	Ng	Ng	Ng
53	1KS19EC405	PRUTHVI DINESH	Pruth	Pruth	Pruth	Pruth	Pruth	Pruth
54	1KS19EC406	RAGHOTHAM C G	Rag	Rag	Rag	Rag	Rag	Rag
55	1KS19EC407	SADANA M	Sad	Sad	Sad	Sad	Sad	Sad
56	1KS19EC408	SINDHU G	Sin	Sin	Sin	Sin	Sin	Sin
57	1KS19EC409	VARSHA M S	Va	Va	Va	Va	Va	Va

Signature



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A Report on Value Added Course Parametric Design Optimization of Machine Components Using Ansys Workbench

Date of Conduction: 23-05-2022 to 28-05-2022

Venue: K S Institute of Technology

Time: 9.00 AM TO 4.00 PM

Duration: 6 days

Sponsoring Bodies/Associating Organization: Nil

Expert Details: Prof. Nagabhushana M, Prof. Ranganath N, Prof. Anilkumar A

Description of the Event:

Introduction: The 6-day value-added course on "Parametric Design Optimization of Machine Components Using Ansys Workbench" aimed to equip participants with practical skills and knowledge to optimize machine component designs effectively. This report provides an overview of the course objectives, content, methodology, outcomes, and participant feedback.

Objectives:

- To introduce participants to the fundamentals of Ansys Workbench software.
- To educate participants on parametric design optimization techniques.
- To enable participants to apply optimization methods to machine component designs.
- To enhance participants' proficiency in utilizing simulation tools for engineering applications.

Course Content: The course curriculum spanned six days and included the following key components:

- Day 1: Introduction to Ansys Workbench and its capabilities.
- Day 2: Fundamentals of parametric design optimization.
- Day 3: Setting up design parameters and constraints.
- Day 4: Utilizing Ansys tools for finite element analysis (FEA).
- Day 5: Optimization algorithms and their applications.
- Day 6: Case studies and practical examples for optimization of machine components.

Methodology: The course employed a blend of theoretical lectures, hands-on workshops, and interactive discussions. Participants were provided access to Ansys Workbench software for practical exercises. Experienced instructors guided participants through each session, ensuring understanding and skill development.

Participant Feedback: Feedback from participants was overwhelmingly positive:

- Participants appreciated the structured approach of the course, which gradually built upon foundational concepts.
- The hands-on workshops were cited as the most valuable aspect of the course, providing practical experience and reinforcing theoretical knowledge.
- Some participants suggested extending the course duration to delve deeper into certain topics and accommodate additional practical exercises.

Participants details –6thSemester students of Mechanical Engineering-43students



Conclusion:

The 6-day value-added course on "Parametric Design Optimization of Machine Components Using Ansys Workbench" successfully equipped participants with essential skills and knowledge to optimize machine component designs effectively. The course methodology, combining theoretical learning with hands-on practice, proved highly effective in facilitating comprehension and skill development. Further iterations of the course could consider expanding certain topics and incorporating more advanced exercises to cater to diverse participant needs.

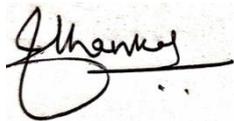
Course Outcomes:

- Participants gained a comprehensive understanding of Ansys Workbench and its application in machine component design optimization.
- Proficiency in setting up design parameters, constraints, and conducting optimization analyses improved significantly among participants.

- Participants acquired the ability to interpret optimization results and make informed design decisions based on simulation data.
- Hands-on practice sessions enhanced participants' confidence in utilizing Ansys Workbench for real-world engineering problems.

CO/PO&PSO-Mapping:

CO/PO&PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	3	3	3	3	3	3						3	3	3

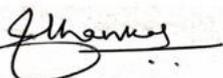


Dr. Umashankar Professor
& Head ME Dept



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41	IKS19ME037	VAISHNAV H												
42	IKS19ME039	VENKATRAMANA G BHAT												
43	IKS19ME040	ZAFFAR ABDULLAH SHEIKH												


Dr. Umashankar
Professor & Head ME Dept


Dr. Dilip Kumar K
Principal & Director



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109

A Report on Value Added Course

Usage of Genetic algorithms(Matlab) in optimization of Mechanical Engineering Problems

Date of Conduction: 6-6-2022 To 11-06-2022

Venue: K S Institute of Technology

Time: 9.00 AM TO 4.00 PM

Duration: 6 days

Sponsoring Bodies / Associating Organization: Nil

Expert Details – Prof. Nagabhushana M, Prof. Ranganath N, Prof. Anilkumar A

Description of the Event:

Introduction:

The 6-day value-added course on the utilization of Genetic Algorithms (GA) in the optimization of Mechanical Engineering problems was conducted with the aim of providing participants with practical knowledge and hands-on experience in employing genetic algorithms for solving optimization problems in mechanical engineering. The course utilized Matlab as the primary tool for implementing and simulating genetic algorithms.

