

### Kammavari Sangham(R)-1952

K. S. INSTITUTE OF TECHNOLOGY Approved by AICTE, New DelbL, Allikated to VEU, Relagavi, Karnataka, Ascredited by NACC & NUA (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	Akipodoliji
2	VAISHNAVI.G	RINEX INTERNSHIP CERTIFICATE/2021	Varshian
3	KRISHNA.KR	LAUNCHING INTO MACHINE LEARNING	Keishia, KR
4	THANUSHREE.S	ARTIFICIAL INTELLIGENCE PROGRAM	Thank
5	AMRUTHA.KH	USING DATABASE WITH PHYTHON	Amartha
6	AMRUTHA HARSHAN	SQL(BASIC)	Angulla
7	NEELAM SALI	BACKEND WEB DEV WITH NODEJS	Neelam
		BUILD A FACE RECOGNITION APPLICATION USING	
8	VARUNKAMBALI	PHYTHON	Vanus
		PROGRAMMING FOR EVERYBODY (GETTING STARTED	0 1. 0
9	KEERTHAN GOWDA.S	WITH PHYTHON)	GOLOGIA
10	DEEPA.G	ALGORITHMIC TOOLBOX	herra.
		PROGRAMMING FOUNDATION WITH JAVASCRIPTS, HTMI	
11	AMOGHA HS	AND CSS	Amogher
		PROGRAMMING FOR EVERYBODY (GETTING STARTED	
12	PREETHI K	WITH PHYTHON)	Beetlik
		MACHINE LEARNING WITH DATA SCIENCE IN SUMMER	
13	JHISHNU.S	INTERNSHIP PROGRAMME	Thiskny.S
14	AMULYA .R	DATA ANALYSTICS WITH PYTHON COURSE	Am
15	AMULYA .R	PYTHON PROGRAMMING COURSE	Any
16	AMULYA .R	ARTIFICIAL INTELLIGENCE COURSE	And
17	KRUPA .A	SENSOR ACTUATORS	Vaude -
18	KRUPA .A	CLOUDE COMPUTING	Koube
19	ADITI	DATA SCIENCE PROGRAMM	Acre
20	ADITI	DATA SCIENCE PROGRAMM AT RINEX	An.
21	V.VARSHA	ROBOTICS WITH TECHNOOK	Valla
22	UDAY .C.H	DATA SCIENCE PROGRAMM	Uday C.H.

enall PRINCIPAL

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 500 109. -



### **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 – 4<sup>th</sup> ,6<sup>th</sup> ,8<sup>th</sup> 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

**'EAD OF THE DEPARTMENT** it. of Electronics & Communication Engg. K.S. Institute of Technology Bengaluru - 560 109.

K.S. INSTITUTE OF TECHNOLOGY **BENGALURU - 560 109.** 

# K.S.INSTITUTE OF TECHNOLOGY #14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Python Programming

ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER )

Dept /	Branch	: ECE	

IVSEM

SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
1	1KS20EC002	ADITI DUBEY	Aditi	Aditi	Adifi	-Alifi	Aliti	Adit
2	1KS20EC003	AFEEFA SHARIEFF	Afreja	Alfrefa	Addela	Alfela	Appla	Apple
3	1KS20EC004	AJAY B G	Hory	Apy	April	Apery	april	Apy
4	1KS20EC006	AKASH M	AZ	A	Ala	Als	AK	Alas
5	1KS20EC008	B.S.HEMASHREE	B.S.14	-D'S.Hy	B.SHO	Dislar	Bisilty	D.S.Hust
6	1KS20EC009	BHARATH M	Thy.	BI	R	Br	B	13
7	1KS20EC010	BHAVITHA B	BAS	RB	BB	Pols	Brz	BB
8	1KS20EC011	BHUVANESHWARI K	Bhile.	BAD	Bhu	Blu	8pm	Bhu
9	1KS20EC012	CHAITANYA.K	chy	OWZ	chy	chy	che	chr
10	1KS20EC013	CHAITHRA K	Chaitet	chaille	chaith	diaithy	diaitho	divithe
11	1KS20EC014	CHALLAGUNDLA SAI ISRUJITHA	Sagun	che a	chalan.	Une lig	chas	chat guing
12	1KS20EC015	CHALLAGUNDLA UMADEVI	Unode	Uned.	Unof	Unab	Chadle	Cinado
13	1KS20EC016	CHAYA S 🐔	de	ch	ch	CL-	ch	Cr
14	1KS20EC017	CHETHAN G	Cheatha	diftia	chefter	chethan	Cheftian	Cheffique
15	1KS20EC018	CHETHAN KUMAR J	A	AL	AL	- de	ct	di.
16	1KS20EC019	CHETHAN KUMAR T	chitch	en	ins	chie	chi	chy
17	1KS20EC020	DARSHAN K	Darston	Darthe	Darla	Dartha	Daylou	Dayhou
18	1KS20EC021	DARSHAN KUMAR S	Stortbon	though	thask	Shen	than	that
19	1KS20EC023	DHAMINI J	Dhrai J	Dhy	Dhy.7	Dhrit	Dh.I	Dhurt
20	1KS20EC024	DHRUVA KUMAR S	Dik	DE	DE	Dik	D:15	D.15
21	1KS20EC025	DIVYA N	Shya	Dineye	Story	Ashing	Ang	Ang
22	1KS20EC026	ESHWAR BIRADAR	Ethics	Eflucy	-Echucop	Eshuco	Eshiva	fehre
23	1KS20EC027	G BHAVANA PRIYADARSHINI	G& Bharra	GBhavar	Gehavan	G. Bravan	G Bhavers	(Bhavan
24	1KS20EC028	GAGAN H C	32	G	G	G	G	G
25	1KS20EC029	GAGANA B S	tenge	Garge	Gage	Garge	Genere	Garge
26	1KS20EC030	GANDHAMANI C M	Gara	tras	Gasto	Gan	Gous	Goer.
27	1KS20EC031	GOMITHA R C	Gonith	6 mit	Girth	3 Growate	Gonith	Gowthy
28	1KS20EC032	HARINI K	Home	the	Ke	the	He	AP
29	1KS20EC033	HARSHITH GOWDA A R	Harl	Hasto	Hart	Hall	-Hall	Hall
30	1KS20EC034	HARSHITHA.B.L	Harrit	Kayhith	Aprilite	Harshith	Harshith	-Hauslitter
31	1KS20EC035	HARSHITHA J	HaurLin	Southing	ferste	J-im	- And	Hastin

and the second second second			- 1					
32	1KS20EC036	HARSHITHA N	Kar	dia	M	de	di	41.0
33	1KS20EC037	INCHARA,P	al	DA ac	ection	sunt -	aster	Am
34	1KS20EC038	JAMPULA CHAITHANYA	TOK	Jerk Terk	Teld	Indu	they	Lindle
35	1KS20EC039	JAMUNA S G		Jun	fin	FLER	gue	Feek
36	1KS20EC040	JANHAVI R	Tanta	Janua	Jahavi	Jamin	Jamur	la source.
37	1KS20EC041	JAYANTH H	Tayout	Jaunth	Jon with	) artian	Joinhou	)ay how
38	1KS20EC042	K.JEEVITHA	Teenth	Leentha	Teonsthe	Jayauch -leanth	Jayan	Jayeth
39	1KS20EC043	K M AMSHUMANTH		0	0	A	Deetsvh	Jewoh
40	1KS20EC045	KAVANA.G.S	Haipia	two	Am.2	Ans	the	Any
41	1KS20EC046	KAVYA S M	Lorge	Legh	12 men	Jenye	Carvon	Raybana
42	1KS20EC047	KEERTHANA.B.S	tall	t	The formation of the second se		parge	10
43	1KS20EC048	KIRAN DEV D	1/in	74 D	Here.	Jup	<u>Sur</u>	tell
44	1KS20EC049	KIRAN V NARAYAN	BAYON -	man (i)	Kirn-	Kiral	King	kin
45	1KS20EC050	KODIDELA PRATHIMA	I del	1 dl	Recan	(Ciran	Rian	Ciean
46	1KS20EC051	KUMAR K G	N	Jour .	Fidel .	tocke 4	zede	todi
47	1KS20EC052	KUSUMA V R	tas.	2000	terre	-	Ky -	Form
		1		-	~	(	4000	T

 $\ell^{\pm}$ 

1.

Shumes.

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.

### K.S.INSTITUTE OF TECHNOLOGY #14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109

### Python Programming

ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER )

Dept / Branch : ECE

IV SEM B Section

SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
1	1KS20EC053	M ARCHANA	Areh	Arch	Anche	Dall	Arehon	Archan
2	1KS20EC054	MADIHA	Modile	provedta	Madihe	modif	madike	madila
3	1KS20EC055	MAHESH BIRADAR	Maresh	Mahesh	Mahed	Mahest	Mahesh	Kraherh
4	1KS20EC056	MANASWINI K M	Dan	Don	An	alfor-	the-	Am
5	1KS20EC057	MEGHA SHREE M	184	NGC	the	Siex	De	Pag
6	1KS20EC058	MOHAN KRISHNA K	Main	main	Maril	Mail	Maigh	Mbergel
7	1KS20EC059	N SHREYA	N Shuga	NShuy	N Shrey	NShay	Nghu	N Shrayg
8	1KS20EC060	NALLANI GOWTHAMI	Conthan	Cowthan	Gow than	Gauthan	Cowthan	Cowlin
9	1KS20EC061	NEHA C R	Hema	Henra	litena	Hema	Henro	Hema
10	1KS20EC062	NEHA NAGARAJ AIRANI	Noh	Mehn	Nehr	Nehr	Hlech	Nehr
11	1KS20EC063	P.VASANTH KUMAR REDDY	Kreddy	Voedy.	Wheth	Areddy	Veleden	Veredy
12	1KS20EC064	PAVAN.C	Pars	Run	Par	Parl	Pari	- Pan -
13	1KS20EC065	PAVANI T S	He-	to	te	- Ar	40	0
14	1KS20EC066	PRADHYUMNA S KASHYAP	An	(D)	the-	da-	dr.	the .
15	1KS20EC067	PRAVEEN D B	Roton	them	Chem	Cherman	Clama	Ferner
16	1KS20EC068	PREMA G	prend	(Perme)	aprema	Akena	General	Gerene.
17	1KS20EC069	PRIYANKA.H C	pay	proy	Pring	pm	prog	Pibry
18	1KS20EC070	PRIYANKA K	Priyanto	Per yanka	thiyante	hiyanha	Paiyonla	- Beyanta
19	1KS20EC071	PRIYANKA M	Kigai	TrejaM	Rejam	Pag yair	Beyan	-Par yam
20	1KS20EC072	PUSHPA D T	Pives -	Pis	Prate	Place	Pho	Phys
21	1KS20EC073	RAHUL KRISHNAN V	Schulpilly	Reputterish	Pahulburghen	John Kigh	8 chulprigh	Rahaf purghe
22	1KS20EC074	RAHUL R	Rahulk	Kenho	- Pake R	Pahit	Pahalo	RahaR
23	1KS20EC075	RAJATH K ACHAR	Lafath	toph	papilh	Rijah	perfect	Rafa A.
24	1KS20EC076	RAKSHITH.N.M	toplet	Cather	1 about	Theth	(ablief	Abelsof
25	1KS20EC077	RAKSHITH R	PH.	22	22	2A	22	T.
26	1KS20EC078	RAKSHITHA A	Rakehif	elaber.	Ratchith	Calc fithe	Ralchites	Cap hithe
27	1KS20EC079	RAMESHWAR	Kongenas	langhe	Sameshis	Labore shure	Ramestula	Kameshikaz
28	1KS20EC080	RAMYA T	Romin	Rows	Rong	Row	Pari	Runit
29	1KS20EC082	ROHITH A K	th	· fh	RI	KN	In	RIK
30	1KS20EC083	S ARUN KUMAR	(Arun)	Aren	Aren	Azen	Arun	Aren
31	1KS20EC084	SACHIN N M	Sar .	Laso-	Sadas	Sard	Sas	Son
32	1KS20EC085	SADHANA SRINIVAS	Sadhana	Sadhana	Sadhana	Sadhana	Sadhana	Sadhana
33	1KS20EC087	SANDEEP Y H	Sandeep	Sandeep	Sandeep	Sandap	Sandeep	Sandeep
34	1KS20EC089	SANJANA G	Sanjain	Canjaire	Sanjava	Sarjana	Sanjaria	Sarrana
35	1KS20EC091	SANJANA T GADIKAR	352 -	Fich	Stig	र्राद	584	STG

			Con Operation On Operation	
36	1KS20EC092	SHAKTHI ANBAZHAGAN M	Slath Shath Shath Shath Shath Shath	abth
37	1KS20EC093	SHARATH M	She She She She Shy Shy Sh	2-
38	1KS20EC094	SHAŞHANK S	Shapport shapport Shapport Stathank Sharlow Shall	hank
. 39	1KS20EC095	SHIVAREDDY B A	Shoreddy Chareeddy Triedde Claredd Sh vosodd Sherres	sede.
40	1KS20EC096	SHREYA H PADMANABHA	Streege Streege Streege Streege Streege Streege	ja.
41	1KS20EC097	SHREYAS M S	trys Says Knyy Karps Ky 1	3)
42	1KS20EC098	SHREYAS P S RAO	Skrup Shrup Skrup Shrupa Shrupa Shrupa	R4
43	1KS20EC099	SHWETA DEEPAK K	Shurta Shurta Shurta Shurta Shurta Shurt	ta
44	1KS20EC101	SONIKA.R	Sonika Sonika Sonika Sonika Sonika Sonik	<u>ta</u>
45	1KS20EC102	SUMANA N	Sim Son Sin Sin Sim Sim	2
46	1KS20EC103	SUMUKHA S	Sworthes Sumthis Swouthes Snymether Symulous number	15
47	1KS20EC104	SURAKSHA N	Suraha Burable Suralta Stroath Suralde Sciva	lahe
48	1KS20EC105	TARUN PRASANNA	Tom Termina long Tong Tong	P
49	1KS20EC106	TEJAS N REDDY	Terach Tepar N. Tepar N Tepar N Tejar N Tejar. N Tejar.	N
50	1KS20EC107	THUMMALA GIRISH	Civity Jose Ginish Ginish firial finis	h
51	1KS20EC108	UDAY C H	At my the tot the the	
52	1KS20EC109	UJJWAL NAIDU	Uritud Uriwal Uriwal Uriwal Uriwal Urit	32)
53	1KS20EC110	VAISHNAVI A	And And And	~
54	1KS20EC111	VAISHNAVI V H	Vashnami Vaishami Vaishami Vaishami Vaish	navi
55	1KS20EC112	VARSHA N	Varshen Varsher Varshon Varshan Vars	she
56	1KS20EC113	VIJAYALAKSHMI K	Vijay Jakohn Vijay dakahn Vijay dakahni Vijay dakahni Vijay dakahni Vijaya	Meshan
57	1KS20EC114	VINAY S P	Ving Ving Ving Ving Ving Ving	2-
58	1KS20EC115	VINAY SAGAR V ALUR	Vinay Vinay Vinay Vinay Vinay Vin	my .
59	1KS20EC116	VINEETH M S	Vince Vine Vine Viny Vin Vin	~
60	1KS20EC117	YASHILAA S	Yashing Normille Yashild Yashill Nartull Vailie	5h
61	1KS20EC118	YASHWANTH Y	Yashmant Mashmant Yashwant Jashmant Yashmant Yashm	ant
62	1KS21EC401	SUDÉEP V	Budup Sudey Swaters Suders Suder Baller	198

unal."

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.

