

# R. R. Institute of Technology

Affiliated to VTU Belgaum and approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Chikkabanavara, Bengaluru-560090

**Department Of Basic Science** 

**Organising Committee Chief Patron** Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

Patron Sri Kiran H.R. Secretary, PKMET, Bengaluru

Sri Arun H.R. Director, PKMET, Bengaluru

Prof. Maya Salimath G Director QAC -R. R. Institutions

Rector Dr Mahendra K V Principal- RRIT, Bengaluru

Organising secretaries Dr. V Ramachandramurthy **HOD** and Professor Dr. Mohan Kumar T E Associate Professor, Dept.of BS,RRIT,B'luru.

**Organising Committee Members** 1. Prof. Thejaswini D Assistant Professor, Dept. of BS, RRIT, B'luru.

2. Prof.Madhusudhan Y Assistant Professor, Dept.of BS,RRIT,B'luru

### Cordially invites all staff & Students for

Certification Course on Concepts of Biochemistry

For I sem BE 2022-23

On Tuesday, 11/10/2022, 10:00 am

Venue: RRIT Seminar Hall

CHIEF GUEST

Sri Y. Raja Reddy Chairman, PKMET, Bengaluru

#### **GUEST OF HONOR**

Sri Kiran H.R.

Secretary, PKMET, Bengaluru

Sri Arun H.R.

Director, PKMET, Bengaluru

M ( Journeaux) HOD

Dr. V Ramachandramurthy

PRINCIPAL Dr. Mahendra K V

#### SYLLABUS

#### **CONCEPTS OF BIOCHEMISTRY**

#### Course objectives

- > Describe the process of carbohydrate digestion, absorption and functions of carbohydrates in the body.
- > State the composition and describe the structure of amino acids.
- describe the structure of a nucleotide as being a phosphate group, pentose sugar (either ribose or deoxyribose), and a nitrogen containing base,
- recall that the nitrogenous bases are adenine, cytosine, guanine, and thymine in DNA, or uracil in RNA, and the base pairings that occur,
- state that a nucleic acid is formed from many nucleotides, joined by condensation reactions,
- > compare and contrast the structures of DNA and RNA,
- > explain the importance of DNA in storing genetic material and safely transferring genetic information between organisms.

#### Unit 1

Monosaccharides - structure of aldoses and ketoses, ring structure of sugars, conformations of sugars, mutarotation, anomers, epimers and enantiomers, structure of biologically important sugar derivatives, oxidation of sugars. Formation of disaccharides, reducing and non-reducing disaccharides. Polysaccharides – homo- and heteropolysaccharides, structural and storage polysaccharides. Structure and role of proteoglycans, glycoproteins and glycolipids (gangliosides and lipopolysaccharides). (definition, structure, functions, examples only) Carbohydrates as informational molecules, working with carbohydrates (applications of carbohydrate).

#### Unit 2

Amino acids: Definition, classification & structures. Physico-chemical properties of amino acids(amphoteric molecules, ionisation, zwitterions, pk values, isoelectric point, Lambert-Beer's law, optical density, absorption spectra), titration of amino acids (glycine, glutamic acid, lysine, histidine), Formol titration of glycine (only reaction and principle), reaction of amino acids: reaction due to amino groups(reaction with mineral acids, alkyl halides, acetyl

chloride, acetic anhydride in presence of base, nitrous acid, ninhydrin and fluorescamine), reaction due to carboxylic acid group (reaction with base, alcohol, LiAlH4, metal oxide), separation and analysis of amino acids by paper & thin layer chromatography and HPLC.

#### Unit 3

Nucleic acids Nucleotides - structure and properties. Nucleic acid structure - Watson-Crick model of DNA. Structure of major species of RNA - mRNA, tRNA and rRNA. Nucleic acid chemistry - UV absorption, effect of acid and alkali on DNA. Other functions of nucleotides - source of energy, component of coenzymes, second messengers

#### **COURSE OUT COMES**

- CO1: Describe the chemistry of carbohydrates, proteins and nucleic acids
- CO2: Able to understand the role of proteoglycans, glycoproteins and glycolipids
- CO3: Understand the structures of RNA mRNA, tRNA and rRNA

#### Reference books

- ➤ Lehninger: Principles of Biochemistry (2013) 6th ed., Nelson, D.L. and Cox, M.M., W.H. Freeman and Company (New York)
- > Textbook of Biochemistry with Clinical Correlations (2011) 7th ed., Devlin, T.M., John Wiley & Sons, Inc. (New York), Biochemistry (2012) 7th ed., Berg, J.M., Tymoczko, J.L. and Stryer L., W.H. Freeman and Company (New York)
- Fundamental of Biochemistry, Voet and Voet- provide necessary details on latest edition Edited by Prof. Hiren K Das

#### **CO-PO MAPPING**

4	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	Yes	Yes	No	No	Yes							
CO2	Yes	Yes	No	No	Yes							
CO3	Yes	Yes	No	No	Yes							

## R. R. Institute of Technology



Since 1993

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Basic Sciences

#### **REPORT**

October 10, 2022

#### Details Certificate programme:

❖ Certificate programme – Concepts of Biochemistry.

Comment date: 3 weeks Certificate programme on : 10<sup>th</sup> October, 2022

\* End date: 30th October

❖ Time: 10:00 AM To 1.00 PM

Plat form: Seminar Hall, RRIT, Bengaluru.

Participate: Students of B.E 1<sup>st</sup> year

\* Resource persons: Prof. Madhusudhan Y, Dr Mohan Kumar T E & Thejaswini. D

#### Event description :

Department of Basic Science, RR Institute of Technology, Chikkabanavara, Bengaluru has organized three week Certificate course Programme on "Concepts of Biochemistry" for the newly admitted B.E students from 10/11/22 to 29/11/22.

The programme was inaugurated by Dr Mahendra K.V, Principal, RRIT, Bengaluru. In his address he emphasised the importance of the critical thinking innovative mind set to succeed in the competitive world.

Dr.V.Ramachandramurthy, the HOD of Basic science welcomed the students for the certificate programme.



Then the students were addressed by the Dr Mahendra and Dr.V.Ramachandramurthy who welcomed the students and gave them an introduction regarding the Certificate programme.



The following certificate course objectives were realised and students were able to

- > Describe the process of carbohydrate digestion, absorption and functions of carbohydrates in the body.
- > State the composition and describe the structure of amino acids.
- > Describe the structure of a nucleotide as being a phosphate group, pentose sugar and a nitrogen containing base.
- > Understanding the structures of DNA and RNA.
- > Explain the importance of DNA in storing genetic material and safely transferring genetic information between organisms.

CONVENER

11 0 doctros oco Ting

PRINCIPAL

Professor & Head
Department of Basic Sciences
R.R. Institute of Technology
Bangalore 560 090



#### R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt of Kamataka,

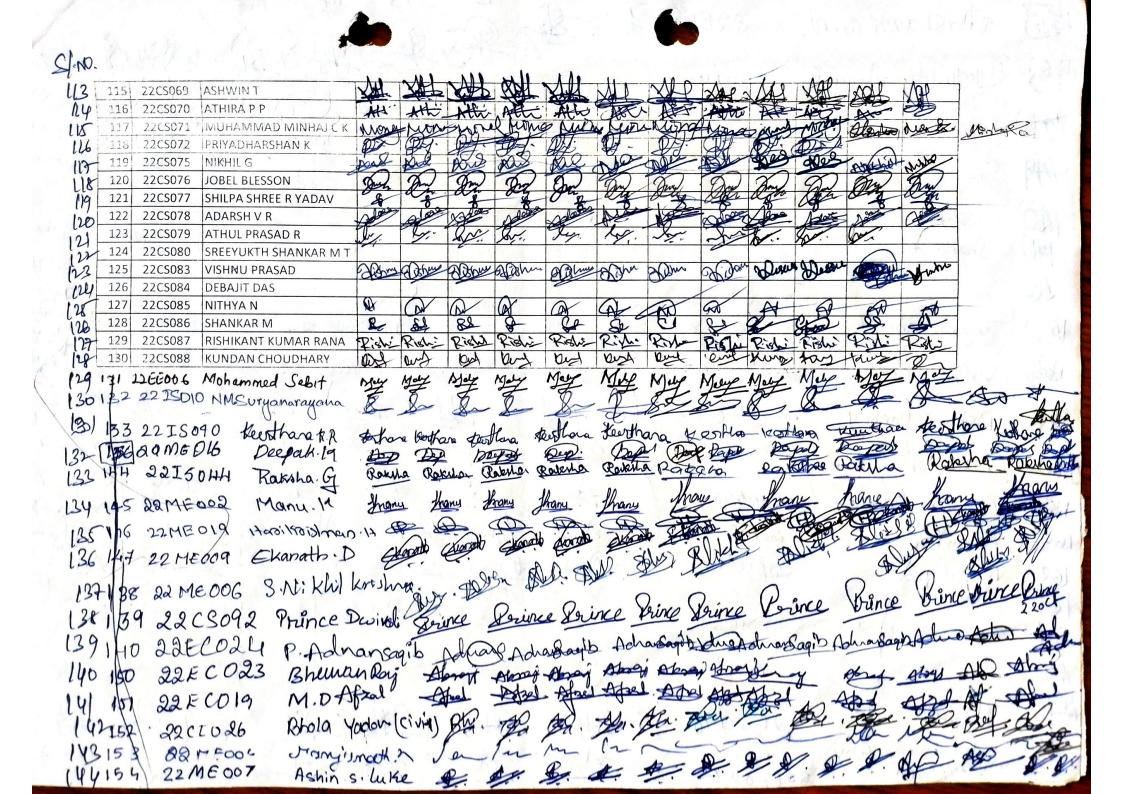
		1	The second second				Raja i	Reddy Layo	out, Chikkal	banavara, Be	engaluru -	560 090			
			Since 1993				<b>W</b>	DEPART	MENT OF	BASIC :	SCIENC	ES			
	T						CERTIFICAT	ON PROG	RAM FOR F	RST YEAR S	TUDENTS-	2022-22	(ATTENDA	NCE)	
							1								A Barrell
NO.	SL.NO	DMISSION II	NAME OF THE STUDENT			-		DATE (F	FROM 1	1/10/20	22 TO	25/10/	2022)		
		A	and the second	11-0ct	12-Oct	13-0ct	14-0ct	15-Oct	17-0ct	18-Oct	19-Oct	20-0ct	21-Oct	22-Oct	2 <b>4</b> -0c
	1	22IS003	ABHISHEK CHAUDHARY		0	^	- Ad	ぬる	5.0	10		1:0	5	1	7
	1	22IS011	ADITH K	Ago	Age	fa		das	- Ago	Harry	A	to	· Or		Mark
	2	22IS036	ADITHYAN MOHANAN	1	aut.	W.	July	处。	- B.	Just .	Jul	Took.	Dung	Jobs.	X mo
	3	22IS009	AJAY P K		Day	Dog	Docy	Diag	Die!	agary	Ain	May	NIFE	May	May
	In I	22IS016	ALWIN ALEXANDER .	A S	A	Als	As	Alex	HA	AA	MA.	Mino	1 June	Mento	Howard
	5	22IS013	ANAGHA MANOJ	Coggod	Corgo	Codogos	Cochoo	odge	Coogles	congress	adolog	Corgo	acocha-	elbal	
	E	2215029	ANISH SHARMA V	questo	migh	ANGL	must	Anis	13	Jumet .	A	Jak	di.	A	1000
	7	2215025	CHAITHANYA T R	<u>C</u>	<u>C</u>	ch	ch	Ch-	de	000	Ch	Chines	Chains		Ch
	8	2215019	CHAITRA S	chaips			chairse		draw	should	Chief	doile	vailage	charge	charty
	9	2215034	CHETHAN G	-	article	were	Curto	_CEFFG	- Lieber	dialize.	total	7	MA	OF DATE	
	10	2215039	HARI KRISHNA V	Crown .	HOOD	HOOD	atmood.	dkompt-	Margon .	o broker	WHO &	Walls	COM	as some	<b>COO</b>
	11	2215022	HARINDRA N	1 tare	Harr	Han	Harr	Har	Har	Hale	1000	- and	Hura	Harry	Hali
1	12	22 \$018	INDRA NARAYAN YADAV	andry	their	There	They	Irdn	Tride	Don't	telly	200	Gerell	quelle	80
	13	2215007	JEEVAN B M	1	lecko	Jano	Seeva	Jetro	9	\$ 1		EDER	tern	1	PEVON
	14	2215024	KAVYA N	Kanya *	Janya n	Ton Ao W	Kanhaw	tendo v		Kovyan		Kontar	Habian	Kanyon	Kavya
	15	2215002	KSHITIJ CHITAURE	KSTUB	KIND	KINIS	KILL	Kirity	KS A	KIN	Kshills	Kalika	Hamas	Ship	Nov.
	16	2215006	LOKESH D H		Logis	LOKE	Loki	hoho	LOKU	LOW	LOKI	Loki	Laki	Loki	
	17	2215010	N M SURYANARAYANA	O.	X.	Ar	SA	A		15			1	1	your
	18	22 5012	NANDANA A T	ABOUT	-	JEL !		With the	Market	No.	Max	New	New	New	No to Oak
	19	22 5028	NEHA N PATIL	Nehay	Noh	Nelvo					Nelsa	Weha		None	Netro
	20	2215032	NIHADIV	Rubs	Photo.		Phyl	Flys	PH	But	New	New	Mary	Many	Mour
	211	2215030	NINCAPPA S	DOM	) par	1054	7 6484	MSM.	150	1	18/	N	MICH	1	

