

Kammavari Sangham(R)-1952 K. S. INSTITUTE OF TECHNOLOGY

Approved by AICLE, New Delhi, Amiliated to VTU, Belagavi, Karnataka, Accredited by NACCA NRA [Bept of CSE_ETE, NE) #14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-560109 Tel : 28435722 / 724 E-mail : principal@ksit.edu.in Web : www.ksit.edu.in

ONLINE CERTIFICATION COURSES 2019-20

SL NO.	NAME	COURSE	SIGNATURE
1	GAGAN REDDY .S	PROGRAMMING FUNDAMENTALS	gaza
2	ADITH KARTHIK RAJU	PROGRAMMING FUNDAMENTALS	21
3	MAHAK SHREE	PROGRAMMING FUNDAMENTALS	FA
4	KRISHNA .K.R	PROGRAMMING FUNDAMENTALS	400-
5	POOJA.K	CAREER EDGE -KNOCKDOWN THE LOCKDOWN	Renta
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8	BOOMIKA.P.M	PYTHON FOUNDATION	John
9	SAHANA.V	WEB PENETRATION TEST	lahan
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15	P.SAI GOVARDHAN	COVID-19 WHAT YOU NEED TO KNOW (CME ELIGIBLE)	Nemisho
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18	P.SAI GOVARDHAN	CREAT YOUR FIRST PYTHON PROGRAM	Sinte
19	S.TUSHAR HARINATH	CREAT YOUR FIRST PYTHON PROGRAM	X
20	SURAJ.V.GHORPADE	BLOCKCHAIN TECHNOLOGY AND IT'S APPLICATIONS	Suray
21	VRINDHA SHAM BHATT	BLOCKCHAIN TECHNOLOGY AND IT'S APPLICATIONS	tana
		COMPUTER VISION- IMAGE BASICS WITH	10
22	S.TUSHAR HARINATH	OPEN CV AND PYTHON	Nut
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K S INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A SEMINAR REPORT ON "INTRODUCTION TO DATA SCIENCE AND DATA ANALYTICS"

Semester:	5 th Semester
Event Type:	Seminar
Event Name:	Introduction to Data Science and Data Analytics
Date/Duration/Timings:	26/08/2019 to 31/08/2019 / 6 Days / 9:00am to 4:00pm
Associated Bodies:	Nil
No. of Students:	107
Expert details:	Prof. Kumar K, Prof. Roopesh Kumar B N, Prof. Raghavendrachar

Introduction:

The six-day workshop on Data Science and Data Analytics aimed to provide participants with a comprehensive understanding of the fundamental concepts, methodologies, and tools essential for extracting meaningful insights from data. Held from 26th August 2019 to 31st August 2019 at KSIT, the workshop attracted a diverse group of students eager to delve into the world of data.

Day 1: Introduction to Data Science

The workshop commenced with an overview of data science, its applications, and its significance in various industries. Participants were introduced to key concepts such as data types, data sources, and the data science workflow. Practical exercises allowed attendees to familiarize themselves with basic data manipulation techniques using popular tools like Python and R.

Day 2: Data Preprocessing and Cleaning

On the second day, emphasis was placed on the crucial stages of data preprocessing and cleaning. Participants learned techniques to handle missing values, outliers, and inconsistencies in datasets. Hands-on sessions enabled attendees to apply data cleaning methods effectively, ensuring the integrity and quality of the data for further analysis.

Day 3: Exploratory Data Analysis (EDA)

The focus of Day 3 was on exploratory data analysis (EDA), a vital step in understanding the underlying patterns and relationships within data. Through case studies and practical examples, participants gained insights into descriptive statistics, data visualization techniques, and exploratory data visualization libraries such as Matplotlib and Seaborn.

Day 4: Machine Learning Fundamentals

Machine learning took center stage on Day 4, where participants were introduced to the basic principles and algorithms of supervised and unsupervised learning. Topics covered included regression, classification, clustering, and model evaluation. Hands-on exercises allowed attendees to implement machine learning algorithms using popular libraries like scikit-learn.

Day 5: Advanced Topics in Data Science

The penultimate day of the workshop delved into advanced topics such as feature engineering, dimensionality reduction, and model tuning. Participants explored techniques to improve model performance and efficiency, including hyperparameter optimization and cross-validation. Case studies and real-world examples provided practical insights into addressing complex data science challenges.

Day 6: Data Analytics and Final Projects

The final day focused on data analytics, where participants learned how to derive actionable insights from data to drive informed decision-making. Group projects provided an opportunity for attendees to apply their newly acquired skills to real-world datasets, presenting their findings and solutions to the group. The workshop concluded with a certificate ceremony, acknowledging the participants' commitment and achievements.

Conclusion:

The six-day workshop on Data Science and Data Analytics provided participants with a solid foundation in key concepts, techniques, and tools essential for navigating the rapidly evolving field of data science. Through interactive sessions, hands-on exercises, and practical applications, attendees gained valuable skills that can be applied across various domains to extract insights and create impact from data. The workshop served as a catalyst for fostering a community of data enthusiasts committed to leveraging data-driven approaches for innovation and problem-solving.





EO-PO Mapping

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

3	Substantial (High) Correlation
2	Moderate (Medium) Correlation
1	Slight (Low) Correlation
	No completion

- No correlation.

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

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Event Coordinators

Duratapur

Prof. & Head, CSE

Principal

Head of the Department Dept. of Computer Science & Engg K.S. Institute of Technology Bengaluru -560 109 PRINCIPAL K.S. INSTITUTE OF TECHNOLOGY BENGALURU - 560 109.



K. S. INSTITUTE OF TECHNOLOGY

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

"Data Science and Data Analytics" Academic Year 2019-2020 (Odd Semester)

List of Students and Attendance

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Date:26/08/2019 to 31/08/2019

SI No.	USN	NAME			Signa	ture		
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11	1KS17CS013	ASHISH.K.AMAR	Ashicht	Ashehla	Ashish	Ashish	A Blick	Ashielik
12	1KS17CS014	LAKSHMI PRASANNA.B	Lakohmi P	3 Lakshufb	LakshinP	Lakshill	Lakshiif	BLakshuff
13	1KS17CS016	BHAVESH BHANSALI	Bhavest	Bhaveest	Bhadel	Bhavees	Bhavee	& Blavest
14	1KS17CS017	CHAITRA	Chaitra	Chaitre	Charlet	Feliatro	charte	e chaitea
15	1KS17CS018	CHANDANA.B.R	Gardone.	charden	chardera	Jundara	chardore	chardera.
16	1KS17CS019	CHENNA KESHAVA.N.T	Keshava'	pertura	peshro	Kasha	& feeling	telher

17	1KS17CS020	DARSHAN.S	Dogushar	Donfor	Douto	Donger	Dortha	Port
18	1KS17CS021	DEEKSHITHA.R	Deakrhis	Deekthi	Dark	Deekti	Deepk	Deek
19	1KS17CS022	DEEPIKA.S.H	Deepin	Deepika	Deepiro.	Deepike	Despika	Deepida
20	1KS17CS023	DIVYA YASHASWI KANNEY	Divya	Divya	Divya	Divya	Divya	Divya
21	1KS17CS024	GANESH.G.B	Ganesh GB	Goneshall	Gaush &B	Garishely	Gareshigh	Garad
22	1KS17CS025	GANESH MAUDGHALYA.H.G	Ganesh	Ganesh	Ganeth	Garesh	Ganesh	Gpnest
23	1KS17CS026	GAUTHAM.C.R	guithan	grather	quettar	guitte	quatre	quette
24	1KS17CS027	H.PRIYANKA	hi Periya	hi-Poinge	LaPoin	here ,	hirder's a	L'Dering
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28	1KS17CS032	KARAN RAGHUNATH	Keen	Karm	Koen	Kavin	korn	Koro
29	1KS17CS033	KARTHIK.T.C	K.1.C	KIC	k.ie	K.T.C	R.TC	K.7.0
30	1KS17CS034	KAVITHA.S	KANITHA	NAVITHA	KANITHA	KANIHA	KAVITUA	KANITH
31	1KS17CS035	KEERTHI.N	Keerthi N	Keerthi N	Keerth N	oferth N	Keerthin	keethi
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33	1KS17CS037	LAVANYA.V	Levenja	Levensp	Laverja	Laverup	Lovenja	Lavanja
34	1KS17CS038	LOKESH.B.M	L.B.M	1.3.M	L.B.M	1.3.72	132r	LBM
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K S INSTITUTE OF TECHNOLOGY DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

A SEMINAR REPORT ON "INTRODUCTION TO ETHICAL HACKING"

Semester:	7 th Semester
Event Type:	Seminar
Event Name:	Introduction to Ethical Hacking
Date/Duration/Timings:	4/11/2019 to 9/11/2019 / 6 Days / 9:00am to 4:00pm
Associated Bodies:	Nil
No. of Students:	126
Expert details:	Prof. Kumar K, Prof. Deepa S R, Prof. Roopesh Kumar B N,
	Prof. Raghavendrachar

Introduction:

The six-day workshop on Ethical Hacking for 7th semester students was organized with the objective of equipping participants with essential knowledge and skills in cybersecurity. Held from 4th November to 9th November at KSIT, the workshop aimed to foster an understanding of ethical hacking principles, techniques, and best practices among college students aspiring to pursue careers in cybersecurity.

Day 1: Introduction to Ethical Hacking

The workshop commenced with an overview of ethical hacking, emphasizing its importance in identifying vulnerabilities and strengthening cybersecurity defences. Participants were introduced to the ethical hacker's role, legal and ethical considerations, and the scope of ethical hacking in modern organizations.

Day 2: Foot printing and Reconnaissance

On the second day, participants delved into the initial phase of ethical hacking: foot printing and reconnaissance. Through practical exercises and demonstrations, attendees learned techniques to gather information about target systems, networks, and organizations using open-source intelligence (OSINT) and reconnaissance tools.

Day 3: Scanning and Enumeration

Day 3 focused on scanning and enumeration, where participants explored methods to identify active hosts, services, and vulnerabilities within a target network. Hands-on sessions enabled attendees to conduct port scanning, service enumeration, and vulnerability assessment using tools such as Nmap and Nessus.

Day 4: System Hacking

The focus of Day 4 was on system hacking techniques, including password cracking, privilege escalation, and maintaining access to target systems. Participants learned how attackers exploit vulnerabilities to gain unauthorized access and explored strategies to secure systems against common attack vectors.

Day 5: Network and Web Application Hacking

On Day 5, participants delved into network and web application hacking, covering topics such as sniffing, spoofing, SQL injection, and cross-site scripting (XSS) attacks. Practical exercises provided hands-on experience in identifying and exploiting vulnerabilities in network protocols and web applications.

Day 6: Ethical Hacking Practices and Career Guidance

The final day of the workshop focused on ethical hacking practices, ethical responsibilities, and career guidance in cybersecurity. Participants learned about the ethical hacker's code of conduct, reporting vulnerabilities responsibly, and pursuing certifications such as Certified Ethical Hacker (CEH) for career advancement.

Conclusion:

The six-day workshop on Ethical Hacking for Students provided participants with a comprehensive understanding of ethical hacking principles, techniques, and methodologies. Through interactive sessions, practical exercises, and real-world examples, attendees gained hands-on experience in identifying and mitigating cybersecurity threats ethically. The workshop served as a platform for empowering college students with valuable skills and knowledge essential for pursuing careers in cybersecurity and contributing to the global effort to enhance cybersecurity resilience.





EO-PO Mapping

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

3	Substantial (High) Correlation
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- 2 Moderate (Medium) Correlation
- 1 Slight (Low) Correlation

- No correlation.

PO's and PSO's Attained: PO1, PO2, PO3, PO4, PO5, PO6, PO8, PO10, PO12, PSO1 & PSO2.

Event Coordinators

Duratapur

Prof. & Head, CSE

Head of the Department Dept. of Computer Science & Engg K.S. Institute of Technology Bengaluru **-56**0 109

Principal

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K. S. INSTITUTE OF TECHNOLOGY

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

"ETHICAL HACKING" Academic Year 2019-2020 (Odd Semester)

List of Students and Attendance

Date:04/11/2019 to 09/11/2019

Sl No.	USN	NAME			Signat	ure		
		B. R. C. Scalar C.	04-11-2019	05-11-2019	06-11-2019	07-11-2019	08-11-2019	09-11-201
1	1KS16CS001	ABHISHEK.M	dullis	Allo	dolen	Adrie	delle	del
2	1KS16CS002	ADITYA MISHRA	Address	Adolle	Adely	Adath	Adette	Alle
3	1KS16CS003	ADITYA SHANKAR.M	Adr-M	Adi-M	Adim	Adim	Adim	Adim
4	1KS16CS004	AKHILA.N	Aklor	Aul	Alleh	Allel	All	Seh-
5	1KS16CS005	AKSHATHA.S.KATTA	Atatta	Atata	Akatte	Akathe	Akathe	Allalle
6	1KS16CS006	AMAN SAGAR	AK	ALE	AL	AL	ALE	A
7 -	1KS16CS007	AMITH.J.S	Amith	Amith	Anith	Anuth	Anith	Anish
8	1KS16CS008	ANAND.T.R	Ananad	Ananad	Anamad	Apaned	Anonal	Agand
9	1KS16CS009	ANANYASHREE.H.BHARTUR	Surger	ducus	Smenne	any	Aus	due
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12	1KS16CS012	AYUSH GUPTA	Aprile	April	Ayut	Ayuch	Auch	Ayuh
13	1KS16CS013	BHAGWAT DAYAL	BO	B	BD	B	BD	SO
14	1KS16CS014	BHARATH KUMAR.T.B	Bharath	Bharatto	Shouth	Black	Bhandh	Bhorat
15	1KS16CS015	BHARATH.P	BP	Br	BA	BP	BP	BP
16	1KS16CS016	BHAVANA.R	Bund	Bunt	Bund	Beem	Bui	Bure
17	1KS16CS017	CHARLES THOMAS	Grades	Charles	Cheeles	Carles	Charles	Carle
18	1KS16CS018	DAKARAJU VISWA TEJA	The	the	Sche	DL	Dho	Oh
19	1KS16CS019	DARSHAN.G.K	Jule	Dh	Dr	DK	dk	De
20	1KS16CS020	DHANVI.P.DESAI	Daami	Dhami	Duseuns	Dumen	Dawi	Dhar
21	1KS16CS021	GREESHMA.S	as	GZ	GD	GS.	as	6D
22	1KS16CS022	HARINI.B.H	Harthi	Harmi	Hawho	Hown	Hart	Kains.
23	1KS16CS023	HARSHITHA.B.S	Howhite	Harrie	Harttyl	Mary	Valle	Hally