### **K.S.INSTITUTE OF TECHNOLOGY**

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

### **Python Programming**

. : 4

### ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER )

Dept /	Branch : ECE		1.	<b>VI SEM</b>	A SEC	TION		
SI.NO	USN	STUDENT NAMES	Ma23	,Ma24	Ma25	Ma26	Ma27	Ma28
1	1KS19EC00:	1 ABHILASH A S	AS	75	75	志	As	AS
2	1KS19EC002	2 ABHISHEK CHANDRESH	Ay	AL	A	AU	t	Ay
. 3	1KS19EC003	AISHWARYA BASAVARAJ KEMBAVI	Ashvary	Hinhwary	Alshing	Alibuar	* Annway	2 Sirhways
4	1KS19EC004	AISHWARYA M G	My	M	IN	· M	MA	MA
5	1KS19EC005	AKSHAY KUMAR D	Atishay	Akshay	Akshay	Akshay	Akshay	Akshay
6	1KS19EC006	AKSHITHA	AKE	Al	AL	A	AL	A
7	1KS19EC007	AMRUTA	Anouta	Arrente	Annit	Amita	Amoute	Amouto
8	1KS19EC008	AMULYA R	Amelyo	Amulya	Anulya	Anulya	Anulya	Anylya
9	1KS19EC009	ANITHA S	dimis	April	Acuil	Alit	Alor	Any
10	1KS19EC010	ANJALI Y J	A	Al	AL	Al	AP	A
. 11	1KS19EC011	ARCHANA YADAV M	Ach	Ach	Azh	Drb	Arh	Axh
12	1KS19EC012	ASHRITHA R	Ash.R	AG.R	Ach.R.	Ash.R	Ash.R	Ash.R_
13	1KS19EC013	BHARATH KUMAR R	Bhasath	Bharath	Rhavath	Rharath	Rharath	Rhavath
14	1KS19EC014	BHAVANA S	Broward	Thank	Downa	Brooker	Caravant	tabararas
15	1KS19EC015	CHAITRA P	chan	chas	chas	da.	dan.	Clab
16	1KS19EC016	CHANDAN RAJ Y	Gy	as	lan	Con	for	Con
17	1KS19EC017	CHANDANA.L	chand	daug	drand	class	clard	dad
18	1KS19EC018	CHENNREDDY RAJASEKHAR	chop	Ches	Chen	Choirs	Cher	anco
19	1KS19EC019	CHIRANTHANA YOGANANDA ' K	rogs	yogo	yage	yough	9090	4090
20	1KS19EC020	D NAYAN	Nastay.	Nayay	Nayan	Nayan	Nayan_	Nayan
21	1KS19EC021	DANESH RAJU V	Do	A K	D	Do-	DA	DO
22	1KS19EC022	DAVINO JOSEPH	F.	Te	Th	Su	A	the last
23	1KS19EC023	DHANYA SUKANTH B K		Q.	Q	D	Ø.	D.
24	1KS19EC024	DHEEMANTH K N	Dhen	Dh	Dhu	Dhu	Dai	Dhi
25	1KS19EC025	DISHA SHIVANI	Disho	-Dishon	Disha	Disha	Dishor	Disha
26	1KS19EC026	ERAM FATHIMA	Fran	Fran	Fran	Eran	Evan	Evan
27	1KS19EC027	GAYATHRI P K	Crouteri	Gracothi	Grayothi	Grouothi	Graypothic	Grayathis
28	1KS19EC028	GAYATHRI R WARRIER	Gay	gay-	gay	yay -	thay -	yay.
29	1KS19EC029	GONUGUNTLA SAI SIDDARTHA	Jack	8th	Same	Ser	Sas	Ser
30	1KS19EC030	GOWRI S NADIGER	Growvi	Gower	Cound	GIOLONI	Course .	Gow?
31	1KS19EC031	HARSHA R	A	#	H	4	tt-	A
32	1KS19EC032	HARSHITHA B Y	Harshiller	Haxdhill	Hovehithe	Hoxehith	Horabith	Horehillo
33	1KS19EC033	HEMANTH.R.PATIL	HP-	HE !	坦	HA -	AR	the
34	1KS19EC034	HIMA SWETHA S	Hima	Hima	thing	Hing	Hima	Hima
35	1KS19EC035	JAGRUTI PAI	A	D-	the second	Æ	F	F
36	1KS19EC036	JAYANTH M B	Tib	Jud	TAS	tools a	Tand 1	TtoB -

	T							1
37	1KS19EC037	MANOGNA	Margne	Monogra	Managna	Mangn	manon	Martin
38	1KS19EC038	KARTHIK K	Kens	lear	Fait	leave	Kap	lear
39	1KS19EC039	KASHYAP.P	its	B	*	R	FLA	·ns
40	1KS19EC040	KRUPA.A	AX	less	das	00	Kauls	Kmps
41	1KS19EC041	KRUTHI K S	to-	X	x.	K	d-	·K-
42	1KS19EC042	LAKSHMAN KUMARA B	lation	lahsh	lahish	laksh	lokk	laksh
43	1KS19EC043	LIKITHA.H	Filet	biffi	Likte	Litet	tike	416-
44	1KS19EC044	M LOKESHWARI	lak	ht	lak	lote	let	lok
45	1KS19EC045	MANU N KANDRA	Mon	ion	MOU	More	Mara	Man
46	1KS19EC046	MEGHANA H P	Leef	· Mey	Neg	Ked	Nest	people
47	1KS19EC047	MOHAMMAD RAKHEEB M R	MAR	ME	MR	MR	MR	MR
48	1KS19EC048	MOHITH KUMAR G	19th	M	15216	Max.	Made.	Nale-
49	1KS19EC049	MONIKA V ARYA	Mour	Mon	Mou	poor	poor	Mouni
50	1KS19EC050	MONISHA.B.K	Molit	Marsh.	Full	North	· Mod	Mond
51	1KS19EC051	N ANILA	Willa	Anta	Nolla.	Anto	Noila	Nala
52	1KS19EC052	NIDHI S	Will	Nide	North	Nolli	Alalli	Nieles
53	1KS19EC053	NISARGA K	Nixayo	-Nilorga	Nut	· NP80919-	Nies	Nikoyo
54	1KS19EC054	NITHIN D	alter	ALAHA	NHAIA	Nitio	N & Horn	Nittaka
55	1KS19EC055	PAVAN KUMAR G R	Pavian	Paran	Pavan	Pavan	Pavan	Paran.
56	1KS19EC056	POKURI MOUNIKA	fokus	pokup	pokupo	pokuens	Poland	polausi
57	1KS19EC057	POOJA S P	pog	poo	PDOJ	Rosj	pog	Room
58	1KS19EC058	PRADEEP GADED	Pradeep	Produc	Pradup	Pradey	Pradey	Prada
59	1KS19EC059	PRAKASH CHEGORE	Park	Bak	Poork	Poak	Poak	Prak
60	1KS19EC061	PRASHANTH.S.K	Prathant	Bashont	- Prachad	h Prokan	th Praihan	1 Rochand
61	1KS19EC062	PRAVEEN KUMAR N	may	Wanen	praven	prave	Krava	pran
62	1KS19EC063	PREETHAM G H	P	P	P.	P	P.	P
63	1KS19EC064	PRIYANKA K	Drigo	Pripa	priza	Prifer	Drya	Priza
64	1KS19EC065	RADHA KRISHNA L	Rda	Dala	Rola	Eda	Eday	Rda
65	1KS19EC066	RAJALAKSHMI S	Zaj	Rai	Rai	Bai	Rai	Rai

Shumap.

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.

#### and service that the second second second second

### K.S.INSTITUTE OF TECHNOLOGY

### #14, RAGHUVANAHALLI, KANAKAPURA MAIN ROAD, BENGALURU-560109 Python Programming

ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER)

DEPT	<b>/ BRANCH</b>	ECE		VISEN	1 B SE	CTION		
SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
1	1KS19EC067	RAMYASREE R	hours	handre	Lougare	Romele	Louges	Kampfeler.
2	1KS19EC068	RANGASWAMY.U	Roza	Ronge	Pago	Ranga	Roga	- Rango
3	1KS19EC069	ROHAN K R	TOLEA	Total	Top	3000	roh	-roals
4	1KS19EC070	S K BHARATESH	R	D	B	B	B	EB_
5	1KS19EC071	SABARISH I J	Sah	Sabi	Sah	Jula	ha	X
6	1KS19EC072	SAHANA K S	Sha	Shu	Show	Str	Sha	Shut
7	1KS19EC073	SAHANA S	Sh	Sh	Sh	-m	th	the
8	1KS19EC074	SAI PRIYA T S	Saipsi	your Biy	- Soipn	+ Jaips	in Jaips	iya Deupsiy
9	1KS19EC075	SAMIKSHA S	Liene	Sam	Spe	Sta	San	demis
10	1KS19EC076	SANTOSH HEGDE	Santhes	South	Saisthon	h Sound	Sar Sar	North Santhe
11	1KS19EC077	SATHVIK U M	Sathui	Sathrik	Sathere	Sathuk	Safkvik	Sathuk
12	1KS19EC078	SHAMITHA BIJOOR	Sham	Sham	Sham	Otom	Sham	Sham.
13	1KS19EC079	SHASHANK KASHYAP.H.R	Sathaur	Somania	Serligan	Balhann	Sayhann	Sathanik
14	1KS19EC080	SHIVARAMA KRISHNA K P	Shire	Shire	Shire	Shie	Shiba	- Shive,
15	1KS19EC081	SHREYAMS D K	So	Sh	-Sb	sb	- Sata	- Sh
16	1KS19EC082	SHREYAS BARADHYA	8h	Sh	Sh	th	AL	M
17	1KS19EC083	SHREYAS GOWDA	th	ph.	th -	th	M	h
18	1KS19EC084	SHREYAS V BHARADWA1	C1	Sh_	she	Se_	-Sr	2
19	1KS19EC085	SHUBHAM KUMAR	be	55	52	S	21	23
20	1KS19EC086	SINCHANA M N	Sinch	Sinch	Sind	Sinch	Sird	sinch
21	1KS19EC087	SRINIVAS S	8rs	1×	2	SA	->	25
22	1KS19EC088	SRINIVASAN M	as	SS	P	++	A)	-
23	1KS19EC089	SRIRAM	Spika	fritan	Stika	Stika	- Inila	- JnRan.
24	1KS19EC090	SUHAS.M	Serb	Sub	Sult	Sult	Sult	- Such
25	1KS19EC092	SUMUKHA VASISHTA M R	Kung	Cu	ter	de	du,	G
26	1KS19EC093	SUSHMITHA S	Inst	1 pm	ril	2	m	m
27	1KS19EC094	SWAGATH AITHAL P G	Dinga	4 Sug	The Surg	an Sei	ageth.	Scoagent.
28	1KS19EC095	SWATHI U	Swathi	2 with	Swath	Jwath	Swath	dwath: "
29	1KS19EC096	T N L RUTHVIK	5P2	Tor	Ton	Jon-	Ton	pu
30	1KS19EC097	TEJASHWINI P V	Thejer	Thejar	Thea	p Thya	n Thege	n Thyan
31	1KS19EC098	THEERTHANA S R	Theeth	Theert	Theest	Theet	Theeith	Theeth.
32	1KS19EC099	TUSHAR R VASISHTA	The	II.	- The	TH.	all	T
33	1KS19EC100	VAISHNAVI K	yate	Ver	Voust	NEW	var	rande
34	1KS19EC101	VANDANA G	val	yes	van	vale	var	in
35	1KS19EC102	VANDANA S	vol	· vay	var	an	var	var
36	1KS19EC103	VIGNESH MUTHAIAH R	A	T	at	the	to	e the
			1,100	11:1/00	11)krs	Lile	Sund	1 in the

SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
38	1KS19EC105	VINUTH S REDDY	an sol	redy	reday	. udly	noldy	Mddy
39	1KS19EC106	VISHAL SANJAY RAJU	Be	G	B 1	B	G	G
40	1KS19EC107	VISHNU RAATA YADUNANDAN	R	R	¥.	X	X	X
41	1KS19EC108	YASHASWINI N	Yash	yacy	Youth	yours	yersy	yasi

2.

Shumap."

PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.

### **K.S.INSTITUTE OF TECHNOLOGY**

# #14, RAGHUVANAHALLI, KANAKAPURA MAIN ROAD, BENGALURU-560109

### PYTHON PROGRAMMING

- -

ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER)

DEPT	/ BRANCH :	ECE	A	VIIISEM	A SECT	ON		
SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
1	1KS18EC001	A N BHOOMIKA CHOWDARY	Al	the	AR	AR	the	AN
2	1KS18EC002	ABHISHEK.V	Achi.	the	Abili	Holi.	-Heli	Abbi
3	1KS18EC003	ADITHI.S	Aditi	山市	Aditi	Aditi	Adity	Alti
4	1KS18EC004	AISHWARYA BANDIGANI	Airh	Anh	Aish	Aish	Aish	Arth
5	1KS18EC005	AISHWARYA R	ANDR	\$-9R	far	f. DR	ADR	A-DR
6	1KS18EC006	AKASH R	AK	AK	AK	Alt	AK	AK.
. 7	1KS18EC007	AKHILA V	Whit	hht	Rht	hhr	hur	Rhut
8	1KS18EC008	ANAGHA S	Angle	Angla	Ang	- Argp	And	AN
9	1KS18EC009	ANANYA ANANTH	Alennet	Anerita	Alsonight	Aperto	Anang	Amanufi
10	1KS18EC010	ASHRITHA S C	Ashut	Ashas	Ash	ABL	Ash	Ach
11	1KS18EC011	AYEESHA RUMAN	Reinig	Rume	Rum	Ruman	Rimon	Remon
12	1KS18EC012	C A SUSHMA	Justico	suppose	Jusha	quisting	mohn	Aushna
13	1KS18EC013	C M CHAITHANYA VARDHAN	chabt	ched	Chut	Chart	- Chiert	charth
14	1KS18EC014	CHANDAN Y C	cta.	ch?	cho7.	cher	chin	chart.
15	1KS18EC015	CHARAN G	show	cha	chart	cha	cha	cha:
16	1KS18EC016	CHINNAPU CHARAN TEJA REDDY	chi	ch	ch	ch	ch	cha
17	1KS18EC017	CHITHRITHA G R	thitres	chitren	chibra	chiba	chilia	difte
18	1KS18EC018	DARSHAN V	Del	al	Dal	day	Det	Pola
19	1KS18EC019	DARSHAN S	Provelle	Carelu	forster	Jonelo	Jorda	Portion,
20	1KS18EC020	DEEKSHA S N	Dal	Rud	Did	Dis	Dut.	Dert.
21	1KS18EC021	DEEPTHI ANDANI	Perp	Dep	Dert	Dup	Deep	Dup
22	1KS18EC022	DHANUSHREE C	At	Atry	MJ.	AUD.	NTE	Atter.
23	1KS18EC023	DHEERAJ M S	Dee	Dbec	Deres	Dee	Dhee	Dec
24	1KS18EC024	DHRITHIRHUTH RAJANNA	PR	Dh	01	Dh	Dh	Pf
25	1KS18EC025	DINESH KUMAR NAYAK	Din	Di	Di-	Di	Di	Di
26	1KS18EC026	DIVAKARBABU Y	DN	DW	DW	In	Dr	pr
27	1KS18EC027	G.J.NITHIN	Niti	Niti	Not	Nhti	Xloti	Aliti
28	1KS18EC028	GANESH P	Cant	Gent	Gant	Gol	Gol	Golt

SI.NO	USN	STUDENT NAMES	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
29	1KS18EC029	GOKUL G	Jokes	Godel	Gotal	Gobul	Godi	Gobul
30	1KS18EC030	HARSH SHARMA	fail	- flout.	Hank	Hont	Hank	Hout
31	1KS18EC031	HARSHITHA S	Han	fler	Han	Harr.	Hay	Han.
32	1KS18EC032	JAHNAVI A P	Tas	Jas	Jag	Jag	Tay	Jac
33	1KS18EC033	JANHAVI K Ρ	Jah	Joh	Jah	Sah	Jah	Sah
34	1KS18EC034	JHANAVI V	Thous	Jani	Jow!	Tour	Jouver	Jour.
35	1KS18EC035	JISHNU S	Fit	Jut	Firt	Jibo	File	Jul.
36	1KS18EC036	JYOTSNA B UPADHYE	Fyll	Jyotz	Jaotel	Jupper	Jyotel	Jyo tel-
37	1KS18EC037	K RISHIKA RAVI	KR	PS	H.	KR	Ky	K
38	1KS18EC038	KARISHMA M	te.	Ka la	Ke	Xe_	Ke	Ko
39	1KS18EC039	KOMALA K V	Jowel	ford	Kinda	foul	Koule	Konde
40	1KS18EC040	LAVANYA M	Laword +	toway "	Lavarya	tavanda	Javanto	famouta
41	1KS18EC041	M.NIHITHA YADAV	NY	Nor	ANY	MA .	HH-	AY
42	1KS18EC042	MAHANTH SAI M	NO	to	NS	MS	MS	Mas-
43	1KS18EC043	MANOJ G S	Mage	NO	Moo	MO	1200	Mo
44	1KS18EC044	MEGHA R	Mey	Magle	Megla	Magle	Megher	- Maghe
45	1KS18EC045	MEGHANA B S	Negho	mage	10f	Notas	-rkefen	Magbox
46	1KS18EC046	MEGHANA GOWDA V	MB	MG	DG	-146	MG	Mé
47	1KS18EC047	MOHAMMED FAIZAN SHAFI	M.	MP.	MP.	-M-	MP.	19P
48	1KS18EC048	MONISHA B R	W.	MB	PHS	BCF2	AB3	æ,
49	1KS18EC049	N S V JASHWANTH	Fail	Jael	Joeb	bol	Joel	Task
50	1KS18EC050	NAGA OMKAR N	Naga	Naga	Nota	Noga	Neiga	Nega
51	1KS18EC051	NAGASHREE A	Natarlan	Nagarde	Nogal	Nagula	Nosauli	Nagaet
52	1KS18EC052	NAMITH R	North	Nort	North	Ment.	Not	Marth
53	1KS18EC053	NAVYA M S	Nama	Nonto	Nonta	Handa	Naverya	Namata
54	1KS18EC054	NIHARIKA S A	Niberko	Nibert	N: Lonle	Hibert	N:Look	Niberike.
55	1KS18EC055	NIROSHA G J	Nie.	Nho.	Ner	NID.	NA	Nhy
56	1KS18EC056	NISHANTH J RAO	Niele.	Neid	Ninh	Nisley	M.	Neve-
57	1KS18EC057	P SAI GOVARDHAN	Sai	Son	Sa:	\$2:	Sai	Se'
58	1KS18EC058	PARIKSHITH S	Buck	PORKING	Bar	Part	Porte	Pouil

K.S. INSTITUTE OF TECHNOLO BENGALURU - 560 109.