Day 1: Introduction to Genetic Algorithms

The first day of the course provided an overview of genetic algorithms, including their basic principles, terminology, and applications in optimization. Participants learned about the encoding of solutions, fitness functions, selection operators, crossover, mutation, and termination criteria. Practical examples and case studies were discussed to illustrate the concepts.

Day 2: Matlab Basics for Genetic Algorithms

On the second day, participants were introduced to the basics of Matlab programming language relevant to genetic algorithms. Topics covered included data types, arrays, loops, conditional statements, and functions. Participants also learned how to implement simple genetic algorithms in Matlab and how to visualize the optimization process.

Day 3: Advanced Genetic Algorithm Techniques

The third day delved into advanced techniques and strategies for enhancing the performance of genetic algorithms. Topics included elitism, adaptive parameters, niche formation, and hybridization with other optimization methods. Participants gained insights into selecting appropriate parameters and fine-tuning

genetic algorithms for specific optimization problems.

Day 4: Optimization of Mechanical Engineering Problems

Day four focused on applying genetic algorithms to solve optimization problems commonly encountered in mechanical engineering. Participants learned how to formulate engineering optimization problems, define objective functions, and constraints. Practical examples included optimization of structural designs, parameter estimation, and optimal control problems.

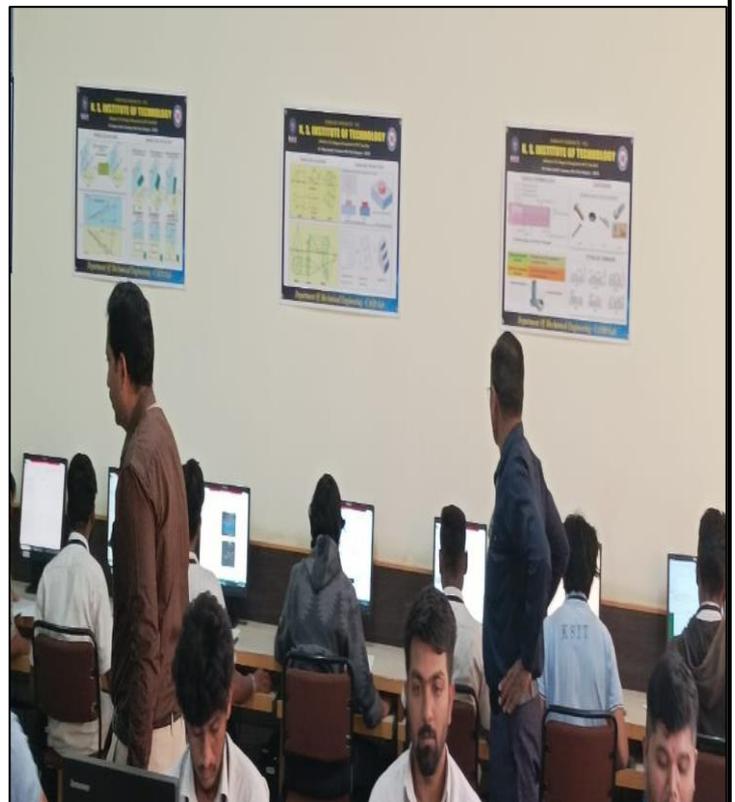
Day 5: Hands-on Sessions and Case Studies

The fifth day was dedicated to hands-on sessions where participants worked on implementing genetic algorithms to solve real-world mechanical engineering optimization problems using Matlab. Case studies and projects were assigned, allowing participants to apply their knowledge and skills to solve challenging optimization problems under the guidance of instructors.

Day 6: Project Presentations and Conclusion

On the final day, participants presented their projects and findings to the instructors and fellow participants. The presentations provided an opportunity for participants to showcase their understanding of genetic algorithms and their application to mechanical engineering optimization problems. Feedback and discussions were conducted to consolidate learning outcomes and address any remaining questions or concerns.

Participant details – 4th Semester students of Mechanical Engineering -11 students



Conclusion:

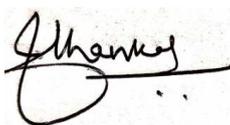
The 6-day value-added course on the usage of Genetic Algorithms (Matlab) in optimization of Mechanical Engineering Problems provided participants with comprehensive knowledge and practical skills to apply genetic algorithms effectively in solving optimization problems in mechanical engineering. Through lectures, hands-on sessions, and case studies, participants gained a deeper understanding of genetic algorithms and their application to real-world engineering problems, equipping them with valuable tools for research and professional practice in the field of mechanical engineering optimization.