22	2215033	POKA RITHVIK CHOWDARY	Bruic	Pothik	Pithul	fittwil	Pithil	Pithvils	Pirmit	Ky to	Spring	Man land	Durk?	panty.
23	2215021	PRASHANTH M	Prof	Mored	presh	Porer	1 truly	proces	pyah	Prash	Pres	Prashm	Krashy	Prashent
24	2215014	RAYACHOTI RAJESH	Pos	#	B	<b>P</b>	P	Po	· KD	1	18	10	#	
25	2215004	SAMUEL V.	Ber	Som	Sorge	Say	Say	Susse	Some	Con	Jans	Spend	Can	Sauce
26	22IS015	SANJAY SIVAN	Eugen	Dylon	Sleyan	Kyen	By my	Lyayt	Before	Syn	Const	Service .	Sange	Sany
27	22IS020	SHALOM RUFFUS	Roler	Ralo	alex	m Kalo	men	n Sol		Inalam	Maloo	4	Marke.	Ralon
28	2215037	SIDDU HIREMATH	300	Ser	Sam	Sie	Sie	-8	-\$	\$	800	S. sh	7	1
29	22IS035	SUSHIL KUMAR YADAV	Sa	3	33	が強	3	2	63	80		5		ER 0.4
30	22IS027	SYED ZUBATR	Side	Suff	2008	30	Bar	Bud	Bus	S.	9	1200	1	3000
31	2215008	THEJAS T SURESH	Thyte	thyos.	Thyjos	Thyos.	Thejos.	Thyp	That	Ma	TING	The same	1	Shereit
32	2215038	THEJASWINI K N	an	OF W	800	An	the .	any	De la	and	810	M.	<b>4</b>	
33	22IS026	U SAI SWAROOP	+			-	AB	\$00	7 -				-	9-
34	2215023	VARSHA P	-		A. C.	100	Do	9580	1					- >
35	22EE003	RAKSHITHA S			7			-		-		10.		
36	22EE002	SREYAS NADH	Serve .	-03:00	Company of	Spires.	1000	400	100	200	The state of the s			-
00	22EE001	SUBHAJIT PATRA	1/2	1	-		(1)	253 6	SWA -	1	Tina	Manh	-h Lasth	1000
27	- 22EC014	ADARSH V SANIL	Mad	Man	Made	Varia	day	100		9	lon's		The state of the s	
38	22EC005	ALWIN TAISON.	M	120	5	20	1	1	1	1	THE PARTY OF THE P			1
. 1	225002	ASWARTHANARAYANA	Gw X	South	o July	C SOUND	( Judy		5	C	8	5	6	goo.
31	22EC003	GARI SWETHA	/	1 / ./	//	1	/ 0	1		On	1	douical	Chair	Clairy
1.0	22EC012	CHRISTY KURIAN P	anisay	maiste	daiste	mistel	must	: ohusty-	marisal	Trough!	paran	(Drivar	CIPA	CA SO
70	22EC010	DARSHAN SINGH D	P	O D	100	1	9	6	1	1				
47	22EC008	DAYASAGAR G		0		P	(X)		0	3	7		10.1	No No
12	22EC004	HUMAIRA ZAIB	de	di	· Of	W.	- Col	0	O. C.	Thal	1	ele y all	Toolly	1
14	22EC011	JOHNFIN DEVASIA	THE	1508	13	300	Jan J	BAR	CO APON TI	Pavlan	STERNAN.	- Para	Ne 10 200	Pagos
M	22EC001	PAVAN SHEKAR M	Parago	Parthir	on toyhiled	Portie		A	- Torogo	· She	Chic	of the contract of the contrac		of Change
73	22EC007	RAKSHITHA C	Bucshi	tacshir	Kolista	Ruchi			Par	Karshin	Karolin	Raighin	A	Porchite
12	22EC016	SAGAR J POOJARY	TP	550	200	SID	\$87p	5710	29/2	30	3/10	3770	The	Rule
48	22EC009		ers		m	hm	mi		·	wi	~	<u></u>	m	~
70	22ECQ15	SURAJ S R	1	1-2-1-	+	100	7)01	EN.			100	0	31	Q L
49		SURYA NARAYAN SAH	Box	. So	Sol	ord	Det.	Buf.	Surg.	But	·	.00	0	7
30	22EC013	VIVEKD	ias.		US	To ?	107	100	462	100	Mer	Dr.	The state of the s	19
51	995/09	o vallam reddy Ravi	6	1 0	Pari	Davi	i Dai	20	0	D	-	Hard	10	Thort
71		41 Chethan . R	Hou	low	Kun	Ku	* HOY	Ray	Duy	-nou	D 0 10	-0.4	2 /	( Breeze

10	77	CI013	ABIRAL SEJUWAL				ABS	SENT				A	A 45		7	
4	Andrew Street	C1005	ANJALI R	Agjot	Anjah	Dajan	Safah	Sabart	Anjak	Asim	ASS	1		1	Az o	
-5	L	C1025	ANUP KUMAR PASMAN	Jung	A	Burg	the p	Aug-	Tay	Aug	Tul	THE	Trup	新		
5	L	CI012	BHOLA SAH	Shola	Khola	Rhola	Kholo	Abeli	Buola	Bhold	Blida	Mill	Mile	Surga	Chine	
58		C1008	BIPIN KUMAR MANDAL	88ipin	10 itis		pibu	ASID W	Ripin	1	400	topa	<b>Milli</b>	01/30	100	16.5
59	+	CI015	MANADIP RAJ ADHIKARI	-					815 V			- 1	tt.a.A	-14// 0	Zer	
- 60	-	CI018	NIRAJ PRASAD SAH	Stoa		ZKO	7150)		Zigar	From	2301	That	1000	the		as
. 6]	22	CI016	NITESH RAI	8	<i>X</i> V	N	N/	100	M	BR.	100	NO ST	The state of the s	W.		1
64	22	CI001	PANKAJ KUMAR YADAV	-		_	0 100	38 N		0	0~	0.1	Par	9	1	
68	22	C1003	PRAKASH PATEL	gn	fr	har	m	the	An	the	18	12	r			
(6)	22	C1006	RABINDRA KUMAR SAH			1	188	MA	2	Total -	X	100	Ton	No.	20	
65	22	C1007	RAM KUMAR SHAH	- Comment	1	1	1	- Jan	Jan			1	3		1	1
	2.7	Ć1011	RAUSHAN KUMAR	101	Tel	20	TE	TR.	1	3	1	40	des	180	1 PC	<b>+</b>
66		.01011	BHAGAT	2	9	3		0	de al	Ril	But	(SA)	- Sel	Sull	50-	
67	22	CI010	SAURAY CHAUBEY	8	5	50	5	92	A	841		00	a Aub	0	0.1	
	22	CI014	SUJAN RAJBHOR	nesse	Maria	mag	Indo	- Onguis	My	Jugar	- Mugh	My	Mag	May	Val.	
88	2.2	01014	CHUDHARY	*	(5-11)	1	R	( )al	10001	(2).0.	671	Pols	and	B	- ett.	0
69		CI021	TABA GAGU	Of the	( all	yay.	( Cell	1 del	051	J D. a	POUR	only	136	ON	12048	1 3 A
70	-	C1019	TAMCHIBINGDUNG	Bo	- Coup	25	0	22	7	SA.	se.		DAW	0	8	1 2
71		CS001	DHRUB PANDIT	VIVI:	0	100-141	12011	Vicus	ruky	vicin	Vicky	Voc	vicky	Mule	1 214	e an
72	22	CS002	VICKY KUMAR	Ville	Nicky	NKKY	viales	1		10	110	110	11	200	COL	
73	22	CS009	MUHAMMED SAFVANSHA N C	9	24	34	Sol	34		The state of the s			Duster.	0	State of the state	THE STATE OF THE S
74	22	CS010	AKSHAY	Akuh	y Alesha	1				(Mary	The state of	(C)	Cha			
15		CS013	DILSCMICHAEL JAGEN	Rasize	TALL	Proper		- grand	Dante	Tourse	Julo	- ORNORA	-	Con Con	00	-
76		CS014	DEEPU'K S	Me		YA	<del>M</del> s	m	No.	V	D.M	- Xuen	108	0	Var	
- 77		CS015	THARADEVI SURESHBABU		1 Page				Nue V	X.o.y.	VEN	M	Zell.	SKO.	50	
78	-	CS016	SHOHINUR AKHTAR	184	SA		SA		200	1		34	5	0	344	
79		CS018	SREERAG T	Bu	make	Sue		Mole	10	N. Com	DATE	Top	- Lugar	hus)		
80	-	CS019	AJAL C	Ayely	may	Appl	MA	May .	Ayer	- Alexander	A	76	-	No.	MD.	1 do all
8		CS021	ATHUL BINOY	140	N A	1 th	al original	The second	w Cham	di Clau	NO CHAIL		- Late	The last	Agin	A DESTRUCTION
8		CS022	IMD SALAMUDDIN ANSAR	Salan	5 externa	Som	9 300	Signal	Car.	1		0			100	No.
86			SIYAMOL MATHEW	AUROS	300	900	A POPO	*	1	Congrad	Samo	***	1800	338	1	
1	and and and the			_		, 0	, a	1 9	1 le	1 /2	1 1	, 1	in	1		
XX	12	2CI	.011 Tabagaga	NO	1 ey	re	1		,	( ,9		( )	~ [	11	1 -	
1	21	000-	00 001: 00	A	1 AD	100	2 A	e do	_ 0	D 40	AD.	A	(A)	FD	60	

SINO. 22CS024 SREENATH K R 82 22CS025 ISHIL PAR 83 86 22CS026 ARCHAK BOSE WResh Vikesh Vikesh Vikesh wikash wikesh Wikesh 84 22CS027 VIKASH PRASAD 88 22CS028 C K SHAIBAN ABDU RAZAK 88 22CS029 89 YOU SIYOU 86 90 22CS030 ARPANA S 22CS031 91 RISHAD P T 89 22CS032 MOHAMMED SHIBIL 90 22CS033 MD ZEERAK ANWER 94 22CS034 RAJAT SINGH 91 Mukit Awkit Awkit Aulit 95 22CS035 | ANKIT KUMAR YADAV Anxit Auxit Atucit 22CS037 ARNAB BISWAS 961 97 22CS038 ARNAB SAHA Ssankan Ssankan Ssankan Ssankan Ssankan Ssankan SSonker SSanker 22CS039 ISOUMYA DEEP SARKAR (99) 22CS041 MUHAMMED ROSHAN 22CS042 AMARNATH N S 97 101 22CS046 ADWAITH K DINESH listia listia tetto 22CS047 LISHA ESHWAR S 102 103 22CS050 ARJUN M **BIGNASIOUS PONNARATH** 22CS051 (00) KUNIYIL 104 105 22CS052 ADHIL 100 102 106 NITISH KUMAR YADAV NEED 22CS054

22CS055 RAMZI MANSOOR A 108 22CS056 SNEHASIS BAIDYA 22CS057 HRISHIN SURESH O P Farden Forder Gorden Fander Forder Caracet 110 22CS059 MOHAMMED FARDEEN 107 111 22CS060 SREEHARI 104 112 22CS061 AYUSH T 22CS062 ISURAI KUMAR SINGH 22CS067 SOORAJKRISHNA T 2215045 Muhammed Fayis But 8209090 Marg' N 111



146 Shashank G.N. 162 Peyajuddin Arsani Peyon Peyon Leyon 55 WEOTO 14 way - Anmi 2217E005 149 Shafija Hustain DIECO17 Rober Roser Rober Boderi Boderi Kal Rober State 10 Roshini 2215042 151 Sneta.7 22 EC018 Suha Sinha Sineho Sineho Sineha Sineh 15 Sneha. S.H. Tayolakelmi Tayola 22EC021 151 JayalakshmiL 225022 154 Vaishnavi. R 2218043 22CS 093 SS Ashim Pandey 22ME017 At A At AL 156 Proxash Choudhon Along 22ME001 154 Amendha brishnan 32K033 153 Bhowan Waj Lost AO.M P. 22500 19 ley Mahima-M-J 2265091 161 chandan bowda 2201027 Maple Steph Organ Daget Daget Negot Doget 12 Deepakok dame 016 Certific Of the off Jeevitha B.T ALL SH all 2205096 - Syshil Kymor Yadov 经 是 是 SA 22 TS 035



**Since 1993** 

# R R Institute of Technology

Affiliated to VTU Belgaum. NAAC Accredited with B' Grade Raja Reddy Layout, Hesaraghatta Main Road, Chikkabanavara, Bengaluru-560090



MR. DHRUB PANDIT

for successfully completing the course "CONCEPTS OF BIOCHEMISTRY" Organised by the

Department of Basic Science, RR Institute of Technology, Bengaluru, during 10th - 29th October 2022,

with a consolidated score of ....55

Professor & Head Department of Basic Sciences R.R. Institute of Technology Bangaiore 560 090

HOD

R.R. INSTITUTE OF TECHNOLOGY Chikkabanayara, Bangalore - 560 090.