Alumas."

### **K.S.INSTITUTE OF TECHNOLOGY**

# #14, RAGHUVANAHALLI, KANAKAPURA MAIN ROAD, BENGALURU-560109

### **PYTHON PROGRAMMING**

ACADEMIC YEAR - 2021 -22 (EVEN SEMESTER)

DEPT / BRANCH : ECE

VIII TH SEM B SECTION

		CTUDENT NAME		14-24	Magr	Mage	Ma27	Ma28
SI.NO	USN	SIUDENI NAME	Ma23	Ma24		iviazb		
1	1KS16EC005	GURUVANNAVAR	Suclet?	1 -	Dry	Stril	May.	Very.
2	1KS18EC060	POOJA S	Poota	Poula	P00 2	200/4	200 0	Porto-
3	1KS18EC061	PRAKRUTHI S H	Protetti	Probati	Probuti	praby	prabab	proputu
4	1KS18EC063	PUNEETH M	furren	prined	fina	fine	phindh	phinam
5	1KS18EC064	PURUSHOTHAM V R	Rol	Fund	Roule	Real	ful.	Puet
6	1KS18EC066	RAGHAVENDRA.K.P	Rogla	Reepes	Rogent.	Kigg-	Roig	Roger
7	1KS18EC067	RAGHU B T	Roger	Regu	Ragas	Rivigu	Ragu	A orgen
8	1KS18EC068	RAJ KRISHNA	Raj	laj	Ray	Raj	Kay	tay
9	1KS18EC069	RAJATH S BHUSHAN	Ry	RIS	Rip	Ref	Ker.	Kot .
10	1KS18EC070	RAM BAHADUR MAHARA	Ban	Barr	Bar	Pan	Ran	Ban
11	1KS18EC071	RASETTY SANDEEP	70.80	Rase	Rase	Buse	Base	Base
12	1KS18EC073	RITHVIK P	PR	PP	BP	RP	BP	2P
13	1KS18EC074	S MANOJ	SA	SM	SMA	SM	8M	SM
14	1KS18EC075	S RAHUL	FR	8R	8R	8R	8R	8R
15	1KS18EC076	S TUSHAR HARINATH	Tush	Tush	Tich	Titsk	- Jish	Tight
16	1KS18EC077	SAGAR T C	Same	Sogan	Shaas	Sagar	Scort	- Logas
17	1KS18EC078	SANJANA B	Sam	Saus	Sam	Sam	Sam	Barry
18	1KS18EC079	SANKET B PASCHAPURI	Sanket	Saular	- Sanket	Samket	Souhet	Sanket
19	1KS18EC080	SHASHANK H K	show	8/018	Shine	show	SANS	shas
20	1KS18EC081	SHEETAL N GOWDA	Shah	Shuf	shop	Sheif	Sheef	- Xm
21	1KS18EC082	SHIVA SHANKAR.B	Shin	shiv	shiv	shiv	shiv	Shit -
22	1KS18EC083	SHREYA V DEV	Shrupe	Shreye	sheet	sheet	sheet	82.1
23	1KS18EC084	SHREYAS C	A	DP	AN	AP-	A	HA-
24	1KS18EC085	SHREYAS D R	A	Rh	Rb	Alt	de	dh
25	1KS18EC086	5 SHRIKANTH C K	A	Sh	SA	SA	SA	Sh
26	1KS18EC087	7 SIRI RAVINATH	Sim	Sue:	Siti	Sini	Sigu	SiRU
27	1KS18EC088	3 SIRISHA.M	Simple	Sinul	Sind	- Smill	Simul	Somte
28	1KS18EC090	SOMASHEKAR M	S	Sp	SINCI SI	e l	2	2

SI.NO	USN	STUDENT NAME	Ma23	Ma24	Ma25	Ma26	Ma27	Ma28
29	1KS18EC091	SUDHEER B	(A)	\$	~ <del>50</del>	\$	St	56
30	1KS18EC092	SUJAY R	"Supe	Suppos	Supp	Suger	Supp	Supp
31	1KS18EC093	SUPRIYA S	La	all	A	all -	li	de
32	1KS18EC094	SURAJ V GHORPADE	Siton	Sun	Ston	SYDA	lion	Sipa
33	1KS18EC095	SUSHMA.A.V	Ry.	SV	Su	Su	Su	Su
34	1KS18EC096	SUSHMITHA R	Rens	RW	Ley	As	dy	RN
35	1KS18EC097	THANUSH R S	ham	Han	Thene	Than	Anne	Than
36	1KS18EC098	THANUSHREE D	Tr	J2	J2	Z	Th	Jr_
37	1KS18EC099	VAISHNAVI G	Was	1e	16	Vg-	X	Vy
38	1KS18EC100	VAKKALA GADDA ANIL	VarA	VGA	XGA	VAA	VA	VOA
39	1KS18EC101	VANDANA K	$(\mathfrak{I})$	60	60	(90)	60	(Va)
40	1KS18EC102	VARSHINI.B.M	Voelin	Vorha	buchien	Vouhi	Voulin	Varle.
41	1KS18EC103	VASANTH PAI.M	Varhal	Vout	60	bih	Vaina	Varlo
42	1KS18EC104	VIJAY BABU K	VB	·VB	VB	UB	VB	VB-
43	1KS18EC105	VINAY K	VA	1Ab	VA	Vo	A	VA
44	1KS18EC106	VINAY S	Vires	Vite	VG	Vng	Vie	Var
45	1KS18EC108	VISHAL MADHUSUDAN	Vieh	Sich	Sista	Sigh	Vish	Viel
46	1KS18EC109	VISHWAS P	VP	X	A	MP.	XP	VH-
47	1KS18EC110	VIVEKGOWDA J	Liv	Viv	Viv	Viv	YAN	Viv
48	1KS18EC111	VRINDHA SHAM BHATT	JBB	YER	V&B	ASI	278E	VSP
49	1KS19EC400	HEMANTHA V	horn	home	berry	herry	hem	herry
50	1KS19EC401	KARTHIK B P	Kart	Kord	Kast	Kash	Kents	Koula
51	1KS19EC402	KRISHNAPRASAD B	AF	HP-	to	KP	KP-	5P
52	1KS19EC403	NAVEEN G	10	Ng	No	NS	Ng	NE
53	1KS19EC405	PRUTHVI DINESH	prel	hat	heat	hut	but	hud.
54	1KS19EC406	RAGHOTHAM C G	Rax	hey	Rah	Refu	Roh	Raphs
55	1KS19EC407	SADANA M	doal	dad	lad	Stad	são	Sad
56	1KS19EC408	SINDHU G	Ind	Lind	tril	Ind	lid	And
57	1KS19EC409	VARSHA M S	Varh	Jost	Vaik	Value	Nach	th

Shumas.



K.S.INSTITUTEOFTECHNOLOGY, BANGALORE-560109

# 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:**9.00AMTO4.00 PM

Duration:6 days

SponsoringBodies/AssociatingOrganization:Nil

ExpertDetails: Prof.Nagabhushana M, Prof.Ranganath N, Prof.Anilkumar A

### **Descriptionof theEvent:**

**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 -6<sup>th</sup>Semesterstudents 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 realworld engineering problems.

### CO/PO&PSO-Mapping:

CO/PO&PS O	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PS O 2
	3	3	3	3	3	3						3	3	3

**Dr.Umashankar***Professor* & *Head ME Dept* 

PRINCIPAL PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109



# K.S.INSTITUTEOFTECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-109 Academic Year 2021-2022 List of students & Attendance of Value added Course on Parametric Design Optimization of Machine Components Using Ansys Workbench

SI.	USN	NAME					Signat	ture of 1	the Stud	lents				
NO			23-05-2022(FN)	23-5-2022(AN)	24-5-2022(FN)	24-5-2022(AN)	25-5-2022(FN)	25-5-2022(AN)	26-5-2022(FN)	26-5-2022(AN)	27-5-2022(FN)	27-5-2022(AN)	- 28-5-2022(FN)	28-5-2022(AN)
1	1KS18ME001	ABHISHEK MANIKUMAR	Ar -	Ann	tr	An	An	Am	An	Æ	An	12	Ad	te
2	1KS18ME008	ANUSH.S	P	Ø	Ø	Ø	æ	Æ	P	Ø	Ø	Ø	Ø	P
3	IKSI8ME010	ATIF MANSOOR SHAIK	ATTF	ATIF	AilF	ATIF	ATIF	ATIL						
4	1KS18ME024	KARTHIK G S	te	Q	P	B	B	P	B	æ	æ	Ø	Ð	P

(23-05-2022 to 28-05-2022)

5	1KS18ME048	PRAJWAL NIKAM	The s	A	œ	CAR	REP-	P	Pro	Part	Fai	Ø	Ð	æ
6	1KS18ME056	ROHITH S	ROHI	ROHI	Roui	RoHi	POVò	Roké	Rolin	Ratt	Ra	Rar	Porr	P
7	1KS18ME057	ROJA G NAIK	ROJA	ROJA	দ্ব্যেদ	RaJA	POJA	ро́́лр	POTA	POJA	ρ-ο5A	POJA	POJA	(20) P
8	1KS19ME001	ACHINTYA S SAROVAR	ALL D	Ø	A	A	A	P	P	Ø	Þ	Þ	æ	A
9	1KS19ME002	ADVAIT SIDDANTH K V	ADVAIT	ADVAT	ADVOT	ADVA	ADVATI	ADVAT	ADVAL	AWI	Adva	ADVJ	for-	A
10	1KS19ME003	AJITH KUMAR R	ATT	15	AL	AD	Aw	ATTO	AE	fa	fa	sh	ADe	Ator
11	1KS19ME004	ARUN KUMAR M	AR VAT	APUNT	ARM	ABaat	ARDAN	ARUTO	Apor	Apro	Aren	Alur	ARUN	APtil
12	1KS19ME00	5 BHAVAN KASHYAP K	3 Hab Par	and and a	Bhalma	Harm	Buch	Jean Star	Sha	Lef.	a v	4. P	BLOAN	Brothin
13	1KS19ME00	8 CHARITHA S	chat	chur.	chem	. Chu	Cul	Charles	cwi	an-	Car	ha.	E_	<u>~~</u> .
14	1KS19ME00	9 DARSHAN N	Paper	- DAR	Down	p	- par	per	Dan	- Var-	-pc2	DAR	pp	Der
15	1KS19ME01	0 DHANUSH GOWDA M	Dhera	or phone	Dalm	Daw	Dolu	Du	- ban	Ok	Ren	Den	pu	Den
16	1KS19ME0	11 HEMANTH K	HEM	e Hene	Here	e pem	e Hene	- Hend	Hear	- Hever	- Ho	hehz	Heen	Hem

ß

17	1KS19ME013	JASHWANTH S	Josh	Jash	Jash	Jash	Jash	Jash	Jash	Jash	Joh	-JESh	Josh	-35h
18	1KS19ME014	JAYANTH T K	R	Ø	¢	Ø	Ø	Ō	Ð	Ø	æ.	B	Ċ	Ð
19	IKS19ME015	JEEVAN B S	Jeéla	TEN	E.	JEVA	JEFUP	逝V#	JEEV	JETVA	ZE	JEEV	JETA	JF1L
20	1KS19ME016	ЛТНАN A	5.J	æ	Ð	Ģ!	Ø	Ø	9	P	Ø	Ø	Ø	Ą
21	1KS19ME017	MADHU V	MADHU	MADY	MADHL	MADH	MB D1+7	MADA	MADA	MAD	MPD	Abo	MADHL	МАДН
22	1KS19ME018	MANUKUMAR D K	Ra .	æ	A	Ø	- quo	a	A	æ	A	A	1 <del>40</del>	₽₽_
23	1KS19ME019	NIHAL M L	Rent	Q	ad	And	and	ad	(AD)	m	лд	AD O	ma	HAB-
24	1KS19ME020	NITHESH S R	N755	V. JLSK	17 HE	riff.	Xin	1 in y	Str	Story .	Bar	9. J	67,29	639.7×1
25	1KS19ME021	PRAJWAL KUMAR R	R	R	P	RI	2	R	R	R	2/2/	R	12	R
26	1KS19ME022	PRASANNA KUMAR S G	P	Phr	Per	P	Pr	P	p	Ru	R	j2-	12	12
27	1KS19ME023	PRATHAP REDDY T M	RED	REDZO	REA	E.	VERT	RED	PPE	2.1630	E.	PEDD	PERM	RERED
28	IKS19ME024	R DEEPAK A RAO	AROC	APA	p2 Pe	ARAO	ARAO	A.P.AO	ARAC	ARA	ARA	Ale	APAO	APAS

29	1KS19ME025	R MANOJ REDDY	₽¢	A	(A)	A	AN	Ø	A	A	A	a	A	A
30	1KS19ME026	RAHUL R	RAVUL	RAHL	2 phil	EAN	(as	ph	pD	p	pph	phel	ent	pull
31	IKS19ME027	RAKSHITH NAGESH	AL	-	A	Ø	Ø	Ð	Ø	A	A	Ð	R	97
32	1KS19ME028	RAMACHANDRA S	An	pin	p	ρ	Ru	km	R	R	Ru	h	Ru	R
33	1KS19ME029	SANJAY.V	e	Su	San	Su	Su	de	Su	Su	Ser	-Su	Lu.	Lu
34	1KS19ME030	SHREYAS B	1	Su	fr	du	L	Lu	L	f	h	Si	Si	h
35	1KS19ME031	SHREYAS H VASIST	NASIST	VASA	VA	Whose	Vou	Am	Vifer	Va-	An	m	Von	m
36	1KS19ME032	SRIKRISHNA SANTHOSH K	SP.1	521	SPI	SRI	SRI	SPI	SRI	5.R1	SRI	SPI	SRI	SA Z
37	1KS19ME033	SUJAY ADITHYA	Q	Ŵ	Ð	¢\$	Ð	B	Þ	ð	Ø	Ø	Ð	Ø
38	1KS19ME034	SYED ASMA ASHEER	PSNA	ASN.	Asne	SEMA	iasma	ASMA	ASMA	-Osno-	Ser.	Acr	An	Hen
39	1KS19ME035	5 THEJAS V R	V	V	K	A	K	14	12	K	.12-	1/	Ľ	12
40	IKS19ME030	5 TILAK P	Ø	P	P	Ð	P	P	P	P	P	Æ	P	P

/	/														
	41	1KS19ME037	VAISHNAV H	Vou	ØVor	Vor	Your	V'A	An	Karm	KAD 1	P	a	jam	zun
	42	1KS19ME039	VENKATRAMANA G BHAT	Q	Ŧ	Ą	P	Ð	- P	P	Ø.	Ø	V	Ø	$\mathcal{O}$
	43	1KS19ME040	ZAFFAR ABDULLAH SHEIKH	-	the c	P.	P	A	Ph.	pn~	Ar	, fr	fur	An	An

ance .