Course Outcomes:

1. Understanding of genetic algorithms and their principles in optimization.
2. Proficiency in implementing genetic algorithms using Matlab.
3. Ability to formulate and solve optimization problems in mechanical engineering using genetic algorithms.
4. Knowledge of advanced genetic algorithm techniques for enhancing optimization performance.
5. Application of genetic algorithms to real-world mechanical engineering problems.
6. Hands-on experience through practical exercises, case studies, and project work.
7. Presentation skills and ability to communicate findings effectively.
8. Enhanced problem-solving skills applicable to various domains within mechanical engineering.

CO/PO&PSO-Mapping:

CO/PO&P SO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS O
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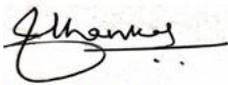


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6	1KS20ME006	SHALINI D S	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh
7	1KS20ME007	SHREYAS.S.K	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh	Sh
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11	1KS21ME402	VINEETH P	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth	Vineeth



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Principal & Director



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A Report on Value Added Course

Reverse Engineering Concepts and Structural Analysis of Mechanical Engineering Problems

Date of Conduction: 25-04-2022 to 30-04-2022

Venue: K S Institute of Technology

Time: 9.00 AM TO 4.00 PM

Duration: 6 days

Sponsoring Bodies/Associating Organization: Nil

Expert Details—Prof. Nagabhushana M, Prof. Anilkumar A, Prof. Harish U

Description of the Event:

Introduction:

The 6-day value-added course on "Reverse Engineering Concepts and Structural Analysis of Mechanical Engineering Problems" aimed to provide students with intensive training in advanced skills related to reverse engineering and structural analysis methodologies. This report outlines the objectives, curriculum, methodologies, and outcomes of the course.

Objectives:

1. To introduce students to the principles and techniques of reverse engineering.
2. To familiarize students with structural analysis methods used in mechanical engineering.
3. To enhance students' problem-solving skills through practical applications of reverse engineering and structural analysis.

Day 1: Introduction to Reverse Engineering

- Basics of reverse engineering
- Applications in mechanical engineering
- Tools and software used in reverse engineering

Day 2: Reverse Engineering Process

- Disassembly and analysis of mechanical components
- Reconstruction techniques
- Measurement and data acquisition methods

Day 3: Structural Analysis Fundamentals

- Stress and strain analysis
- Finite Element Analysis (FEA) principles
- Material properties and their effects on structural behaviour

Day 4: Advanced Structural Analysis

- Static and dynamic analysis
- Fatigue analysis
- Failure analysis and prevention strategies

Day 5: Practical Applications

- Case studies and real-world examples
- Hands-on exercises using CAD software for reverse engineering
- Structural analysis projects on mechanical components and systems

Day 6: Project Presentation and Review

- Students present their projects
- Feedback and discussion on projects
- Recap and conclusion of the course

Methodologies:

The course employed a mix of lectures, demonstrations, hands-on sessions, and projects to engage students actively. Each day consisted of theoretical sessions in the morning followed by practical sessions in the afternoon, where students applied the concepts learned through software tools and projects. Instructors provided guidance and feedback throughout the course.

Participant details – 8th Semester students of Mechanical Engineering-91 students



Conclusion:

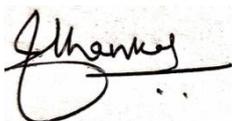
The 6-day value-added course on Reverse Engineering Concepts and Structural Analysis of Mechanical Engineering Problems provided students with intensive training in advanced engineering skills. Through a well-structured curriculum, hands-on exercises, and practical projects, students acquired a comprehensive understanding of the subject matter and developed the necessary skills to excel in their future careers. The course was successful in achieving its objectives and preparing students for the challenges of the industry.

Course Outcomes:

1. **Comprehensive Understanding:** Students gained a thorough understanding of reverse engineering concepts and structural analysis methodologies through intensive theoretical and practical sessions.
2. **Skill Development:** Hands-on exercises and projects helped students develop practical skills in using software tools for reverse engineering and structural analysis, enhancing their employability.
3. **Problem-Solving Proficiency:** The course improved students' problem-solving abilities by challenging them to apply reverse engineering and structural analysis techniques to solve real-world mechanical engineering problems.
4. **Collaborative Learning:** Group projects fostered collaboration and teamwork among students, enabling them to share knowledge and skills to achieve project goals.
5. **Confidence:** By successfully completing projects and presenting their work, students gained confidence in their abilities to tackle complex engineering challenges.