	24	1KS16CS024	HARSHITHA.G.R	10.00.	Alert	hou	Henre	Heart	1 len
	25	1KS16CS025	HITHAISHINI.C	Deale	LAM.	blas	Milal	Hele	Ale
	26 .	1KS16CS026	HRISHIKESH.C.V	feer	Har	Mer	Her	Kar	Hew
	27	1KS16CS027	ISHANI KOUL	Alle-	gdy_	John	adre	My	Ide
	28	1KS16CS029	KAMAKOTI.P.SUSEELA	kp	RP RP	kP .	kp	KP	kp
	29	1KS16CS030	KAVYA.D	KD.	1D	ND	KD	KD	KD
	30	1KS16CS031	KEERTHANA VIJAYABASKAR	whay	vitar	arrey	Wirtug	May	Way-
	31	1KS16CS032	KEERTHI.M	Kevettu	Keerthi	Keetli	Keertlö	keitti	Reerth
	32	1KS16CS033	KETAN.K	Ketan	Ketar	Keta	Ketar	teta	Ketar
	33	1KS16CS034	KIRAN KUMAR.M	XXM	AXW	pkm	den	#Km	KKM
1	34	1KS16CS035	KOVVURI TARUN NAIDU	Neidu	N Jaidu	Naidu	Naidu	Naidu	Naidu
N.	35	1KS16CS036	LAKSHYA RUHELA	Lakshar	Aakshout	Lakshaf	deskehet	Litebol	R Jakdal
	36	1KS16CS037	LAVANYA.B	lavanga	Jaconja	lavarya	la ser	lancy	laure
	37	1KS16CS038	MANASA REDDY.K	Menasa	Marasa	Marca	Uanasa	Maraso	Marais
<u>.</u>	38	1KS16CS039	MANIPI MANOJ	May	AB	All I	NO	Mb	- A6
	39	1KS16CS040	MANMOHAN SINGH	Meigh	Migh	Mingh	Msigh	Mojgh	Meigh
	40	1KS16CS041	MEGHANA.B.S	meghanaf	meghool	Megharat	meghane	Meghand	Meghand
e e a	41	1KS16CS044	MOHITH.P	Pole	Pochik	apolin	About	About	Ander
	42	1KS16CS045	MONICA.M	Mall	mm	MAD	ALAL 1	My	MAS
	43	1KS16CS046	MONIKA.C	Porib	Ponila	Ponila (Porsa	Poria	Aonita
- 	44	1KS16CS047	MONISHA.R	monishat	. Monisha	R monshaf	monishak	monicho	emonishak
	45	1KS16CS048	MYTHRESH.A	No	NA	Md	Ma	Ma	MA
	46	1KS16CS049	NAGALEKHA RAMESH	NRa	NRO	NRa	NRe	NRQ	NRe
	47	1KS16CS051	NARSINGH KUMAR CHAUHAN	Nous	Nars	Nachin	May	Nag	Need
	48	1KS16CS052	NAVYA.N	Navya	Navya	Navya	Nevya	Navya	Marya

	49	1KS16CS053	NIHARIKA RAJARAM	Q-	R	Q.	P_	Of 1	C
	50	1KS16CS054	NIKHILA.M.Y	Nº blal	Wibliel	Nikhil	NAdel	Norelie	writed
	51	1KS16CS055	NISARGA.B	Nisog	Nisapa	Nisalga	Nisy	Misege	NISSA
	52	1KS16CS056	NITHYA.G	Nelluga	Nothiga	Nethera	Vertuge	Nothige	Withy
100 A	53	1KS16CS057	NIVETHA.K	nive	NK	mix	Nive	AK	NIR
i de la constante de la consta	54	1KS16CS058	NUKALA HARI VAMSI, KRISHNA	Varia	Mer	Ale	Ste	An	an
	55	1KS16CS060	PAVAN GOWDA.B.K	Paran	-Paver.	Pavon	Pianan	Poror	Par
	56	1KS16CS120	SINDHUSHREE <	Sindhu (Sindher	Sindher	Sindhe	Sindh	Suda
	57 54	1KS16CS121	SUSHMA BASAVARAJ NIDONI	Sue	Sue	Jus (Sen	Puz	Sim
	58	1KS17CS403	KARISHMA.A.J	krel	Knif	knij	kuj	korf	Kill
	59	1KS17CS404	NETHRAVATHI.K.G	Nethea	Nether	Nedule	Nether	News	Nears
	60	1KS17ÇS406	SANDHYA.K	Suddy	Sally	Sadher	Sdy	Solly	- Sadha
	61	1KS17CS407	SHRUTHI.D.N	Benth'	hour	But	and	as	S
	62	1KS15CS009	ANUPAM.R	Ang	Au	Az	A	A.	A
	. 63	1KS15CS011	APOORVA.V.KUMAR	Aluma	Aluma	Maine	Alen	Aun	Alla
	64	1KS15CS014-	BHARATH.H.G	Bhardle	Bhorattu	Bharetto	Bhoratto	Brandle	Bheralle
17 · · ·	65	1KS15CS037	JAYRAJ JATIN BAGDAWALA	J.J.B	1J0	JJJ	55K	JEN	J.S. O.
	66	1KS15CS078	RAJEEV KOUSHIK.Y.G	Ye	N/m	Ve	YE	YE	16
	67	1KS16CS061	POOJA SREEDHARA MURTHY	Poera.	Pacia	Poop	Paoja	Paoja	Períoja.
	68	1KS16CS062	PRADEEP.K.S	adaet	Dealesp	peoloop	Denlee	poloe	here
and and a second second	69	1KS16CS063	PRAJWAL.D	Prey	Ray	Pray	Bray	Prox	Pris
	70	1KS16CS064	PRANJUL MISHRA	Pm	Pm	PM	Ph	PD	PM
L		and the second	and the second	a de la face de la la composition de la	and the second stand of the	and the second second		1 m	

71	1KS16CS065	PRASHANT KUMAR TIWARI	Radual	Schould	Spelich	Halut	Frank	Po
72	1KS16CS066	PRATIK.N.N	PNIN	Prin -	Prior -	Press	Ino	PAIR
73	1KS16CS067	PREKSHA.J.W	Pju	Pjue	Rju	Rjuce	Pju	Rin
74	1KS16CS070	PRIYANKA PANDIT	<u>P</u>	R	R	R	R	¥
75	1KS16CS071	PRUTHVI PATEL.A.S	patel	pater	faited	perter	pole	fal
76	1KS16CS072	RAGHURAM.G.N	RgN	RgN	RgN	RgN	RgN	Rg
77	1KS16CS073	RAHUL.V	Kahul	Kalul	Rahul	Rahul	Rehul	Rel
78	1KS16CS074	RAKSHIT PAWAR	RP	BR	RE	RP	RP	PF
79	1KS16CS076	RITWIK.G.S	Plant	Pole	for	Rose	fo	Re.
80	1KS16CS077	ROHIT KUMAR.B.R	KAD	RE	perh	RB	Kalu	KB
81	1KS16CS078	RUTHVIK.B.R	Ruthisik	Rathers	Rutharle	Rithu) Rutness	Ru
82	1KS16CS079	SAHANA.S	A	he	for	b	4	k
83	1KS16CS081	SAMEEKSHA.M.GUPTA	True	Sect	utto	the	Solo	too
84	1KS16CS082	SAMPATH KUMAR	Sempätti	Samualt	5 Sampelle	Sampath	Sompett	e Sa
85	1KS16CS083	SANDHYA.D	Sandhya	Sandle	9 Sandleys	Sendly	Sendley	Sou
86	1KS16CS084	SANDRA VAANIJA	Bundre	Bonds	- Gandre	Gailt	Barde	Qu.
87	1KS16CS086	SAVINAYA SHETTY.T.N	THE	TAB	THE	TE	The	TZ
88	1KS16CS087	SHALINI.N	Realizer	Rotte	- Salter	ale	Alt	C.
89	1KS16CS088	SHALINI.V	Shale	Shalu	Shale	- Shal	4 Shel	
90	1KS16CS089	SHANTANU KUMAR	Puz	A	- China	for	you	J
91	1KS16CS091	SHEELA	hat	Prost	Red	Rel	Ree	2
92	1KS16CS092	SHRAVAN BHAT	Burg	Som	Some	. See	· Suc	- Sa

93	1KS16CS093	SHREELEKHA.R.N	Shee	Stee	Steer	Chree	Adee	due
94	1KS16CS094	SHREYAS.H.C	SHC	fuc	SAL	ftic	fre	SHC
95	1KS16CS095	SHRIVIDYA.N	Shring	Skenze	Shinge	Shen	Shig	She
96	1KS16CS096	SIDDHANTH.M	Such	Sur	Sun	S	S	5
97	1KS16CS098	SONALI SINHA	Grahisiste	Sonali Sil	- Sonali Sinte	Constation	- Faralish	soralisto.
98	1KS16CS099	SOUJANYA.K	Soujan	e Coujara	Soujary	Soujn	Soys	Gia
99	1KS16CS100	SOUMYA DATTATREYA HEGDE	SDHegde	Sto Hegle	SD Hepel	softer	SORep	SD Keger
100	1KS16CS101	SOURAB KUMAR	Skuwer	Alexan	flourna	flew	Sterna	fler
101	1KS16CS102	SUHAS.K.J	6	4	5	2	6	6
102	1KS16CS103	SUHAS KAKADE.K	5 Kab	Stop	Stop	Star	Sh.	S.
103	1KS16CS104	SUHIL.K.M	Subil	Subil	Suhil	Sulli	Subil	Subel
104	1KS16CS105	SUPRIYA.C	Supriye	Sugnit	Superry	fuger	Sugar	Supert
105	1KS16CS106	SURYA.M	Supp	Surge	Sureya	Siaya	Sueye	Suera
106	1KS16CS107	SWATHI.M.C	Institui M	8 matter	Swatter	Swatter	Susatta	Swathin
107	1KS16CS108	TANUSHREE.P	TANew	TANOU	TANU	TAKON	CANU	TANU
108 -	1KS16CS109	TEJASWINI.G	Feg. Cr.	Tej-Ci	Tej-a	Tej·1	Fef-cr	Tepar
109	1KS16CS112	VARSHA PURUSHOTHAM	Varsha	Varsha	Variha	Vortha	Varily	Varden
110	1KS16CS113	VARSHITHA.K	Ve	VLB	Vik	V-k	Voet.	Vike
111	1KS16CS114	VEDANTHI KARTHIK.N	VK	U.10	Nº la	Vile	r.b	- V-1-
112	1KS16CS115	VELLUVAYALA RAKESH SRIVATSAV	Vellu R.S	Vellerful	Veller-R.S	alleva	Weeken M	S leeler .
113	1KS16CS116	VENNALA.K.N	Vale	Verla	Vela	Vele	Vela	+ Vaula
114	1KS16CS117	VIDHYA DHARI.L	Vidley	Vistor	Vidher	Vielby	Vian	Visig

	115	1KS16CS118	VIDYASHREE.S	V.Shree	Ulshree	Allee	Mourae	Ustre	Von
	116	1KS16CS119	VYDEHI BHAT	V. Bhad	4. Bhat	4, Black	V. Black	10. Mhos	V-Block
	117	1KS16CS123	RASHMI HEGADE	Reshrui	Palleto	Karlyman	Raders	Rechen	Page
	118	1KS17CS405	NISHANTH.A	Risharm	A isharp	Quiran	Richar	Dirl	Post
h _a r.	119	1KS15CS035	HARSHITHA SAKCHI	Harsh the	Hereita	flouishin	flaunt	Fain	Ham
	120	1KS15CS069	PRASHANTH.S	hear	Aler	Neg	No	ps.	k
	121	1KS15CS073	PRIYANKA.M	periz	Neong	Rus	puz.	Rey	Rey
	122	1KS15CS091	SHANTHANU SHIVASWAMY	ds. Sway	S.J. Swe	S.J. Swany	5.5.600)	Signer	S. J. J.
1	123	1KS15CS121	YASHAS.H.R	Yashar	Youther	Jackse	Yell	Yape	Youch
The second	124	1KS15CS127	VINUTHA.S	Vina	Vin	Mine	Was	Using	Vile
•	125	1KS14CS076	PAVAN KUMAR.D	Devar	Pavar	pavar	Pavar	Power	Pavar
	126	1KS16CS404	JYOTHIPRIYA.M	Frozeni	Fyothi	Fyster	Fyran	Fron-	Typots

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Prof. & Head, CSE

Head of the Department Dept. of Computer Science & Engg K.S. Institute of Technology Bengaluru -560 109

Principal

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



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE – 560109 DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Image and video Processing using Rasberry Pi

Date of Conduction: 21-10-2019 to 26-10-2019

Venue: KSIT COLLEGE

Time: 9.00 AM TO 4.00 PM

Duration: 6 days

Sponsoring Bodies / Associating Organization: Nil

Expert Details – Dr.Joy Prabhakaran, Prof. Saleem S Tevaramani

Objectives / Key Highlights: Familiarize participants with Raspberry Pi hardware and Python programming to enable image and video processing. Develop skills in basic and advanced image processing techniques, including manipulation, filtering, and object recognition.