PRINCIPAL

CONVENOR



**Since 1993** 

# R R Institute of Technology

Affiliated to VTU Belgaum. NAAC Accredited with B\* Grade
Raja Reddy Layout, Hesaraghatta Main Road, Chikkabanavara, Bengaluru-560090

### Certificate

CONVENOR

Professor & Head Department of Basic Sciences R.R. Institute of Technology Bangalore 560 090

HOD

PRINCIPAL

R.R. INSTITUTE OF TECHNOLOGY

Chikkabanavara, Bangalore - 560 090.



**Since 1993** 

# R R Institute of Technology

Affiliated to VTU Belgaum. NAAC Accredited with B\* Grade
Raja Reddy Layout, Hesaraghatta Main Road, Chikkabanavara, Bengaluru-560090

# Certificate

CONVENOR

Professor & Head Department of Basic Sciences R.R. Institute of Technology Rangalore 560 090

HOD

R.R. INSTITUTE OF TECHNOLOGY Chikkabanavara, Bangalore - 560 090.



**Since 1993** 

# R R Institute of Technology

Affiliated to VTU Belgaum. NAAC Accredited with B' Grade Raja Reddy Layout, Hesaraghatta Main Road, Chikkabanavara, Bengaluru-560090

# Certificate

This Certificate is awarded to Mr./Ms. MR. AXSHAY

for successfully completing the course "CONCEPTS OF BIOCHEMISTRY" Organised by the Department of Basic Science, RR Institute of Technology, Bengaluru, during 10th - 29th October 2022, with a consolidated score of .....

CONVENOR

R.R. Institute of Technology Bangaiore 560 090

HOD

R.R. INSTITUTE OF TECHNOLOGY Chikkabanayara, Bangalore - 560 090



### R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi,
Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electrical & Electronics Engineering

#### ORGANIZING COMMITTEE

Chief Patron
Sri Y. Raja Reddy
Chairman, PKMET, Bengaluru

Patron

Sri Kiran H.R. Secretary, PKMET, Bengaluru

Sri Arun H.R. Director, PKMET, Bengaluru

Administrators:

Prof. Maya Salimath G

Director QAC- R. R. Institutions

Chair Person:

Dr. Mahendra K V

Principal- RRIT, Bengaluru

Convener / Organising Secretary Dr. Sunitha H.D.

Professor & HOD-EEE

Naveen G.5th Sem

Organising Committee Members
Sowmya G J, Assistant Professor
Sunanda C,V Assistant Professor
Jhansi K, Assistant Professor
Madhavi D, Assistant Professor
Anusha D Y, Assistant Professor
Pradeesha J, Assistant Professor
Gautham G, Assistant Professor
Vyshnav B, Assistant Professor
Vidya S Prasad. 5th Sem
Anusha G R. 3rd Sem
Ullas M S. 3rd Sem

EnEErgy-Association of EEE



#### CORDIALLY INVITES ALL FOR CERTIFICATION COURSE

on

"Python Programming with Application Projects & Solutions"

On 09th Jan 2023–13th Jan 2023

#### **GUEST OF HONOR**

Dr.Mahendra K V Principal, RRIT

#### **RESOURCE PERSONS**

Mohan Shamanna
 Founder and Mentor INDOSKILL

INDOSKILL

Signature CO-ORDINATOR

Jhansi K, Assistant Professor Anusha D Y, Assistant Professor 2. Mohammed Azhar Hussain Co-Founder and Mentor INDOSKILL

Signature





### R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka Accredited by NAAC with Grade 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electrical & Electronics Engineering

# Report on Certification Course on "Python Programming with Application Projects & Solutions" From 09-01-2023 to 13-01-2023

Date: 18/1/23

The Department of Electrical and Electronics Engineering had organized five days Certificate course on "Python Programming with Application Projects & Solutions", from 09/01/2023 to 13/01/2023 for the students of 5<sup>th</sup> semester and 3<sup>rd</sup> semester EEE students.

#### Resource Persons:

1.Mohan Shamanna Founder and Mentor INDOSKILL

#### 2. Mohammed Azhar Hussain

Co-Founder and Mentor INDOSKILL

#### Objective:

The certification course mainly focus on to give the knowledge and hands on experience on the latest trend that is Python towards societal applications and to build the gap between the industrial and academia.

#### Topics covered

	DAY:1-(09/1/2023,Monday)
Session 1(9.00am-11:00am)	Introduction to Python Programming and Its Significance
	Short Break
Session 2(11:15am-1:15pm)	Basic Concepts of Python Programming
	Data Types - Numbers, Strings, Lists, Tuples, and Dictionaries
	Lunch Break
Session 3(2:00pm-5:00pm)	Basic Concepts of Python Programming
	Project1: BMI Calculator
	Project2: Average Height Calculation using List Concept
	DAY:2-(10/1/2023,Tuesday)
Session 1(9:00am-11:00am)	Introduction to Functions : Scope & Usage of Functions, Functions Example Programs, Lambda Function and Examples, Module concept used in python,

	Short Break
Session 2(11:15am-1:15pm)	Introduction to Time Library
•	Lunch Break
Session 3(2:00pm-5:00pm)	Project3: Traffic Light Control using Time. Project4: Time based Bottle Filling System using Time Module Module Exceptional Handling with 'try-except'
	DAY:3-(11/1/2023,Wednesday)
Session 1(9:00am-11:00am)	ESP32 Hardware Libraries using Python, Downloading & Executing python code on Microcontroller
	Short Break
Session 2(11:15am-1:15pm)	Example programs on Logics using python - AND, OR & XOR operation,
	Lunch Break
Session 3(2:00pm-5:00pm)	Simple led blink program using python microcontroller interface, Project4: Switch and LED control interface Project Assignment-1
	DAY:4-(12/1/2023,Thursday)
Session 1(9:00am-11:00am)	Project5: Two Switches & Motor Control using AND & OR Logic Project6: Bottle Sorting project in Bottle Industry Project7: Staircase Application Project
	Short Break
Session 2(11:15am-1:15pm)	Project8: Secured Password Machine Control Project Project9: Toll Gate Control Application Project Project10: Process Mixing Application Project
1	Lunch Break
Session 3(2:00pm-5:00pm)	Project11: IoT based Web station Application Project12: IoT based Home Automation & Control System Project13: IoT based Garbage Monitoring System using Machine Learning Assignment-2
	DAY:5-(13/1/2023,Thursday)
Session 1(9:00am-11:00am)	Introduction to Machine Learning, Introduction to Machine Learning Libraries
	Short Break
Session 2(11:15am-1:15pm)	Brief Introduction about Numpy, Pandas, Matplotlib & their Usage
	Lunch Break
ession 3(2:00pm-5:00pm)	Machine Learning Types & Models  Machine Learning Scope in Today's World



### R. R. Institute of Technology

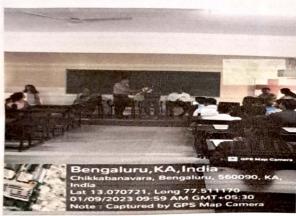
Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with Grade 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electrical & Electronics Engineering

#### Outcome:

- A total of 51 students from the department of EEE were benefitted. Students were evaluated on basis of assignments and certificates were awarded. Students found the CERTIFICATE PROGRAM very informative which aids them for mini projects, main projects and job opportunities from PYTHON.
- By the certification course, the students are benefitted by learning the new modern tool. This modern tool can be used for societal applications like the traffic, health care projects.

#### PHOTO GALLERY

















Signature of Coordinator



G

### R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka
Accredited by NAAC with Grade 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electrical & Electronics Engineering

#### Certification Course on

# Title: "Python Programming with Application Projects & Solutions" From 09-01-2023 to 13-01-2023

#### Topics to be covered

Date	Topics to be Covered	Hours
	Introduction to Python Programming and Its Significance	
	Introduction to Anaconda Software and Installation	
09/1/23	Python Program Basic Structure	
	Basic Programming Concepts	7Hrs
	Data Types - Numbers, Strings, Lists, Tuples, and Dictionaries	71115
	Type Casting Method	
	Project1: BMI Calculator	
	Project2: Average Height Calculation using List Concept	
	Introduction to Functions	
	Scope & Usage of Functions	
	Functions Example Programs	
	Lambda Function and Examples	
10/1/23	Module concept used in python	7Hrs
	Introduction to Time Library	
	Project3: Traffic Light Control using Time	
	Project: Time based Bottle Filling System using Time Module	
	Module Exceptional Handling with 'try-except'	
	Python with Microcontrollers	
	A brief introduction to ESP32	7hrs
11/1/23	Pin Description and Usage	/nrs
	Peripherals interfaces introduction and usage	A PLANT

Date	Topics to be Covered	Hours
	Introduction to Micropython	
	Installing Python Firmware on ESP32	
	ESP32 Hardware Libraries using Python	
	INDOSKILL Python Kit Introduction & usage	
	Downloading & Executing python code on Microcontroller	
	Example programs on Logics using python - AND, OR & XOR operation	
	simple led blink program using python microcontroller interface	
	Project4: Switch and LED control interface Project	
	Simple Logics such as AND, OR, NOT, and XOR logic execution using Python	
	Real-Time Application Projects & IoT	
12/1/23	Project5: Two Switches & Motor Control using AND & OR Logic	7Hrs
	Project6: Bottle Sorting project in Bottle Industry	
	Project7: Staircase Application Project	
	Project8: Secured Password Machine Control Project	
	Project9: Toll Gate Control Application Project	
	Project10: Process Mixing Application Project	
	Project11: IoT based Web station Application	
	Project12: IoT based Home Automation & Control System	
3/1/23	Project13: IoT based Garbage Monitoring System using Machine Learning	
	Introduction to Machine Learning	7Hrs
	Introduction to Machine Learning Libraries	
	Brief Introduction about Numpy, Pandas, Matplotlib & their Usage	
	Machine Learning Types & Models	
	Machine Learning Scope in Today's World	
	Total Hours	35Hrs

Signature of Coordinator

Signature of the Resource person

Signature of HOD



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi,
Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'
Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electrical & Electronics Engineering

#### **Certification Course on**

Title: "Python Programming with Application Projects & Solutions"

from: 09-01-2023

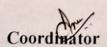
to: 13-01-2023

AY: 2022-23

Semester: 5th

#### Students List and Attendance

SL.	Name of the	USN	09-1	09-1-23		10-1-23		11-1-23		12-1-23		-23
No	Student		M	A	M	A	M	A	M	A	M	A
1	Divya S	1RI20EE001	JAMES	JAME	Jan	Str.	OF ST	7/	Ste Ste	&C.	Org.	SA
2	Naveen G	1RI20EE003	Some	Yough	Yares	Jones	mes ,	Loven	reser.	andy	Tonger	Sancord.
3	Vidya S Prasad	1RI20EE004	Budy	Bull	200	Will A	Sig).	City.	Quid &	Kris	de les	City 8
4	Abinash Kumar	1RI20EE005	18ES	<b>Q</b>	DE.	Jan S	Bo	13	Buy	(P)	384	34
5	Devpukar Chaudhary	1RI20EE006	Pay	Lux	Fery	09		Of the	Tu.		Du fue	Of the
6	Darshan Gowda B K	1RI20EE007	Danahour	de	R	Post	R	Ros	Day.		A Light	Page
7	Gagana S	1RI21EE400	hoop	COO Sunst	Ogus	Poop	Goog	Googr	Good	for	Gas	Gog
8	Nandini T S	1RI21EE401	W.	A CONTRACTOR OF THE PROPERTY O	*	A.		No.	X	No.		X
9	Vadde Pavan	1RI21EE402	Quan	Zorau	Zavan	<b>W</b>	v Zov	You	u pour	ant four	al Paris	Paus Paus
10	Vinayak Mishra	1RI21EE403	Grayle	finum	Gray	Vinag	linay	Sinay	k Chay	2 Ving	Win	Vine