CO/PO&PSO-Mapping:

CO/PO&PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
	3	3	3	3	3	3	-	-	-	-	-	3	3	3

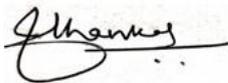


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89	1KS19ME413	SUMANTH KUMAR R													
90	1KS19ME415	YOGANANDA A N													
91	1KS19ME416	YOGESH H M													



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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A REPORT ON

“CYBER SECURITY & ETHICAL HACKING”

Semester:	4 th Semester
Event Type:	Course
Event Name:	Cyber Security and Ethical Hacking
Date/Duration/Timings:	11/07/2022 to 16/07/2022 / 6 Days / 9:00 am to 4:00 pm
Associated Bodies:	Nil
No. of Students:	130
Expert details:	Dr. Deepa S R, Dr. Vaneetha M, Prof. Kushal Kumar, Prof. Raghavendrachar

Introduction:

Cybersecurity and ethical hacking are interconnected, aiming to protect digital assets and infrastructure from unauthorized access, misuse, and exploitation. Cybersecurity and ethical hacking contribute to building a more secure and resilient digital ecosystem, protecting critical assets and infrastructure from cyber threats and attacks.

Day 1: Introduction to Cybersecurity

- Understanding the basics of cybersecurity
- Exploring common cyber threats and attack vectors
- Introduction to cybersecurity frameworks and standards
- Overview of risk management principles in cybersecurity

Day 2: Fundamentals of Ethical Hacking

- Introduction to ethical hacking and penetration testing
- Understanding the legal and ethical considerations in ethical hacking
- Overview of common hacking techniques and tools
- Hands-on exercises in setting up a lab environment for ethical hacking

Day 3: Network Security

- Understanding network security principles
- Exploring network vulnerabilities and attack techniques
- Introduction to network defense mechanisms and protocols
- Hands-on exercises in network scanning and reconnaissance

Day 4: Web Application Security

- Understanding web application vulnerabilities and threats
- Exploring common web application attack techniques (e.g., SQL injection, XSS)
- Introduction to web application security best practices
- Hands-on exercises in testing and securing web application

Day 5: Wireless Security

- Introduction to wireless security concepts
- Exploring common wireless security vulnerabilities and attacks
- Overview of Wi-Fi security protocols and encryption techniques
- Hands-on exercises in wireless network penetration testing

Day 6: Incident Response and Ethical Hacking in Practice

- Understanding incident response principles and procedures
- Introduction to digital forensics and evidence collection
- Ethical hacking in practice: conducting a penetration test
- Final assessment and certification exam (if applicable)

Conclusion:

Throughout the course, participants would engage in a combination of lectures, hands-on labs, and practical exercises to reinforce learning and apply concepts in real-world scenarios.

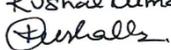


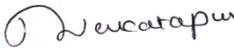
EO-PO Mapping

EO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
EO	3	3	3	3	3	3	-	-	-	2	-	3	3	3

3	Substantial (High) Correlation
2	Moderate (Medium) Correlation
1	Slight (Low) Correlation
-	No correlation.

PO's and PSO's Attained: PO1, PO2, PO3, PO4, PO5, PO6, PO10, PO12, PSO1 & PSO2

Kushal Demarisw

Event Coordinators


Prof. & Head, CSE


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BENGALURU - 560 109

128	1KS21CS405	SUHAS R	Suhas	Suhas	Suhas	Suhas	Suhas	Suhas
129	1KS21CS406	VAISHNAVIS	Vish	Vish	Vish	Vish	Vish	Vish
130	1KS21CS407	VIDHYA J	Vidhy	Vidhy	Vidhy	Vidhy	Vidhy	Vidhy

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A REPORT ON
“BLOCKCHAIN TECHNOLOGY”

Semester:	6 th Semester
Event Type:	Course
Event Name:	Blockchain Technology
Date/Duration/Timings:	09/05/2022 to 14/05/2022 / 6 Days / 9:00 am to 4:00 pm
Associated Bodies:	Nil
No. of Students:	118
Expert details:	Prof. Vaneetha M, Prof. Kushal Kumar, Prof. Raghavendra Achar,

Introduction:

The overarching goal of blockchain technology, which is to create a more transparent, secure, and inclusive digital economy. As blockchain continues to evolve and mature, it holds the potential to transform industries, disrupt traditional business models, and empower individuals and communities worldwide.