Participant details – 5th, 7th Semester students of ECE - 217 students



Introduction to Raspberry Pi and Python Basics

- Overview of Raspberry Pi and its capabilities
- -Setting up Raspberry Pi

Image Processing Basics

- Introduction to image processing concepts
- Capturing images using Raspberry Pi camera module
- Installing and using OpenCV on Raspberry Pi
 - Basic image manipulation (resizing, rotating, flipping)

Advanced Image Processing

- Image filtering (blurring, sharpening, edge detection)
- Color manipulation (converting color spaces, thresholding)
- Contour detection and object recognition

Video Processing Basics

- Introduction to video processing concepts
- Capturing video using Raspberry Pi camera module
- Playing videos on Raspberry Pi
- Basic video manipulation (extracting frames, resizing)

Advanced Video Processing

- Motion detection using video streams
- Background subtraction
- Object tracking in videos
- Real-time video processing applications

Project Day

- Participants work on a project combining image and video processing techniques learned during the workshop
 - Project presentation and discussion

Outcomes / Benefits:

- 1. Understand the fundamentals of Raspberry Pi and Python programming for image and video processing.
- 2. Gain proficiency in basic image manipulation techniques and image processing concepts.
- **3.** Learn advanced image processing techniques such as filtering, color manipulation, and contour detection.
- 4. Acquire skills in capturing and processing video on Raspberry Pi, including motion detection and object tracking.

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	3	3

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K.S.INSTITUTE OF TECHNOLOGY

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

Image & Video Processing using Raspberry Pi

ACADEMIC YEAR - 2019 -20 (EVEN SEMESTER)

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SL.NO	USN	NAME OF THE STUDENT	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
1	1KS17EC001	ABHISHEK.K.V	A	A	A	A	A	A
2	1KS17EC002	ABIJITH SUDHIR	Jan	tida	Abbi	Aldrie	Ablue	Aldre
3	1KS17EC003	AKKSHAY.U.L	Akoha	Akoha	Abstra	Akas	Akass	ARes
4	1KS17EC004	AKSHITHA.V.RAMESH	Achike	AKehitha	Abshith	Addhithe	Atchillo	Achille
5	1KS17EC005	AMOGHAVARSHA.N.D	Amogha	Allegher	Anoghe	Angle	Aluga	Apaghe
6	1KS17EC006	AMULYA.S.IYENGAR	Aph	poh	Ali	Julh	Aut	Ander
7	1KS17EC007	ANA EPSIBA.F	Anc	Aper	Anc	Ave	Anec	Oner
8	1KS17EC008	ANAGHA.A.KASHYAP	ARE	Dork	DAR	AAR	AAR	Aller.
9	1KS17EC009	ANITHA.R	Ani	Ani	Shù	Ani	And	Ani
10	1KS17EC010	ANOOP DEEKSHITH.R	AReeke	Doecki	Allak	Deleek	Adela	Holak.
11	1KS17EC011	ANUPAM.M.L	Anunl	Break.	Ancual.	Anead	Anceal	Chuard
12	1KS17EC012	ANUSHA.L	AL	An	dh	Ah.	ph	Ale
13	1KS17EC013	ANUSHREE.M	Ann	Aan	Ann	Ann	Ann	Ann
14	1KS17EC014	ANUSHRI.V.K	vk	VZ	VR	vk	VR	vk
15	1KS17EC015	APEKSHA RAVI KUMAR	APS.	Apple	AP4.	APBA	App	AND.
16	1KS17EC016	ARPITHA	D.	1	AA	An	An	AL
17	1KS17EC017	ASIYA FATHIMA.N	Asingo	Aciya	Aciya	Assya	Asiya	Asiya
18	1KS17EC018	AYESHA ROSHEEN	Applia	Syreha	Lyetha	Sycho	Aperha	Ayreha
19	1KS17EC019	B.D.SHREENIDHI	free	free	boree	hree	free	hree
20	1KS17EC020	BHAVANA.B.S	K.W.	AW	KW	W	fur	fint
21	1KS17EC021	BHAVANA.J	Bluery	Alter	Bland	Blan	Bhat	Bland .
22	1KS17EC022	внооміка.р.к	Bhoo	Broo	Bhoo.	Bhoo	Phon	Broo
23	1KS17EC023	BINDU.J	Bie	Bin	Rin	Bin	Bin	Bir
24	1KS17EC024	CHAITHRA.V.M	draiter	chante	Jonet	dianters	dunt?	dette
25	1KS17EC025	CHARAN SAI.Y	Christman	Chitters	chor.	Chorator	chora)	Chronold
26	1KS17EC026	CHETHAN.D.R	Chothan	Ouethan	avena	Chethan	alethan	aretna
27	1KS17EC027	CHETHAN.G	Chitan	Chetan	Chetan	Chetan	Chetan	Chitan
20	1KS17EC028	CHETHANA.K.S	Que	hi	She	She	he	She

SL.NO	USN	NAME OF THE STUDENT	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
29	1KS17EC029	CHETHANA PRASAD.K	Churt	dus	chief	dul	deed	des
30	1KS17EC030	DARSHAN.T.G	Daehey	Dorely	Dorehu	Dozel	porely	porchas
31	1KS17EC031	DEVALE SUDARSHAN	De	ben	Der	Der	Ber	Ben
32	1KS17EC032	DEVIYANI.G	Delin	Deni	Deni	Deen	Deni	Dem
33	1KS17EC033	DHAKSHITH.N.K	œ.		Đ-	æ.	Q-C	(A)
34	1KS17EC035	DISHA.S	Disha	Disha	oigha	Dishe	Pibler	Dipper
35	1KS17EC036	DIVYA.T.M	Bat	At	B	Da	A	DT
36	1KS17EC038	GOPINATH.H.C	100	los	w	Mu	W.	tion
37	1KS17EC039	GOWTHAM.B	Jach	Coll	Vall	Gash	bouch	Goolles
38	1KS17EC040	G.S.SURABHI	Asco	Swords	Sut	Aures	Lord	Jun
39	1KS17EC041	H.G.SRINIDHI	S	· &	So	- 50-	5	5
40	1KS17EC042	JEEVAN.R.S	Jeway	Jewon	Teven	<i>Seava</i>	Jewa	Sauan
41	1KS17EC043	K.SHREYA	Shreep	Shreya	Shreya	Shraya	Shray9	Shreig.
42	1KS17EC044	KAMNOOR SUSHMA	the	tra	kon	ka	ka	the
43	1KS17EC045	KRITHIKA.P	to.	A35	An	Ken	FR.	#92°
44	1KS17EC046	LAKSHAN.N.S	NS	NS	NS	NS	WS	NS
45	1KS17EC047	LEKHA YADAV.B	Lefe	Kek	Leb	Lek	deb	Jak
46	1KS17EC048	M.R.SRINIVAS	NDS	AR	mp	MB-	NP-	NB
47	1KS17EC049	RANJITH.M	An	Rm	Rm	Rm	Rm	Rim
48	1KS17EC050	M.SIRISHA	sirih	sirih	sirih	siento	sinh	when
49	1KS17EC051	MADHU.S	Man	Moren	Moren	Man	Mon	More
50	1KS17EC052	MAHADEVA.G	May	Mab	Malt	mat	mb	mob
51	1KS17EC053	MAMATHA.K.S	pron	Mon	prom	man	pon	pon

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Image & Video Processing using Raspberry Pi

ACADEMIC YEAR - 2019 - 20 (EVEN SEMESTER)

BRANCH : ECE

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SL.NO	USN	NAME OF THE STUDENT	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
1	1KS17EC054	MANOJ.E	NIN	MIN	MIN	LUN	LIAN	MA
2	1KS17EC055	MANOJ KUMAR.R	manoj	manoj	mang	manoj	manoj	manej
3	1KS17EC056	MOHAMMAD FAIZAL	Ang .	Fay	Pere	Foy	Pag	forg
4	1KS17EC057	MOHAMMED SADATH	Sol	Sad	Sas	Saj	Sey	Say
5	1KS17EC058	MONISHA.A	Mand	Mar	Mo	HA -	10-	Mar
6	1KS17EC059	NAGANETRA.M	1000	naga	navya	noga	nada	naga
7	1KS17EC060	NAGELI JAYASAI NAIDU	Nord	Neval	Naval	Narl	Hard	Nash
8	1KS17EC061	NAVEEN KUMAR BURUGUPALLY	Naveen	Naveen	Noneg.	Named	Nancer.	Nouleen
9	1KS17EC062	NAVIN KUMAR.H.G	Nove	Nous	Naub	Natter	Now	Nour
10	1KS17EC063	NAVYA.S	alaya	Nonje	Norges	Newy	1 Dours	19009
11	1KS17EC064	NIKHIL.V	pl.	241	201	M	PU	Der.
12	1KS17EC065	NIKHIL.V	Ask-	lik	Nor	llek	lik	lok
13	1KS17EC066	PALLAVI.S	Pallow	Rallen	Rallin	Ralen	Kæler	Rallen
14	1KS17EC067	PAVAN PRASAD.R	Falau	PALLAM	Paras	Ranger	BIMA	Davan
15	1KS17EC068	PENUJURI NAGA SAI SNEHITHA	80-1	Se	Ser	Sei	Sei	Se'
16	1KS17EC069	PRAJWAL.C	Fair	BOIL	Bogi	Ponj	Poaj	Prai
17	1KS17EC070	PRAJWAL SIMHA.S	R	PL	RR	PP.	RA	All
18	1KS17EC071	PRATIMA.P.AGNIHOTRI	Rate	Bothia	fratu	Prati-	Pret.	pron
19	1KS17EC072	PRATIMA V KASHYAP	RH-	PH	12	PP-	RH.	16-
20	1KS17EC073	PRUTHVIRAJ.N	First	BAGE	Prat	Perak	Deak	Drak
21	1KS17EC074	R.YASHAS	yalu	yain	yan	yan	yan	gun
22	1KS17EC075	RACHANA.S	Paena	Ruan	from	fren	Pren	fren
23	1KS17EC076	RAHUL.R.NADIG	Zalle	Raly	Ralle	Bahul	Rahu	Dahu
24.	1KS17EC077	RAJESH.C.S	Rai	Raj	Rat	Raj	Raj	Raj
25	1KS17EC078	RAMYA.R	Komp	Romy	Roufe	Samp -	but	fory u-
26	1KS17EC079	RITU PATIL	RA	Rift	Bity	Ritu	Rity	Ritu
27	1KS17EC080	ROHINI.D	Rohin	fohi-	fol.	John	Robri	Robin
28	1KS17EC082	RUTHVIK RAVISH	Ruth	Rudin	Rubb	Duto	Ruth	Ruth.

SL.NO	USN	NAME OF THE STUDENT	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
29	1KS17EC084	SAHANA.M.K	Shere	Sel	Seh-	Sol	Sel	Solu.
30	1KS17EC085	SAHANA.V	sal	Sat	Sof	Saf	SOF	Saf
31	1KS17ĘC086	SANDEEP KUMAR.M	Sou	She	Jan	Jan	Jan	Jan
32	1KS17EC087	SHAMANTH RAJ.D.N	Stam	Shown	shaw	shoung	show	sham-
33	1KS17EC088	SHIVANI.K	Shive	Shimi	phini	Shini	Shini	Shini
34	1KS17EC089	SHRAVYA.S.ACHARYA	8/12/109	frit	& hrence]	should	shrong	sharps-
35	1KS17EC090	SHREYAS.H.R	S		8		8	8
36	1KS17EC092	SRIVIDYA.V.R	5	5	D	- 20	- 50	- 5
37	1KS17EC093	SUPRIYA.V	Spp	Suprja	Syntya	Suppiga	Supiya.	Septe.
38	1KS17EC094	SURYA.N	Topp	enga	intega	Daya	Istophen	Longo
39	1KS17EC095	SUSHMITHA.B.L	Sul	Sit	Sut.	Set	Sub	81
40	1KS17EC096	SUSHMITHA.K.N	Su	8	8	di-	S	&
41	1KS17EC097	SYED WAQAR KASHIF	Giv	San	Sew	Sw	Sm	Su
42	1KS17EC098	TĖJAS.K	tejas	Atjons	Aejas	Aejas	Actas	Aejas
43	1KS17EC099	VAIBHAVI SREENIVASA	val-	Your	Val	.Val	Var .	the
44	1KS17EC100	VAISHNAVI.K.KATTI	Val	vale	Nail	Vald	Valle	Norld
45	1KS17EC101	VAISHNAVI.S	Ven	Jon	Va	Van	Ven	Var
46	1KS17EC102	VAISHNAVI SRIHARSHAN	VS-	18	JC.	VQ.	Je-	JAS-
47	1KS17EC103	VIDYA.V	Vidya	Vidya	Vidya	Vidys	Nidya	Vidya
48	1KS17EC104	VISHAL GOUTHAM.N	Vý	Vg	27	vz	Vg	vg
49	1KS17EC105	YASHASWINI.R	Yosh	yel.	yes!	yee	yest.	yoek.
50	1KS18EC403	HARSHITHA B	Hoor	Har	Hoor	Har	Har	Har
.51	1KS18EC406	MAHADEVA G R	Den	Dell	Dev	Dell	Dell	Dey
52	1KS18EC408	VANITHA C	valt	- Nout	Valt	here	Weith	Varth,

18 4

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

K.S.INSTITUTE OF TECHNOLOGY

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

Image & Video Processing using Raspberry Pi

ACADEMIC YEAR - 2019 - 20 (EVEN SEMESTER)