Dr.Umashankar Professor & Head ME Dept

(4)

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 – 4<sup>th</sup> 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
														2
	3	3	3	3	3	3						3	3	3

**Dr.Umashankar** *Professor & Head ME* 

PRINCIPAL PRINCIPAL C.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109



### K.S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-109 Academic Year 2021-2022 List of students & Attendance of Value added Course on Usage of Genetic algorithms(Matlab) in optimization of Mechanical Engineering Problems

SI.	USN	NAME					Signa	ture of	the Stu	dents			1	
NO			6-6-2022(FN)	6-6-2022(AN)	7-6-2022(FN)	7-6-2022(AN)	8-6-2022(FN)	8-6-2022(AN)	9-6-2022(FN)	9-6-2022(AN)	10-6-2022(FN)	10-6-2022(AN)	11-6-2022(FN)	11-6-2022(AN)
1	1KS20ME001	DARSHAN S	D.	D	D	D	D	D	D	$\mathcal{D}$	D	D	D	D
2	1KS20ME002	HARSHAVARDHAN.V	the	- the	He	Ha	the	H	Har	th	H	4	1-h	the
3	1KS20ME003	HARYANK V KASHYAP	Har	- Hurt	-Hor	· Hug	-Hz	Heg	He	- Have	- Hu	Hay	-Ha	Huy
4	1KS20ME004	KUSHAL KADAM	Alter	-1442-	1000	the	de la	the	the	the	All a	-\$\$	the	Auto

### (6-6-2022 to 11-6-2022)

														The second se
5	1KS20ME005	PRANITHA.R	Con-	RE	₽æ~	æ	8000	B.P.	80	RE	<b>A</b>	Re	die-	A.
6	1KS20ME006	SHALINI D S	Jum	Su	den	b	de	Su	So	Su	du	ber	d-	der
7	1KS20ME007	SHREYAS.S.K	Sm	Su	Sh	Inz	- ân	8	h	aus	- &	- 8-	£	the
8	1KS20ME008	SUPRITH GOWDA J	dupatte	Support	- Juport	Entert	Supatto	Support	Subitto	Supotto	Suprit	Solite	Saterito	Bapatto
9	1KS21ME400	PRAVEEN K	Palase	Plas	8 Pro	a pres	P.P.S	200-	880-	PPP	Alle .	AR .	P.P.	P.P.
10	1KS21ME401	PRERAN GOWDA K	Russ	Berg	Por	bus	Par	Hom	Br	R	pre	for	R	fm
11	1KS21ME402	VINEETH P	Vreen	When -	WKS	ALTER AND	Varen -	14mm	Abo	Water	Water	Wee	- Utom	the

Dr.Umashankar Professor & Head ME Dept

una Ø

Dr. Dilip Kumar K Principal & Director



K.S.INSTITUTEOFTECHNOLOGY, BANGALORE-560109

# 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:9.00AMTO4.00 PM

Duration:6 days

SponsoringBodies/AssociatingOrganization:Nil

ExpertDetails-Prof.Nagabhushana M,Prof.Anilkumar A, Prof. Harish U

### **Descriptionof theEvent:**

### 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.

### Participantdetails –8<sup>th</sup>Semesterstudents of Mechanical Engineering-91students



#### 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&PS O	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

PRINCIPAL PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109



### K.S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-109 Academic Year 2021-2022 List of students & Attendance of Value added Course on Reverse Engineering Concepts and Structural Analysis of Mechanical Engineering Problems

SI.	USN	NAME					Signa	ture of	the Stu	dents				N)
NO			25-04-2022(FN)	25-04-2022(AN)	26-04-2022(FN)	26-04-2022(AN)	27-04-2022(FN)	27-04-2022(AN)	28-04-2022(FN)	28-04-2022(AN)	29-04-2022(FN)	29-04-2022(AN)	30-04-2022(FN)	30-04-2022(AN)
1	1KS15ME057	PUROITH S SHETTY	63	<u>888</u>	BS	158	232	P38	<b>F</b> 3-	82	1255	£8	133	82
2	1KS16ME001	A K ADITYA	AWAdi	n C Adi	A.Hadi	A'K. Ad	AK Adi	A.K. Adri	AMAdi	AKA	AILAdi	ALAdi	AE: Ad	A.E. A.d.
3	1KS16ME037	M G SUHAS	Subal	Suto	Subas	Studios	Sulas	Sachos	Spechas	Subas	Suchar	Suhers	Shahars	Suhas
4	1KS16ME039	MADAN K V	MR	240	100	200	P	En .	B	P	R	P	(M)	-

### (25-04-2022 to 30-04-2022)

Page 1 of 9

5	1KS16ME072	ROSHAN GOWDA H	Usend	Unand I	elverit	Rivers	Rund	Elemand	Blower	Recowe	Rhough	August	Rundo	formely
6	1KS16ME442	AJAY.V.HALGERI	fjory holjeni 1	Ajay	Ajan/ holgeri	Ajay	Aiguy	Ajory	Ajwy	Ajony	Ajony	Ajony	Ajmy	Aj au/ holgini
7	1KS17ME005	AKASH.H.S	Kashah	Albert:	Ataslu	Akenth	Altersh	Allash	Akberh	Allash	Alard	Alcash	Akash	Atash
8	1KS17ME015	BHASKAR R	Bhaskar	Bhaskar	Bharton	Bhastan	Khoskar	phastar	Bhartar	Bhasker	Blook	Bhaston	Bhaster	shaskar
9	1KS17ME017	CHIRANJEEVI U	hung	chunt	-Church	. churri	Chunk!	نسس	Churr	لسب	ننسل	Chini	. Chemi	Chumi
10	1KS17ME026	GIRIDHAR.M.P	Cirine	Curinel	Criming	hirrimp	hiri mp	Cirin p	himming	Giring	hirmy	hiving	hiring	hirimp
11	1KS17ME049	PRABHUDEV C M	Proabu	Pratin	frahu	frabu	Pradh	Poolen	Pratu	Prabhy	Prata	Produ	Prain	Probu
12	1KS17ME029	) JAGRUTH S	Egrett	Dott	Japath	ingest	Engral	and P	(pysett)	1 Davit	int	Jag sat	Ingent	Jaymett
13	1KS18ME00	2 AKHIL JITH K S	ALB	AN	ALY	AKP	ALSP	ALLP	AKP	ALS	AN	AKS	Alle	AK
14	1KS18ME00	3 AKSHAY S A	Akshay	akehay si	estaboys	AKshay Sr	Akihay	Assolution	Akshayson	Atchingst	Atshoj	Arshay	orchay SPr	Akhay SA
15	1KS18ME00	4 ANIRUDH R	Anion	h Amiren	Aniral	h Amirud	Amrud	Anizondu	Amend	Amrul	Amind	Amiral	Averade	Awarnath
16	1KS18ME00	5 ANIRUDH R SRIVATSA	ARSNI	ARSiove	ARSING	ALR8 Dive	ARSTIVHS	ARSTrots	phersiet	PESmin	ARST	ARANie	ARDENTR	Assaivato

17	1KS18ME007	ANUPAMA.V	anuluma	Anuquera	Anupama	Annama	Anupama	Anupama	Anupama	Апират	Anupam	a Amerama	Алирата	Anupama
18	1KS18ME009	ASHISH VILAS JADHAV	ANJ	AN	AW	Ay	Quy	AM	Avig	Ąmj	AN	ĄŴ	٩٣	AM
19	1KS18ME011	BHARATH R	Blonath	Shoutt	Shouth	Bhowath y	Show the	Bhonth K	Bharatha	Bhoneth	Bhovath	Bharit 6	2 Bhorith B	8hurath N
20	1KS18ME013	CHETHAN KUMAR R	cheston	Cheton Human	Cheston Yumor	chitan Kung	Undown Fund	Unitan Chart	chetan Fund	Uniton Verman	Uniton Uner	Choton Kemor	Chotan Remor	Chetan Luno
21	1KS18ME014	DARSHAN G	Durden	Dasher	Dashoy	Dasher	Darsho	Darsher	Darsha	Darsh	Dareho	Daruhan	Darsham	Jashan
22	1KS18ME015	DHANARAJ H D	Sharve	J dharase	dharara	dhanoore	danny	dhanorg	dharary	dharary	dhavey	dlanes	dhaven	dhavery
23	1KS18ME016	DHANUSH B M	olloup	chall	drawy	dues	chang	dum	ahren .	dum	chu	Shing	dhim.	Muy
24	1KS18ME017	G DEVENDRA	6 Drus	e rom	Loved	- Worund	horner	Lorent	6. Drundry	Words?	hornet	Corrents	horent	hovener
25	1KS18ME018	B HARISH.B	terl	Renad	Harvel	Head	Haush	Harist	Harring	shoush	todsh	Freigh	Horristo	Harrish
26	1KS18ME020	) HARSHA.P	Housh	PHarsho	.P Harsha	19 Harsha	r Harsha I	9 Hasha P	Harsha r	Harshat	Harsh	'Harshat	Harshar	Hoasha P
27	1KS18ME02	I HEMANTHKUMAR M P	Hmp	Amp	Hony	Hung	Hung	Hang	Houp	Hong	Hood	that	stong	HAND
28	1KS18ME02	3 K JEEVAN KUMAR	Jew	Jone	Jenn	Jum -	JOEN	Jewo	for	Just	Calibr	Joulan	Jouron	Lowvan

29	1KS18ME025	KAUSHAL S	Laugh	Faust	Haust	Koust	Faush	Koul	Koush	Koust	tous	Yourd	former	faught	
30	1KS18ME026	KEERTHANA M	Kourt	Koun	Kuhi	Fert	Kew	Kente	Ken	for	for	Ken	Ken	Fur	
31	1KS18ME027	KIRAN KASHYAP G B	Kone	Kom	har	Enron	Xom	Karn	Kurt	harm	par	ker	Kura	fem	
32	1KS18ME028	KUPPALA AKHILESWAR	Aler	Ser.	Hed	H22	Dred	DEll	ffil	Apor	Kon	AFER	AKHUL	FRIGE	
33	1KS18ME029	LINGESH GOWDA R	Gond	Conde	Court	Court	Gorat	Gurda	Casult	Boula	Geode	Grut	Grit	Bouch	
34	1KS18ME030	LOKESH G	lobge	10609	Lops	lokest	Lofesh	Lokesh	Colosh	Colest	(203 <sup>g</sup>	ldest	(8)esh	Lotest	
35	1KS18ME032	MALLIKARJUN	Allit	AND.	ppi	ADO	+Poller	pli	rfeli,	poli	Roy	RUI	pul	Roller	
36	1KS18ME033	MANOJ A	they	thing	flow	Porty	Maring )	Pary	Paty 8	fairi	Harr	Hair	obig	April	
37	1KS18ME034	MD SAIF ULLA AMEEN	Ren	n Kun	An	Agins	Aller	Janes	parties	LOOP	Som	a post	Hom	Doum	
38	1KS18ME035	MOHAN R KRISHNA	KNU	Fer	the	y Kur	pi	Ki	kur	Ku	Feel	fut	Her	how	
39	1KS18ME036	MOHAN RAJU G	Sa	Aug	Ale	-BA	Ray	ex,	Ray	payn	pay	Rase	tage	page	
40	1KS18ME03	7 МОНІТН Ј	Ren	head	Adri	sperk.	photi	Hokid	bland	for	Roh	FIGH	Star &	Pohl	
41	1KS18ME038	NAGANITHESH S N	Sof	Wag	Mag	Rag	Alag	Hage	piag	Neng	rfag	Ng	Agg	Acg	2
----	------------	--------------------	-------	-------	--------	------	------	---------	----------	--------	------	----------	--------	--------	---
42	1KS18ME039	NAVANEETH KRISHNA	au	Erel	trus	Kins	Kost	Frel	prist	Katist	KN	ENS.	Fus	First	2
43	1KS18ME040	NIKHIL BHARADWAJ V	Aller	Tikly	Nilly	Off.	Atro	AND	Nithe	Artel	AN	, Well	Niklik	Rikhel	/
44	1KS18ME042	NILOTPAL DAS	pos	por	Qu'S	DB.	Des	Mr	608	Jos	me	MR.	Jal	Jan S	
45	1KS18ME043	NITHINKUMAR K S	Kenn	low	Ker	Koly	they	Kan	Kul	Kauk	Vert	Kell	Kour	Keyre	
46	1KS18ME044	OMKAR M V	afe	offe	tople	ma	pmke	enka	onfe	30MCu	omt	onfa	Onfe	Omter	/
47	1KS18ME046	PAVANKUMAR.H.M	One	Jal	part	(por	per	peo	pilo	paver	The	Paux	paular	path	/
48	1KS18ME047	PRADYUMNA G	Nel	Popul	Paus	FILL	Pai	Press	Prod	nd -	Par	<b>V</b>	0.40	plant	
49	1KS18ME051	PRERANA A M	Row	Row	Row .	plan	Run	ph	Pour	pom	25	Plan	Been	m	
50	1KS18ME052	RAHUL B N	Rahel	Rahel	Rahe	Call	Rahd	pahel )	Jedan !!	Joho	Folu	pa	pahil	John	
51	1KS18ME053	RAHUL P	Joly	abert	Keihil	tal	À	And	Kahl	fahl	Park	Parl	Rahe	Rahel	
52	1KS18ME054	RAKSHITH A	lake	RAD	Palal	Rade	Rati	falles	Path	FARS -	Jake	Roll	Pal	Palls	_

	53	1KS18ME058	SACHIN GHARABUDE	alun	pert	poly	Godi	Sael	Sach	Sael	Col	Sil	çadu	Sol	Saul
	54	1KS18ME059	SAI KARTHIK R	Gel	200	Sal	Sou	gre	Sal	Sal	Soo	Sie	Sail	Sar	Soul
	55	1KS18ME060	SANJAY RAO G	Q.	Ì	Ca .	G	B.	8.	$\bigotimes$	Z	B	Z	8	R
	56	1KS18ME061	SANKARSHAN DESHPANDE	Dog	Job .	pob	Jos &	nog~	NA	DES-	JB	for	-708	DOS	Der
	57	1KS18ME062	SANTHOSH K	Q	0	R	B	B	S	B	B	92	B (	9	8
T	58	1KS18ME063	SANTHOSH M	SA	Sh	500	Sm	SAV	SM	Sm	Sø	Sa	Sm	Sm	SM
	59	1KS18ME064	SHARAN V KUMAR	Suf	SUO	316	SUL	SUR	SUK	SUF	SUC	Sul	STL	SUL	SVA
	60	1KS18ME065	5 SHASHIDHAR S	Q	BI	B	D	A	BE	2-0	A	Æ	Se	BE	A_
	61	1KS18ME066	5 SHRINIDHI D	S	S	SD	80	88	(SD	(S)	SO	SP	SDE	SD (	SP
	62	1KS18ME06	7 SHRIVARSHINI G M	Son	Sla	Red	1 Su	But	Sonan	Barber	Sapan	Son	Ser	San	Sam
	63	1KS18ME06	8 SOHITH S	est	S	8	\$ 8	\$\$	\$	8	85	85	85	85	85
	64	1KS18ME06	9 SRINIVASA R	42	03	St	SP	SP	St	St	SF	SP	SP	SPA	39

					1	/		11	1					
65	1KS18ME070	SUHAS H J	( ) JY	k wh	SZ	(	Bul	Sur	Cur	Gul	for the	h de	Cat	Ku
66	1KS18ME071	SUHAS J	\$5	<u>s</u>	55	SS	S/S	55	55	55	85	5	SS	55
67	1KS18ME072	SUMUKHA T V	5-IV	ST V	STJ	Chy	Str	SKJ	SN	311	Srv	510	SIN	510
68	1KS18ME074	SWASTHIK D K	SPL	SAL	sil	SDK	SV	SDC	SDR	-500	SD	SDR	SOK	- SDI
69	1KS18ME075	SYED ALI FAIZAN KHADRI	Kr.	xí.	p.	Dr.	SÍ	Ni	BU	Ave	Ato,	Kti	Kti	Abe
70	1KS18ME076	TEJAS A B	ser.	Ja S.	5	550	W. M	ag .	103	1030	low	10) (	(M.	5
71	1KS18ME077	UDAY KIRAN P	Vale	libbe	h USA	VSA	Ustal	blac	vdq.	star	Vde	VSA	Voley	Way
72	1KS18ME078	UJWAL N	ne	u	w	W	W	"WL	reve	w	Lin	W	Vie	W
73	1KS18ME079	VARUN M	JHZ	VE	Vor	Nal	The	.Vol	Voy	NM	Val	Mal	Vay	· Var
74	1KS18ME403	AKHIL PUROHIT	K)	M	ML	Kr.	\$X		K ~	R y	E.	K.	$\left\{ \cdot \right\}$	HF.
75	1KS18ME424	NIHAL M POOJARY	and a	X	Ray	Rad	PORY	Jors	for)	pry	pus	port	PAS	Port
76	1KS18ME440	YATEESH H JAMADADE	RO/	D	De	Rail	( Ph)	Jan .	(Yor	No.	Jah	Ym	Zald	500

	1 1 1 1 1 1 1													
77	1KS19ME400	AKSHAY R	X	X	R	XA-	R	X	R	M	fr	AF	NP	A
78	1KS19ME401	AMITHKUMAR M	â	X Stal	An	A BA	(Ja)	Dar	Am	AQ1'	for	£6)		(OC)
79	1KS19ME402	ANAND S	Han	Agre	Panes	Trad	Dond	And	Konner	LOW 2	LON	Xare	Xor	MOL
80	1KS19ME403	Z D MANISH	ESON	DM	Day	XM	DD	MD	DD	M	Da	RD	()m/	Day
81	1KS19ME404	DHANUSH K	R	DÉ.	-DC	DL	De	DE	DA	OR	N.	pr.	D.	dar
82	1KS19ME405	JAGADEESH PRASAD S K	(and	Jeg .	(m)	(ch)	In	( wy	(B)	mb	And A	Ka .	Sala	SNM
83	1KS19ME406	JANARDHAN R	ÉS.	O.C.		S	J	SE	35 C	5 C	3	I	S	ß
84	1KS19ME407	KUNAL SAGAR S	Level	Var	furd.	KUM	Kennel	rem	Kint	fund	Kan	M	XP	VSC
85	1KS19ME408	NIKHIL SINGH K	Red	HV	P	AN AN	port	Pl	Rem	- Me	À,	All	pal	All
86	1KS19ME409	PRAJWAL S	Ru	Rey	duz	and a	Leg	Find	MB .	pla	In)	840)	plas	p12)
87	1KS19ME410	SANJAY P	cour	Sport	Say	South	Jon (	300	ġ/a	Jos (	200	Sola	any	XX
\$8	1KS19ME411	SHASHIKIRAN A	Or	SX	AN	SØ	8K	Ň	SA	SK.	SA	ŞK	A	ŠK

89	1KS19ME413	SUMANTH KUMAR R	A B O BO GN SW O B SV H SY
90	1KS19ME415	YOGANANDA A N	MANDEN ON ON ONCO
91	1KS19ME416	YOGESH H M	KAD MY 200 THE WAY WAY WAY WAY WAY WAY WAY WAY
			ANT AND VOY

. Dr.Umashankar Professor & Head ME Dept

100 7

Dr. Dilip Kumar K Principal & Director



### **K S INSTITUTE OF TECHNOLOGY** DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### A REPORT ON

### **"CYBER SECURITY & ETHICAL HACKING"**

Semester:	4 <sup>th</sup> Semester
<b>Event Type:</b>	Course
<b>Event Name:</b>	Cyber Security and Ethical Hacking
Date/Duration/Timings:	11/07/2022 to 16/07/2022 / 6 Days / 9:00 am to 4:00 pm
<b>Associated Bodies:</b>	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	<b>PO1</b>	PO2	PO3	<b>PO4</b>	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	PO11	<b>PO12</b>	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 Dumorisa Durhallz.