Day 1: Introduction to Blockchain

- Understanding the fundamentals of blockchain technology
- Exploring the history and evolution of blockchain
- Different types of blockchains (public, private, consortium)
- Use cases and applications of blockchain across different industries

Day 2: Cryptography and Consensus Mechanisms

- Overview of cryptographic techniques used in blockchain
- Hash functions, digital signatures, and cryptographic hashing
- Consensus mechanisms such as Proof of Work (PoW), Proof of Stake (PoS), and Practical Byzantine Fault Tolerance (PBFT)
- Comparison of different consensus mechanisms and their pros and cons

Day 3: Smart Contracts and Decentralized Applications (DApps)

- Introduction to smart contracts and their role in blockchain ecosystems
- Programming smart contracts using languages like Solidity (for Ethereum) or Chaincode (for Hyperledger Fabric)
- Building decentralized applications (DApps) on top of blockchain platforms
- Examples of popular DApps and their functionalities

Day 4: Blockchain Platforms and Development Tools

- Overview of major blockchain platforms such as Ethereum, Hyperledger, and EOS
- Setting up development environments for blockchain application development
- Hands-on exercises on deploying smart contracts and interacting with blockchain networks
- Exploring blockchain development tools, frameworks, and libraries

Day 5: Blockchain Security and Privacy

- Understanding security challenges in blockchain ecosystems
- Threats such as 51% attacks, double-spending, and smart contract vulnerabilities
- Techniques for securing blockchain networks and smart contracts
- Privacy concerns and techniques such as zero-knowledge proofs and ring signatures

Day 6: Future Trends and Advanced Topics

- Exploring emerging trends and developments in blockchain technology
- Topics such as interoperability between blockchain networks, scalability solutions, and tokenization of assets
- Discussion on regulatory challenges and compliance in blockchain projects
- Opportunities for further learning and specialization in blockchain technology

Conclusion:

The six-day course should highlight the significance of blockchain technology in transforming various industries, empower participants with the knowledge and skills to leverage blockchain in their respective domains, and encourage continued learning and exploration in this rapidly evolving field.



EO-PO Mapping

EO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
EO	3	3	3	2	3	3	-	-	-	2	-	3	3	3

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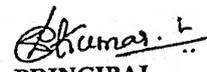
PO's and PSO's Attained: PO1, PO2, PO3, PO4, PO5, PO6, PO10, PO12, PSO1 & PSO2

Kushal Dumaraju
 Kushal
Event Coordinators

Dewaraj
Prof. & Head, CSE

Sharma
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94	IKS19CS099	SYED ZAINUL ABIDIN	Abid	Abid	Abid	Abid	Abid	Abid
95	IKS19CS100	TALLURU MAURYA	Tallu	Tallu	Tallu	Tallu	Tallu	Tallu
96	IKS19CS101	TANUSHREE R	Tanu	Tanu	Tanu	Tanu	Tanu	Tanu
97	IKS19CS102	TEJAS N	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
98	IKS19CS103	TEJAS P	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
99	IKS19CS104	TEJASWINI NAYAKA S	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
100	IKS19CS105	THANUSHREE S	Thanu	Thanu	Thanu	Thanu	Thanu	Thanu
101	IKS19CS106	THIRUMAL R	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru
102	IKS19CS107	THRIVENI U	Thrive	Thrive	Thrive	Thrive	Thrive	Thrive
103	IKS19CS108	UDHAY KUMAR G	Udhay	Udhay	Udhay	Udhay	Udhay	Udhay
104	IKS19CS109	VAISHNAVI G	Vaish	Vaish	Vaish	Vaish	Vaish	Vaish
105	IKS19CS110	VARSHA BAI R	Varsha	Varsha	Varsha	Varsha	Varsha	Varsha
106	IKS19CS111	VARUN KAMBALI	Varun	Varun	Varun	Varun	Varun	Varun
107	IKS19CS112	VIŞHAL GUPTA	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal
108	IKS19CS113	YASHWANTH S R	Yash	Yash	Yash	Yash	Yash	Yash
109	IKS19CS115	AKSHAY R	Akshay	Akshay	Akshay	Akshay	Akshay	Akshay
110	IKS19CS116	VRATHIKA BILLAVA	Vrathika	Vrathika	Vrathika	Vrathika	Vrathika	Vrathika
111	IKS18CS011	BHARATH R	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
112	IKS18CS021	G. SARAYU CHOWDARY	Sarayu	Sarayu	Sarayu	Sarayu	Sarayu	Sarayu
113	IKS18CS068	PRAJWAL N	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal	Prajwal
114	IKS20CS400	AKIF DELVI	Akif	Akif	Akif	Akif	Akif	Akif
115	IKS20CS401	ANUSHA A R	Anusha	Anusha	Anusha	Anusha	Anusha	Anusha
116	IKS20CS402	KEERTHI KUMAR V	Keerthi	Keerthi	Keerthi	Keerthi	Keerthi	Keerthi
117	IKS20CS403	NITHIN S	Nithin	Nithin	Nithin	Nithin	Nithin	Nithin
118	IKS20CS404	PRANAV CHANDRAN P	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav


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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A REPORT ON
“AR VR GAME DEVELOPMENT USING UNITY”

Semester:	8 th Semester
Event Type:	Course
Event Name:	AR VR Game Development Using Unity
Date/Duration/Timings:	23/05/2022 to 28/05/2022 / 6 Days / 9:00 am to 4:00 pm
Associated Bodies:	Nil
No. of Students:	143
Expert details:	Dr. Deepa SR, Prof. Vijayalaxmi Mekali, Prof. Pallavi KN, Prof. Krishna Gudi

Introduction:

The course on AR/VR game development using Unity is to equip participants with the knowledge, skills, and practical experience necessary to create immersive and engaging experiences in augmented reality (AR) and virtual reality (VR) environments.