DEPT / BRANCH : ECE

VII TH SEM A SECTION

SL.NO	USN	NAME OF THE STUDENT	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
1	1KS14EC101	SOWJANYA K N	Som	Syse	SS	Segu	Sy	Sis
2	1KS15EC422	HARSHA S	KS	128 1	13-	US_	LB_	JR.
3	1KS16EC002	AALIYA ZAINAB	AA	AA	AA	. AA	AD-	A
4	1KS16EC003	ABHISHEK.A.NANDYAL	AB	AB	BB	- OB	AB	AB
5	1KS16EC004	ADITHYA.D.M	a	A	A	A	A	A
6	1KS16EC006	AKASH MAHANTESH HOSAMANI	Lu	Su	L	L	Som	Su
7	1KS16EC009	ANIRUDH.K.N	A	A.	A	À-	A	A
8	1KS16EC010	ANUSHA RAJ.D	AK	AR	AR	AL	AK	AR
9	1KS16EC011	ASHIK.B.N	the	Al	AS-	AS-	AS_	AS
10	1KS16EC013	ASHWINI.S	X	A	A	A	AS,	Kr.
11	1KS16EC014	AYUSH RAJ	Augula	Auto	AND	Ayph	Aug	Aykh
12	1KS16EC015	BHAGYA SHREE.S.J	80	By A	BZ	Bg	Bg	By
13	1KS16EC016	BHARATH.R	Bhr	Rhe	Phi	Bhe	Bhi	Bhe-
14	1KS16EC017	внооміка.р.м 🥐	Romi	homi	hoomi	Broomi	Boomi	Prooni
15	1KS16EC018	BRUNDA.S	Ato	R	B	B	Ro-	B
16	1KS16EC019	CHANDANA.R	Olee	Clou	ana	Conti	Choir	alon
17	1KS16EC020	CHARAN.A	Cha	Cha	Chu.	Cha	Cha	Cha
18	1KS16EC022	DEEMANTH.K.P	Om	Din	Dy	Am	Du	Am
19	1KS16EC023	DEEPA.R	De-	Prest	Pd	Put	P.P.	Ryf
20	1KS16EC024	DEEPAK LAMANI	Deepsk.	people	Dopok	Deetak	Reaport	Reepat
21	1KS16EC025	DEEPIKA.M	Deepiler	pepte	Deepka	prepier	peopilco	Deeple
22	1KS16EC026	DIVYALAKSHMI.G	aya	Duya	Dirye	pirge	Dingo	pilyu.
23	1KS16EC028	HARSHINI.B.S	Horem	your	borge	Hores	barg	Horn
24	1KS16EC030	H.M.NIKHIL JAMADAGNI	Ħ	TP	Ħ	T	JH.	H i
25	1KS16EC031	JAYAM HARESH THARUN	1000	1000	-325	305	-30-5	Jart
26	1KS16EC032	JEEVITHA KALAASHILPA.N.C	F	June	Fr	Tru	F	fr
27	1KS16EC034	KADRI SRINIDHI RAO	S	S	S	S	S	S
28	1KS16EC035	KARTHIK.K	Kartti	Kaithie	Kaithik	Karthik	Kaithik	Kattik
29	1KS16EC036	KOMAL KHANDELWAL	Konal	Kond	Komal	Kowal	Kand	Komal
30	1KS16EC037	KRISHNA.D	lape	Lefe .	Cleb	Carle	Ceept,	Cefe.
31	1KS16EC039	L.S.BABY RAM	The	Reis	Part	Penso	Fers	Rand

SL.NO	USN	NAME OF THE STUDENT	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
32	1KS16EC040	LAKSHMI PRIYA.K	Lak	hat	far	fall	fal	Lan
33	1KS16EC041	LIKHITHA.Y	hy	hu	LIL	del	H	-ANG
34	1KS16EC042	LOKESH.S	Joy	Loy	2015	Loy	Loy	Joy
35	1KS16EC043	SURYA.M	Sur	Gr	Sur	Sur	Sur	Sur
36	1KS16EC044	MADHU.G	N	B	()	a	(DA)	Q
37	1KS16EC045	MADHU.N	Math	Mash	Madh	Radh-	Had	Madh
38	1KS16EC047	MANIKANTAN.G	M	AA.	A	AA.	A	AA-
39	1KS16EC048	MANJUNATHA.B.S	Moon	Am	Mm	Mm	Mm	Mm
40	1KS16EC049	MEENAKSHI.A	merk	menzi	mere	ment	port	prente
41	1KS16EC050	MEGHASHREE.V	Mag	My	May	May	trees	Mag
42	1KS16EC051	MOHAMMED WALEED	40-	An	A	N	P	-p2-
43	1KS16EC052	NAMITA.L.RAO	brc	OR	NR	OK	an	m2
44	1KS16EC053	NAMRATHA.G	R	Q	R	R	R	R
45	1KS16EC054	NAMRATHA.G	NA	MAN	Ng	Mg	NJ	Ng
46	1KS16EC055	NANDANGOWDA.S.H	Ko-	A	D	"A	E	-
47	1KS16EC056	NAVEEN	Nov	new	Now	now	now	non
48	1KS16EC057	NEHA.J.KOTWAL	Off	Ref	Ruf	AL	Pil	AP
49	1KS16EC058	NEHA.N.V	Def	Nit	Nht	NI	NJ	not
50	1KS16EC059	NIKITA BALAPPA	Nit	NA	NER	Nir	Nek	Ner
51	1KS16EC419	KUMARA B N	Kunne	kung	Kune	Kun	Kuns	Kun
52	1KS16EC422	MEGHA	Megna	negra	neyton	Meghe	Megha	Negh
53	1KS16EC430	RAKESH K.M.	Reahers	Rohu	Archel	Rohel	Alchel	Kahus
54	1KS17EC400	ARPITHA.C.V	De	De	De.	DR	De	AP.
55	1KS17EC402	ASOK KUMAR	BK	SK	AL	AK	Ar	AK
56	1KS17EC404	CHANDRAKALA.K.S	Cur	Che.	CHE	chy	Ches	Cly
57	1KS17EC405	CHANDU P J	CPS	CHY	Egy	CPJ	CM	CPj
58	1KS17EC406	HARITHA K	coon	6507	(19)	607	(00)	6003
59	1KS14EC068	POOJA P G	Pon	they	for	Rig	Reg	frey
60	1KS14EC107	SUMUKHA S RAM	GR	Sel	Śn	Sel	Sir	Bel
61	1KS14EC117	YASH RAI	MA	ye	yp	YR	yp_	YR
62	1KS15EC071	PUCHAKAYALA HEMANATH CHOWDARY	prem	Henr	bem	Hen	yers,	Hem
63	1KS15EC099	SURYA.K.B	Sur	Sur	Sur	Sur	Suor	Suz
64	1KS16EC060	ONKAR MISHRA	Olle	du	Qui	Ole	Ol	our
65	1KS16EC061	РООЈА.К	for	Pas	Pos	Pos	for	R
	1. Pathy :	Hard 1:11 - 1 1. It with		11/10/	81 7			

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Image & Video Processing using Raspberry Pi

ACADEMIC YEAR - 2019 -20 (EVEN SEMESTER)

RANG	CH : ECE			VII TH S	EM B SE	CTION		
SL.NO	USN	NAME OF THE STUDENT	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
1	1KS16EC062	PRATHAM KUMAR.D	Pratham	Prathan	Prathay	Prathay	Brathan	Prothan
2	1KS16EC063	PRATHIKSHA.P	Prodlik	Gueliker	Pallad	Proffile	e Brolly	Agelly
3	1KS16EC064	PRATYUSHA.S.A	Ro	D2	Rei	B	Re	fr
4	1KS16EC065	PRAVEEN TULASIDAS	Pera	Ba	Reg	Pra	pag	pa.
5	1KS16EC067	PRIYA.S	Por	Prix	Price	Protect	Page	fing
6	1KS16EC070	RAHUL KUMAR	Robert	Robo	Reh	Reber	Pehus	Nehus
7	1KS16EC071	RAMYA.M.S	Da	Ro	Roe	Ken	Ran	Ron
8	1KS16EC072	RASHMI.S	De	P	R	Ş	S.	D
9	1KS16EC073	RAVI NANDAN	RN	R.N	R.N	RN	RN	RN
10	1KS16EC074	RAVI TEJA.M	Pario	Ravi	Ravi	Rand	Raw	Row
11	1KS16EC076	S.SHWETHA	Sur	Spor	Sus	Suc	Ser	San
12	1KS16EC077	SACHIN.M.G	SMG	SMG	SMG	SNG	Suci	SMG,
13	1KS16EC078	SADHVIKA CHANDRA.R	A.	Cr Cr	Q	8	S	S
14	1KS16EC079	SAHANA.D	Sahes	Salore	Salo	Soly	Sahr	Sahar
15	1KS16EC080	SAHANA.K.G	\$	F	\$	\$	*	\$
16	1KS16EC081	SAI TARUN TADIPARTI	Sai	Sai	Day	Sei	Saria.	Sal
17	1KS16EC082	SANANDA RAO.K.S	Sarara	Carardo	Sarande	Sarasas	Savanoa	Saran
18	1KS16EC083	SARAH AHMED	Share	Ame	Bour	Amer	Starel	April
19	1KS16EC084	SAURAV KUMAR	Same	Say	Sau	Sau	Saus	Saus,
20	1KS16EC085	SHEETHAL.J.RAO	staa	SRat	SP96	\$800	spal	Space
21	1KS16EC087	SHREYA SRINIVAS	flarge	Jas	star	stan	Sharg	slow
22	1KS16EC088	SHREYAS.K.V	800	A.	Set.	fot	Ret.	APA -
23	1KS16EC089	SHREYASHWINI.V	Stel	Shar.	St.	Sht.	And.	Ses 1
24	1KS16EC090	SHRINIDHI.N.S	ß.	Sito.	Sec. 1	Si and	Ø.A	Ran
25	1KS16EC091	SHYLESH RAJ.T.D	Studen.	Stor	Statest	Shyles.	shyper	hypes
26	1KS16EC092	SKANDA.N	8m	Sm	b	Sa	A	\$h-
27	1KS16EC094	SONIKA.V	Sa	ale	Se	Se	Se	Se
28	1KS16EC095	SPURTHI.M.K	Se	Se	Se	So	SP	80

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SL.NO	USN	NAME OF THE STUDENT	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct
29	1KS16EC096	SUDHANSHU.S.SHARMA						
30	1KS16EC097	SUHAS.K	Subas	Suhas	Scrhas	Subas	Suhas	Juhas.
31	1KS16EC098	SUHAS.M.V	G	()	3	Ser	Sw-	Qu
32	1KS16EC099	SUMA.B.S	6	8	8	B	S	8
33	1KS16EC102	T.G.NITHYA	A		Ô	Ô	\bigcirc	Q
34	1KS16EC103	TEJAS.P	Tojas	Topolo	Tens	Tejas	Tepag	Topo
35	1KS16EC105	VARSHINI.K.S	A	At	Yac-	VA	Ht-	Kb-
36	1KS16EC106	VASUDEVA UPADHYA.K.S	Vason	Vars	lass	Vous	Marg.	Vous
37	1KS16EC108	VIDHYA.K.S	All.	28	26	HP.	lef	leff
38	1KS16EC109	VIDYA.B	Vid	Vid	Vid	via	vid	vid
39	1KS16EC111	VIGNESHKUMAR.V	Con	a	(II)	()	(Va)	(D)
40	1KS16EC112	VINAY.N	Um	Vik	Vin	Vin		Và
41	1KS16EC114	VINOD KUMAR.P	Vã-	Un	Ĩ.	il	le	il
42	1KS16EC115	VISMITHA SONNA SATHYANARAYANA	R	R	R	R	R	R
43	1KS16EC116	VIVEK.R	Vinel	Vivek	Vivek	JAVOK	Vivek	vick.
44	1KS16EC401	AKASH B N	The state	As	the	Alas	445	AKS
45	1KS16EC416	ISHWAR MANNIKERI	Rs	AS	75	The	Rs	T8
46	1KS17EC407	HARSHA C M	Nor	304	Nor	Note	that	Stor
47	1KS17EC408	HARSHITH . K	port	Hers	Hell	Hars	Hold	Hot
48	1KS17EC409	PRABHAVATHI.K	Poatha	Pratha	Butto	Pootha	Poetha	Botha
49	1KS17EC413	TEJASWINI B	33	Fy.	Fi	Jef	HA	Jej .

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



A Report on Value Added Course Computer Aided Design and Computer Aided Manufacturing for Industrial Application

Date of Conduction: 04-11-2019 to 09-11-2019

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. Girish T R, Prof. Manjunatha B R, Prof. Harish U

Description of the Event:

Introduction:

In today's rapidly evolving engineering landscape, proficiency in Computer-Aided Design (CAD) and Computer-Aided Manufacturing (CAM) is essential for engineers to stay competitive and meet the demands of modern industries. To equip Mechanical Engineering students with the necessary skills and knowledge in these critical areas, a comprehensive six-day Faculty Development Program (FDP) on CAD/CAM was conducted.

The course aimed to provide participants with a deep understanding of CAD/CAM principles, advanced modeling techniques, CNC machining operations, and the integration of CAD and CAM processes. Through a combination of theoretical lectures, hands-on sessions, and project work, participants were guided through the intricacies of CAD/CAM software and their practical applications in design and manufacturing.

The introductory day set the stage by familiarizing participants with the fundamentals of CAD/CAM, highlighting its significance in modern engineering and its wide-ranging applications across industries. Subsequent days delved into more advanced topics, including 3D modeling, assemblies, parametric design, CNC machining principles, toolpath generation, and CAM optimization.

Day 1: Introduction to CAD/CAM

- Lecture: Overview of CAD/CAM, its significance in modern engineering, and its applications across various industries.
- Hands-on Session: Introduction to CAD software, basic drawing tools, and commands.
- Outcome: Participants gained an understanding of CAD/CAM fundamentals and started to familiarize themselves with CAD software.

Day 2: Advanced CAD Modeling

- Lecture: Advanced modeling techniques including 3D modeling, assemblies, and parametric design.
- Hands-on Session: Participants practiced creating complex 3D models, assemblies, and applying parametric constraints.
- Outcome: Participants acquired advanced CAD modeling skills and learned how to create complex designs efficiently.

Day 3: Introduction to CIM

- Lecture: Introduction to CAM principles, CNC machining, and toolpath generation.
- Hands-on Session: CAM software demonstration, toolpath simulation, and generating G-codes for CNC machining.
- Outcome: Participants understood the basics of CAM and gained practical experience in generating toolpaths for CNC machining.

Day 4: CNC Machining and Simulation

- Lecture: CNC machine operations, tooling, feeds, and speeds, along with simulation software.
- Hands-on Session: CNC machine operation simulation using CAM software, tool selection, and optimization.
- Outcome: Participants gained proficiency in CNC machining concepts and learned how to simulate and optimize machining processes.