**Event Coordinators** 

( Descarapu

Prof. & Head, CSE

RINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109

PRINCIPAL

### K. S. INSTITUTE OF TECHNOLOGY

5

3

ł

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

13

#### "CYBER SECURITY AND ETHICAL HACKING" Academic Year 2021-22

#### List of Students and Attendance

### Date: 11/7/2022 to 16/7/2022

SINO	USN	NAME	1		Signatu	re		
SLIVE.	CON		11	12	13	,14	15	16
1	1KS20CS001	A AKASH	-Kash	AKON	Alasi	AKa	Stah	AKM
2	1KS20CS002	AAQIB BASHIR	Acquito	Aques	Hagoyb	Acquis	Aagob	Acqie
3	1KS20CS003	ANAND V S	Arrand	Anad	anad	Araid	pried	Port
4	1KS20CS004	ANANYA PATIL	Aner	Ann	And	Ana	Anel	Ana
5	1KS20CS005	ANIRUDHA.K.K	AID	AIN	KINS	Ans	4ths	1An
6	1KS20CS006	ANKITA CHOUDHARY	Ann	Ann	An	An	An	An
7	1KS20CS007	ANUPRIYA C	Anc. 1	Aur	An	An	AN	An
8	1KS20CS008	ANUSHREE G M	Ans	Ann	Ane	Ann	(Atri)	Ann
0	1KS20CS009	ANUSHREE H	A-	A	(R)	A	a.	SP.
9	1852005010	APEKSHA M	TA.	A	( )	(A)	AP,	QP.
10	1K320C3010	ARCHIT GANAPATI	and a	den	Run	Del	delle	du
11	1KS20CS011	AVADHANI		\$0	est -	5		000
12	1KS20CS012	B JAIDEV	KAR	0 Kg	BA	15te		With a
13	1KS20CS013	BASAVESH V L	( And	12ans	15002	Razz	15022	Rows
	1100000014	BHUMIKA	E Juniles	Bhunut	Plumero	Runito	Rumito	dunit
14	1KS20CS014	UMACHAGI	Vite		8	Vie	Sva	BV
15	1KS20CS015	BHUVAN N GOWDA	Phile	-B/nd	- Rfa	Por	por	Bb
	11/020000016	BOMMINENI	Donales	Bound	Bound	Bonna	Bound	Round
16	TKS20CS016	TEJASWINI -	130-		Z.		K	FR
17	1KS20CS017	BRUNDA B	R-4	13-H	K. #1	K.M	15.D	B:D
18	1KS20CS018	CHAITRA R	Chow	Chair	choi	Charle	Chai	that
19	1KS20CS019	CHETHAN S	the o	On	Chie	en	CW	Ch
20	1KS20CS020	DARSHAN M S	Dar	Jan	1 an	12	12-	D
21	1KS20CS021	DHANUSH Y	than ?	E la a	60 In	Da	6 chi	the
22	1KS20CS022	DHANVIN C	Plange	Diawas	Dionars	Digne	Diguas	Dhava
22	1852005022	DHANYA SHARANYA	O Diania	Maria	Station D	Nohy	e Olony	Dian
25	1K320C3023		Shing	Dhang	Y	DIT O	1/ Int	The
24	1KS20CS024	DIVAKAR M DIVYA VEERAYYA	Dive	12.5		17.7.4	INE de	Dur
25	1KS20CS025		mar	Pur	1 Jugar	1 m	1 Ale	1 - C
26	1KS20CS026	EDUMUDI ABHINAYA	det	Eft	6	EU	- Cr	100
27	1KS20CS027	G SANJANA RAJU	Sange	Sing	Scy	Sit	1 and	12 mg
28	1KS20CS028	GAGANA C L NAIK	GN.	Krhu	GAL	Gill	GUY	gerry.
29	1KS20CS029	GAGANA R	Gargena	(againt	- (20000-	Gogaria	100gorga	bagan
30	1KS20CS030	GANASHREE G M	(Gh)	Gin	tomo	GIM	(9×14)	(GM
31	1KS20CS031	GANASHREE K	Gana	Gana	Gang	Grano	Gana	Gan
32	1KS20CS032	GIRISH G	(J.H	(n· )	UN-A	Q.A	M·M	10.1
		GOEL ANANYA	Cade	Cart	Toal	FOOL	for	Igai
33	IK520C5033	DEVENDRA	000				C.	
34	1KS20CS034	GURU KASHYAP N S	and	(ma	(mm	Green	m	(Sin
35	1KS20CS035	GURU KIRAN S	Gueris	Towns	Crures	Durn	(Juri	Fruites
36	1KS20CS036	H A SANKEERTHAN	$\omega$	a)	a	(QC)	$\frac{\alpha}{\alpha}$	a,
37	1KS20CS037	H A TRISHALA	Ent	NTT	HAT	LAM	HAI	PIL
38	1KS20CS038	HARSHITHA B R	Win	How	(Nbur	Her	1 (por	10p
39	1KS20CS039	HONOKSHARATHNA	GK-	(DED)	SH	SH_	10D	St
40	1KS2005040	HRITHIKAS	Hal	H.S	4-8	H.S	H.S	H.C
41	18 52005041		Satia	Sal	John	Fahn	Jaha	Fah
41	182005041		Kal-	1000	- Jnes	Kon	Tes	Jan
42	1K520C5042	JEEVAN	10	1212	1 AR	FR	SAS	GAR
43	1KS20CS043	JNANESH A S	OAO	200	KR	- Sur	2 Den	-500
44	1KS20CS044	JONNA DILEEP	1 Contraction	100	V.V	12.91	Faitle	Kout
45	1KS20CS045	KAVITHA R	Kavitla	name	POUL L	11-110	- Kas. YA	Kalla
46	1KS20CS046	KAVYA R	Lange	Lang	1 yango	Harry	dr D	6
47	1KS20CS047	KUSHAL.K	Kush	Kitte	- Kathan	terre	A	- ALA
48	1KS20CS048	LISHA NIDHI A M	Lisher	prich	place	aust	elange	par
				1 atr-	a-	100	122	6
10	18 \$200 \$0.40	M SANTOSHKUMAR N	12	1 Par	X			
49	1KS20CS049	M SANTOSHKUMAR M HAMPANNA		KAP	MX	MA	M	M
49 50	1KS20CS049	M SANTOSHKUMAR N HAMPANNA MAHIM SUBHASH	MS	MS	MS	M	MA	Mar
49 50 51	1KS20CS049 1KS20CS050 1KS20CS050	M SANTOSHKUMAR N HAMPANNA MAHIM SUBHASH MANDARA K S	MS	MS	MS	Mo	MA	Mar
49 50 51 52	1KS20CS049 1KS20CS050 1KS20CS051 1KS20CS052	M SANTOSHKUMAR M HAMPANNA MAHIM SUBHASH MANDARA K S MANISH PIKHAN	MS Maria Min	Mis	Mo	MS Asa	MA Ment	Mar And
49 50 51 52 53	1KS20CS049 1KS20CS050 1KS20CS051 1KS20CS052 1KS20CS053	M SANTOSHKUMAR N HAMPANNA MAHIM SUBHASH MANDARA K S MANISH PIKHAN MANISHA G N	MS Mcul Man	MS Man Man	MS Ma May	MS Asal Mers	Man Ann	Mar Mar
49 50 51 52 53 54	1KS20CS049 1KS20CS050 1KS20CS051 1KS20CS052 1KS20CS053 1KS20CS054	M SANTOSHKUMAR N HAMPANNA MAHIM SUBHASH MANDARA K S MANISH PIKHAN MANISHA G N MANJUNATH R	MS MS Man Man	MS Herd Man	MS Mar Mar	MS Man	MA And Man	And And And And And
49 50 51 52 53 54 55	IKS20CS049 IKS20CS050 IKS20CS051 IKS20CS052 IKS20CS053 IKS20CS054	M SANTOSHKUMAR N HAMPANNA MAHIM SUBHASH MANDARA K S MANISH PIKHAN MANISHA G N MANJUNATH R MONICA C S	Man Man Man Man La	Mis Man Man Man Man	MS May May Mon	MS Man Men Men	MA Arau Man how	And And And And And And And And And And
49 50 51 52 53 54 55 55 55	IKS20CS049 IKS20CS050 IKS20CS051 IKS20CS051 IKS20CS053 IKS20CS054 IKS20CS055	M SANTOSHKUMAR M HAMPANNA MAHIM SUBHASH MANDARA K S MANISH PIKHAN MANISHA G N MANJUNATH R MONICA C S	Mas Maria Maria Monto Monto Monto Monto Monto Monto Monto Monto Monto Monto Monto Monto Monto Maria Ma	Man Man Man Monest	MS Ma Man Mon Mon	Mony Man	MA Arene Man han han han	Man Anar Anar Anar Manue None