Day 1: Introduction to Unity and AR/VR Game Development

- Overview of Unity game engine and its features
- Introduction to AR (Augmented Reality) and VR (Virtual Reality) concepts
- Setting up Unity for AR/VR development
- Creating a simple 3D scene in Unity

Objectives:

- Understand the Unity interface and workflow
- Gain basic knowledge of AR/VR concepts
- Set up a development environment for AR/VR game development

Day 2: AR Development with Unity

- Understanding ARCore (for Android) or ARKit (for iOS)
- Implementing basic AR features such as plane detection and object placement
- Adding interactive elements to AR scenes
- Testing AR applications on mobile devices

Objectives:

- Learn to develop AR applications using Unity
- Implement basic AR features like object tracking and interaction
- Gain proficiency in deploying and testing AR apps on mobile devices

Day 3: VR Development with Unity

- Introduction to VR development in Unity using Oculus or HTC
- Setting up VR hardware and controllers
- Creating immersive VR environments
- Implementing VR interactions and locomotion techniques

Objectives:

- Understand the principles of VR game development
- Set up VR hardware and controllers for development
- Develop immersive VR environments with interactive elements

Day 4: Advanced AR/VR Interactions

- Implementing advanced AR features such as image recognition and cloud anchors
- Designing intuitive user interfaces for AR/VR experiences
- Exploring hand tracking and gesture recognition in AR/VR
- Optimizing AR/VR applications for performance and user experience

Objectives:

- Master advanced AR/VR interaction techniques
- Develop complex AR/VR applications with enhanced user experiences
- Learn optimization strategies for improving performance in AR/VR environments

Day 5: Audio and Visual Effects in AR/VR

- Adding spatial audio to enhance immersion in AR/VR experiences
- Implementing visual effects such as shaders and particle systems
- Creating dynamic lighting and ambiance in AR/VR scenes
- Incorporating animations and special effects for storytelling

Objectives:

- Understand the importance of audio and visual effects in AR/VR
- Learn to implement spatial audio and visual effects in Unity
- Enhance the overall quality and immersion of AR/VR experiences

Day 6: Project Development and Showcase

- Working on a final project combining AR/VR concepts learned throughout the course
- Collaborating with peers to develop a complete AR/VR game or experience
- Polishing and testing the project for presentation
- Showcasing the final projects to the class and receiving feedback

Objectives:

- Apply the knowledge and skills acquired throughout the course to develop a complete AR/VR project
- Collaborate with peers to create immersive AR/VR experiences
- Gain experience in presenting and receiving feedback on AR/VR projects.

Conclusion:

The conclusion of the course should emphasize the achievements and progress made by participants in mastering AR/VR game development using Unity. It should highlight the potential of AR/VR technology in revolutionizing the gaming industry and other domains. Participants should be encouraged to continue exploring advanced topics and staying updated with the latest AR/VR technology developments. Certificates of completion can be awarded to participants, recognizing their dedication and expertise in AR/VR game development.



EO-PO Mapping

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EO	3	3	3	3	3	3	-	-	-	2	-	3	3	3

3	Substantial (High) Correlation
2	Moderate (Medium) Correlation
1	Slight (Low) Correlation
-	No correlation.

PO's and PSO's Attained: PO1, PO2, PO3, PO4, PO5, PO6, PO10, PO12, PSO1 & PSO2

Dr. Rekha B Venkatapur

Dr. Rekha B Venkatapur
Professor & Head CSE Dept

Dr. Kumar

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"AR VR GAME DEVELOPMENT UNITY"