Day 5: Integration of CAD/CAM

- Lecture: Integration of CAD and CAM, design for manufacturability, and CAM toolpath optimization.
- Hands-on Session: Participants integrated CAD models with CAM software, optimized toolpaths, and simulated manufacturing processes.
- Outcome: Participants learned how to seamlessly integrate CAD and CAM processes and optimize designs for manufacturing.

Day 6: Project Work and Evaluation

- Project Assignment: Participants worked on a CAD/CAM project incorporating concepts learned during the course.
- Evaluation: Project presentations, assessment of design quality, manufacturability, and CAM optimization.
- Outcome: Participants showcased their CAD/CAM skills through project presentations, receiving feedback for improvement.



Participant details – 5th Semester students of Mechanical Engineering -135 students

Conclusion:

The Value Added Course on CAD/CAM was a resounding success, providing participants with a comprehensive understanding of the principles and applications of computer-aided design and manufacturing. Through a combination of lectures, hands-on sessions, and project work, participants acquired practical skills and knowledge essential for success in modern engineering industries. The course has empowered participants to become proficient CAD/CAM practitioners, ready to tackle the challenges of designing and manufacturing innovative products in today's competitive environment.

Course Outcomes:

- Participants gained comprehensive knowledge and practical skills in CAD/CAM, enabling them to design and manufacture complex components efficiently.
- They learned advanced modeling techniques, CNC machining operations, and CAM toolpath generation, simulation, and optimization.
- The hands-on sessions and project work provided participants with valuable practical experience, enhancing their problem-solving abilities and creativity.
- Participants learned how to integrate CAD and CAM processes seamlessly, optimizing designs for manufacturability and efficiency.
- The FDP equipped participants with skills that are highly sought after in various industries, preparing them for careers in design, manufacturing, and engineering.

CO/PO&PSO-Mapping:

CO/PO&P SO	PO1	PO2	РОЗ	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*

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



K.S.INSTITUTEOFTECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-109 Academic Year 2019-2020 List of students & Attendance of Value added Course on Computer Aided Design and Computer Aided Manufacturing for Industrial Application (04-11-2019 to 09-11-2019)

SI.	USN	NAME					Signa	ture of	the Stu	dents				
NO			04-11-2019(FN)	04-11-2019 (AN)	05-11-2019 (FN)	05-11-2019 (AN)	06-11-2019 (FN)	06-11-2019 (AN)	07-11-2019 (FN)	07-11-2019 (AN)	08-11-2019 (FN)	08-11-2019 (AN)	09-11-2019 (FN)	09-11-2019 (AN)
1	1KS16ME001	A.K.ADITYA	Adultion	Alibre	Philado	Adubra	Aduba	Aduta	Anders	Adulto	4-1-1-4	Adulty	Address	Adrbay
2	IKS16ME005	ABHILASH.S.SHETTY	Ath	Abri	Abri	Abhi	Dery	Aromi	Abli	Albe	Abri	Abhi	Appril 1	tone
3	IKS16ME018	HARI PARASAD.R	HO:	HQi	4Di	WQ:	W	N.Q.	We	KQ,	ws.	₩;	Wa;	VQ_i
4	IKS16ME050	NANDESH.M	bany	word	nad	Nord	Wart	Not	hard	nont	Nond	nont	nord	Nol

5	1KS16ME074	SAIADITYA.C.H	si.	Soi	in	sai	نع	Sai	sai	sai	نع	si	iaz	Sal
6	1KS17ME001	ABBAS RAZIN	Places	Appro	15/201	Apbed	Abdres	Allow	Abies	Alle	Anton	Abby	Abber	Alter
7	1KS17ME003	ABHILASH.K.S	Hù	Asi	toni	Ablin	Abri	Abli	Abli	Aphi	Abli	Abhi	Abli	Aten
8	1KS17ME004	ADITI.R.S.SINGH	Ante	Ante	Alita	Ald	Allot	Altoi	Adult	ATH	Hryt	Abiett	A-Litt	Addth
9	1KS17ME006	AKASH.K.L	Attor	Atos	Abou	Atesh	- Arbsh	-Atetosh	Achen	Albert	Athan	Alboy	attour	Hosh
10	1KS17ME007	ANANDU.K.SANIL	frendu	Analy	porder	14 months	madu	Privilin	porden	Andr	foredu	Ander	Anuth	Andr
- 1	1KS17ME008	ANIRUDH BHARADHWAJ.K	Ani	Ani	PM	Ani	pmi	Ami	Ani	Ani	Athi	AN	And	Ani
1	2 1KS17ME00	9 ANIRUDH.M.V	æ	®	ß	R	(N)	R	\bigcirc	\bigcirc		R	Q	P
1	3 1KS17ME01	I ARJUN PRASAD	& Pocks	Hos	Hac	Afoot	beact	Heas	AP	Apr	#Br	Afrast	Afred	Agreed
1	4 1KS17ME01	2 ASHUTOSH VILAS JAIN	Kingen	PEludo	hostola	w ROAL	Awater	BERRON	Asuton	basa	Prost	Post	path	Ar
1	15 1KS17ME01	3 ASIF.K	Asy	Arry	Alys	A3-1	Asel	but	poly	Bert	NEIX	ARV	NSUF	Hent
	16 IKS17ME0	14 BHARATH KUMAR.G	Brose	plane	an grad	w Bro	- Pha	- Brough	Brow	Brown	hand	Charati	Hora	ghast

-	Real of the														
	17	1KS17ME016	CHETHAN.N	Challon	(Jodon	Delaus	Judan .	Chadres	Chelon	Cluttery	Charlon	Chiles	Chilon	Chalon	Obstan
	18	IKS17ME017	CHIRANJEEVI.U	CrrN	Quero	Creer	Charry	Olumo	Curo	Charl	Church	Chans	Curro	Our	and.
	19	1KS17ME018	DARSHAN.B.S	Destin	Dostan	Dettur	Dusting	Dorsling	Dustray-	Destron.	ponet	Berge	Bark	Roll	Ober
	20	1KS17ME019	DARSHAN GOWDA.S	600to	Gonda	Goud	Gevela	Gouda	lionsda	Good	Govala	Good	Gonly	Good	Gouda
	21	1KS17ME020) DARSHAN.V	Proster	JA-Show	Dogu	Dash	Desthy	Donth	Dug	Darm.	porm	Dep	During	Durth
	22	2 1KS17ME02	1 DHEERAJ PASUPULET	LI Drus	Dhow	any	phury	prease	Phings	Phery	Ohery	Dhey	Dhey	- Dheyr	Dherry
	2	23 1KS17ME02	22 DILEEP.S.K	Dileg	DILLON	alkay	Palup	Orleop	alep	Diley	orporto	Diluy	ortey	Dilup	Dileno
	:	24 1KS17ME0	23 ESHWAR.A.N	Ephan	Bu	Gh	180-	Am	- Fel-	Ef	Ph-	Spen	Eph	15qu	Epi
		25 1KS17ME0	GANAPATI MANJUNATH HEGDI	= Hede	e ved	re Hed	1 yel	Hedje	Hedge	Helfe	Helje	Hedg	wale	Habe	hedge
		26 1KS17ME	025 GANESHKUMAR NARAYAN HEGDE	Noron	the opense	Nar	Non-	Nate	Noge	elaster.	Nonto	Norp	Nag	Nojey	Nor
		27 1KS17ME	026 GIRIDHAR.M.P	Gjół	r Grid	n Gâd	- Gill	Grill	Goille	Gadt	Ereidh	Grà	Goult	Gridber o	Solle
		28 1KS17ME	028 IMPAL.D.RAJ	ho	for mo	gh will	1 mgs	1 aler	magen	magot	mar	mag	1 v Bad	North Rey	mon

Page 3 of 12

29	1KS17ME030	JEEVANKUMAR.M.A	Learot	Jewon	Juron	Jewa	Jewon	Sewon	Tron	Jernoury	Jens	Sar	Jewrow	Suna
30	1KS17ME031	JITHU K MENON	Jithen	Jibhun .	J them	THUE	Jetter	Jun	THOM	Storm	Jul	Suer	Jul	SW
31	1KS17ME032	K.AASHISH BHARADWAJ	Blor	Bla	Bler	yon	Bla	Blo	Bra	yo	Blo	Bhq	Bon	. Bhan
32	IKS17ME033	KARTHIK.S.DALABANJ AN	lear	Cod-	Q	(a)	W	(ure	Q	Q	Q.	Q	(m)	R
33	1KS17ME034	KIRAN.C	lanon	brow	Ibron	Unen	rm	1em	Kenay	Im	n	. Ien	lem	kn
34	1KS17ME035	KIRAN.R	b.tm	<i>Kypu</i>	f.m	bro-	ere	pill	from	per	pp	per	bo	plb
35	1KS17ME036	KONDA ANIL KUMAR REDDY	And	And	and	Ame	Ame	And	And	And	my	and	And	And
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	50 1KS17ME	051 PRAVEEN KUMAR.V	Pre	ion Br	my g	ern Pro	a Breview	n prove	a bear	Prave	bou	Berner	Qr-	Br
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Dr.Umashankar Professor & Head ME_Dept

Dr. T.V Govindaraju. Principal & Director



K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109

A Report on Value Added Course Industrial Automation and Robotics

Date of Conduction: 21-10-2019 to 26-10-2019

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. Umashankar M, Prof. Anilkumar A, Prof. Harish U

Description of the Event:

Introduction:

Industrial Automation and Robotics are revolutionizing manufacturing and production processes across various industries, leading to increased efficiency, precision, and productivity. To equip Mechanical Engineering students with essential skills and knowledge in this transformative field, a Value Added Course (VAC) on Industrial Automation and Robotics is designed to provide hands-on training and theoretical insights into the latest technologies and practices.

The course spans six days, covering a range of topics from fundamental concepts to advanced applications. Participants will delve into the intricacies of automation systems, including Programmable Logic Controllers (PLCs), sensors, actuators, and robotic systems. Through a combination of lectures, hands-on sessions, case studies, and project work, students will gain practical experience in designing, programming, and implementing automated solutions.

Day 1: Introduction to Industrial Automation and Robotics

- Overview of Industrial Automation: Definition, importance, and applications in various industries.
- Introduction to Robotics: Types of robots, components, and their applications.
- **Basic Concepts in Automation**: Sensors, actuators, PLCs (Programmable Logic Controllers), and their functions.
- **Outcomes**: Participants gain an understanding of the basic concepts of industrial automation and robotics, setting the foundation for further learning.

Day 2: PLC Programming and Control Systems

• **Programming Languages**: Introduction to ladder logic, function block diagram, and structured text.

- **PLC Hardware and Software**: Familiarization with PLC hardware components and programming software.
- Control Systems: Basics of feedback control systems, PID control, and tuning.
- Hands-on Session: Participants practice programming simple control tasks on PLCs.
- **Outcomes**: Participants learn to program PLCs for basic control tasks and understand the principles of control systems.

Day 3: Sensors and Actuators in Automation

- Types of Sensors: Proximity sensors, encoders, limit switches, and their applications.
- Actuators: Types of actuators such as motors, pneumatic and hydraulic actuators.
- Integration with PLCs: Connecting sensors and actuators to PLCs and programming for control.
- Case Studies: Real-world examples of sensor-actuator applications in automation.
- **Outcomes**: Participants understand the types and principles of sensors and actuators and learn how to integrate them into automated systems.

Day 4: Robotic Systems and Programming

- Robotic Kinematics: Basics of robot motion, forward and inverse kinematics.
- **Robot Programming Languages**: Teach pendant programming, offline programming, and simulation.
- Applications of Robotics: Industrial applications, collaborative robots, and future trends.
- Hands-on Session: Participants program a robot to perform simple tasks.
- **Outcomes**: Participants gain practical experience in robot programming and understand the capabilities and limitations of robotic systems.

Day 5: Advanced Topics in Automation

- Industrial Communication Protocols: Introduction to fieldbuses such as Profibus, Modbus, and Ethernet/IP.
- SCADA (Supervisory Control and Data Acquisition): Basics of SCADA systems and HMI (Human-Machine Interface) design.
- Safety in Automation: Risk assessment, safety standards, and safety PLC programming.
- **Outcomes**: Participants learn about advanced automation topics and understand the importance of communication protocols and safety in industrial automation.

Day 6: Project Work and Evaluation

- **Project Presentation**: Participants present their projects incorporating concepts learned during the course.
- Evaluation: Assessments of individual or group projects, quizzes, and feedback sessions.
- **Discussion on Future Learning**: Further avenues for learning and career opportunities in industrial automation and robotics.
- Outcomes: Participants showcase their understanding and application of industrial automation and

robotics concepts through project presentations and receive feedback for improvement.



Participant details – 7th Semester students of Mechanical Engineering -135 students

Conclusion:

The Value Added Course on Industrial Automation and Robotics has provided Mechanical Engineering students with a solid foundation in one of the most dynamic and impactful fields of modern engineering. Over the six days, participants have engaged in theoretical learning, hands-on activities, and project work, gaining practical skills and knowledge essential for success in the industry.

Course Outcomes:

- Participants gain a comprehensive understanding of industrial automation and robotics principles and technologies.
- They develop practical skills in PLC programming, robot programming, and integrating sensors and actuators into automated systems.
- Participants learn about the latest trends and applications in the field, preparing them for careers in industries where automation and robotics are essential.
- The FDP enhances participants' problem-solving abilities and fosters creativity in designing automated solutions.
- Participants develop teamwork and communication skills through hands-on activities and project work.