HOD OF ELECTRICAL & ELECTRONICS ENGINEERING R R Institute of Technology Hesaraghatta Main Road Chikkabanavara, Bengaluru - 560090



R. R. Institute of Technology
Affihated to VTU Belgaum and Approved by AICTE, New Delhi,
Recognized by Govt. of Karnataka
Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Electrical & Electronics Engineering

#### Certification Course on

Title: "Python Programming with Application Projects & Solutions"

from: 09-01-2023 to: 13-01-2023

AY: 2022-23

1 16

Semester: 3rd

### Students List and Attendance

SL.	Name of the	USN	09-	1-23	10-	1-23	-	1-23	12-1		13-1	
No	Student		M	A	M	A	M	A	M	A	M	A
1	Ankiet	1RI21EE001	A	40	des	A	A	A	A	at	A	A
2	Anusha G R	1RI21EE002	村	tat	to	tol	tut	1	1	林	tut	the
3	Bharath Kumar G	1RI21EE003	Bhard	Pharat	Rhardy	Bharath	Bhoroth	Zhanath	Book	Shaxath	Bhasath	Bhascath
4	Chandra Prakash Reddy Y A	1RI21EE004	50	100	OFF	2		OF	CON	app.	CPP	P
5	Darshan	1RI21EE005	elve	Dhud	Pas	Day						
6	Devraj Rana	1RI21EE006	Levay	1 outral	devois	Jaran	more	Journ				
7	Jayanth H M	1RI21EE007	Payars	Organ H	Digner!	Dayout !	Tayout .	Dayout	fay	Payant	Payl	Ray
8	Manish Shrestha	1RI21EE008	MA.	AH	啉	M.	AXX.	HJ.	安	444	松	the
)	Manoj Gowda K J	1RI21EE009	Mak	Half	Alab	Med	Mega	Most	May	Most	Nog	Mes
0	Nandana Ganesh	1RI21EE010	a lost	Al Root	Host	de de	AST.	2				
1	Natraj	1RI21EE011	2 Catio	HARM	Kita	To de s	Cathon	Wary.				
2	Pandey Aman Mahendra Prasad	1RI21EE012	mir	Infa.	hr.	722	Mr	4	ha	hhr.	hr.	Like .
3	Phuleshwar Yadav	1RI21EE013	1/1	the second	ful	WY.	ful.	118	- fus	Roll	W.	lu
4	Prajwal Bhandari	1RI21EE014	Rufr	Rife	Paje	240	Pif	Riv	Ryfor	Rig	Pile	Pily
5	Prajwal C G	1RI21EE015	Relig	W/	V.	Pools	Pla	Pho	Elle	Pho	& Cla	PA
6	S Anand	1RI21EE016	W.	<b>A</b>	W	(AK)	<b>A</b> 8	AS	(			-
7	Shirsha Pal	1RI21EE017	BANK	Part .	28 TA	1800	Sie	Shire				
8	Sneha P M	1RI21EE018	Broke	Rock	Rub	Brok	Broke	Och	Brek	Book	Brel	Brok
9	Subhash Chandra K B	1RI21EE019	Sar.	80%	800	200	200					
0	Tharun. K	IRJAICE DAO	butt.	Thel	Roll	المصلة	Stude !	stre	att	atu	2.00	• Ott

SL.	Name of the	USN	09-1	-23	10-1	-23	11-	1-23	12-	1-23	13-1	1-23
No	Student		M	A	M	A	M	A	M	A	M	A
21	Ullas M S	1RI21EE021	wa	Total	城	Will	SHO	way.				-
22	Vandana A	1RI21EE022	Wales	De	MAN	fol	Fali	1	end	Made	Med	Shock
23	Varshitha B S	1RI21EE023	Laris.	bulil	Yorlde	World	Yesh	Norshill				
24	Vasanth Kumar G	1RI21EE024	<b>M</b>	149		10	(A)	( Carl	( Con	de .	P	To .
25	Sonu Sabu	Diplomo	El.	St.	St	Ske	8	Sk	-			
26	Subhajit Patra	Diplomo	S. Care	8. Pate	Spar	3. Pad	Bie	B. Com	3-Par	8. Par	S Pot	3.9~
27	Girish ♥ R. K	Diplomo	Civil	Ginil	Garah	Carico	Guil	bul				

Coordinator

rells with rith that his last has being boils

HOD, EEE

HOD OF ELECTRICA

R R Institute or 14... Hesaraghatta Main Road, Chikkabanavara, Bengaluru - 660090



### Agmenz Automation Private Limited







U74999KA2018PTC117612

COURSE COMPLETION

## CERTIFICATE

THIS CERTIFICATE IS PROUDLY PRESENTED TO

triusha. G.R

1RI21EE002

Solutions" on successfully completion of Certification Course on "Python Programming with Application Projects & organised by Department of Electrical and Electronics Engineering, R R Institute of Technology, Bangalore in association with Aqmenz Automation Pvt. Ltd. from 09.01.2023 to 13.01.2023

Mr Mohammed Azhar Hussain

Chief Technology Officer (CTO), AQMENZ Automation Pvt. Ltd., Bengaluru - 560032

Mr Mohan V S Chief Executive Officer (CEO), AQMENZ Automation Pvt. Ltd., Bengaluru - 560032

Dr. Shivakumara Swamy R

HOD/EEE,RRIT

>>

Dr. Mahendra K V Principal ,RRIT



# Aqmenz Automation Private Limited







CIN: U74999KA2018PTC117612

COURSE COMPLETION

### CERTIFICATE

THIS CERTIFICATE IS PROUDLY PRESENTED TO

<< Bharath Kumar G

IRI2IEE003

>>

on successfully completion of Certification Course on "Python Programming with Application Projects & Solutions" organised by Department of Electrical and Electronics Engineering, R R Institute of Technology, Bangalore in association with Aqmenz Automation Pvt. Ltd. from 09.01.2023 to 13.01.2023

Mr Mohammed Azhar Hussain

Chief Technology Officer (CTO), AQMENZ Automation Pvt. Ltd., Bengaluru - 560032 Mr Mohan V S

Chief Executive Officer (CEO), AQMENZ Automation Pvt. Ltd., Bengaluru - 560032 A CONTRACTOR OF THE PARTY OF TH

>>

Dr. Shivakumara Swamy R HOD/EEE,RRIT Dr. Mahendra K V Principal ,RRIT



### Aqmenz Automation Private Limited







CIN: U74999KA2018PTC117612

COURSE COMPLETION

### CERTIFICATE

Chandra Prakash Reddy YA>
\*\* 1RI2IEE004 \*\*

on successfully completion of Certification Course on "Python Programming with Application Projects & Solutions" organised by Department of Electrical and Electronics Engineering, R R Institute of Technology, Bangalore in association with Aqmenz Automation Pvt. Ltd. from 09.01.2023 to 13.01.2023

MMADE

Mr Mohammed Azhar Hussain

Chief Technology Officer (CTO), AQMENZ Automation Pvt. Ltd., Bengaturu - 560032 M

Mr Mohan V S

Chief Executive Officer (CEO),

AQMENZ Automation Pvt. Ltd.,

Bengaluru - 560032



Dr. Shivakumara Swamy R HOD/EEE,RRIT

Dr. Mahendra K V Principal RRIT



#### Aqmenz Automation Private Limited







U74999KA2018PTC117612

COURSE COMPLETION

### CERTIFICATE

THIS CERTIFICATE IS PROUDLY PRESENTED TO

<< 'Jerraj Rana

IRI21 EE006

on successfully completion of Certification Course on "Python Programming with Application Projects & Solutions" organised by Department of Electrical and Electronics Engineering, R R Institute of Technology, Bangalore in association with Aqmenz Automation Pvt. Ltd. from 09.01.2023 to 13.01.2023

Mr Mohammed Azhar Hussain

Chief Technology Officer (CTO), AQMENZ Automation Pvt. Ltd., Bengaluru - 560032

Mr Mohan V S

Chief Executive Officer (CEO). AQMENZ Automation Pvt. Ltd., Bengaluru - 560032

>>

Dr. Shivakumara Swamy R HOD/EEE,RRIT

Dr. Mahendra K V Principal, RRIT



# R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Chikkabanavara, Bengaluru-560090

Department of Basic Sciences

#### ORGANIZING COMMITTEE

**Chief Patron** 

Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

Patron

Sri Kiran H.R.

Secretary, PKMET, Bengaluru



Sri Arun H.R.

Director, PKMET, Bengaluru

Prof. Maya Salimath G

Director QAC -R. R. Institutions

Rector

Dr Mahendra K V

Principal- RRIT, Bengaluru

Organising Secretaries

Dr V. Ramachandramuthy

**HOD & Professor** 

Dr Anita R Shettar

Associate Professor



**Organising Committee Members** 

Prof Sowmya A Bhat

Assistant Professor

**Prof Parvathy R** 

Assistant Professor

Prof Shwetha K R

Assistant Professor

Cordially invites all staff & students for Ingauration of certificate Course on

Physics of Engineering Materials

On Tuesday, 1/01/2022, 10 am

Venue: Seminar Hall, Main Block

CHIEF GUEST

Sri Y. Raja Reddy

Chairman PKMET

Sri Kiran H.R.

Secretary, PKMET, Bengaluru

Sri Arun H.R.

Director, PKMET, Bengaluru

HOD

Dr Ramachandramurthy V

PRINCIPAL

Dr Mahendra K V

### PHYSICS OF ENGINEERING MATERIALS

#### **UNIT: I ELASTIC MATERIALS**

(10hours)

- 1. Explain elasticity and plasticity. Give some examples for good elastic materials. Mention the importance (Engineering) of elastic materials. concept of stress and strain. Discuss two types of stresses namely tensile stress and compressive stress. Briefly discuss the effect of stress, temperature, annealing and impurities on elasticity
- 2. Strain hardening and softening: just explain what is strain hardening (strengthening of material by plastic deformation) and hardening co efficient and softening. No detailed discussion of processes.
- 3. State and explain Hookes' law, stress strain curve, elastic and plastic limits. Elastic modulus, define three different elastic moduli.
- 4. Define lateral strain and linear strain and hence Poisson's ratio  $\sigma = \beta/\alpha$  ( $\alpha = 1$  linear strain coefficient) and ( $\beta = 1$  lateral strain coefficient) Discuss the limiting values of  $\sigma$  and limitations of Poisson's ratio
- **5.** Relation between shear strain, longitudinal and compression strain. Show that longitudinal strain + compression strain = shear strain by considering a cubical elastic body
- 6. Derive the relation between Y,  $\eta$  and  $\sigma$  Derive the relation between K, Y and  $\sigma$  & Derive the relation between K,  $\eta$  and Y Virtual Lab on Young's Modulus Experiment.
- 7. Define bending moment. Derive the expression for bending moment in terms of moment of inertia. Mention the expression for bending moment for circular and rectangular cross sections. Describe a single cantilever and hence derive the expression for Y
- **8.** Twisting couple on cylindrical wire, explain torsional oscillations, derive the expression for couple per unit twist for a solid cylinder
- 9. Numerical problems on elastic constants, Poisson's ratio
- 10. Numerical problems on bending moment and torsional oscillations.

#### UNIT: II CRYSTALS

(10hours)

- 1. Space lattice, Bravais lattice-Unit cell, primitive cell.
- 2. Lattice parameters, Crystal systems.
- 3. Direction and planes in a crystal. Miller indices. Expression for inter planar spacing.
- 4. Coordination number, Atomic packing factors (SC, FCC, BCC).
- 5. X-ray diffraction, Bragg's law.
- 6. Determination of crystal structure using Bragg's X-ray diffractometer.
- 7. Polymorphism and Allotropy-Definitions, Crystal Structure of Diamond.
- 8. Research applications of Single crystal X-ray diffraction method.
- 9. Numerical problems on Miller indices.
- 10. Numerical problems on Coordination number, atomic radius and lattice constant. Virtual Lab on Crystal Structures.

#### UNIT: III SUPERCONDUCTORS

- Temperature dependence of resistivity in metals and superconducting materials.
- 2. BCS theory.
- 3. Meissner effect- Effect of magnetic field on superconductors.
- 4. Type I and Type II superconductors.
- Temperature dependence of critical field.
- 6. High temperature superconductors.
- 7. Tunnel Junctions using superconductors, Josephson Effect: AC and DC
- 8. Application of superconductors- maglev trains.
- 9. Some of the recent research in the field of superconductors.
- 10. Numericals on critical temperature and critical field.

#### Reference:

- 1. D S Mathur, "Properties of Matter", S Chand publications.
- 2. S.O.Pillai, "Solid State Physics", New Age International. Sixth Edition
- 3. Michael Tinkham, "Introduction to Superconductivity", Dover 2nd Edition, (1996).