Academic Year 2021-22

List of Students and Attendance

Date: 23/5/2022 to 28/5/2022

I.No.	USN	NAME	Signature					
			23	24	25	26	27	28
1	IKS18CS001	ADARSH K	Ad	Ad	Ad	Ad	Ad	Ad
2	IKS18CS002	AMARAVATHI M	Am	Am	Am	Am	Am	Am
3	IKS18CS003	ANIKETH.H	Nieth	Nieth	Nieth	Nieth	Nieth	Nieth
4	IKS18CS005	ANUSHRUTI SINGH	AA	AA	AA	AA	AA	AA
5	IKS18CS006	ARUNA P	Ar	Ar	Ar	Ar	Ar	Ar
6	IKS18CS007	ASHWINI J	As	As	As	As	As	As
7	IKS18CS008	AVINASH PRASAD	Av	Av	Av	Av	Av	Av
8	IKS18CS009	B DEVA DEEKSHITH	De	De	De	De	De	De
9	IKS18CS010	BHAGWAT GOUTAM	Bh	Bh	Bh	Bh	Bh	Bh
10	IKS18CS012	BHOOMIKA H	Bh	Bh	Bh	Bh	Bh	Bh
11	IKS18CS013	BHUVANA CHANDRIKA GANTI	Bc	Bc	Bc	Bc	Bc	Bc
12	IKS18CS014	BRJESH.S	Bu	Bu	Bu	Bu	Bu	Bu
13	IKS18CS015	CHAITHRA R	Ch	Ch	Ch	Ch	Ch	Ch
14	IKS18CS016	CHANDAN KUMAR	Ch	Ch	Ch	Ch	Ch	Ch
15	IKS18CS017	DANDU NIHARIKA	Dn	Dn	Dn	Dn	Dn	Dn
16	IKS18CS018	DHANANJAYA S	Dh	Dh	Dh	Dh	Dh	Dh
17	IKS18CS019	DHRUV JYOTI SHUKLA	Dh	Dh	Dh	Dh	Dh	Dh
18	IKS18CS020	FARIYA N	Fa	Fa	Fa	Fa	Fa	Fa
19	IKS18CS022	GAGANSURI M S	Ga	Ga	Ga	Ga	Ga	Ga
20	IKS18CS023	GANESH A	Ga	Ga	Ga	Ga	Ga	Ga
21	IKS18CS024	GOUTHAM M	Go	Go	Go	Go	Go	Go
22	IKS18CS025	GUNAL BINANI	Gu	Gu	Gu	Gu	Gu	Gu
23	IKS18CS026	HARSHITH C PRASAD	Hc	Hc	Hc	Hc	Hc	Hc
24	IKS18CS027	KANDIMALLA KRISHNA PAVITHRA	Kk	Kk	Kk	Kk	Kk	Kk
25	IKS18CS028	KARTHIK K	Ka	Ka	Ka	Ka	Ka	Ka
26	IKS18CS029	KAVITA CHAUDHARY	Kv	Kv	Kv	Kv	Kv	Kv
27	IKS18CS030	KENCHAM ARUN	Ka	Ka	Ka	Ka	Ka	Ka
28	IKS18CS031	KILARI ASHWIK	Ki	Ki	Ki	Ki	Ki	Ki
29	IKS18CS032	KILARI JASWANTH	Kj	Kj	Kj	Kj	Kj	Kj
30	IKS18CS033	KIRAN VEERANNA DAMBAL	Kv	Kv	Kv	Kv	Kv	Kv
31	IKS18CS034	KRITHIKA.K.N	Kr	Kr	Kr	Kr	Kr	Kr
32	IKS18CS035	KRUTHIKA.S.VASISHT	Kr	Kr	Kr	Kr	Kr	Kr
33	IKS18CS036	LEKKALA	Le	Le	Le	Le	Le	Le
34	IKS18CS037	LATHA V	La	La	La	La	La	La
35	IKS18CS038	LAVANYA.C.R	Lv	Lv	Lv	Lv	Lv	Lv
36	IKS18CS039	LIKHITHA.N	Li	Li	Li	Li	Li	Li
37	IKS18CS040	LOKESH R	Lo	Lo	Lo	Lo	Lo	Lo
38	IKS18CS041	MADDULA JITENDRA	Ma	Ma	Ma	Ma	Ma	Ma

135	IKS19CS407	GOLLA YASWANTH	Golla	Golla	Golla	Golla	Golla	Golla
136	IKS19CS408	KALPITHA.AJ	Kaple	Kaple	Kaple	Kaple	Kaple	Kaple
137	IKS19CS409	KARTHIK PRAKASH	Ko	Ko	Ko	Ko	Ko	Ko
138	IKS19CS410	RAMYA.R	Ramy	Ramy	Ramy	Ramy	Ramy	Ramy
139	IKS19CS411	RANJITHA.H.D	Ranj	Ranj	Ranj	Ranj	Ranj	Ranj
140	IKS19CS412	RUSHI.C.S	Rush	Rush	Rush	Rush	Rush	Rush
141	IKS19CS413	SAHANA.V	Saha	Saha	Saha	Saha	Saha	Saha
142	IKS19CS414	Y.MRUDULA JAIN	Y.Mjain	Y.Mjain	Y.Mjain	Y.Mjain	Y.Mjain	Y.Mjain
143	IKS17CS015	B R GAGAN	Uranh	Uranh	Uranh	Uranh	Uranh	Uranh