CO/PO&PSO-Mapping:

CO/PO&P SO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
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Dr.Umashankar *Professor & Head ME*

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



K.S.INSTITUTEOFTECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-109 Academic Year 2019-2020 List of students & Attendance of Value added Course on Industrial Automation and Robotics

SI.	USN	NAME				1	Signa	ature of	the Stu	dents			Ś	5
NO			21-10-2019(FN)	21-10-2019 (AN)	22-10-2019 (FN)	22-10-2019 (AN)	23-10-2019 (FN)	23-10-2019 (AN)	24-10-2019 (FN)	24-10-2019 (AN)	25-10-2019 (FN)	25-10-2019 (AN)	26-10-2019 (FN)	26-10-2019 (AN)
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Dr.Umashankar

Dr.Umashankar Professor & Head ME_Dept

Dr. T.V Govindaraju. Principal & Director

K.S. INSTITUTE OF TECHNOLOGY, BANGALORE - 560109



Application of Internet of Things

Date of Conduction: 26-8-2019 to 31-8-2019

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. Krishna Gudi, Prof. Roopesh Kumar, Prof. Vaneeta M, Prof. Deepa .S.R, Prof. Santhosh Kumar, Dr. B. Sudarshan

Description of the Event: Applications of Internet of Things

- 1. IOT and advanced Python Programming usage of ESP 32-WROOM
- 2. LDR Sensor Module, IR Sensors, Motion Sensor
- 3. Ultrasonic Sensor, Servo Motor, DC motor
- 4. Buzzer, OLED, Moisture Sensor, Gas and Smoke Sensor

Participant details – 3rd Semester students of CSE, ECE, ME Department -302 students





TRAINING OUTLINE

Objectives:

- Understanding the concept of IOT
- To gain an understanding of Internet of things using python features and their uses in developing applications.
- Understand the internals of Internet of things by connecting node devices to gateway and gateway devices to cloud and by collecting things data.
- Analyzing the data and act upon the data from the cloud.
- Exposure to technologies used in building an IOT solution

Pre-requisites:

- Basic programming and Hardware knowledge
- Basic knowledge of Python
- Basic knowledge of Microcontrollers
- Basic knowledge of Linux

Tools and Resources Used:

- Raspberry Pi 3 + micro USB cable
- Internet connectivity and Ethernet cable

- USB keyboard and mouse
- Monitor, HDMI to Serial converter
- Windows 7(or higher) system to download and port Raspberry Pi OS on Raspberry Pi 3

Outcomes:

- Explore Raspberry-pi with Python scripts
- Discover how to work with Internet of things
- Interfacing sensors with Raspberry-pi
- Analyze the data and work with cloud
- Use Raspberry pi as a server to control the things
- Master the fundamentals of IOT by building project

Course Contents

DAY 1

Introduction to IOT

What is IOT?

Why do we need IOT?

How does IOT work?

IOT Architecture- Components of IOT

How Does an IoT Gateway Device Work?

RASPBERRY PI

Introduction to Raspberry Pi 3 model B

Raspbian OS:

- Setting up Raspbian OS on SD card
- Raspberry Pi hardware setup
- Basic Raspbian OS commands

DAY 2

Raspberry pi GPIO programming.

Working with GPIO

- Flashing an LED
- Interfacing LCD

• Developing LCD package in python

<mark>DAY 3</mark>

Interfacing Sensor to RPi

Interfacing DHT11 sensor to Rpi

Interfacing LDR Sensor to RPI

Interfacing ultrasonic distance Sensor to RPI

Interfacing PIR Sensor to Rpi

DAY 4

Cloud Computing

Connecting to cloud

Creating Thingspeak account

• REST API Using Thingspeak API to upload data to cloud

Connecting using MQTT

DAY 5

Setting RPi as a server

Setting RPi as a http server

installing the packages to setup server

Hosting the serv

Creating the Web pages

<mark>DAY</mark>6

Mail transfer through SMTP

Introduction to SMTP

Configuring smtp configuration file (ssmtp.conf)

Sending messages through email

Outcomes / Benefits:

- 1. Students understood the Python programming concept.
- 2. Students understood the applications of ESP 32, IOT board and its interface
- 3. Students implemented mini Projects using ESP 32 board and its interfaces.

CO/PO&PSO mapping

CO/PO&PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
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K. S. INSTITUTE OF TECHNOLOGY #14, Raghuvanahalli, Kanakapura Main Road, Bengaluru-5600109



"APPLICATION OF INTERNET OF THINGS" Academic Year 2019-20 List of Students and Attendance

Date:26/8/2019 to 31/8/2019

Image: Instruction Image:	Sl.No.	USN	NAME	Signature
1 IKSIRGS001 ADARSH K A A A A 2 IKSIRGS002 AMARAVATH M A A A A 3 IKSIRGS003 ANIRETH H A A A A 4 IKSIRGS003 ANIRETH H A A A A 5 IKSIRGS005 ANUSIRUTI SINGH A A A A 6 IKSIRGS005 ARUNA P A A A A A 6 IKSIRGS007 ASUVAI P A A A A A A 7 IKSIRGS007 ASUVAI P A			6 6 6	26/8/2019 27/8/2019 28/8/2019 29/8/2019 30/8/2019 31/8/2019
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22IKS18CS023GANESH AGutGDGLGLGLGL23IKS18CS024GOUTHAM MGutter Goute GotGotGtGutGut24IKS18CS025GUNAL BINANIBillowBillowBillowBillowBillowBillow25IKS18CS026HARSHITH C PRASADHARHARHARHARHAR26IKS18CS027KANDIMALLA KRISHNA PAVITHRAPavilesPavilesPavilesPaviles27IKS18CS028KARTHIK KKas hui foothikFavilesFavilesFavilesFaviles28IKS18CS029KAVITA CHAUDHARYClauder Chauder chau	21	1KS18CS022	GAGANSURI M S	MS ME MS NO MS M
23IKS18CS024GOUTHAM MGutter Goutes Got Basts Got Sat24IKS18CS025GUNAL BINANISilan Bilan Bila	22	1KS18CS023	GANESH A	and Goo an or on on
24IKS18CS025GUNAL BINANISilourRiver25IKS18CS026HARSHITH C PRASADIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	23	1KS18CS024	GOUTHAM M	Gutter Gaster Gast Bat Gast G. to
25IKS18CS026HARSHITH C PRASADHARHARHARHARHAR26IKS18CS027KANDIMALLA KRISHNA PAVITHRAPavil -Pavil - <td< td=""><td>24</td><td>1KS18CS025</td><td>GUNAL BINANI</td><td>Sihan Biy an Ris + Rivatinan Rihan</td></td<>	24	1KS18CS025	GUNAL BINANI	Sihan Biy an Ris + Rivatinan Rihan
26IKS18CS027KANDIMALLA KRISHNA PAVITHRAParticle<	25	1KS18CS026	HARSHITH C PRASAD	HO HA HA HA HO
27IKS18CS028KARTHIK KKan his koathik koathik kathik kathik kathik28IKS18CS029KAVITA CHAUDHARYLandor Choude under choude chou	26	1KS18CS027	KANDIMALLA KRISHNA PAVITHRA	Partie Portle Parts Dnille & Mes Dwite
281KS18CS029KAVITA CHAUDHARYChandrey Chaudie under chaudie under chaudie291KS18CS030KENCHAM ARUNKAKA301KS18CS031KILARI ASHWIKKaritaArhurt Ania311KS18CS032KILARI JASWANTHKaritaKarita321KS18CS033KIRAN VEERANNA DAMBALOutbel Coutbel	27	1KS18CS028	KARTHIK K	Kan nik Koathir Kothir Kathir Kathir Kathir Kathir
29 IKS18CS030 KENCHAM ARUN HAT	28	1KS18CS029	KAVITA CHAUDHARY	chandowy charder inder church chube in du
30 1KS18CS031 KILARI ASHWIK Advite Advite Advite 31 1KS18CS032 KILARI JASWANTH ID ID ID ID 32 1KS18CS033 KIRAN VEERANNA DAMBAL Daube Daube Daube Daube Daube	29	1KS18CS030	KENCHAM ARUN	KA KA KALLA KA KA
31 1KS18CS032 KILARI JASWANTH D D D D D 32 1KS18CS033 KIRAN VEERANNA DAMBAL Outbol Could	30	1KS18CS031	KILARI ASHWIK	Achina Achine Achine Achine Adait Ach ~
32 IKS18CS033 KIRAN VEERANNA DAMBAL Sander Cauto	31	1KS18CS032	KILARI JASWANTH	B P B A D D
	32	1KS18CS033	KIRAN VEERANNA DAMBAL	Santa Saus Raw Carls Run David

202000 21920100 21920100 2192010 <	SI.No.	USN	NAME			Signa	ture		
33 IKSIRC504 KRITTHIKA K.N IK IK <td< th=""><th></th><th></th><th></th><th>26/8/2019</th><th>27/8/2019</th><th>28/8/2019</th><th>29/8/2019</th><th>30/8/2019</th><th>31/8/2019</th></td<>				26/8/2019	27/8/2019	28/8/2019	29/8/2019	30/8/2019	31/8/2019
34 IKSIRC5035 KRUTHIKA S VASISIT called Radie called ca	33	1KS18CS034	KRITHIKA.K.N	B	P	\mathcal{Q}	D	B	q.
33 IKSIRC505 LEKKALASIRANDEEP Lowk	34	1KS18CS035	KRUTHIKA.S.VASISHT	Koratule	Karah	and	Kantolite	cardline	Voultile
36 IKSIBC5037 LATHAY Late	35	1KS18CS036	LEKKALA SHARANDEEP CHOWDARY	charela(elade		01000	dala	clar
37 IKSIBCS038 LAVANYAC.R Image: State	36	1KS18CS037	LATHA V	1 do	Lath	Latto	Latto	Latto	Latto
38 IKSIBCS09 LIKHTHAN UKRA UKRA <td>37</td> <td>1KS18CS038</td> <td>LAVANYA.C.R</td> <td>V</td> <td>X</td> <td>VA</td> <td>Y</td> <td>H</td> <td>X</td>	37	1KS18CS038	LAVANYA.C.R	V	X	VA	Y	H	X
39 IKSI8CS040 LOKESH R Image: Solid and	38	1KS18CS039	LIKHITHA.N	liketha	likith	AB	Likith	Liketha	Likelha
40 IKSI8CS041 MADULA JITENDRA THE TAME TAME TAME AND	39	1KS18CS040	LOKESH R	land	Lud	Int	last	LA	Let
41 IKSIBCS042 MADHUSUDHAN.S.R. Made. Made. </td <td>40</td> <td>1KS18CS041</td> <td>MADDULA JITENDRA</td> <td>THO</td> <td>A</td> <td>AN</td> <td>AD</td> <td>A</td> <td>A</td>	40	1KS18CS041	MADDULA JITENDRA	THO	A	AN	AD	A	A
42 IKSIBCS043 MAHARAJ S IM	41	1KS18CS042	MADHUSUDHAN.S.R	Made	Madh	Mad	made	Math	Madb
43 IKSIBCS04 MAHESH B V MA	42	1KS18CS043	MAHARAJ S	A	M	æ	A	A	A
44 IKSIBCS045 MANIKONDA THARUN No.N. No.N. </td <td>43</td> <td>1KS18CS044</td> <td>MAHESH B V</td> <td>AND</td> <td>Anno</td> <td>MA</td> <td>mp</td> <td>MA</td> <td>The</td>	43	1KS18CS044	MAHESH B V	AND	Anno	MA	mp	MA	The
45 IKSIBCS046 MANVITH P Mar. Mar. </td <td>44</td> <td>1KS18CS045</td> <td>MANIKONDA THARUN</td> <td>inen</td> <td>Novi</td> <td>ron</td> <td>Non</td> <td>Novi</td> <td>Nani</td>	44	1KS18CS045	MANIKONDA THARUN	inen	Novi	ron	Non	Novi	Nani
46 IKSI8CS047 MD SUJAN APP	45	1KS18CS046	MANVITH P	Man	Man	Naso	Man	Man	Man
47 IKSI8CS048 MEGHANAJ Macha Mac	46	1KS18CS047	MD SUJAN	AD	D	AND	mD.	mD	mo
48 IKSI8CS049 MEGHASHREE A A <td>47</td> <td>1KS18CS048</td> <td>MEGHANA.J</td> <td>Magha</td> <td>Moche</td> <td>Menh</td> <td>Mogh</td> <td>Mech</td> <td>Medha</td>	47	1KS18CS048	MEGHANA.J	Magha	Moche	Menh	Mogh	Mech	Medha
49 IKSIBCS050 MIKKIN K M MM MM MM FB MM FD F	48	1KS18CS049	MEGHASHREE A		A	A	20	A	æ
50 IKSI8CS051 MONICA S Monica	49	1KS18CS050	MIKKIN K M	m	m	m	AB	me	100
51 IKSI8CS052 MONIKALC MD MD<	50	1KS18CS051	MONICA S	Monico	Mania	Monia	Monia	Monira	Monica
52 IKSI8CS053 MOPURI SREELAKSHMI M.M. M. M. M. 53 IKSI8CS054 N SAI JAHANAVI M.G. M. M. M.G. M. M.G. M. 54 IKSI8CS055 NAGARJUN N M.G. M. M.G. M. M.G. M. M.G. M. 55 IKSI8CS056 NANDINI J K K.G. K.G. K.G. K.G. K.G. K.G. K.G. K.G.	51	1KS18CS052	MONIKA.K.C	MO	AND	ma	me	AND I	me
53 IKS18CS054 N SAI JAHANAVI Area A	52	, 1KS18CS053	MOPURI SREELAKSHMI	May	M	M	M	M	M
54 IKS18CS055 NAGARJUN N M	53	1KS18CS054	N SAI JAHANAVI	And	AS	AS	as	ns	AB
55 IKS18CS056 NANDINI J K A	54	1KS18CS055	NAGARJUN N	M	A		D	N	A
56 IKS18CS057 NARASIMHA MAIYA G S AB Nag Nag <th< td=""><td>55</td><td>1KS18CS056</td><td>NANDINI J K</td><td>A</td><td>A</td><td>A</td><td>8</td><td>A</td><td>8</td></th<>	55	1KS18CS056	NANDINI J K	A	A	A	8	A	8
57 IKS18CS058 NARASIMHARAJU R Non No	56	1KS18CS057	NARASIMHA MAIYA G S	AB	Nad	Nag	Nag	NIA	Nag
58 IKS18CS059 NIKHILM Nikhil Nikhi Nik	57	1KS18CS058	NARASIMHARAJU R	Nz	Non	N	A	N	N
59 IKS18CS060 NIKHIL VASAN Dik Dik <thdik< th=""> <thdik< th=""> Dik<td>58</td><td>1KS18CS059</td><td>NIKHIL.M</td><td>Nickhil</td><td>Nichil</td><td>N:Kh</td><td>1.1:11</td><td>116</td><td>Nikhol</td></thdik<></thdik<>	58	1KS18CS059	NIKHIL.M	Nickhil	Nichil	N:Kh	1.1:11	116	Nikhol
60 IKS18CS061 NIKIL B S IK	59	1KS18CS060	NIKHIL VASAN	nik	nik	nik	nik	all	nik
61 IKS18CS062 NIKITHA M Nikitha Ni	60	1KS18CS061	NIKIL B S	a	47	A	A	at	A
62 IKS18CS063 NITISH KUMAR.M.R PARA PARA <td< td=""><td>61</td><td>1KS18CS062</td><td>NIKITHA M</td><td>Nikitha</td><td>Nikelha</td><td>Nikit</td><td>Nikella</td><td>Niko</td><td>Nikith</td></td<>	61	1KS18CS062	NIKITHA M	Nikitha	Nikelha	Nikit	Nikella	Niko	Nikith
63 IKSI8CS064 NOOR SUMAIYA Noor N	62	1KS18CS063	NITISH KUMAR.M.R	orto	patte	- end	AB	AR	PART
64 IKS18CS065 P SAI RAM 100 100 100 65 IKS18CS066 PAVAN P 100 100 100 100 66 IKS18CS067 POOJASHREE K 100 100 100 100 67 IKS18CS068 PRAJWALN 100 100 100 100	63	1KS18CS064	NOOR SUMAIYA	Nha	1 kg	No	Nao	Man	Nas
65 IKS18CS066 PAVAN P D </td <td>64</td> <td>1KS18CS065</td> <td>P SAI RAM</td> <td>tes</td> <td>6</td> <td>6</td> <td>b</td> <td>10</td> <td>R</td>	64	1KS18CS065	P SAI RAM	tes	6	6	b	10	R
66 IKSI8CS067 POCJASHREE K ROO ROO ROO ROO ROO ROO ROO ROO ROO R	65	1KS18CS066	PAVAN P	00-	D	0	D	00	Ø
67 IKSI8CS068 PRAJWALN END PLAT BAD BAD BAD	66	1KS18CS067	POOJASHREE K	bon	p_	to	Pre	En	Pars
a for the for the for the	67	1KS18CS068	PRAJWALN	and	BAN	Cart	- Ano	Dar	800
08 IKSI8CS069 PRANAVMS Kong Kang Kang Kang Kang Kang Kang Kang Ka	68	1KS18CS069	PRANAV M S	Roman	Brand	Ram	Prom	Prener	Porna
69 IKSI8CS070 DRATEEK HAVALE Phy Ama on Obr Ama An	69	IK\$18C\$070	DRATEEK HAVAI E	the	dha	The	otha	pha	Pha