# R. R. Institute of Technolgy

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+' Chikkabanavara, Bengaluru-560090

Department of Basic Sciences

# Certificate Course on Physics of Engineering Materials 01/1/2022 - 08/1/2022

#### REPORT

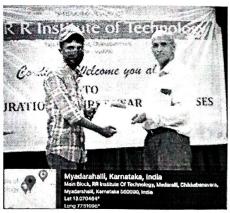
The certificate course on *Physics of Engineering Materials* was held from 1<sup>st</sup> to 8<sup>th</sup> January, 2022. The total duration of the course was 30 hours in which students were given insight of Elastic materials, Crystallography and Superconductivity. The relevance of these topics in the current world and their contribution as engineers in



these fields were briefed. Inauguration of certificate was held on 1/1/2022, 9.30 am onwards.

Through the different sessions students were made to understand and recognize the elastic properties of materials for engineering applications. Students were explained the physics that underlines the behaviour exhibited by superconductors. Students comprehended the wide range of research and application in this field. Students obtained the knowledge on fundamentals of crystallography, symmetry, structural analysis and crystal structure determination.





A total of 92 students participated in the course. Students were evaluated based on the 3 assignments and a final exam that was conducted. Certificates were awarded to students who cleared the cut off based on the criterion specified for course. A total of 85 completed the course successfully and received the certificate for the same. All 85 students were given completion certificate on 14<sup>th</sup> January 2022.

Convenor

Professor & Head

Department Basic Sciences

R.R. Institute of Technology

Bangalore 560 090

Signature Principal

PRINCIPAL

R.R. INSTITUTE OF TECHNOLOGY

Chikkabanavara, Bangalore - 560 090.

### PHYSICS CERTIFICATE COURSE

Semester I

Academic Year: 2021-2022

#### Attendance

Sl.No	Admission no.	Name Mane	Date	Date	Date	Date	Date
	789 A	party and	03/01/2022	04/01/2022	05/01/2022	06/01/2022	07/01/2022
1	2105055	HAFIZ HANEEFA	xtavagex3	X avage X3	X tangex3	X tange X3	Xstavage X3
2	2105084	JIYAD.C	<b>A</b>		4-	Tied.	(In)
3	&ICS 060	MOHAMMED SUHALL .A.M	SHOW	Sly	Sha	of last	Relate
4	&1CS058	ZAYED-M	**	the state of the s	Aut .	- Lut	tent-
5	21 C8045	HALUL RAJ A	Halai	Holdi	Hole	Hove	- les
6	21CS048	JISHIN SURFSH	gus	gub .	gus.	Side	dish-
7	21 (5083	MISRIVA EBRAHIM MOHASIAI	at	Life.	let	lik	lib
8	2165011	MOHAMMED ZAHID	A hard	7-100	THE PARTY OF THE P	ZARON O	"Third
9	8165039	MOHAMMEDRIYAN	Que le	Que de la companya della companya della companya de la companya della companya de		2	QUE.
10	2105066	ANSHWAL . P. ANIL	Archuent	menunch	Austring!	Arethur	Ans much
11	2108026	MOHAMED RAMSHAD	##7	447	**	**	450
12	21 (3057	JOBIN . P. THOMAS	1	D-		<b>6</b> —	æ-
13	21CS027	Abdul ShamiL	Dave.	Other.	and.	Come.	Dune.
14	2165029	YEMAN CHAUDHARY.	Keming	Trush.	Timent.	Feman	Jemmy-
15	21 IS 003	ABHISHEK-TIWARY	Abhishek	Abhishek	Abhishek	Abhishor	Abhishek.
16	2115039	VEDANT TIWART	Vedant	vedant	Vedant	Vectority Times	Vodant
17	1RI2013069	PRAKASH TIMILSINA	Prais	Dex	Phas	Pak	Prak
18	201S058	alitesh Toshi	nertest	nortext	restern	nestead	norten
19	2115006	NAVIN KUMAR	Din Jun	thinkfun	Mans Home	Miss of en	Nomo Hem
20	21IS029	DILLE RAM SHAHU	Zudom	Civilan	Callind bo	Quidan.	Childons

SI.No	Admission no.	Name	Date	Date	Date	Date	Date
Jinto	Admission		03/01/22	04/01/22	05/01/22	06/01/20	and three contributions are broaders and property to be a contribution of
21	21 09077	POULDMI BHATTACHARIA	Ph.	PR.	PR	P R	PB.
22	2165089	HEMA-R	hema	hander	howto	Landya	Kento
23	2105074	SUSMITA MIDYA	Qui dua	Stidya	(Sindya	Caridya	Bidya
24	2115018	CHAYA R PARTHAR	Chayal Bachar	Chaya Rhuino	Cour & Posthar	Charack Position	1 days the
25	2105022	PRARTHANA NATH	arents	Beats	alath	Olars	Gilan
26	2103012	SHIBAM DAS	(Du	(Sa)	(Dec	(Du	(Qu
27	2105021	ABHISHEK SINGH	Marshall	Apparais	Populación	Abhorner	Appearence
28	21 I S O O 7	Khadanand Sah Holoway	Bluf.	blust.	15/mg-	(R)mt	18/mg
29	2108040	BIKASH SAH	And h.	Bokesh.	201208h.	Resh.	Bika81
30	2105072	SUCHIT GHEEWALA	sha	Sign .	Sur	300	Que CD
31	2105025	Debdoerta Sumui					
32	2105082	ABHINAU SINGH	<b>2</b>	The state of the s	Æ	4	
33	2165085	Adipath Rajevan	Ader	Alex	alor	Adul	Dole.
34	21CS 037	SACHIN-R-NAIR	fer-	B	Da-	de-	fa-
35	2175023	PHIRAJ SARDAR	DW.	200		08_	B-
36	2115010	Sagar Kumar pales NIKHIL.T.S	A	. 4	A S	A	A
37	SEOSTIG		2002 हा नि		Drog. 83.000	Brog. 63.94	
38	2175016	MEGHANA.T.R	meghana!	nighanas	Mighana:	meghana!	Meghana
39	2132033	KEERTHI. P. S.	Keyothil:	Keeretur.	Kegothi/	Ke gerting	Keepetti
40	2115034	PRASAD. H	of the	9 10	3	GI JD	and it
41	21IS036	SHARATH .S.	Shorth	8hth	8hth	8hutt	8 hant
42	2 S 21 ES 02 5	PRAJWALIM	PKASS	PART	ship	PRATIO	PRATO
43	1815088	Shaz bilal	9	O L	July 1	Sur.	WY -
44		Savang K.V	354	Cill			
45	81 FS 030	Syinath.C	Sinath	Srinath	Srinath	Stinatto 3	rinath

Sl.No	Admission no.	Name	Date	Date	Date	Date	Date
		The state of the s	03/01/22	04/01/22	05/01/22	06/01/22	07/01/22
46	21 15008	Osish Bantha	1 osish	Bsish	osish	osish	Osish
47	21IS014	Siddharth Singh	Siddharth	Stildharth	Siddhorth	giddharm	Sid Sharth
48	2173004	Sougleb Birnas	Shar	SPar	Pas	By	Boo
49	21I8015	Sujay E	legaret	Lujayet	Leyay . E	Lujay E	Lujay E
50	2115034	ucha. H.	O.D.	Sel	1001	What	wiff
51	81IS031	Vaibhau s. Katli	vaible	Vaisla	Vaibla	Vaibla	Vaible
52	2173032	Varin-R	Varunt	Vorent	Vorune	varunt.	Voun. R
53	21 150 21	Yashwanth. an.	Youse	youth.	garty	Yardsa	yarty
54	21 05 024	Arashish Kr padrev	Ample	Aren	Artist	Amel	James 1
55	21CS 020	Aman kokher	dokh	dothe	Ash	dokhe	Nokh
56	2105030	Ankit Pattanayak	dukit	Anhite	dupit	Ausit	Anghis
57	2103069	B. K. Berlasi	BF	3P	<b>P</b>	<b>B</b>	2
58	2163019	Asyrun P. Ramesa.	According	Aftersough	paragel	usia outle	AND BUSH
59	2100062	Brita Paul	Binto	Rinita	PUNTO.	Buta	ninita
60	2102049	G-DMesh Kumous	dipinesh.	G. Dinoth	G. DMOTH	Gr. Donesh	Gionesh
61	2105067	Mohammed Sanjidh Roshan	Source	Sayor	200	Senjet	Sayion
62	21 CS 0 39	Hanikuishnan .M	1 derthan	A Lewinson	DA Culton	Poleuthan	To to the
63	A115007	A. Aliju Kenith	Charles	( the land	Colindar	CAM	2
64	2105076	Promit Saha	Para	PHA	pu	1	1 10 1
65	alcs 086	P. sulias Somnath ready	lularlamosts		lecher Conta	fullant!	Richard ount (
66	2165035	Rahiel	Kellett	Perhad	O Short	yeun a	Chelo
67	2105001	RINSHAD	Brehad	Righad	Paghad	Broker	Neha
68	21CS064	Neha Larna	Heray	Nehe	Meha	Neda	1) 1
69	2105081	Meeraj Kr. Singh	- Griej	en y	Child	Nuret 2	Daily
70	2105032	Douvery a Mariky	5 Marky	Maity	Daity	Maily	Dianx

Sl.No	Admission no.	Name	Date	Date	Date	Date	Date
1.5	1461.53	CO ASLANDO COLOTOR	03/01/22	04/01/22	०ऽ/०।/२२	06/01/22	07/01/22
71	2101043	reshwanth.B	2. detro	2 de	2 000000	le con	Description
72	2105033	Shovan Maity	s. Mensty	s. Maity	S. Marity	S. Movity	S. Mais to
73	2115065	Sayyed mohamed Hisham	alun-	Company	for the	( Gud	County.
74	2165041	Rohit Rout	Tala	- John Paul	The state of the s	They	- Tales
75	21 ISO38	Farhan Ahamed	man	Andre	Just	hand	Augu
76	21ISO46	Hamsayeni, B.M	Handwisi R. K.	Hoemb a	Hoening.	Homeaven	Hoemin
77	2125026	Hemanth. D. 79	Herrouth, P. K		Hemarth R. K	Hementh. R. 12	Henroth. P. 1
78	21E5009	Harshitha Reddy. K	Halli	Haesui	Harri	Haeri	Halli
79	2115020	Balarame Gowda. B.k	gap	3	80	Bob	Baller
80	21 IS024	APEKSH. A.R	6201	604 KB	ester	Cotton	echi
81	1002118	Adhil·s	oh:	ala	Our ALL	111	MI.
82	2155034	Abhishek Arun	Abha	Ahar	Alphi	Aloh	Aloh
83	31 ISO43	Anti Arijitt	W/	\$	D	A	R
84	41	Anurag M	<b>DY</b>		*	-	\$
85	17.1	Basin S 7	1 - HAW	1 Hans	Contino	July 1	North Frence.
86		Joel T. Sajeev	Δ	A		0	A
87		Md. Asheem P. K	Yes	yes	yes	ya	ya
88		Nd. Yasar Rufeek S	8	@		9	D
89		Shuvash Kumar Thaku	Shin	B.	and c	87	8Pm
90		Sooryajith, S	Local -	Zoon	Loony	South	Soo Righ
9		Ashwin	Ash	The	Aus	AA	ASSE
9	Control of the Contro	713.100.	5,000	1 22314		05113	
9				31	any colonia.		
-	5	en and a survey	1.16		033	6 constatos	

Addlloon

Professor & Head
Department of Basic Sciences
R.R. Institute of Technology
Bangalore 560 090



## R. R. INSTITUTE OF TECHNOLOGY, BANGALORE

Affiliated to VTU Belgaum, NAAC Accredited With B+ Grade

## Certificate

This certificate is awarded to

#### **NEHA LAMA**

for successfully completing the 30 hours course on *PHYSICS OF ENGINEERING MATERIALS* 

organized by the Department of Basic Science, R. R. Institute of Technology, Bangalore during 1st-8th January, 2022

with a consolidated score of \_\_\_\_\_92

ASSIGNMENT 24/25 EXAM 68/75



Professor & Head
Department of Basic Sciences
R.R. Institute of Technology
Bangalore 560 090
HOD





## R. R. INSTITUTE OF TECHNOLOGY, BANGALORE

Affiliated to VTU Belgaum, NAAC Accredited With B+ Grade

## Certificate

This certificate is awarded to

#### **DEBDEEPTA SAMUI**

for successfully completing the 30 hours course on *PHYSICS OF ENGINEERING MATERIALS* 

organized by the Department of Basic Science, R. R. Institute of Technology, Bangalore during 1st-8th January, 2022

with a consolidated score of \_\_\_\_\_90

ASSIGNMENT 22 /25 EXAM 68/75



Professor & Head
Department of Basic Sciences
R.R. Institute of Technology
Bangalore 560 090
HOD





## R. R. INSTITUTE OF TECHNOLOGY, BANGALORE

Affiliated to VTU Belgaum, NAAC Accredited With B+ Grade

## Certificate

This certificate is awarded to

#### **ABHINAV SINGH**

for successfully completing the 30 hours course on *PHYSICS OF ENGINEERING MATERIALS* 

organized by the Department of Basic Science, R. R. Institute of Technology, Bangalore during 1st-8th January, 2022

with a consolidated score of \_\_\_\_\_89

ASSIGNMENT 22 /25 EXAM 67/75



Professor & Head
Department of Basic Sciences
R.R. Institute of Technology
Bangalore 560 090
HOD





## R. R. INSTITUTE OF TECHNOLOGY, BANGALORE

Affiliated to VTU Belgaum, NAAC Accredited With B+ Grade

## Certificate

This certificate is awarded to

#### **ROHIT RAUT**

for successfully completing the 30 hours course on *PHYSICS OF ENGINEERING MATERIALS* 

organized by the Department of Basic Science, R. R. Institute of Technology, Bangalore during 1st-8th January, 2022

with a consolidated score of \_\_\_\_\_89

ASSIGNMENT 22/25 EXAM 67/75



Professor & Head
Department of Basic Sciences
R.R. Institute of Technology
Bangalore 560 090
HOD





R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi ,Recognized by Govt. of Karnatak Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090°

Department of ECF

#### ORGANIZING COMMITTEE

**Chief Patron** 

Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

**Patron** 

Sri Kiran H.R.