	38 TK320C3038	N KEERTHANA	KODQL	Rowal	ROOM	Poort	COINTS	Roan
-	59 1KS20CS059	NAJEEB MUTHAHEED	NINA	NINA	NIM	NINA	NALA	NNA
	10 11252005060	NAME ATTACK		10	The	JANKA -		
-	00 TK320C3000	NAMKATHA K	Ven	Ivan	1 van	1VIA.	Vela	Nen
	61 1KS20CS061	NARASIMHA N	1	00	N	- N	A	R
	62 1KS20CS062	NEHA REDDY S	NR	nx	NR	18	AS I	KL
-	()			14.4	143-		TAL	1. Chi
L	63 TKS20CS063	NIDHIKV	Nian	Non	None	Name	1 peru	ALAM
	64 1KS20CS064	NIRMITHA N	Notety	North	Aby	Mich	10ghx	1000
F	45 114 5200 5045	NINITUESH KUMAD	1.11	224	al alla	And	1 with 2	Appro
L	05 TK520C5005	IN NITHESH KUMAR	ritre	Acres	reca	ARTE	Velisa	A A A
	66 1KS20CS066	NUTHANAFATT	Anno	Nen	Nen	-Dan	Alex	Mar Co
-	67 1V S20C S06	DADVA SHREE H M	9.00	RLI	PSh	PSL	PSH	0.14
L	67 TK520C3007	FARVA SIIKEEII M	11 Tah	107	-0-1	10-11	Pri	PIL
	68 1KS20CS068	PARVATHY P S	Dell	Pary	pua	NE	- An	- An
	60 1KS20CS069	PAVANC	1 de la	Dis	Piso	NES	PO	let
ŀ	07 TK320C3005	- IAVAILE - 2	1500	+ Diza	11	COV	PK	PK
	70 1KS20CS070	PAVAN KUMAR S	FRE	APT	n Pr	0.1	0.1010	Dallar
F	71 185200507	PAVAN M	Chiran	Kinn	pavon	Palan	avan	-act
ŀ	11 1132003071	- Internet	12 1114	Disnes	Para	Paul	Paron	Hene
	72 1KS20CS072	2 PAVAN P	anin	Purches	The p	Dest	Para	Pan
	73 1KS20CS07	3 PAVITHRA R	Kart	Kary	tind	PGV	1 ave	aut-
		I DOOLTTILA V	EV-	app	AV/	and a	(V)	
	74 IKS20CS07-	4 РООЛТНА Т	1200	DOM	12020	MAAN	WAR -	Mart
	75 1KS20CS07	5 POONAM	Van	pun	1 VIX	1 PULL	DA	SV
		DRADUVIIMNA K	Propi)	PR	(PR)	CPR	TPL-	1
	76 IKS20CS07	8 PRADH I UMINA K	000	parter	Praire	Pravia	Podin	Pocel 4
	77 1KS20CS07	7 PRAJWAL NAIK U	traja	0.00	110	17700	1218	TRA
	70 11/ 5200507	R KUSHAL SAL	VKC	FK KS	IKAS	10PD	The start	1607
	18 INS20CS07		1000	100)	V ROJ	CROZ	KO>	
	79 1KS20CS07	9 RAGHAVICS	SKE	Kitz-	1 de la	JAK	Tokah	Cars
	80 115200508	0 RAKSHTIH.C	Jakin	ann	12000	17.11	D-1	Ralhah
	00 110200000	I DAVEUITIA D	12 All	KR	Kals	Kan	War >	1 All and
	81 1KS20CS08	I KAKSHITHA P	1 The P	ON	(Dri)	RR)	RR	(KK)
	82 1KS20CS08	2 ROSHAN KUMAR.B	(RK)	KYY-	1 Sec	120	00	
		2 S SAI SHANKARI	(35)	(02)	188	125	100-	10-1
	83 1KS20CS08	SAAHIL RHUIANG	102 T	Calle	Cidit	1800	Saah	1 Jan
	84 1KS20CS08	4	June	Samo	1 Sun	(nz)	SZ)	CB
	DE IVEDOCEOR	SABHAREESH BALAJ	8B-	1883	CSP2	1 R	19 K	NA I
	85 115200508		1 CA	1351	IVA	XA	1ya	100
	86 1KS20CS08	6 SAHANA R	18A	1 An	OC Do	800	Cor	Car
	87 1KS20CS08	7 SAMEER KULKARNI	full	Selle	- Sak	10m	Gal	SW
	8/ 1K3200000	SANKET GANAPATT	Com	for	Sen	Sol	1 Am	- 09
	88 1KS20CS08	.8 -	ner	670	0100	Tha	1 No	Sha
	89 1KS20CS08	9 SHASHIKANTH N G	Shang	1 onge	1 gran	- Chi	car	Joe
1	67 meserer	CUASUWATHA HM	Stek	Sigo	Sha.	802	11:10	0.0
	90 1KS20CS09	0 SHASHWATTA TH	1010	Villa	Mull	at 2.102	1 14900	- Jula
	91 1KS20CS09	1 SHILPA M	Mila	purp	- Pue	S Com S	Cano	Shurd.
	111111111111111111111111111111111111111	2 SURAVVA MR	Ceno	Sarp	a am	- Bar	1000	1010
	92 TKS20C505		SLP	CD	KH.	SHE	(SH)	1200
	93 1KS20CS09	3 SINDHURA H	1 OT	18-10	10 9	(18.)	572.9	Sor
	04 11/5200500	SIRIPIREDDY	Sho	ally	Nay	004	China (	2 Standa
	94 IKS20C303	SKANDA SWAROOPA	Chande	SEGUE	Skend	Sond	Skana	conner
	95 1KS20CS0	)5 SIG L (2112	orando		5000	nor	1 Sada	agor
	11/520/50	96 SPOORTHY.N	Soor	, You	1000	4 and	D.	STO )
	96 TK320C30	10 SI COMPANY	A Real	Charles	a sh	Jan		2000
	97 1KS20CS0	97 SRISHTI SRIVASTAV	- Avur		Tyle	a Side	Sug	0 Sulap
	08 18 520050	98 SUDEEP D M	Supace	5400		0	0.1	2.2
	98 IK320C50	SUSHMA SRIKANTA		155-	61	an	-1000	- Aler
	99 1KS20CS0	99	- Park	Tan	hem	The	has	the
	100 1KS20CS1	00 TAHREEM IMAD	hose	Imore		100	T(-T)	
	100 11.520051	TALIB MUKHTAR	TO)	VD,	CU		1 L	T Glan
	101 1KS20CS1	01	1	1 2 1 2	OGN	1 1 cm	Jan	1 Januar
	102 1KS20CS1	02 TANVI KAMATH	ricm	1 any	1044	Tim	64	Tre
		OZ TUANUSHA K	Think	tuc	her	Natio		Thur
	103 1KS20CS1	US THANUSHAK	125	tra	- Tour	# Jour	( vous	- to the
	104 1KS20CS1	04 TRUPTHI G B	-10-	A. A	AL.N.	+ This	NI LAN	29 (Juste
		INS TUSHARS	Tistro	V Was	TO YES	4.10	1/2/0	Ace
	105 1KS20CS1	10311410	1000	1 1		1 11		- 1 1
		- I		Buc	Acce	Alle	- fr	110-
	106 1KS20CS	106 V ARVIND	Pour	The	Acu	- IAR	tra	tie
	106 1KS20CS	106 V ARVIND	lose	De	- Ule	- He	1 mar	like Janh
	106 1KS20CS 107 1KS20CS	106 V ARVIND	Lose Van 16	Nerra	- Ule Vard	All All	2 Vare	le vand
	106 1KS20CS 107 1KS20CS 108 1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N	Varia	Nerola	Vive Vive	All Varle	2 Vand	like Le Vanh Vanh
	106 1KS20CS 107 1KS20CS 108 1KS20CS 109 1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA N	Vania Vania	Norda De De	Van Van	All Varle	- Vand Hul	le Vanh
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA N	Vania Vania	n Varyan Varyan	Vand Vand	Ala Ne Varle Varle Var	Vane Heet	like Vanh Vanh
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA N 110 VIBHAV KAUSHIK N	Lose Vanda Lose	Nanda Vanda Ulet	Var Var Upt	A Varle A Varle A Varle La	Vand Hert Ule	a Vanta Vanta Vanta Vanta
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R	Lase Vande Limy Limy Limy	Nanda Vanda Vanda Vanda Ulet	Ne Var Var Uot	A Varle A Varle A Varle Lan Lan	Le Vand Hert Kul	like La Varh Var Var Var
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU	Lost Vante Vante Miny huge bull	Ale Ale Ale Ale Ale	Van Van Uet Lee Kot	Varde Varde Varde La La	Vand Hart Kul	like Land Land Land Land
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU VISHAL N KORABU	Varia Varia Varia Varia Varia Varia	Alex Manghan Level Level Level	Var Var Var Hot	All We Vorte Lan Are Car	Van Van Huel Kuel	like Like Like Like Like
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI	Last Vanda Vanda Vanda Migu Migu Migu	A Varyen Varyen Varyen Leek Me	Van Van Uot Lot	All Vorte Land Vito	Lie Kul	Like Land Land Land Land Land Land Land Land
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 100 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 V IHANSI	Vanda Vanda Vanda Vanda Vanda Vanda Vihal	Alex Nerthan Leve Me Leve Nerthan Nert	Van Karl	All All	Hard Kul	Like Land Land Land Land Land Land Land Land
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI	Vanta Vanta Vanta Vanta Vanta Vanta Villey Vihal	And Alex Alex Alex Alex Alex Alex Alex Alex	Var Var Var Var Var	All We Vorve Lan Lan Vorve Lan Lan Vill Vill	None New Kle Kle	Like Jan Like Jaer Sha Sha
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA	Vante Vante Vante Vante Vante Vante Vante Vante	Ale Ale	Ale Sold and a sold an	An Vorker	La Van	Like Land Like Like Like Like Like Like Like Like
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA 116 ASHRIT MADHAV	Last Vanta Vanta Vanta Vanta Vanta Vanta Vanta Vanta Vanta Vanta Vanta Vanta	All All	Aller Aller Aller Aller	An Vor	Line Line	Like Var Var Var Var Var Var Var Var Var Var
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA 116 ASHRIT MADHAV	Last Vanda Vanda Vanda Mahr Vand Mahr Mahr	Alexandra Clerk	And Cher Sind Ch	An A	Line Line Line Line Line Line Line Line	Like Var Var Var Var Var Var Var Var Var Var
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA 116 ASHRIT MADHAV 117 DEEPAK S	Last Vande Luny Luny Luny Xinal Xinal Xinal Xinal	Alexandre	And	An And An And And And And And And And An	La Van	Lie Start
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA 116 ASHRIT MADHAV 117 DEEPAK S 118 K R SAHANA	Vande Vande	Ale	Sand Sand Lie Lie Lie Lie Lie Lie Lie Lie Lie Lie	An A	La L	Lie Start
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA 116 ASHRIT MADHAV 117 DEEPAK S 118 K R SAHANA	Lose Varia Varia Varia Varia Varia Vinal V	Ale services	A Light and a ligh	An And And And And And And And And And A	La L	Lie Var Var Var Var Var Var Var Var Var Var
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           119         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA 116 ASHRIT MADHAV 117 DEEPAK S 118 K R SAHANA 119 SNEHA A S	Losk Varia Lumy And And Your Yoha Mahar Kan Kan Kan Kan Kan Kan Kan Kan Kan Kan	Ale Stat	A Level and a leve	And	Line Line Line Line Line Line Line Line	Lie Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan Jan
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           119         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA 116 ASHRIT MADHAV 117 DEEPAK S 118 K R SAHANA 119 SNEHA A S 120 AJAY GIRISH	Last Varia Vano Van Van Vano Vano Vano Vano Van	A De were and a de la de	A Lee and a lee	A LAND LAND A LA	Line and the state of the state	Lie Start
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           119         1KS20CS	106         V ARVIND           107         VAISHNAVI M           108         VANDANA N           109         VANDANA.N           110         VIBHAV KAUSHIK N           111         VIBHAV KAUSHIK N           111         VIBHAV KAUSHIK N           111         VISHAL N KORABU           113         VUMMANENI           114         Y JHANSI           115         MOHAMMAD TAHA           116         ASHRIT MADHAV           1117         DEEPAK S           5118         K R SAHANA           5119         SNEHA A S           5120         AJAY GIRISH	Last Varia Luny Augu Augu Varia Vari	Ale state	Salar And	And	La L	Le Grand La Carlo
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           119         1KS20CS           120         1KS20CS	106         V ARVIND           107         VAISHNAVI M           108         VANDANA N           109         VANDANA.N           110         VIBHAV KAUSHIK N           111         VIBHAV KAUSHIK N           111         VIBHAV KAUSHIK N           111         VISHAL N KORABU           1113         VUMMANENI           1114         Y JHANSI           1115         MOHAMMAD TAHA           1116         ASHRIT MADHAV           1117         DEEPAK S           118         K R SAHANA           119         SNEHA A S           3120         AJAY GIRISH           3121         SAKSHAM SINGH	Carlon A and	A De were were were were were were were w	A Legal and a land a la	A HANGE AND A HANG	Ward Hard Hard Hard Hard Hard Hard Hard H	Le grand and a state of the sta
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           119         1KS20CS           120         1KS20CS           121         1KS20CS	106         V ARVIND           107         VAISHNAVI M           108         VANDANA N           109         VANDANA.N           110         VIBHAV KAUSHIK N           111         VIKAS KASHYAP R           112         VISHAL N KORABU           113         VUMMANENI           114         Y JHANSI           115         MOHAMMAD TAHA           116         ASHRIT MADHAV           117         DEEPAK S           118         K R SAHANA           119         SNEHA A S           120         AJAY GIRISH           121         SAKSHAM SINGH	Low and a second and a second	Ale state	A Light and and a second and a	A HANDER AND A HAN	L'AND LAND AND AND AND AND AND AND AND AND AND	Le art Large Art
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           119         1KS20CS           120         1KS20CS           121         1KS20CS           122         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA 116 ASHRIT MADHAV 117 DEEPAK S 118 K R SAHANA 119 SNEHA A S 120 AJAY GIRISH 121 SAKSHAM SINGH 122 RAVI VAMSHI D N	Land Variation Lutry Angel Angel Martin Mart	A De were and a start of the st	A ser and a ser and a ser a se	A A A A A A A A A A A A A A A A A A A	Var Ling Star Star	Lie Star
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           119         1KS20CS           121         1KS20CS           122         1KS20CS           123         1KS20CS	106 V ARVIND 107 VAISHNAVI M 108 VANDANA N 109 VANDANA.N 110 VIBHAV KAUSHIK V 111 VIKAS KASHYAP R 112 VISHAL N KORABU 113 VUMMANENI 114 Y JHANSI 115 MOHAMMAD TAHA 116 ASHRIT MADHAV 117 DEEPAK S 118 K R SAHANA 119 SNEHA A S 120 AJAY GIRISH 121 SAKSHAM SINGH 122 RAVI VAMSHI D N 123 SANJANA G	Land Variation Land Land Land Land Land Land Land Lan	A De state	A Level and a level a leve a level a l	A Sold a Color	A Star LAND STAR STAR STAR	Le Criter
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           120         1KS20CS           121         1KS20CS           122         1KS20CS           123         1KS20CS           124         1KS20CS	106         V ARVIND           107         VAISHNAVI M           108         VANDANA N           109         VANDANA.N           100         VIBHAV KAUSHIK N           111         VIBHAV KAUSHIK N           111         VIBHAV KAUSHIK N           111         VISHAL N KORABU           113         VUMMANENI           114         Y JHANSI           115         MOHAMMAD TAHA           116         ASHRIT MADHAV           117         DEEPAK S           118         K R SAHANA           119         SNEHA A S           112         JAY GIRISH           113         ZAVI VAMSHI D N           114         Y JHANSI	Carlie Ca	A De state and a state	A SERVICE A SERV	A Way and the Carl	A Real AND	Le Crander And
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           120         1KS20CS           121         1KS20CS           122         1KS20CS           123         1KS20CS           124         1KS21CC	106         V ARVIND           107         VAISHNAVI M           108         VANDANA N           109         VANDANA.N           110         VIBHAV KAUSHIK N           111         VIBHAV KAUSHIK N           111         VIKAS KASHYAP R           111         VIKAS KASHYAP R           112         VISHAL N KORABU           113         VUMMANENI           114         Y JHANSI           115         MOHAMMAD TAHA           116         ASHRIT MADHAV           117         DEEPAK S           5118         K R SAHANA           5119         SNEHA A S           5120         AJAY GIRISH           5121         SAKSHAM SINGH           5122         RAVI VAMSHI D N           5123         SANJANA G           5401         PAVITIHRA A S	Contraction of the second seco	A Partie A P	A LES BALL AND A LES BALL	A A A A A A A A A A A A A A A A A A A	A BALLAD AS A BALLAD	Le sa la sa
	106         1KS20CS           107         1KS20CS           108         1KS20CS           109         1KS20CS           110         1KS20CS           111         1KS20CS           112         1KS20CS           113         1KS20CS           114         1KS20CS           115         1KS20CS           116         1KS20CS           117         1KS20CS           118         1KS20CS           119         1KS20CS           120         1KS20CS           121         1KS20CS           122         1KS20CS           123         1KS20CS           124         1KS21C           125         1KS21C	106         V ARVIND           107         VAISHNAVI M           108         VANDANA N           109         VANDANA.N           110         VIBHAV KAUSHIK N           111         VIKAS KASHYAP R           111         VIKAS KASHYAP R           112         VISHAL N KORABU           113         VUMMANENI           114         Y JHANSI           115         MOHAMMAD TAHA           116         ASHRIT MADHAV           117         DEEPAK S           118         K R SAHANA           119         SNEHA A S           5120         AJAY GIRISH           5121         SAKSHAM SINGH           5122         RAVI VAMSHI D N           5123         SANJANA G           5400         PAVITIHRA A S	A A A A A A A A A A A A A A A A A A A	A Person and a per	A LES BALL AND A DE LA	A A A A A A A A A A A A A A A A A A A	A BALLAND STATE A CALLAND	Le and La and a an



umas. L PRINCIPAL

PRINCIPAL PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 540 109

3

3



#### K S INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

#### A REPORT ON "BLOCKCHAIN TECHNOLOGY"

Semester:	6 <sup>th</sup> 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
<b>Associated Bodies:</b>	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	<b>PO1</b>	PO2	PO3	PO4	<b>PO5</b>	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	<b>PO10</b>	PO11	PO12	PSO1	PSO2
EO	3	3	3	2	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 Dumarisu (Durhallz.

**Event Coordinators** 

( Descarapon

Prof. & Head, CSE

\* PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109



### K. S. INSTITUTE OF TECHNOLOGY

З

3

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

#### "BLOCKCHAIN TECHNOLOGY" Academic Year 2021-22 List of Students and Attendance

#### Date:9/5/2022 to 14/5/2022

INC	USN	Name			Sign	ature		
1.1.1			9	10	11	12	13	14
1	1KS19CS001	AAKRITI	Ale	And-	AD	Aad	AD-	Aa
2	1KS19CS002	ABHISHEK B	ARA	arti	- 1M9	artu	and	ally
3	1KS19CS003	ABHISHEK YADAV	Ablie	Ablio	Alahta	Alphon	Aluts	Alehit
4	1KS19CS004	ADITH KARTHIK RAJU <	ACO	ARD-	₩-	Ro-	1	1KO
5	1KS19CS005	AJAY S KALBURGI	-	AF	A	A	A	AB
6	1KS19CS006	AKASH A S	abern	all	abert	anoer	apel	ait
7	1KS19CS007	AMAN KUSHWAHA	Aco	AD	Acot	And	1Acad-	too
8	1KS19CS009	AMIT K B	Anje	Amet	And	And	Amit	Amit
9	1KS19CS010	АМОБНА Н Ѕ	Gran	-Au	Ann	Am	Am	- Ann
10	1KS19CS011	AMRUTHA K H	\$2	P	P	P	P-	-
11	1KS19CS012	ANAGHA A HEBBAR	An	Ann	Ann	An	An	A
12	1KS19CS014	ANUSHA B	Anom	Anusha	Anusha	Anusha	Arisha	Anisha
13	1KS19CS015	AQSA AQEEL	' Po	( Do	Pto	- RED	A.	PD
14	1KS19CS016	ASHIKA H N	Aline	Astooker	Ashike	Schike	Athike	Alitha
15	1KS19CS017	BHOOMIKA A M	Rooki	Roceli	Parti	Raiti	Routy	Bil
16	1KS19CS018	ВНООМІКА К	to -	R	P	Br	BD-	30
17	1KS19CS019	BHUMIKA M	Bhime	Bhun x	Bhaufu	Bruger	Bruke	Bhuke
18	1KS19CS020	C N SHREYAS	alter	alla	dh.	alle	alte	alu
19	1KS19CS021	CHAITANYA SHIVARAJU	All All	FR	En .	a	G	Ð
20	1KS19CS022	CHANDAN B V	Chipe	Church	char	- (non-	Enus	hon
21	1KS19CS023	DEEKSHA NAIDU R	Due	Dee	Der	Dee	Dee	Dee
22	1KS19CS024	DEEPA G	Rapa	Polpa	Deela	Deela	teeto	Doelas
23	1KS19CS025	DEEPTHI.N.K.	Deep	- Dert	Due	Deep	Deep	Derto
24	1KS19CS026	DEVI PRASAD N	Don	pen	Ven	Pri	pul	Kin
25	1KS19CS028	DHEEMANTH G	D	EN.	de la	<del>D</del>	8	D-
26	1KS19CS029	DINESH M	Stims	dance	Lino	Stim	Etins	Am.
27	1KS19CS030	G PRERITHA	de_	P	R.	de	£-	
28	1KS19CS031	GAGAN REDDY S	60	GD	(n)	(Gw)	$\bigcirc$	Gw
29	1KS19CS032	GAGANDEEP K	man	Gum	Good	and	(gunos	(max
30	1KS19CS033	GEETHANJALI B K	Carella	mult	Guilto	(auto	(2) JALAA	Cruth-
31	1KS19CS034	GULSHAN KUMAR S	Gm -	Gree	Grand.	top	Ga	yow -
32	1KS19CS035	HARSHITHA J	host	-hugh	bush	bash	her	Daw
33	1KS19CS036	INDRAJITH H M	Su	(Jan)	Jun	an	(Jan	(Lan-
34	1KS19CS038	K KISHAN	Kund	Kan	Fr.	Kuy	Kang	Kuy
35	1KS19CS039	K R VAGEESH	Inorth	vann	verti	well	non	any
36	1KS19CS040	KALYAN CHOWDHARY	Bina	botto	than	Kenn	Kim	
37	1KS19CS041	KARTHIK S MORAJKAR	Kand	fin	Kon	Kine	1.0.1	tim
38	1KS19CS042	KAVYASHREE.S.L	Kup	pus	1deg	pay	KUY	pay
39	1KS19CS043	KEERTHAN GOWDA S	(ahund)	Gound	Groud	(Tout	Unald	Nand
40	1KS19CS044	KOTHAPALLI SREEJA	-			-	-	
41	1KS19CS045	KOTTALA	kno	- Jong	King	KIAS	CHAN O	-
42	1KS19CS046	KRISHNA K R	NOU	om	MA	Ken	Oner	Cery