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			26/8/2019	27/8/2019	28/8/2019	29/8/2019	30/8/2019	31/8/2019
70	1KS18CS071	PRAVEEN KUMAR K	Q	A	8	a	Ø	-CAT
71	1KS18CS072	PREETHI K	PK	Pt	Ph	-pf	PR	ep
72	1KS18CS073	PUJARI VISHNU PRIYA	The	pon	pon	nen	Per	Ren-
73	1KS18CS074	PULLUR PAVAN KUMAR	Pavar	Pain	Pour	Ram	Par	Raver
74	1KS18CS075	R DEKSHITHA	and	dent	do	and	00	are
75	. 1KS18CS076	R PRATIKSHA	RP	a	PP	PP	TRP	B
76	1KS18CS077	RAMYA R	Jan	here	ner	+ grass	ran	sam
77	1KS18CS078	RAHUL.P	Calu	Recha	Rahu	Rate	Rahn	Raher
78	1KS18CS079	RAIPALLE SHREYAA	38	88	8	-B	-Se	82
79	1KS18CS080	RAKSHA S	Ral	Bel	Rel	ka	Br	fest
80	1KS18CS081	RAKSHITH KUMAR.N	900	200	9/0	20	. Al	R
81	1KS18CS082	REKHA N C	Rokh	Reph	Pelle	Reek	4 Red	Rephi
82	1KS18CS083	RITHANA.N.RAJ	har	en	en	fm	2m	Sn
83	1KS18CS084	RUBA ABDUL RAHMAN	Juba	ruha	Red	Techo	9 mila	recha
84	1KS18CS085	S MANIKANTA	M	Q	A	a	A	A
85	1KS18CS086	SAMHITHA	Sam	lam	Sar	flan	- Seen	San
86	1KS18CS087	SANDEEP KUMAR	8ac	ka	R	k	K	R
87	1KS18CS088	SAURAV KUMAR	Ch	EL	CK	SK	CK	et
88	1KS18CS089	SAURAV S MAKAM	lange	laun	Onel	law	land	Laso
89	1KS18CS090	SHALINI S	Se I	Shal	I A	1 Char	1 shal	Shal
90	1K\$18C\$091	SHASHANK G	la	80/	la	la	Re	28
91	1KS18CS092	SHASHANK MISHRA	Sha	teha	- And	de	d	1 de
92	1KS18CS093	SHIVANGI SRIVASTAVA	div	Chiv	0.	1 Chin	Ci.	Riv
93	1KS18CS094	SHIVA PRAKASH T	CNIE	BIL	Sur	A DE	1 ali	E Al
94	1KS18CS095	SHUBHASHINLR	SKI	- CLUM	Chu	the cut	tha	1 Aught
05	1K\$18C\$096	SINDU A S	shub	0	0	1	Q:	Q.
06	1K\$18C\$097	SOURABH SANTOSH KAMBI F	Cark	Bu	1 C	1 an	1 au	1 Col
	11/51905008	SDI CHANDANA B	Jour	Jar	50 m	5 Stu	s you	Cut
97	1K51805000	SNI CHANDANA I	1	15-	18.	. 80	0	8
98	1KS18CS099	SKIVIDYAHK	181	1 SV	1/20	XV	- XV	W
99	IKSI8CSI00	SUBRAMANYA N	Gibra	- Sul	h Seb	Sib	2 Sub	n Subry
100	1KS18CS101	SUDHAKAR YASWANTH	1	SU	84	SU	b-SL	1 59
101	1KS18CS102	SUDHANSHU JOSHI	Luch	Such	Sue	isu	Sul	- Sion
102	1KS18CS103	SUJAY G S	Suz	Sup	1 Su	-Sm	1 800	r gun
103	1KS18CS104	SUNAINA NAYAK	Jug	Int	mand	- m	k Su	the
104	1KS18CS105	SURAJ C JAWOOR	5	51	5	SJ	S	SI
105	1KS18CS106	SUSHMITHA S	Sut	Sug	Sur	Sur	Sur	Such
106	1KS18CS107	SWETHA BIJANAPALLI	Gue	Sard	Sug	H Sus	HSul	n Sugh

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	1461868108	THAMMINENI HEMANTH	he	fu	he	- fre	he	yu
107	1KS18CS108	THIRUMALAI SHAKTIVEL C	Shake	Shall	Shale	- Shel	Shot	Sha
108	1KS18CS109	VAISHAK P	N	Q	R	la	An	the
109	1KS18CS110	VARIDHI MADHURANATH	her	Van	100	Vas	Var	Var
110	1K\$18C\$111	VEDAVEDVA B H	1 and	100	TIDA	met	- Upil	ver
111	1KS18CS112	VEDAVEDTABH	Ver	Con	Car	Cai	Co	Con
112	1KS18CS113	VEERA SREENIDHLK	an	- Du	NA	16.0	Linul	1/20
113	1KS18CS114	VENKATESH M N	Vent	<u> </u>	Ver	Maur	Vesse	U'L
114	1KS18CS115	VIJAY.N.S	Vit	Vit	Vit	ty	135	X.S
115	1KS18CS116	VIJAYASHREE.N.R	VS	T&	18	18	1AS	12
116	1KS18CS117	VUETHA	Viter	- Vip	Nigh	vijet	Vijer	Vite
117	1KS18CS118	VIINOD H MALALI	Kon	Um	In	Vm	Um	Vs
118	1KS18CS119	VISHNUPRIYA D	Vish	Ush	Viel	Vil	Viel	Net
119	1KS18CS120	VYJAYANTHI K S	VKS	VKS	VES	VES	VKS	VE
120	1KS18CS121	YASHWANTH.K	Stad	yal	yaf	yag	yel	ya
121	1KS18CS122	YOGITA RAIKAR	YR.	UR	YR	YR	YR	UR
122	1KS18CS123	ZAINA KHAN	de-	The	The	ZK.	Thr	The
123	1K\$18C\$124	SHEWANI CHIB	Sen	Ch	Sen	Ch	Sah	Scal
124	1K\$17C\$015	B R GAGAN	Capalit	Connas	linga	Gages	Cager	Gaga
124	IKSIRECOOL	A N BHOOMIKA CHOWDARY	Sur	Sh	0 hr	Bh	Ph	Dh
125	IKEIRECOOT	ABHISHEK.V	A A	1 X		here	mit	1.
126	IKSIBEC002	ADITHI.S		4	1.4		FA.J	A
127	IKS18EC003	AISHWARYA R	Apr	And	A	A		A
128	1KS18EC005	AKASH R	44	20	A	1 Al	17	#
129	1KS18EC006		1	E	#	A	t	Ð
130	1KS18EC007		Attilo	Attil	Al	4 Alchi	Atte	AK
131	1KS18EC008	ANAGHA S	Anapa	Anaple	Angl	Ana	Ang	4 Ano
132	1KS18EC009	ANANYA ANANTH	Ana	den.	A	1 An	the	A
133	1KS18EC010	ASHRITHA S C	Als	Ache	Ash	Ach	Adr	120
134	1KS18EC011	AYEESHA RUMAN	Rimar	Rune	Rino	Buno	Runa	Row
135	1KS18EC012	C A SUSHMA	Than	la	K	G	10	G
136	1KS18EC014	CHANDAN Y C	JUS	Vu	V7	VI	W.	Jr.
137	1KS18EC015	CHARAN G			1 AP	1	- XU	1
138	1KS18EC016	CHINNAPU CHARAN TEJA REDDY	Charlan O. Hu	Choolon	Chag	Chen	a Chan	Chore h
139	1KS18EC017	CHITHRITHA G R	Keen	CO	100	Kegu	Keens	Kee
140	IKS18EC018	DARSHAN V	- UKe	4	AK	2B	R	2
141	IKSI8EC019	DARSHAN S	K	a	12	de la	a	de la
142	IKSIRECODO	DEEKSHA S N	12	105	De	WS-	123	12×
143	inside CU20	DEEPTHI AND ANT	deer	dent	den	+ de	H deel	ton
	IKS18EC021	JEEP INI ANDANI	Andani	Adam	Inde	Anda	- Anda	And

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144	IKS18EC022	DHANUSHREE C	R	P	D	D	30/8/2019	31/8/2019
145	1KS18EC023	DHEERAJ M S	Ă	T	5	7	Ĩ	Se la
146	1KS18EC024	DHRITHIRHUTH RAJANNA	-	8	0	a	8	æ
147	1KS18EC025	DINESH KUMAR NAYAK		er o	000	des -	Cos	da
148	1KS18EC026	DIVAKARBABU Y	D	8	R	R	P	R
149	1KS18EC027	G.J.NITHIN	1211-	-	de	da	den	de la
150	1K\$18EC028	GANESH P	Nithn	NAM	Nithi	Nithi	Nithin	Nithin
151	INSIRECORD	HARSH SHARMA		7	2	9	19	3
101	IKSIAECOSU	HARSHITHA S	14	14	11	16	Ľ	14
152	IKS18EC031	JAHNAVI A P	12	#	4	14	1	封
153	1KS18EC032	TANDAVIER	Jahni	Jehn	i Jahra	\$ John	an Some	Jahroyi
154	1KS18EC033	JANHAVIKP	4	4	A	4	A	A
155	1KS18EC034	JHANAVI V	r	a.	I	B	A	I
156	1KS18EC035	JISHNU S	to	T	1	4	17	1 du
157	1KS18EC036	JYOTSNA B UPADHYE	Jyothin	Junt	y Jyoks	a Syste	n Jothi	n Itsna
158	1KS18EC037	K RISHIKA RAVI	Q	B	Q	(La	G	æ
159	1KS18EC038	KARISHMA M	Inid	Your	LIGU) kny	1 Kaul	tout
160	1KS18EC039	KOMALA K V	J.	K	K	K	K	K
161	1KS18EC040	LAVANYA M	8	Z	10		T	
162	1KS18EC041	M.NIHITHA YADAV	11-11	Nº1-	T all	I API	to all I	A 01:1: 12
163	1KS18EC042	MAHANTH SAI M	Mh.	1	M		4	M
164	1KS18EC043	MANOJ G S	M	M	M		M	M
166	INSIGECOM	MEGHA R	5	-	10	E		6
105	1K518EC044	MEGHANA B S						
166	1KS18EC045	MEGHANA GOWDA V	1 leg	1000	a Me	or C la	9 14	a / eg
167	1KS18EC046		Meghe	2 Mag	ha Meg	ha Meg	ha Meg	he Megh
168	1KS18EC047	MOHAMMED FAIZAN SHAFI	RA	- Bha	- dia	illo	1 80	i they
169	1KS18EC048	MONISHA B R	An	+ ph	2 A	+ an	A A	1 CAN
170	1KS18EC049	N S V JASHWANTH	Jar	Jas	o Ja	8 Ja	\$ 20	S JAS
171	1KS18EC050	NAGA OMKAR N	Que	a Qu	DA Pr.	& Ak	a Qu	LAGL.
172	1KS18EC051	NAGASHREE A	Mal	. Nou	a No	a No	9 Na	9 Nha
173	1KS18EC052	NAMITH R	GH	6		2 00	7 A	
174	1KS18EC053	NAVYA M S	DIANU	1 1/11	la nhi	NaDia	NA Na	Nahu
175	1K518EC054	NIHARIKA S A	01:4		N	IL NI	Le N	ha Nib
175	INGIGECOS	NIROSHA G J		N		Nir	nehan	
176	IKSIBEC055	NISHANTH J RAO	E)	ha 10,00	in An			Day IV
177	1KS18EC056	P SAI GOVARDHAN	Kar	- DO	10 Kg		22 W	er in
178	1KS18EC057	DADIVELITU C	Re	Be	<u> </u>	E T	- 3	2 m
179	1KS18EC058	PARIKONIINO	40	- F		Ě	-6	
180	1KS18EC059	PAVAN KUMAR P	the	- Who		o Ka	210	- 10-