Secretary, PKMET, Bengaluru

Sri Arun H.R.

Director, PKMET, Bengaluru

Chair Person

Dr. Mahendra K V

Principal, R. R. I. T. Bengaluru

Convener / Organising Secretary

Dr. Sunitha H D

Professor & Head,

Department Of ECE

Organising Committee Members Prof. Mohan Kumar B N

Assistant Professor, ECE

Prof. Sunanda CV

Assistant Professor, EEE

Student Members

Mr. Abhishek gowda

8<sup>th</sup> sem

Mr.Gagan Kumar

8th Sem

Ms.Tejaswini P

8th Sem

Mr. Saikiran

6th Sem

Ms. Emdorka syiem

8th Sem

Ms.Pooja

6th Sem

O-ORDINATORS

Department of ECE ,EEE,CS & ISE

Invites you all for the Inaugural

 $\mathbf{of}$ 

NSDC Certificate Programı

"Networking"

In association with UTL

Date: 30/03/2022 - Wednesday @11:30AM

CHIEF GUEST

Dr. Mahendra K V

Principal,

R. R. I. T, Bengaluru

**GUEST OF HONOUR** 

Mr. C.Kanagasabapathi

CEO,UTL Technologies Limited, Bengaluru

Venue: RRIT Civil Seminar Hall

PRINCIP

NSDC Program Registrations

		alutation	FullName	Gender	DateofBirth	NAZEILAN	- Company of the Comp		
		Mr	A 1 1 1 1 1 -	Male	11-04-1998	MobileNo	EmailID	IDType	Adhaar Number
		Mr	A L.L. 1	Male	09-01-2000	7875554821	gowdaabhishek527@gmail.com	Aadhar ID	412250389587
		Mr	A 14	Male	21/01/2000	6366663236	akhilambrose48@gmail.com	Aadhar ID	687069008078
	CAN_16920631	Mr			06-02-2000	9507442440	amansingh715.as@gmail.com	Aadhar ID	669843608327
	CAN_17340093	Ms	D 1 11 1	Female	30/05/2001	6201185818	amityadav77792@gmail.com	Aadhar ID	604985930665
6	CAN_17091355	Mr	0:	Male	10-11-2000	9322957985	rritdeep@gmail.com	Aadhar ID	998222584471
7	CAN_17080012	Ms	Kavya H S	Female		7908293139	groupcaptain90@gmail.com	Aadhar ID	874381954008
8	CAN_17121543	Mr	10: 2.5	Male	15/08/2002 21/09/2000	8088370691	kavyah8691@gmail.com	Aadhar ID	247931678590
9	CAN_17072457	Mr		Male	16/06/2002	7899135025	kirancb012345@gmail.com	Aadhar ID	544323871823
10	CAN_17056702	Ms	NA TI	Female	25/03/2000	9390440236	narasimhamannuru16@gmail.com	Aadhar ID	351164647003
11	CAN_16915594	Mr	11 11		08-02-2000	9148207597	marydomnic9148@gmail.com	Aadhar ID	376299695085
12	CAN_17062323	Mr		Male		9739597360	mohanmadan240@gmail.com	Aadhar ID	859547215434
13	CAN_17087365	Mr	Nelapati Sumanth	Male	26/02/2000	8453537642	chalapathinaveen2000@gmail.com	Aadhar ID	774660798158
14	CAN_17060490	Ms	Pooja C	Female		9347152525	sumanthnelapati74@gmail.com	Aadhar ID	510153133242
15	CAN_16879358	Ms	Puja Mallanagouda Patila	Female	16/01/2001 11-04-1999	7760395503	poojagowda1610@gmail.com	Aadhar ID	947803374990
16	CAN_16876580	Mr	Rahul D	Male		7760140400	pujapatila99@gmail.com	Aadhar ID	791206206684
17	CAN_17088400	Ms	S R Sushmitha	Female	15/08/1999	7353416381	rahulgowda872@gmail.com	Aadhar ID	955516493849
18	CAN_17061990	Mr	Sai Kiran G	Male	05-01-1998	9380308435	sushmitha.sr1998@gmail.com	Aadhar ID	722618353492
19	CAN_17056053	Mr	Sai prashanth S	Male	18/01/2002	7483388120	saik63577@gmail.com	Aadhar ID	657448715436
20	CAN_16997704	Mr	Saikat Barman	Male	20/08/2000	9738736073	saiprashanth018.spj@gmail.com	Aadhar ID	718824519221
21	CAN_16876591	Mr	Sanjay K S	Male	11-11-1999 10-03-2000	8348370525	saikatbrmn@gmail.com	Aadhar ID	403843306359
22	CAN_16879830	Ms	Shankramma Mallanagoud		24/08/1998	7892927125	Sanjaysnaljunda@gmail.com	Aadhar ID	816089841957
23	CAN_17108986	Mr	Sharath R	Male	24/08/1998	7337625063	shankrammapatil98@gmail.com	Aadhar ID	892153791672
24	CAN_16877310	Mr	Shivakumar D N	Male	14/05/2001	9738244244	sharath.zorak@gmail.com	Aadhar ID	683685821399
25	CAN_16876811	Ms	Sushma S B	Female	31/10/1998	9632998992	Shivagowdry7401@gmail.com	Aadhar ID	601067033214
26	CAN_17340412	Ms	Tejaswini p	Female	17/05/2000	8660074994	sushma31@gmail.com	Aadhar ID	944107982506
27	CAN_17074588	Mr	Viresh Hiremath	Male	28/06/2000	9606248692	tejaswiniteju1705@gmail.com	Aadhar ID	385630798796
28	CAN_16877610	Mr	Yeshwanthh Kumar S A	Male	13/05/1998	6362808776	hiremathviresh65@gmail.com	Aadhar ID	872599472452
29	CAN_17282668	Ms	Sramana bhattacharya	Female	28/06/2000	7996626387 6294423589	sayk7264@gmail.com	Aadhar ID	788888162573
30	CAN_17308004	Ms	Varshitha K R	Female	24/04/2002	7722051472	sbhattacharya200028@gmail.com	Aadhar ID	998775077782
31	CAN_17307872	Ms	Priya Darshini M S	Female	11-12-2001	8197270213	varsha288@gmail.com	Aadhar ID	923970254862
32	CAN_17308716	Ms	Shikha Kumari	Female	08-09-2002		priyapriya76901@gmail.com	Aadhar ID	543371329715
33	CAN_17324278	Ms	Rambati Reang	Female	29/12/1997	7461078757 9366878100	shikhamfbkumari@gmail.com	Aadhar ID	237711586045
34	CAN_17280704	Mr	afsal a	Male	01-08-2000		mambatireang47@gmail.com	Aadhar ID	778661078528
35	CAN_17126430	Mr	akash kumar singh	Male	13/04/1997	9605401652	afsal001ali@gmail.com	Aadhar ID	696862134261
36	CAN_17091362	Mr	Amit Kumar Singh	Male	04-09-1999	7056908310	akashkrs449@gmail.com	Aadhar ID	659680877437
37	CAN_17090075	Mr	Bharath K L	Male	22/11/1998	9606244852 9986086636	remosingh25@gmail.com	Aadhar ID	598049433709
38	CAN_17072452	Mr	Bharath Kumar K	Male	01-11-2000	8123671570	bharathgowda6030@gmail.com	Aadhar ID	646457477760
39	CAN_17280878	Mr	dheeraj k	Male	14/09/2000		bharathkumarnaik2@gmail.com	Aadhar ID	738854967258
40	CAN_17281390	Mr	firdoush ansary	Male	02-01-1999	7975942920 6294558949	dheerajaithal1409@gmail.com	Aadhar ID	328004264900
41	CAN_17127532	Mr	G Bhanupriya	Female	02-01-1999	7795630580	mdfirdoush9932@gmail.com	Aadhar ID	590573649580
			1	. ciriaic	02 04-1337	1,130202020	bhanu1025priya@gmail.com	Aadhar ID	812672756277

12	CAN_17275705	Mr	Jubin sinha	Male	16/04/2001	8638550525	sinhajubin96@gmail.com	Aadhar ID	636021915326
	<del>, , , , , , , , , , , , , , , , , , , </del>	_							and these was
3	CAN 47204727	T	1			IT JSD Batch 2			The state of the s
14	CAN_17281727	Mr	md imran alam	Male	01-01-1999	8002830931	imonweb74@gmail.com	Aadhar ID	392536140082
45	CAN_17089663	Mr	Prarthan S Bannanje	Male	24/04/1998	8310931731	prarthansb6@gmail.com	Aadhar ID	75777714007
46	CAN_17281430	Mr	raushan kumar shrivastava	Male	20/05/2002	9504704264	raushankr6789@gmail.com	Aadhar ID	819637073810
47	CAN_17280756	Mr	rupesh kumar sah	Male	17/06/1999	8088956491	therupeshsah@gmail.com	Aadhar ID	478601862159
47	CAN_17278465	Mr		Male	28/02/1998	8102154061	SY5068121@gmail.com	Aadhar ID	220706986774
48 49	CAN_17281978	Ms	sneha josphin	Female	17/05/2001	8296715855	snehajoesphin@gmail.com	Aadhar ID	
	CAN_17281470	Mr	tashi wangyal bhutia	Male	04-03-1999	7872193708	tashiwangyal1999@gmail.com		939586328319
50	CAN_17281532	Mr	ujjal sarkar	Male	21/05/2002	9679407001	ujjalsarkar6598@gmail.com	Aadhar ID	628370264379
51	CAN_17074619	Mr	Varun K	Male	18/05/1999	9035428678	varungowda165757@gmail.com	Aadhar ID	323511898318
52	CAN_17278242	Ms	Bhoomika R	Female	31/07/2001	8088301266	bhoomikaramesh31@gmail.com	Aadhar ID	266125468426
53	CAN_17286337	Ms	Thejaswini B	Female	28/05/2001	9019805691	thejaswinib28@gmail.com	Aadhar ID	988674071530
54	CAN_17308846	Mr	Gagan Kumar	Male	22/06/2000	9380771213	gagankumasi220622000	Aadhar ID	832484667305
55	CAN_17318175	Mr	Ashish Yadav	Male	14/04/1999	8867662637	gagankumari22062000@gmail.com	Aadhar ID	822556105424
56	CAN_17340255	Ms	Emdorka syiem	Female	25/02/2000	9089704266	ay471448@gmail.com	Aadhar ID	220559610688
57	CAN_17126431	Ms	Harshitha V S	Female	23/07/1998	8861044697	Emdorkasyiem1@gmail.com	Aadhar ID	436986592114
58 59	CAN_17072111	Mr	Aanand kumar Chaudhary	Male	16/06/2000	9945040398	lharsh2017@gmail.com	Aadhar ID	383220561276
60	CAN_17098380	Mr	Abhiraj Sharma	Male	12-01-2000	6200188751	aanandchauthary111@gmail.com	Aadhar ID	263531308537
61	CAN_17254324	Mr	Ajay Kumar Pandey	Male	24/03/1998	8660772581	abhirajs245@gmail.com	Aadhar ID	527653514204
62	CAN_17072568	Mr	Akshay Kumar Rana	Male	15/07/2000	7002779687	ajaypandey900@gmail.com	Aadhar ID	524538916550
63	CAN_17340088	Mr	Akshay Utture	Male	06-10-2000	8792573108	ranaakshay66607@gmail.com	Aadhar ID	656071617040
64	CAN_17114161	Mr	Amit kumar	Male	26/01/2000	9135236249	uttureakshay108@gmail.com	Aadhar ID	221118074096
65	CAN_17257116	Mr	Anurag Paul	Male	31/07/1999	8812955571	mitkumar91352@gmail.com	Aadhar ID	201561432687
66	CAN_17063359	Ms	Anusha S	Female	05-02-2000	7406641144	anuragpaulofficial@gmail.com	Aadhar ID	945101447780
67	CAN_17282685	Ms	anusha s	Female	11-03-2000	8310942748	amusna1870@gmail.com	Aadhar ID	
68	CAN_17275413	Ms	B R Usha	Female	16/10/2000	9620717017	anushasuneel3079@gmail.com	Aadhar ID	795159750504
69	CAN_17394055 CAN_17280706	Ms	Barsha Goswami	Female	10-06-2000	8095104413	brusha2000@gmail.com	Aadhar ID	633313454149
70	CAN_17114168	Mr	barun roy	Male	12-10-2000	7980052659	Barshagoswami321@gmail.com	Aadhar ID	988349997265
71	CAN_17114168	Ms	Bhagyashri Gyanagoudra	Female	15/04/2001	8088250724	royv22514@gmail.com	Aadhar ID	444478645558
72	CAN_17281389	Mr	Bibek Modak	Male	25/03/2001	7829102144	bhagyashribhagyashari@gmail.com	Aadhar ID	713904782411
73	CAN_17417587	Mr	Chandan k kortekar	Male	30/01/2001	7406244916	Bibekmodak123@gmail.com	Aadhar ID	750041250080
74	CAN_17133809	Mr	Chandan Kumar B N	Male	04-03-2000	8296919244	ckortekar93@gmail.com	Aadhar ID	568846632776
75	CAN_17284858	Mr	Devendra Kumar Sahu	Male	25/04/2001		Chandana3@gmail.com	Aadhar ID	499543866426
76	CAN_17282314	Mr	dilip k	Male	05-07-1996	9926783433	devendra0039@gmail.com		355830363532
77	CAN_17282448	Mr	elias ali	Male		8867827841 6002082526	dilipkrishna366@gmail.com	Aadhar ID	533568629994
78	CAN_17255620	Mr	gurudarshan r	Male	06-08-2001	9590222378	eliasali086@gmail.com	Aadhar ID Aadhar ID	676579361365
79	CAN_17282153	Ms Ms	Harshini S	Female			dguru6117@gmail.com		877375095165
80	CAN_17284765	Mr	harshitha m r	Female			harshiniharshu32302@gmail.aa	Aadhar ID	654471625115
81	CAN_17278293	Mr	hemanth s	Male	18/08/2001	7233302473	narshitharamesh2001@gmail.com	Aadhar ID	756443184770
		Livii	Inzamam Ali Khan	Male	18/02/2000		memanths1848@gmail.com	Aadhar ID	770056746299
					,	0202203894	inzamam786khan@gmail.com	Aadhar ID Aadhar ID	741366031661