3

				and the second second				
43	1KS19CS047	KUMAR S	Hum	the	Fam	Haran	( Series	Run
44	1KS19CS048	LIKITH G	dina	dun.	dur	Lin	and	dins
45	1KS19CS049	LISHA C	to	the	the	to	D	5
46	1KS19CS050	MAHAK SHREE	MS	MS	me	MS	MS	MS
47	1KS19CS051		Min	Also	Two	mon	Min	Mas
48	1KS19CS052	MANASA G L MOHAMMED NOOR	m	dus-	An	The	The	the
49	1KS19CS053		Mons	Morre	Mohrer	Mohra	- tours	Moher
50	1KS19CS054	MUKESH KUMAR	mo	mon	ante	Mank	mab	worden
51	1KS19CS055	MYTHREYIU	My)	Aug	Aug	Au	And	mut
52	1KS19CS056	N ASHOK	Alen	An	Ale	sen	Au	And
53	1KS19CS057	N BHAVYA	Rhead	Bhangs	Bheine	Brough	Rent	Blacker
54	1KS19CS058	N P SHASHANKA RAO		Start -	the	and and	000-	A
55	1KS19CS059	NAVEEN K M		94¢	800	AP	AP	Alum
56	1KS19CS060	NEELAMMA SALI	Marso	Nur	Nor	Nen	Am	TAT >
57	1KS19CS061	NETHRA R	fla	T About	Non)	Mari	Mart	- Her
58	1KS19CS062	NIKHIL CHOWDARY V R	an	An	- Der	Have	A HAV	a sithus-
59	1KS19CS063	NITHYA S N	Nithyg	Nithy	Nithy	Nithe	Right	a Paular
60	1KS19CS064	PAVAN B INDRESH	tavout	Payour	Kane	= Farrow	= rave	ARILA
61	1KS19CS065	PAVAN L	pon	for	Rogia	pour	Pan	Ran
62	1KS19CS066	PAVITHRA S P	Kins	- front	Kan	- Hans	Par	Do
63	1KS19CS067	POOJA J	Kone	Roo	Koo	- For	100	- CO i
64	1KS19CS068	POTHORU SAI	Bos	Sai	Ser	Jan	120	Brai
65	1KS19CS069	PRAJWAL G	Par	Bus	Part	Para	Kar	BUNG
66	1KS19CS070	PRAJWAL KULKARNI	RR	(PK)	CP.B-	P.K.	- Pet	Dia
67	1KS19CS071	PREETHI K P	Bass	Par	Par	- Kru	- An	David
68	1KS19CS072	PRIYA E	Day	pan	Pour	, Kon	Por	ka Drivenka
69	1KS19CS073	PRIYANKA R	Diegail	a Brigenter	- Bayanoo	- Provyeme	a myon	D.
70	1KS19CS074	PUVAN KUMAR V	Rui	·BA	the		- R	- RA
71	1KS19CS075	R V YASHVANTH	Your	Yun	- Jui		- 20	the di
72	1KS19CS076	RAJ KUMAR	Pener	1 Kerbe	but	x pour	- Hoen	1 post.
73	1KS19CS077	RAKESH M J	Br	PA	100	- Ko	T	DI
74	1KS19CS078	RAKSHA T M	Roz	Kak	Kot	- Kat	- 00	- aan
75	1KS19CS079	RANJITHA D V	Rous	Ran	Kans	Ran	- than	- thous
76	1KS19CS080	SAHANA S	bark	Carl	ngu	lou	n bu	Marsy
77	1KS19CS081	SAI SHIRISHA S B	alha	the	alter	alles	apple	malen-
78	1KS19CS082	SANGHARSH KUMAR	Sam	San	Sar	2 San	> de	2000
79	1KS19CS083	SANJEEV MYSORE	San	2 80A	Sty	Sent	- Sr	J Sap
80	1K\$19C\$084	SANKALP KESTI	Sankals	Sankalo	Sankat	D Sankal	2 Sank	ap Santalp
81	1KS19CS085	SATISH V	8	(8)	B	Q	a	. 02
01	1881008085	SHANVI B P	Shar	sho	Sho	= Sha	A gh	7 Sha
82	1851905080	SHIVANIGK	FLOW	min	1 hou	1 Sau	inb	m am
83	1K519C5087	SHIVAN OK	Stone	n Slow	Schre	e chr	en Shi	res Shres
84	IKS19CS088	SHILESHA D KIDAN	Stor	Crey	Day	1 Sha	y Q	xy Shre
85	1KS19CS089	SHREYA K KIKAN	I	EST	de	de	2 th	2 th
86	1KS19CS090	SHRI HARSHA S	- R	Allent	. 61.	1 1/11	d. Cin	1. laide
87	1KS19CS091	SINDHU S	Cin	4 CONS	A Shar	- Su	2 re	my Sure
88	1KS19CS092	SMRITHI SHEKAR	In	- Chi	- Cri	y TVI	nia Ci	w Shi
89	1KS19CS093	SRUJAN K	DRy	- 942	201	- 20	0-28	T 20
90	1KS19CS094	SRUSTI S GOWDA	Stol 1	de	A.	- 000		
91	1KS19CS096	SUHAS S	Seha	s dunge	Sub	as del	æs Qu	res Duha
92	1KS19CS097	SUSHMITHA K	Sust	~ Sus	5 Sur	100 Se	12 Mar	us to study
93	1KS19CS098	SWETHA M KULKARN	I SIND	ty since	th ca	Her a	an 19	when tary

43	1KS19CS047	KUMAR S	4	to				
44	1KS19CS048	LIKITH G	Lun	-	Kun	Kumo-	Run	-Rum-
45	1KS19CS049	LISHA C	T	ann	an	din	ans	dans
46	1KS19CS050	MAHAK SHREE	MB	h	(h)	the	FD	40
47	1KS19CS051	MALLIPALLI SPURTHI	Mar	- Aug	me	M2-	MS	MS
48	1KS19CS052	MANASA G L	AVA	June -	Mas	Mm	Mine	MA
49	1KS19CS053	MOHAMMED NOOR	MANA	dans-	Aug-	And -	AND	ALD .
50	1KS19CS054	MUKESH KUMAR	No la	Mov	mones	Morra	Monos	Money
51	1KS19CS055	MYTHREYIU	The	mon	amor	Mark	mab	moren
52	1KS19CS056	N ASHOK	TU	the	- May-	any	Aug	Mug
53	1KS19CS057	N BHAVYA	R DOMPS	Dannes	al anno	- Sterry	- Aug	Share
54	1KS19CS058	N P SHASHANKA RAO	Prot	181000	Bruce	18hours	Parason of	BRADEO
55	1K\$19C\$059	NAVEEN K M	A	N	and a	8000	0-	A
56	1K\$19C\$060	NEELAMMA SALL	NAINS	2nt	all -	At-		Alus
57	1K\$19C\$061	NETHRA R	1 Martin	ND O	Autor	Man	Am	AL D
57	1KS19CS062	NIKHII CHOWDARY V P	Aller	New	Non)	Now	1 ( ) en	- Aler
58	1K\$19C\$062	NITHVA S N	NULL 19	J. Thurson	1 90 Lina	- ai Hava	J I HAVE	2 Nillaug-
59	1KS19CS063	NITTIA SIN	Nithy	NATUR	Nithe	Nighter Dugit	Ring	N. Pauloch
60	1KS19CS064	PAVAN B INDRESH	Favore	Payout	Kanne	Farm	= raves	A.LA
61	1KS19CS065	PAVANL	for	for	Romin	pour	pour	Rain
62	1KS19CS066	PAVIIHRA S P	Kine		Keine	- there	Par	
63	1KS19CS067	POOJA J	Kons	Kor	KOG	190	The second	- Coi
64	1KS19CS068		Don	Sai	Ser.	Bar	Sa	- Day
65	1KS19CS069	PRAJWAL G	Var	bur	Point	Port	Kar	BONE
66	1KS19CS070	PRAJWAL KULKARNI	CER-	(PK)	CF.B-	- Pho-	- PER	C LIN
67	1KS19CS071	PREETHI K P	Bar	Kan	Par	- Kun	- An	- FAL
68	1KS19CS072	PRIYA E	Pay	pary	Pour	Kon	Par	2 Divilenta
69	1KS19CS073	PRIYANKA R	Diejaille	Brigenter	Reyand	- Proyent	a priyen	a raily
70	1KS19CS074	PUVAN KUMAR V	Kin	KA	the		- EL	- Fr
71	1KS19CS075	R V YASHVANTH	Yu	Yung	1 th		- 20	
72	1KS19CS076	RAJ KUMAR	Dency	Kerber	Koul	rper	- per	fordi
73	1KS19CS077	RAKESH M J	Br	PA	Bar	1 Bo	T	- And -
74	1KS19CS078	RAKSHA T M	Koz	Kak	Kot	Kat	- 20-	- Ran
75	1KS19CS079	RANJITHA D V	Rows	Rom	Kans	Rom	Ran	- flows
76	1KS19CS080	SAHANA S	bank	Dart	All	lour	1 bu	Marsy
77	1KS19CS081	SAI SHIRISHA S B	aller	6 Juna	ala	aller	2 plh	- alm
78	1KS19CS082	SANGHARSH KUMAR	Sam	Sam	Sar	3 San	- San	> South
70	1KS19CS083	SANJEEV MYSORE	San	-SaA	Stor	- Sent	- Sen	- Sap
80	1KS19CS084	SANKALP KESTI	Baukalo	Sankabo	Soulate	2 Sunkala	2 Sanke	to Candala
00	11/51005085	SATISH V	8	(A)	R		B	, 60
81	1K319C3085		Chas	sho	Sha	a Sha	a du	> Sha
82	1K519C5086	SHARVIDI	01.8.0	Dinin	hou	1 Coni	mbr	1. Com
83	1KS19CS087	SHIVANIGK	el an	SP	flag	Claro	in the	1er Sharz
84	1KS19CS088	SHREESHA S	81x	Carl	2 One	2 Show		10 Shri
85	1KS19CS089	SHREYA R KIRAN	Shar	PY A	1000	1000	- and	
86	1KS19CS090	SHRI HARSHA S	and a		01	17	1 100	10.4.
87	1KS19CS091	SINDHU S	10° no	1 inou	mar	1 Cime	anna	uparen,
88	1KS19CS092	SMRITHI SHEKAR	Jun	- ginns	· join	> om	- A	mannes
89	1KS19CS093	SRUJAN K	Sher	ry	Soly	- JYY	14 th	F Orly
90	1KS19CS094	SRUSTI S GOWDA	SH)	22	a b	att		- table
91	1KS19CS096	SUHAS S	Schas	Subges	Sub	25 Sal	esaul	iers Subar
97	1KS19CS097	SUSHMITHA K	Bish	Sust	Sus	Jog Ser	2h Bu	self Sush
02	1KS1005009	SWETHA M KULKARNI	Lind	4 giner	4 car	the as	HI Da	fer saith
	11101700070							

	3			•			3		3
94	TI	K519C5099 S	SYED ZAINUL ABIDIN	Ahros	Alan	1AD	Afathal	Obin 1	Varial
95	; 1	KS19CS100	ALLURU MAURYA	Tam	Mani	DA 1	Mono.	Dary	Tron
96	5 1	KS19CS101	TANUSHREE R	w	Tran	Trac	Tand	Fort	Sec.
97	7 1	KS19CS102	TEJAS N	(FAF	TEN	SPAP -	CRAC	STEAD C	TAN
98	8 1	KS19CS103	TEJAS P	Telas	Teras	TEas	Toices.	Tojas	Tejas
99	9	KS19CS104	TEJASWINI NAYAKA S	Twy	Tur	Terr	Terret	Turson	ier
10	0	1KS19CS105	THANUSHREE S	Tanuslas	Januar	Tannel	Tamahre	Famer	Tanyes.
10	)1	1KS19CS106	THIRUMAL R	they	Avei	Hhan	Thout	Avoin	poths
10	)2	1KS19CS107	THRIVENI U	Q,	E.	P	EP.	Q'	
10	03	1KS19CS108	UDHAY KUMAR G	Velhay	Whay	Odhay	Udhay	Vahag	CHACelt
1	04	1KS19CS109	VAISHNAVI G	Nary	Jour	Jara	Varin	Varth	LADEM
1	05	1KS19CS110	VARSHA BAI R	An	James	Pars	Parst	2000	China -
1	06	1KS19CS111	VARUN KAMBALI	Vita	The	*K	SIK	CY.K-	V.K.
1	07	1KS19CS112	VIŞHAL GUPTA	A	8	Æ	(A)	20	AV-
ī	08	1KS19CS113	YASHWANTH S R	Your	- Yo	- 200	X	Tar	Inh
T	109	1KS19CS115	AKSHAY R	ADDA	Horol	Heer	How IN	Have	1) 200
	110	1KS19CS116	VRATHIKA BILLAVA	Vann	Vanso	Vasa	- Vales	- Aller	Rhantott
T	111	1KS18CS011	BHARATH R	Bhart	Bh	Share	Blan	- Bruch	Joraeje
F	112	1KS18CS021	G. SARAYU CHOWDAR	y plarang	garay	alara	Daba	Bild	Darle
F	113	1KS18CS068	PRAJWAL N	Poter	ppoy	Prey	pur	- And	Anne )
	114	1KS20CS400	AKIF DELVI	in	And	-	An	Juny	Anu
T	115	1KS20CS401	ANUSHA A R	Ann	- Amb	- Other	- Bur	- Bus	Kous
T	116	1KS20CS402	E KEERTHI KUMAR V	Ben	- Alin	TAT	Inati	tradi	A LOOTA
f	117	1KS20CS402	3 NITHIN S	theter	WITT	101001	Banar	Banan	Banar
ł	118	1KS20CS40	4 PRANAV CHANDRAN I	Manar	Manav	Thanav	Vanue	19770000	<u></u>

•

3

PRINCIPAL PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109

3



#### K S INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

#### A REPORT ON "AR VR GAME DEVELOPMENT USING UNITY"

Semester:	8 <sup>th</sup> 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**

EO	<b>PO1</b>	PO2	PO3	PO4	PO5	<b>PO6</b>	<b>PO7</b>	<b>PO8</b>	<b>PO9</b>	PO10	PO11	<b>PO12</b>	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

Descarapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

PRINCIPAL PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109

### K. S. INSTITUTE OF TECHNOLOGY

7

3

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109

3



#### "AR VR GAME DEVELOPMENT UNITY" Academic Year 2021-22 List of Students and Attendance

Date	USN	NAME			Sign	ature		
1.190			23	24	25	26	27	28
1	1KS18CS001	ADARSH K	AD	Dr)	\$P)	<b>A</b>	AD-	De
2	1KS18CS002	AMARAVATHI M	Om.	Ano.	Ano	An	Ame	Ano
3	1KS18CS003	ANIKETH.H	Nieth	A)pth	A)iete	Arieth	Nieth	Nictu
4	1KS18CS005	ANUSHRUTI SINGH	A.A.	AA.	AA.	A-A-	AA.	AA.
5	1KS18CS006	ARUNA P	Arm	Arnov	Arenov	Arnov	Arnar	Arner
6	1KS18CS007	ASHWINI J	AS	As	AR	AR	AR	BR
7	1KS18CS008	AVINASH PRASAD	An	Am	Au	Aus	Ano	Aur
8	1KS18CS009	B DEVA DEEKSHITH	Do D	Dio2	Do Col	De 9-	RD	DO
9	1KS18CS010	BHAGWAT GOUTAM	BND	Bha	Bha	Bus	Bha	BMO
10	1KS18CS012	ВНООМІКА Н	BHOND	BHOS	BHOW	BHOW	BHOW	BHOD
11	1KS18CS013	BHUVANA CHANDRIKA GANTI	BCGD	Ba	BCtor	BCG	Bile	P.P.
12	1KS18CS014	BRIJESH.S	Fusia	Biel	Ruch	Ruch	Brol.	Rud
13	1KS18CS015	CHAITHRA R	Chall	charte	Chatte	(hate	Cho:b	Charba
14	1KS18CS016	CHANDAN KUMAR	CHO	Cts	Cito	1K	CK	Ct
15	1KS18CS017	DANDU NIHARIKA	Ruo	Damo	Run	Tom	The -	R
16	1KS18CS018	DHANANJAYA S	A.		D	D	D	and
17	1KS18CS019	DHRUV JYOTI SHUKLA	tu	Fine	The	The	- Th	Sh'
18	1KS18CS020	FARIYA N	FO	Fro	40	H.		H N
19	1KS18CS022	GAGANSURI M S	Can	Pro	(Sa)	tio	Ge	No
20	1KS18CS023	GANESH A	Gnn	Game	Gan	Car	Gain	Chan
21	1KS18CS024	GOUTHAM M	(m)		Con	Com	Com	- Chio
22	1KS18CS025	GUNAL BINANI	GriB	GB	In R	GR	GR	Co
23	1KS18CS026	HARSHITH C PRASAD	4CP	HCP	HCP	HIC	HUR	LIN
24	1KS18CS027	KANDIMALLA KRISHNA PAVITHRA	Kik-	KK-	KK-	K <del>K</del>	KK-	KK-
25	1KS18CS028	KARTHIK K	49/2	KI. a	Ker	Kar.	Ka	R.C
26	1KS18CS029	KAVITA CHAUDHARY	Hudo	Alun	Mudu	ell. du	eu.	000.0
27	1KS18CS030	KENCHAM ARUN	Kan	Kan L.	Ku	King P	Grunder	Church
28	1KS18CS031	KILARI ASHWIK	tike	KK	KK	KK	KU	toour
29	1KS18CS032	KILARI JASWANTH	KB	Kan	the the	XR	Vako-	take_
30	1KS18CS033	KIRAN VEERANNA DAMBAL	Kud	Kub	L.A			RE
31	1KS18CS034	KRITHIKA.K.N	Kalan	Karo	RUU	Kut	the	ha
32	1KS18CS035	KRUTHIKA.S.VASISHT	Hear?	CIRCO -	KOUCE	1962	Kore	Keros
3	1KS18CS036	LEKKALA	Latert	townad	KOKIL)	V-C-	WSO -	18se
4	1KS18CS037	LATHA V	Latt -	J at	J M	1 In	6FKO	Lathad
5	1KS,18CS038	LAVANYA.C.R	fattine.	duc	Jatta.	fatter_	arthu	loluo
6	1KS18CS039	LIKHITHA.N	1:	Nie.	dero,	dera	da	dio
7	1KS18CS040	LOKESH R	1 ded	due i dul	due	due	due	dine
8	1KS18CS041	MADDULA JITENDRA	Man	in all	Will M. Al	LOKERH	LettesH_	Lokesh
		DOULA JITENDKA	yesh	Thead	MIGNE	Madde	Madde	Mada