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22 Oct, 2021

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has successfully completed

Programming for Everybody (Getting Started with Python)

an online non-credit course authorized by University of Michigan and offered through Coursera

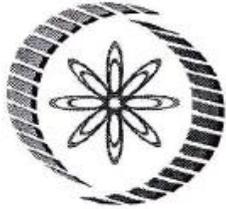


Charles Severance
Clinical Professor, School of Information
University of Michigan

COURSE
CERTIFICATE



Verify at coursera.org/verify/JRWWVGEVSU25
Coursera has confirmed the identity of this individual and their participation in the course.



Elite

NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

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for successfully completing the course

Sensors and Actuators

with a consolidated score of **69** %

Online Assignments	24.38/25	Proctored Exam	45/75
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Total number of candidates certified in this course: **860**

Prof. G. L. Sivakumar Babu
Chairman, Center for Continuing Education
IISc Bangalore

Jan-Apr 2022
(12 week course)

Prof. L. Umanand
NPTEL Coordinator
IISc Bangalore



Indian Institute of Science Bangalore



Roll No: NPTEL22EE50S43195365

To validate and check scores: <https://nptel.ac.in/noc>



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Tel: 080-28435722 / 24 Web : www.ksit.edu.in

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Certificate of Participation

This is to certify that Mr./Ms. AAKRITI Bearing USN 1KS19CS001 successfully completed 6 days course on "Blockchain Technology" conducted from 9th to 14th of May 2022 at K.S. Institute of Technology Bengaluru.

Dr. Rekha B Venkatapur
Professor & Head CSE Dept

Dr. Dilip Kumar K
Principal & Director



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Certificate of Participation

This is to certify that Mr./Ms. ABHISHEK B Bearing USN 1KS19CS002 successfully completed 6 days course on "Blockchain Technology" conducted from 9th to 14th of May 2022 at K.S. Institute of Technology Bengaluru.

Dr. Rekha B Venkatapur
Professor & Head CSE Dept

Dr. Dilip Kumar K
Principal & Director



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Certificate of Participation

This is to certify that Mr./Ms. ABHISHEK YADAV Bearing USN 1KS19CS003 successfully completed 6 days course on "Blockchain Technology" conducted from 9th to 14th of May 2022 at K.S. Institute of Technology Bengaluru.

Dr. Rekha B Venkatapur
Professor & Head CSE Dept

Dr. Dilip Kumar K
Principal & Director



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Tel: 080-28435722 / 24 Web : www.ksit.edu.in

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Certificate of Participation

This is to certify that Mr./Ms. ADITH KARTHIK RAJU Bearing USN 1KS19CS004 successfully completed 6 days course on "Blockchain Technology" conducted from 9th to 14th of May 2022 at K.S. Institute of Technology Bengaluru.

Dr. Rekha B Venkatapur
Professor & Head CSE Dept

Dr. Dilip Kumar K
Principal & Director



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Tel: 080-28435722 / 24 Web : www.ksit.edu.in

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Department of Computer Science and Engineering

Certificate of Participation

This is to certify that Mr./Ms. AJAY S KALBURGI Bearing USN 1KS19CS005 successfully completed 6 days course on "Blockchain Technology" conducted from 9th to 14th of May 2022 at K.S. Institute of Technology Bengaluru.

Dr. Rekha B Venkatapur
Professor & Head CSE Dept

Dr. Dilip Kumar K
Principal & Director



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Certificate of Participation

This is to certify that Mr./Ms. AKASH A S Bearing USN 1KS19CS006 successfully completed 6 days course on "Blockchain Technology" conducted from 9th to 14th of May 2022 at K.S. Institute of Technology Bengaluru.

Dr. Rekha B Venkatapur
Professor & Head CSE Dept

Dr. Dilip Kumar K
Principal & Director



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This is to certify that Mr./Ms. AMAN KUSHWAHA Bearing USN 1KS19CS007 successfully completed 6 days course on "Blockchain Technology" conducted from 9th to 14th of May 2022 at K.S. Institute of Technology Bengaluru.

Dr. Rekha B Venkatapur
Professor & Head CSE Dept

Dr. Dilip Kumar K
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This is to certify that Mr./Ms. AMIT K B Bearing USN 1KS19CS009 successfully completed 6 days course on "Blockchain Technology" conducted from 9th to 14th of May 2022 at K.S. Institute of Technology Bengaluru.

Dr. Rekha B Venkatapur
Professor & Head CSE Dept

Dr. Dilip Kumar K
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Professor & Head CSE Dept

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