02	CAN 17275146	Mr	Inman AA A					•	
02	CAN_1/2/3146	IVII	James M Augustine	Male	03-03-1995	19605506558	jameswayne08@gmail.com	Aadhar ID	968724723970
83	CAN 17072018	Mr	Januar Cutar				Junicswayneoo@gman.com	Addital ID	308/24/239/0
0.5	CAN_1/0/2018	IVII	Jeevan Sutar	Male	06-11-2000	7086807531	jeevansutar1233@gmail.com	Aadhar ID	201765005007
84	CAN 17255060	Ms	Keerthana S			7000007331	Jeevansatai 1255@ginan.com	Adulial ID	201765005987
- 04	TCAN_1/233000	INIZ	Reermana 5	lFemale	28/11/2000	9108684381	keerthanas720@gmail.com	Aadhar ID	E1EE0C42E0C0
					//	3100004301	reer thanas/20@gman.com	Addital ID	515586435960

						RRIT batch 3	3		
		Mr	Kiran D A	Male	29/01/1999	7090429015	kiranda2901@gmail.com	Aadhar ID	920450991464
	CAN_17126479	Mr	Kiran Kumar V C	Male	05-07-2000	6361955868	kiranvc0@gmail.com		829459881461
	CAN_17275673	Ms	krupa p o	Female	11-12-2000	8296887539	krupaonkarmurthy1211@gmail.com	Aadhar ID	723589711101
	CAN_17282594	Mr	likhith gowda k	Male	15/10/2000	9606849258		Aadhar ID	372108001305
89	CAN_17065692	Mr	Lochan K B	Male	22/05/2001	8088881565	klgowda2000@gmail.com	Aadhar ID	512231991157
90	CAN_17254897	Mr	Madhu L	Male	28/05/1997	8310096700	lochanbojappa@gmail.com	Aadhar ID	751025369389
91	CAN_17128207	Mr	Nawaz sharief	Male	15/01/2002	7676276771	madhul874@gmail.com	Aadhar ID	469031137179
92	CAN_17275810	Mr	P VIGNESH	Male	29/07/2000		nsharief330@gmail.com	Aadhar ID	630732467513
93	CAN_17377587	Mr	Pramodh S	Male	31/05/2001	8660724770	vignesh.rocks050@gmail.com	Aadhar ID	538795487630
94	CAN_17067784	Ms	Priya C Y	Female		7483102223	Pramodhraj3105@gmail.com	Aadhar ID	850300125171
95	CAN_17284876	Mr	Rijin Raj	Male	06-09-2001 19/06/2000	8197165943	priyayashwanth25@gmail.com	Aadhar ID	509886808721
96	CAN_17123516	Mr	Rishav Kumar	Male		9742333375	rijinraj1906@gmail.com	Aadhar ID	207059350918
97	CAN_17063616	Mr	Roshan Kumar Pandit	Male	06-08-2001	8789779469	mkrishavraj7088@gmail.com	Aadhar ID	951153075034
98	CAN_17281480	Mr	Sandeep b t	Male	09-08-1997	8002593082	roshanrpandit@gmail.com	Aadhar ID	750005099741
99	CAN_17131517	Mr	sapna singh	Female	29/04/2000	7899752806	sandeepbt8888@gmail.com	Aadhar ID	641270406318
100	CAN_17119452	Mr	Satyajit paul	Male	29/09/1996	9136020929	sapnasingh1429@gmail.com	Aadhar ID	482421387369
101	CAN_17090006	Mr	Shaik Roshini	Female	04-05-2001	8638383548	subrajit1616@gmail.com	Aadhar ID	265056039744
102	CAN_17112018	Mr	Shashank S	Male	07-02-2001	9886940702	roshinirosh562@gmail.com	Aadhar ID	480451169299
103	CAN_17268884		Shreya Bajpai	Female	07-08-2001	7975768248	ss4335456@gmail.com	Aadhar ID	624102359717
104	CAN_17275827	Mr	suman kumar dey	Male	28/03/1999	7349598114	2899shreya@gmail.com	Aadhar ID	268674791599
105	CAN_17138258	Ms	Tanima Mondal	Female	20/11/1999	9732458960	suman_skd12@gmail.com	Aadhar ID	218103889427
106	CAN_17326167	Mr	Tushar Pari	Male	23/08/2001 10-09-2002	9632428863	tamimon2381@gmail.com	Aadhar ID	324826501145
107	CAN_17340370	Ms	Anupama R pillai	Female		9749905067	tusharpari2002@gmail.com	Aadhar ID	
108	CAN_17257318	Ms	Chandana B	Female	30/07/2001	7025031929	Anupama3072001@gmail.com	Aadhar ID	896099398396
109	CAN_17254359		Darshitha D	Female	09-01-1999 25/12/2000	7676002119	Chandananayak333@gmail.com	Aadhar ID	891408472078
110	CAN_17268983		Deep mandal	Male	04-03-2000	9902244473	Darshithagowda0225@gmail.com	Aadhar ID	349985356321
111	CAN_17390550		Gowtham K M	Male	15/09/1997	9002806477	Deepmandal63@gmail.com	Aadhar ID	871913405887
112	CAN_17275505		Helda Vinitha P	Female	01-01-2002	8147774151	Gowthamescn@gmail.com	Aadhar ID	418781114809
113	CAN_17326070		MD Arman Khan	Male	12-02-1999	8660839011	vinithahelda23@gmail.com	Aadhar ID	742687843944
114			Meghashree M S	Female	15/09/2001	7739477235	arman18969@gmail.com	Aadhar ID	770410371926
115 116			Monika S	Female	29/06/2001	9108801764	Meghgowda15@gmail.com	Aadhar ID	386910088462
117	97.11-17.331345		Nandita banik	Female	15/09/1999	7337736074	monika.290601@gmail.com	Aadhar ID	927262997458
118		5 Mr	P Suhas	Male	18/11/1999	9366922887	Nanditahnaik1999@gmail.com	Aadhar ID	486187445612
110		6 Ms	Pooja N	Female	07-08-2000	8073056349	suhasnayaka81@gmail.com	Aadhar ID	255580221642
120		6 Ms	Pranitha H	Female	20/10/1999	8431040050	poojapuu352@gmail.com	Aadhar ID	274116644210
12:	17 20203	0 Ms	Priyadarshini H	Female	28/01/2000	9986082866	Pranithatraj1998@gmail.com	Aadhar ID	863840000958
	CAN_1728095	4 Ms	Rakshitha	Female	03-05-2000	9663587907	priyadarshinih651@gmail.com	Aadhar ID	547334575831
					130 03 2000	9945385412	rakshitharashmi2000@gmail.com	Aadhar ID	981578811177
								p admar ID	650816814438

124 CAN_17340226 Mr 125 CAN_17257866 Mr 126 CAN_17390496 Ms 127 CAN_17308004 No	Rakshitha S V Female Sahana R Female Venkatesh S Male Vishal Iallan Tiwari Male Vismaya V K Female Varshitha K R Female	31/03/2001 78925; 26/01/2002 994576 25/12/1999 86572; 25/12/1999 09433	28717 Sahanag674@gmail.com 58878 Venkappu7643@gmail.com Vishallallantiwari@gmail.com	Aadhar ID Aadhar ID Aadhar ID Aadhar ID Aadhar ID	265053471884 252700428511 911016470756 596422165901 471227098425 923970254862
					923970254862



## R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka, Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electronics and Communication Engg.

Date:07-09-2022

## Report

"NSDC Certificate Programme on Junior Software Developer"

Event Date: 30-03-2022 to 11-06-2022

Venue: Offline in RRIT Campus

Resource Person: 1. Mr. Mohammad Suhail

Trainer, UTL Technologies

### 2.Ms.Vandana B

Trainer, UTL Technologies

#### Overview:

The ERICA -Association of ECE and EEE in collaboration with UTL Technologies Ltd, Bangalore had Organized a Certification Programme in following areas COMMAND LINE INTERFACE, GIT HUB, SCRUM, HTML, CSS, BOOTSTRAP, JAVASCRIPT, REACT JS, SQL, JAVASCRIPT

#### **Topics Covered:**

Command-Line Interface (CLI) The CLI provides the most granular control over the platform through straightforward interaction with the operation system (ScreenOS).

## 1. Basics of Programming Like

- Variables
- Data types
- > Functions

**Code Foundations** 

Operators

## 2. Software Development Life Cycle (SDLC)

- > SDLC Models
- > Phases of SDLC
- > Methodologies

## 3. Introduction to HTML and its Elements

- > HTML
- > HTML Tags
- > HTML Structure
- > HTML Elements
- > DOM Structure
- > Frond End Web Development

#### 4. Introduction to CSS-Cascading Style Sheet

- > CSS is a language used for describing the presentation of a document written in a markup language such as HTML, XML (Including XML dialects such as SVG, MathML or XHTML)
- ➤ Box Model
- ➤ Visual Rules
- > Font Families
- > Colour Properties
- > Attributes

#### 5. Introduction to SQL Language

- ➤ SQL is a domain specific language used in programming and designed for managing data held in relational database management system or from stream processing in a relational data stream management system.
- > SQL Statement
- Queries
- ➤ SQL Operators
- ➤ SQL Syntax
- Creating a Table.
- > Conducted exam from June 26th to 28th of 2022.
- > 120 Students got benefitted and 102 students got Certificate.







Bignature of Coordinator

Signature of HOD

3/9/2022

HOD of Electronics & Communication

HOD of Electronics & Communication R.R. Institute of Technology Hesaraghatta Main Road, Chaikkabanavara, Fangalom - 90.