						٨		
39	1KS18CS042	MADHUSUDHAN.S.R	Malle	Niche	NUL	Miles	NHO	Male
40	1K518CS043	MAHARAJ S	Hay-M	Raj.M	Pai-ru	Roj. M	Rei M	Rai.M
41	1KS18CS044	MAHESH B V	Mahah	Makeh	Mahod	Milloch	Mahosh	Maboli
42	1KS18CS045	MANIKONDA THARUN	Manikia	Marko	Marka	Manka	Marka	Marke
43	1KS18CS046	MANVITH P	MAD	Man	Du)	(And)	Ray-	Aus
44	1KS18CS047	MD SUJAN	Barton	Meaner	MRANIA	Marino	Mein	Maria
45	1KS18CS049	MEGHASHREE A	Mario	Maria	Maria	Mice	Magaci	Magari
46	1KS18CS050	ΜΙΚΚΙΝ Κ Μ	MRAL	Mkis	NKM	Mkin	Maria	Mkos
47	1KS18CS051	MONICA S	Mm	WN	Mr	Min	dui	a m
48	1KS18CS052	MONIKA.K.C	Ma	MO	Ma	Ma	Mo	No
49	1KS18CS053	MOPURI	MAURI,	MOURI	MOPURI	Mopuli	MOPU Ri	moruni
50	1KS18CS054	N SAI JAHANAVI	NS	ne	as	NS	NS	NS
51	1KS18CS055	NAGARJUN N	Nagari	Nassie	Nangil	A Jangii	Marie	Nagers
52	1KS18CS056	NANDINI J K	Narph?	Nordni	Nondry	Nardin	Nondori	Nandin
53	1KS18CS057	NARASIMHA MAIYA G	s Noo.	ATA>	the	#Ja	nto	120>
54	1KS18CS058	NARASIMHARAJU R	Nooa BP	NHOTCL B P	Nhora BP	NCURBP	Maxa BP	Noora BP
55	1KS18CS059	NIKHIL.M	Nike	Niph	Nih	Alch	dife	Nikh
56	1KS18CS060	NIKHIL VASAN	Niko	Nitta	Net	NERAS	Alita	Atto
57	1KS18CS061	NIKIL B S	Nuno	Mino.	Ma	Nice	Nine	Nins
58	1KS18CS062	NIKITHA M	Nita	Nikin	Nikin	Nikiw	Wikiw	Nikin
59	1KS18CS063	NITISH KUMAR.M.R	A	IN_	M	R-	N	A-
60	1KS18CS064	NOOR SUMAIYA	NOOR	NOOR	NOOR	NOOR	NOOR	ROOR
61	1KS18CS065	P SAI RAM	PSal	NSai	PSai	PSal	PSul	pSui
62	1KS18CS066	PAVAN P	Bun	Brunn	Payan	Paum	Rayear	Bain
63	1KS18CS067	POOJASHREE K	Popi	Popi	Pooi	PORÍ	POOX	Pon
64	1KS18CS069	PRANAV M S	P.Sc. l.	PSal	PSca	P.Sals	P.Bali	Pstin
65	1KS18CS070	PRATEEK HAVALE	pine	que	de.	do.	de	de
66	1KS18CS071	PRAVEEN KUMAR K	Rhun	Phinoo	Phinap	PRUMOT	Phenox	P Kuico
67	1KS18CS072	PREETHI K	PROPHI	PReeth,	PROCH	PRach	PRach	PReeh
68	1KS18CS073	PUJARI VISHNU PRIYA	Rilla	Recierce	Prive	Poin	PEINU	Prizy
69	1KS18CS074	PULLUR PAVAN	Pullo	Pulp	Rill	Valp	Pull	Culp
70	1KS18CS075	R DEKSHITHA	Deal	Deck.	Best 1	ash	Bek	Jesta
71	1KS18CS076	R PRATIKSHA	2810	PSNO	PSNo	PSHe	BShle	Patta
72	1KS18CS077	RAMYA R	Route	Romy	Kony	Kany	Kanza	Kenze
73	1KS18CS078	RAHUL.P .	Rahi	Probid	Reiber	Mahu	READ	Ratio
74	1KS18CS079	RAIPALLE SHREYAA	Bail	Roup	Acúp	Gerig	Kaup	Kaep
75	1KS18CS080	RAKSHA S	Rais	Rais	Karo	Rase	Rass	Russ
76	1KS18CS081	RAKSHITH KUMAR.N	Kumos	Kuma	Kopas	Kunaso	Kuman	Kumazo
77	1KS18CS082	REKHA N C	Retto	Kelly	Koffen	Kekho	Rekt	Refes
78	1KS18CS083	RITHANA.N.RAJ	Ritto	Butte	Ritte	Rite	Putt.	Giffe
79	1KS18CS084	RUBA ABDUL	KA	KA	KA	KSS	KX	KS
80	1KS18CS086	SAMHITHA	Si	SA	SA.	SAN	2 I	O A.
81	1KS18CS087	SANDEEP KUMAR	Boite	Souder	Santes	OCINED	Semcler	Schreef
82	1KS18CS088	SAURAV KUMAR	SUK	Sell	Seit	Sur	Nik	Such
83	1KS18CS089	SAURAV S MAKAM	Makan	Makun	Makmi	Maken	meren	Kakus
84	1KS18CS000	SHALINI S	Sher	Shehn	Sher	i anno	ohr	open
85	1K\$18C\$091	SHASHANK G	Shashy	Chashe	Spresha	Costa	2 Sound	Shally
86	1KS18CS097	SHASHANK MISHRA	Sho	18/	Sho	Sm	Shu	Idh
N7 54	· · · · · · · · · · · · · · · · · · ·							

_			SHIVANGI	6		3			7
	87	1KS18CS093		the	Shake	01.	01		0
	88	1KS18CS094	SHIVA PRAKASH T	Shin	SI.	and	Shiw	Shr	Shr
	89	1KS18CS095	SHUBHASHINI.R	Shub	Quin	this	Chin	Shin	Spin
-	90	1KS18CS096	SINDU A S	CIA	erub A	Shub	Shus	Shub	Ship
-	01	1KS18CS097	SOURABH SANTOSH	ea.	Shah	Sindh	Sinky	Side	Sindh
-		1851805098	SRICHANDANA P	Care -	ásk	SSR	Slk	lek	ele
	92	11/51805000		ono-	Sold .	(97)	Ser	loon	100
_	93	1K518C5100	SLIDDAMANIVA N	Fren	Sain	Bruin	Soin.	Loniu	Rain
_	94	IKSI8CSI00	SUDHAKAR	Sent .	Ser	Son	l. O	1.0	e Q
	95	1KS18CS101	* 		de	Se	So	80	20
	96	1KS18CS102	SUDHANSHU JOSHI	Si.	Si	Si-'	Li.	8:	Q isi
	97	1KS18CS103	SUJAY G S	Surces	Suga	Susieur	Sudar	Rui i	all a
	98	1KS18CS104	SUNAINA NAYAK	Sun	Jun	Sil	augaj	ayay.	Sajaj
	99	1KS18CS105	SURAJ C JAWOOR	Suni	Sulla	e	Bin	Pi	e .
	100	1KS18CS106	SUSHMITHA S 🖉	Sust	Sulla	Luga Jon	oujcy Rul	syg	<u>duran</u>
	101	1KS18CS107	SWETHA BIJANAPALLI	Since	lui	ound	suen	Bugh_	Such
-	102	1KS18CS108	THAMMINENI	Villen	The	Sum	Sur	duan	Suce
-	102	1KS18CS109	THIRIMALAISHAKTIV	FIC A	-tes	to		the	tun
_	103	11/51805110	VAIGUAK D		The -	40	alo-	40-	Ato
_	104	IKSI8CSIIU	VAISHAK P	-	19-	V	12	P	P
_	105	IKS18CS111		VAR	AR	AR	MRa	AR_	HA
	106	1KS18CS112	VEDAVEDYA B H	VedaB	VelB	Velas	Vgleis	VedaB	VelaR
	107	1KS18CS113	VEERA SREENIDHI.R	Vertu	VeeRa	VeeRa	VeeRa	VecRa	VooRa
	108	1KS18CS114	VENKATESH M N	Veno	Vera	Ven.	Veo	Var	VOD
	109	1KS18CS115	VIJAY.N.S	Vun	Friter	the	\$	The a	the
ſ	110	1KS18CS116	VIJAYASHREE.N.R	Vjaya	Vicua	Viaud	Viana	Viana	Vjaya-
ŀ	111	1KS18CS117	VIJETHA	Vin	The	The	he	The	Va
ŀ	112	1KS18CS118	VIINOD H MALAEI	ViinDoo	VIINOOD	Uinvoo	VIINOD	VIINOO	VIINOD
ŀ	113	1KS18CS119	VISHNUPRIYA D	1 Nither	Vishu	VISTAN	Vilha	Vigh	Vion
ŀ	114	1KS18CS120	ΥΥΙΑΥΑΝΤΗΙ Κ S	1) Vine	Vyiau	VXay	ut jac	Vijau	Vijay
ł	115	1K\$18C\$121	YASHWANTH.K	Y	X	and a	Xo.	ito	at y
ł	115	1851865121	VOGITA RAIKAR	Vac	Yaer	tha	Jaco	200-	You
ł	110	1851805122	ZAINA KHAN	2	97.)	AND	tio	To	The
	117	1K518C5125	CHEWANI CHIR	Schik	Bchik	Schiß	Schib	Schis	Schiß
	118	1KS18CS124	SHEWANICHIB	Bours	Spuß	Spurk	Spill	Sour	SouR
	119	1KS18CS125	R SOUMYA RAYYAAN	ALVA	Reme	But	Ray	Raye	Kay
	120	1KS18CS126		Davy	no bi	098	And Ro.	Derb.	Dert.
	121	1KS18CS127	ARVIND PATHAK	Helso	Phan	Ran	Bhagu	Bhagy	Bhaqy
	122	1KS18CS128	BHAGYASHREE.V	1 shage	D'B'R	BIBIA	BIBA	BiBiA	BIBIA
	123	1KS18CS129	BI BI AYESHA	BIRIT	1-Kift	Liritte	Likilte	Little	Likelk
	124	1KS18CS130	LIKITHA.S	Libita	Plus	Sha	Sha.	Shoo.	Shar
	125	1KS18CS131	SHALINI.K.P	ghen	2000	Sim	Sun	Sin	Sur
	126	1KS18CS132	2 SUPREETHA G	Sun	June RIJ	KNUBU	KDUR	KOURO	KOURU
	127	1KS18CS133	KOVVURU VINUTHNA	KOVVOR	1 NVC	Alle	DES	AKS	AKS
	128	1KS19CS400	) AKSHAY.B.R	1 Se	1 show	DROitt	Arbitti	APottu	Appthi
	129	1KS19CS401	ARPITHA.G	ARpithay	A Hypithay	BKRS	BiKan	B.K.Sie	BKBC
	120	1K\$190\$403	2 B.K.SUSMITHA	B.K. Suo	5.Kau	Rhe	Bha	Bhac	Bha
	130	1KS10CS40	BHAVANI.K.G	Bh	In	A Hawar	BHauce	Blance	BHaya
	131	18 6100 640	4 BHAVYASHREE.R	BHanga	Stance	Clar	00	Chor	da
	132	186100040	S CHAITRA.K	Cher	1 chars	tothe	Ashar	Dhalu	I. har
	133	18 6100 640	6 DHANALAKSHMLB	026-1	Lin				-
	4 1.34	1 163170340							

		1						
135	1KS19CS407	GOLLA YASWANTH	Gollas	Galles	0 11	0 11	1. 1.	1. 1.
136	1KS19CS408	KALPITHA.A.J	Kaple	Kad	Collas	Gralao	Crollae	order
137	1KS19CS409	KARTHIK PRAKASH	King	King	rolae	Kaplo	Haple	Kaple
138	1KS19CS410	RAMYA.R	Bernes	Rue	no	the	Ke_	A A
139	1KS19CS411	RANJITHA.H.D	Rail	Rest	Panya	Bamy	Ramue	Romyer
140	1KS19CS412	RUSHI.C.S	a de la compañía de	R R	Raas.	The contraction	Kace	Kaise -
141	1KS19CS413	SAHANA.V	Bat	Sulo	Sulo	Rul-	K/	Sula
142	1KS19CS414	Y.MRUDULA JAIN	Y. m.jai	Y. Min	V.m.n.	Varia.	Vala	lamia'
143	1KS17CS015	B R GAGAN	bonch	Inon	INGAN	to so b	1 DOI NH	inaleh

3

3

1 inaz. -Œ **7**.1

7

PRINCIPAL PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109



This certificate is awarded to
KRUPA A for successfully completing the course Sensors and Actuators with a consolidated score of <b>69</b> %
Online Assignments 24.38/25 Proctored Exam 45/75
Total number of candidates certified in this course: 860 The second seco
Indian Institute of Science Bangalore



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

**Organized by Department of Computer Science and Engineering** 

## Certificate of Participation

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

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

umas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Organized by Department of Computer Science and Engineering

# 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 9<sup>th</sup> to 14<sup>th</sup> of May 2022 at K.S. Institute of Technology Bengaluru.

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

umas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Organized by Department of Computer Science and Engineering

# 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 9<sup>th</sup> to 14<sup>th</sup> of May 2022 at K.S. Institute of Technology Bengaluru.

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

unas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

**Organized by Department of Computer Science and Engineering** 

# 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 9<sup>th</sup> to 14<sup>th</sup> of May 2022 at K.S. Institute of Technology Bengaluru.

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

umas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Organized by 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 9<sup>th</sup> to 14<sup>th</sup> of May 2022 at K.S. Institute of Technology Bengaluru.

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

unas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

**Organized by Department of Computer Science and Engineering** 

## 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 9<sup>th</sup> to 14<sup>th</sup> of May 2022 at K.S. Institute of Technology Bengaluru.

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

umas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

**Organized by Department of Computer Science and Engineering** 

# Certificate of Participation

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

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

unas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

**Organized by Department of Computer Science and Engineering** 

# Certificate of Participation

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

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

umas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

**Organized by Department of Computer Science and Engineering** 

# Certificate of Participation

This is to certify that Mr./Ms. AMOGHA H S Bearing USN 1KS19CS010 successfully completed 6 days course on "Blockchain Technology" conducted from 9<sup>th</sup> to 14<sup>th</sup> of May 2022 at K.S. Institute of Technology Bengaluru.

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

umas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

Organized by Department of Computer Science and Engineering

# Certificate of Participation

This is to certify that Mr./Ms. AMRUTHA K H Bearing USN 1KS19CS011 successfully completed 6 days course on "Blockchain Technology" conducted from 9<sup>th</sup> to 14<sup>th</sup> of May 2022 at K.S. Institute of Technology Bengaluru.

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

umas.

Dr. Dilip Kumar K Principal & Director



(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC & NBA [CS,EC & Mech]) #14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109 Tel: 080-28435722 / 24 Web : www.ksit.edu.in

**Organized by Department of Computer Science and Engineering** 

# Certificate of Participation

This is to certify that Mr./Ms. ANAGHA A HEBBAR Bearing USN 1KS19CS012 successfully completed 6 days course on "Blockchain Technology" conducted from 9<sup>th</sup> to 14<sup>th</sup> of May 2022 at K.S. Institute of Technology Bengaluru.

Jucatapu

Dr. Rekha B Venkatapur Professor & Head CSE Dept

unas.

Dr. Dilip Kumar K Principal & Director