Sl.No.	USN	NAME	Signature						
	1.		26/8/2019	27/8/2019	28/8/2019	29/8/2019	30/8/2019	31/8/2019	
181	1K\$16EC005	AKASH CHANDRAPPA GURUVANNAVAR	A	A	A	A	A	A	
182	1KS18EC060	POOJA S	Rota	Proja	PETO	Paria	Pario	Proja	
183	1KS18EC061	PRAKRUTHI S H	Do	2	0	D	Q	0.	
184	1KS18EC063	PUNEETH M	Puneoth	Ruseth	Rugel	Present	Rugh	Present	
185	1KS18EC064	PURUSHOTHAM VR	BRO	RAR	Dep	RR	OVR	EVE	
186	1kS18EC066	RAGHAVENDRA K.P	5	(1)	\mathcal{G}	N	R	N	
187	1KS18EC067	RAGHU B T	Doch	Dall	a.d.	Que	Order	Bad	
188	1KS18EC068	RAJ KRISHNA	Dai	Qai	6 F	Qui	Qui	Dai	
189	1KS18EC069	RAJATH S BHUSHAN	duthan	duchon	alit	Rhuth	phiete	elute	
190	1K\$18EC070	RAM BAHADUR MAHARA	Daus	Qalle	Qak	Base	Dauss	Dows	
191	1KS18EC071	RASETTY SANDEEP	D	Dat	A	Ø	0	Q	
192	1KS18EC073	RITHVIK P	0	00	(Å	Ô	$\tilde{\mathbb{O}}$	Ô.	
193	1KS18EC074	S MANOJ	10	2.	8º	Y	8	100	
194	1KS18EC075	S RAHUL	Did	Dit	au Data	Dil	20	Dal	
195	1KS18EC076	S TUSHAR HARINATH	Til	Ince I	KOU	Ku I	TIO	RAUY	
196	1KS18EC077	SAGAR T C	Pai	CI	hista	luca.	20	Jucker	
197	1KS18EC078	SANJANA B	St	SU.	The second	1	R	e.	
198	1K\$18FC079	SANKET B PASCHAPURI	anjan	The	Canor	zaw	aya	alife	
199	1KS18EC080	SHASHANK H K	22	201	3	120		SPD	
200	1KS18EC081	SHEETAL N GOWDA	H	H P	Flue	ME	MIK	MA	
200	INSISECOS	SHIVA SHANKAR B	Ganda	youde	yered	18-0b	(eandal	prove	
201	1KS18EC082	SHREYA V DEV	SD 1	SO A	×	Sh-	Sp	DD	
202	IKSI8EC084	SHREYAS C		sa	D	sa	10	sa	
203	IKS18EC084	SHREYAS D R	Star	grey	spel	Jorefy	meria	eony	
204	IKS18EC085	SHRIKANTH C K	5007	549	Yan	Edri-	Lar,	Sar	
205	1KS18EC086	SIRI RAVINATH	a la	ANG	20	2	Su	an	
206	1KS18EC087	SIRISHA M	Soci	Sioù	Siri	sioi	Sigu	Sou	
207	1KS18EC088	SOMASHEKAR M	Sirilla	Sirida	Strike	Prishe	Frithe	litich	
208	1KS18EC090	SI IDHEER B	SAZ.	(\mathcal{G})	820	SI	syr	S_{1}	
209	1KS18EC091	SUJAY R	lb.	Sto	So	Ab	AD =	25	
210	1KS18EC092	SUPRIYA S	lajay	Sujay	Sur	Cija (Sajdy	lajay	
211	1KS18EC093	SURAL V GHORPADE	dis	Sé	Sia	Sin	Sus	Sia	
212	1KS18EC094	SUSHMA A V	Ghapade	glade	(loyd	hoped	hopel (1 sal	
213	IKS18EC095	SUSHMITHA R	-	Or .	A-	to	5-	87	
214	1KS18EC096	TUANTICU D C	THE A	Ato .	3130	Stor 1	B	p	
215	1KS18EC097	TUANUSUBEE D	Kull	And	that.	the	tet	hu	
216	1KS18EC098	VAISINAVIA	PR	20	De t	De 1		The start	
217	1KS18EC099	VALSHINAVI U	Va	NQ	Vg'	YG	Va	Con	

SI No.	USN	NAME	Signature						
51.110.			26/8/2019	27/8/2019	28/8/2019	29/8/2019	30/8/2019	31/8/2019	
218	1KS18EC101	VANDANA K	A	G	50	QL-	Gf.	0×	
219	1KS18EC102	VARSHINI B.M	Volhi	Vorehi	Volle	Voich	Male	Valli	
220	1KS18EC103	VASANTH PALM	Vapre	Valat	Valle	Valat	Valat	Varie	
221	1KS18EC104	VIJAY BABU K	Raby	Baby	Rala	Sale	Robo	Bab	
222	1KS18EC105	VINAY K	Vival	Vina	Vina	vinay	Viva	Minap	
223	1KS18EC106	VINAY S	Vinau	Vina	Vino	Wing	Wiw	in rind	
224	1KS18EC108	VISHAL MADHUSUDAN		00	A	R		G	
225	1KS18EC109	VISHWAS P	Var	Va	Yes	ton	No	A	
226	1K\$18EC110	VIVEKGOWDA J	Charles	End	Cro	Cod	Road	Crota	
227	1KS18EC111	VRINDHA SHAM BHATT	the	North Start	Ja	Kho	Te	the	
228	1KS19EC400	HEMANTHA V	AL .	a	Â	da	Ø	108	
229	1KS19EC401	KARTHIK B P	RO	BR	B	RK	RD	RD	
230	1KS19EC402	KRISHNAPRASAD B	(biel on	Varia	CA-A	Vaid	bil	Kart	
231	1KS19EC403	NAVEEN G	Adu	AR	NA	Rai	Na	A	
232	1KS19EC405	PRUTHVI DINESH	1°	D	R	D		12	
233	1KS19EC406	RAGHOTHAM C G			\bigcirc	Ô	\bigcirc	D	
234	1KS19EC407	SADANA M	Edar	Radai	AR	Sada	1 da	- Calle	
235	1KS19EC408	SINDHU G	C	B	e	5	C	5	
236	1KS19EC409	VARSHA M S	hab	hell	Vard	Varle	Nall	1/0316	
237	1K\$18ME025	Kaushal S	Vos	W	2 10-0	Var	- Ky	Ke	
238	1KS18ME071	SUIHAS J	S	S	8	S	B	R	
239	1KS18ME066	Shrinidhi D	dow	- de	ar	27	chur	an	
240	1KS18ME077	I Iday kiran n	Vohy	1 Dal	Uda	11/20	INDA	1000	
241	1K\$18ME078	Liwal N	LU°IO	12200	0.00	A DE DO	Odio.		
242	1K\$18ME014	Darshan G	800	G	AV	$\left(\right)$	d'		
243	1K\$18ME028	KUPPALA AKHILESWAR	Vint	ALC. H.	* AFU	1 Will	W.M	112	
244	1K\$18ME075	Sved Ali Faizan Khadri	112	L	I		AL		
245	IKS18ME033	MANOLA	Mous	Anna	r Llav	A ANNI	8 NAOU	1 Marin	
246	1K\$18ME075	Sved Ali Faizan Khadri	1 000		Show.	- And and		Jr our	
247	IKS18ME033	MANOLA	M	In	2 12	AN	1 th	1AA	
248	IKS18ME040		AP		6	N	IN	N	
249	IKS18ME026	Kaathana M	No.	Vas	V	No.	100	15	
250	1K\$18ME079	Vasue M	Nor	1 Jahr	- Law	4100	VAN	Var	
251	IKSI8ME074		Von	-CO	K AN	FPDE	e CDk	RIX	
252	IKSISME0/4	Swastnik D K	En				E		
253	1KS18ME047	Shrivarshini GM	200	A Crad	MAN	al Code		A	
254	IKSIOME047	Pradyumna Gireesh	Pinto	12 ala	202	D) Dinte	Stronk	es Deil	
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arua.		nan an	26/8/2019	27/8/2019	28/8/2019	29/8/2019 A	30/8/2019 A	31/8/2019 A	
255	IKS18ME051	Prerana A. M.	ł	A	Ŧ	+	the state	A	
256	IKSIBME038	S.N.Naga Nithesh	A	A	A	4	10	A	
257	IKSIBME070	Suhas hj	f	- 2	-8	8	-K	8	
258	IK SISLADAS2	Rahul BN	Ra.	Ra	RA	Pa	Pa	Ra	
259	IK STRATEGO	RAKSHITH A	RP	Rp	pp	RÞ	PK	RE	
260	IKS IBME053	Rahul P	R	R	R	R	R	Ro	
261	IKSIBME009	Ashish Vilas Jadhav	ŧ	P	P	*	P	18	
262	IKSIBME031	Hemanih Kumar M P	the	the	Hh	He	Fh	pm	
263	TKST8ME021		10	Pales	Pole	Rob	lob	Loke	
264	1KS18ME030	LOKESH G	de la	6	Ø	R	Ø	Ø	
204	1K\$17ME005	АКАБН Н 5	A	5	Ā	D	at	a	
265	1K\$19ME409	Prajwal s	TA	T du	T de	A	M	AL	
200	1K\$18ME003	AKSHAY S A	1.2	- Cont	31		- Al	The	
267	1K\$18ME007	Anupama V	Setto	494	5	D	12	D	
268	1K\$18ME011	Bharath	-	B	HA CH	-0-	B	10	
269	. 1KS18ME072	Sumukha Venkatesh	84	818	818	84	815	A	
270	1KS18ME064	SHARAN V KUMAR	9R	83	SR.	SB	SK	SK.	
271	1KS19ME415	YOGANANDA A N	26	18	H	15	¥	7	
272	1K\$18ME069	Srinivasa R	B	A C	8	A	Ø	ø	
273	1KS18ME069	Srinivas R	8R	JB.	S.P	SR.	P8	Se	
274	1K\$18ME020	HARSHA P	18	*	#	the second	- 41	+4	
275	1K\$18ME036	Mohan Raju G	AD	M	A	M	M	A	
276	1K\$18ME016	Dhanush B M	0	Ð		R	Ð	Ð	
277	1K\$18ME060	Saniay Rao G	a.e	and	Aul	an	d.	A.	
278	iksi8me037	Mohith i	Ne	M	M	MI	1th	Ni	
279	IKSISME054	DAKEUTTU A	DA	or	Ør	bo	00	on	
280	IKEIEME094	KAKSHITTA	1402	HO	HD	110	610	K A	
281	IKSISME018	Harish B	PA	DNC	VA	DI	DA	TIB	
282	IKS18ME052	Rahul BN	A.	0.5		NH	K	K	
283	1KS18ME016	Dhanush B M	an	00	pu ch	Nur	M	por c	
284	1KS18ME061	Sankarshan Deshpande	- AP-	0	AT I	-ux	54	SA	
285	1K\$18ME053	Rahui P		00		-		P	
286	1K\$18ME021	Hemanth Kumar M P	H	KA	H	K	KH .	Hł	
287	1K\$18ME017	G DEVENDRA	-	-	9	4	·	-	
288	1K\$18ME062	Santhosh k	R	A	K	R	D	Ð	
289	1K\$18ME403	Akhil A. Purohit		A.		AP	A	AP	
290	1K\$19ME416	YOGESH HM	- at	4	et-	X	by-	y	
201	IKS18ME005	Anirudh R Srivatsa	9	4	4	a	A	9	
291	IKS18ME043	NITHIN KUMAR K S	(r)	6	P	a	0	0	

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Children			26/8/2019	27/8/2019	28/8/2019	29/8/2019	30/8/2019	31/8/2019		
292	1KS18ME068	Sohith S	Solith	Chite	Solit	Chith	Glife	bhith		
293	1KS18ME076	TEJAS AB	AB	AR	AD	AR	AB	AB.		
294	1KS18ME424	Nihal. M. P	Nihol	Nihal	Atral	Nihal	Atital	NHAI		
295	1KS18ME015	Bhaskar R	SL.	De	1)	$\mathbf{\hat{k}}$	N	ω		
296	1KS18ME034	MOHAMMAD - SAIF - ULLA - AMEEN	theer	Anoen	Aven	Amen	Annen	Anten		
297	1KS18ME013	CHETHAN KUMAR R	De	De	B	R		12-		
298	1KS18ME015	Dhanaraj H D	J.D	H.D	H.D	H.D	4.0	H.D		
299	1KS18ME042	Nilotpal Das	N	NO	NO	Na	-N-	No		
300	1KS18ME023	K JEEVAN KUMAR	Kouner	Kund	Kane	Kune	Kine	Kime		
301	1KS18ME039	Navaneeth Krishna S	Sa	Siz	So	So	le	Sr.		

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UCDAVIS

Sep 17, 2020

Satwik Shivaram Bhat

has successfully completed

Materials Science: 10 Things Every Engineer Should Know

an online non-credit course authorized by University of California, Davis and offered through Coursera

James Shackelford Distinguished Professor Emeritus Department of Chemical Engineering and Materials Science





Organized by Department of Computer Science and Engineering

Certificate of Participation

This is to certify that Mr./Ms ADARSH K Bearing USN no 1KS18CS001 is successfully completed 6 days course on "Application of Internet of Things" conducted from 26^h to 31st of August 2019 at K.S. Institute of Technology Bengaluru

Descarapu

Dr.Rekha B Venkatapur Professor & Head CSE Dept

Dr. T.V Govindaraju. Principal & Director