12:53 PM

#### Search mail

#### Compose

Inbox

Starred

Snoozed

Important

Sent

Drafts

7

Categories

5th SEM More

Meet

**New meeting** 

Join a meeting

Hangouts

Sunanda 🤝

Ravindra Reddy Sent a message

## Fwd: Final Assessment Candidate Detail

RRIT ECE

to me

-------Forwarded message -------From: **RRIT ECE** <<u>ece@rrinstitutions.com</u>>

Date: Sat, 18 Jun, 2022, 8:07 pm

Subject: Fwd: Final Assessment Candidate Details for RRIT College To: RRIT CSE < <a href="mailto:cse@rrinstitutions.com">cse@rrinstitutions.com</a>, RRIT ISE <a href="mailto:sse@rrinstitutio">ise@rrinstitutio</a>

------Forwarded message -------From: **info** <<u>info@utltechnologies.com</u>>

Date: Sat, 18 Jun, 2022, 1:19 pm

Subject: Final Assessment Candidate Details for RRIT College
To: <a href="mailto:ece@rrinstitutions.com">ece@rrinstitutions.com</a>, <a href="mailto:mohankumarbn1@gmail.com">mohankumarbn1@gmail.com</a>, <a href="mailto:mohankumarbn1@gmail.com">Mohankumarbn1@gmail.com</a>, <a href="mailto:mohankumarbn1@gmail.com">mohankumarbn1@gmail.com</a>,

Siddhalingeshwarappa L <<u>siddu.l@utltechnologies.com</u>>, Suhail <<u>s</u>i <<u>marketing@utltechnologies.com</u>>, Pavithra Vk <<u>pavithravk11@gm</u>

Dear Sir/Madam,

Find the attached sheet Batch wise candidates list and find t Batch 2086025- 21<sup>st</sup> June 2022

Batch 2084708- 22<sup>nd</sup> June 2022

Batch 2084408- 23<sup>rd</sup> June 2022

2	CAN_17065692 Lochan K B D	8088881565	B.E.
3	CAN_17067784 Priya C Y	8197165943	B.E.
4	CAN_17090006 Shaik Roshini	9886940702	B.E.
5	CAN_17112018   5hashank S   10	7975768248	B.E.
6	CAN_17119452 Satyajit paul	8638383548	B.E.
7	CAN_17123516 _ Rtshav Kumar	8789779469	B.E.
8	CAN_17126479 Kiran Kumar V C	6361955868	B.E.
9	CAN_17128207 Nawaz sharief	7676276771	B.E.
10	CAN_17131517 Sapna singh	9136020929	B.E.
11	CAN_17138258 Tanima Mondal	9632428863	B.E.
12	CAN_17252466 Pranitha H	9986082866	B.E.
13	CAN_17254359 Darshitha D $\gamma$	9902244473	B.E.
14	CAN_17254515 _ Kiran D A	7090429015	B.E.
15	CAN_17254897 - Mádhu L	8310096700	B.E.
16	CAN_17255764 Rakshitha h s	6361374881	B.E.
17	CAN_17257096 Rakshitha S V	9632487690	B.E.
18	CAN_17257318 Chandana B	7676002119	B.E.
19	CAN_17258806 Meghashree MS 9	9108801764	B.E.
20	CAN_17259178 Sahana R 0	7892528717	B.E.
21	CAN_17268884 Shreya Bajpai	7349598114	B.E.
22	CAN_17268983 Deep mandal	9002806477	B.E.
23	CAN_17275505 Helda Vinitha P P	8660839011	B.E.
24	CAN_17275673 krupa p o	8296887539	B.E.
25	CAN_17275810 P VIGNESH	8660724770	B.E.
26	CAN_17275827 suman kumar dey	9732458960	B.E.
27	CAN_17280726 -Pooja N	8431040050	B.E.
28	CAN_17280954 Rakshitha	9945385412	B.E.
29	CAN_17281480 Sandeep b t	7899752806	B.E.
30	CAN_17282030 Priyadarshini H	9663587907	B.E.
31	CAN_17282594 Hikhith gowda k	9606849258	B.E.
32	CAN_17292125 P Suhas		B.E.
33	CAN_17308004 Varshitha K R	7722051472	
34	CAN_17326070 MD Arman Khan		B.E.
35	CAN_17326167 Tushar Pari		B.E.
36	CAN_17340226 Venkatesh S	9945768878	
37	CAN_17340370 Anupama R pillai		B.E.
38	CAN_17377587 Pramodh S		
39	CAN_17390550 Gowtham K M		B.E.
40	CAN_17391949 Nandita banik		B.E.
		9300922887	B.E.

SI No	Candidate ID	Batch Name		15000
1	CAN_17063359	Anush	2084708	
2	CAN_1/0/2018	loous a	Contact No	Quali
3			7406641144	B.E.
4	CAN_17072568	Adhand kumar Chaudhary  Akshay Kumar Rana	7086807531	B.E.
5	CAN_17074619		9945040398	
6	CAN_17089663	raidil K	7002779687	
7	CAN_17098380	Bannanie 🛪	9035428678 831093173	
8	CAN_17114161	- Thairna	620018875	
9	CAN_17114168	The Raillai	913523624	
10	CAN_17126431	Bhagyashri Gyanagoudra Harshitha V S	808825072	
11	CAN_17133809	The state of the s	886104469	
12	CAN_17254324	Devendra Kumar Sahu Ajay Kumar Pandey	992678343	
13	CAN_17255060	Keerthans S	86607725	
14	CAN_17255620	Harshini S	91086843	
15	CAN_17257116	Anurag Paul	95387527	
16	CAN 17261292	2 Bibek Modak	88129555	71 B.E.
17	CAN 17275146	James M Augustine	78291021	
18	CAN_1727541	B B Lisha	96055065	
19		2 Bhoomika R	9620717	
20			8088301	266 B.E.
21	CAN 1727829	3 Inzamam Ali Khan	6202265	894 B.E.
22		5 SHANKAR KUMAR YADAV	8102154	061 B.E.
		6 barun roy	7980052	2659 B.E.
23		6 rupesh kumar sah	808895	5491 B.E.
24		9 Chandan k kortekar	740624	4916 B.E.
25		raushan kumar shrivastava .	950470	4264 B.E.
26	CAN_1728153	32 ujjal sarkar —	967940	7001 B.E.
27	CAN_1728172	27 md imran alam — -	800283	80931 B.E.
28	CAN_1728197	78 sneha josphin	829673	15855 B.E.
29	CAN_172821	harshitha m r		62475 B.E.
30	CAN_172823	14 elias ali	60020	82526 B.E.
31	CAN 172824	48 gurudarshan r	95902	22378 B.E.
32	CAN 172826	,		942748 B.E.
33		65 hemanth s		063548 B.E.
34				805691 B.E.
		Thejaswini B		771213 B.E
35	CAN_173088			662637 B.E
36				
37	CAN_173400			2573108 B.E
38	CAN_17340	255 Emdorka syiem		9704266 B.I
39	CAN_17394	055 Barsha Goswami		5104413 B.I
40	CAN 17417	587 Chandan Kumar B N	829	6919244 B.



आईटी-आईटीईएस सेक्टर स्किल्स काउंसिल

IT-ITES SECTOR SKILL COUNCIL

राष्ट्रीय व्यावसायिक शिक्षा एवं प्रशिक्षण परिषद

मान्वता प्राप्त

(Recognised by NCVET)

प्रमाणपत्र

**CERTIFICATE** 



Certificate No: ABKAA002160648-023238

प्रमाणित किया जाता है कि								
This is to certify that				Ms. Tejas	wini P			
सुपुत्री				आधार संख्या		•		
Daughter of		K Prabhu		Aadhaar No.		XXXXXXXX	8796	
ने अहर्ता / जॉब रोल				_				
for qualification			Junio	or Software	Developer			
अवधि		राष्ट्रीय कौरत योग्यता सं	रचना स्तर					
of Duration	400 Hrs	National Skills Qual	lifications Framew	ork		Level 4		
प्रशिक्षण केन्द्र				जिला		सुज्य		
Training Centre		Utl Abalashrama		District	Bengaluru Urban	State	Karnataka	
का आकलन सफलतापूर्वक			प्रतिशत / श्रेणी के	साथ उत्तीर्ण किया।		-		
has successfully cleared	ed the assessmen	t with B	grade.					



जारी करने का स्थान

্র-ভাগন ডিক - Verification for

e-Verification fink https://www.skiffindia.gov.in/documentverification.usdcindia

06.09.2022

जारी करने की तिथि

PM VY



TO Designation Changerson

Utter Pradesh Date of Issue:

#### Encl:02



PKM Educational Trust ®

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi ,Recognized by Govt. of Karnataka Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of ECE and EEE

#### ORGANIZING COMMITTEE

**Chief Patron** 

Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

Patron

Sri Kiran H.R.

Secretary, PKMET, Bengaluru

Sri Arun H.R.

Director, PKMET, Bengaluru

Administrators

Prof. Maya Salimath G

Director QAC -R. R. Institutions

Chair Person

Dr. Mahendra K V

Principal, R. R. I. T, Bengaluru

Convener

Dr. Sunitha H D

Professor & Head,

Department Of ECE

Organising Secretary

Prof. Parimala Gandhi G

Asociate Professor, ECE

Prof. Mohan Kumar B N

Assistant Professor, ECE

**Organising Committee Members** 

Prof.Sunanada C V

Assistant Professor, EEE

Prof.Gautham G

AssistantProfessor, EEE

**Student Members** 

7<sup>th</sup> sem Mr.Ajay 7<sup>th</sup> Sem Mr.Adarsh M P

7<sup>th</sup> Sem Ms. Sushma V

5<sup>th</sup> Sem Ms. Tejaswini P

5th Sem Mr. Sai Prashanth

3rd Sem Ms.Pooja

#### ERICA - Association of ECE & Dept of Electrical and Electronics

Invites you all for the 6 Days Certificate Programme

"Introduction to python and its applications"

Date: 21/12/2020 to 28/12/2020

From: Monday to Monday

Platform: Microsoft Teams

CHIEF GUEST

Dr. Mahendra KV

Principal,

R. R. I. T. Bengaluru

RESOURCE PERSONS

### 1. Dr. Nageswara Guptha

Head IOAC, Senior Associate Professor School of Computing Science and Engineering VIT Bhopal University,

#### 2. Prof. Chandran Venkatesan

**Assistant Professor** Department of Electronics and **Communication Engineering** KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu

CO-ORDINATORS

Signature PRINCIPAL

"To be a premier Institute with excellence in the field of Engineering and Management education at National Level by 2020"

#### ERICA -ASSOCIATION of Electronics and Communication



Is Organizing

6 Days Certificate Programme on

"Introduction Python and its Applications"



21st to 28th December 2020



## Resource Persons

1. Dr. Nageswara Guptha

Head IQAC, Senior Associate Professor School of Computing Science and Engineering VIT Bhopal University

2. Prof. Chandran Venkatesan

Assistant Professor
Department of Electronics and
Communication Engineering
KPR Institute of Engineering and Technology,
Coimbatore, Tamilnadu

#### **PARTCIPANTS:**

The Students of Electronics and communication Engineering & Electrical and Electronics Engineering .

E Certificate will be issuing at the end of the programme for all the participants.

#### **Chief Patron:**

Sri Y. Raja Reddy Chairman, PKMET, Bengaluru

#### Patrons:

Sri Kiran H.R. Secretary, PKMET, Bengaluru Sri Arun H.R Director, PKMET, Bengaluru

Prof. Maya Salimath G Director QAC-R R Institutions

#### **Chair Person:**

Dr. Mahendra K V Principal, RRIT, Bengaluru

#### Convener

Dr. Sunitha H.D Professor & HOD, ECE, RRIT

#### **Organizing Secretaries**

- 1. Prof. Parimala Gandhi G Associate Professor, ECE
- 2. Prof. B N Mohan Kumar Assisstant professor, ECE

#### Coordinators

- 1. Sunanda C V Assistant professor, EEE
- 2. Gowtham, G Assistant professor, EEE

#### Contact

1. Prof. B N Mohan Kumar

Mobile: +91-9035190425,

E- mail id: mohankumarbnıgmail.com

2.Prof.Gautham G

Mobile:+91-9494925797

Registration Fees: 100Rs

Payment Details is provided in the Registration link

Registration link:

https://forms.gle/VA6X2TSH8x1mfd2M7 Staff Advisory: Dept of ECE & EEE

#### R R Institute of Technology Accredited by NAAC



6 days Certificate Programme on "Introduction to Python and Ita Applications"



21ST DECEMBER 2020,

Monday - 28<sup>TH</sup> DECEMBER 2020, Saturday.



### Organized by

ERICA- Association Of ECE and Department of Electrical & Electronics Engineering R R Institute of Technology

Raja Reddy layout, Chikkabanavara, Bangalore-560090

#### RR INSTITUTE OF TECHNOLOGY

R R Institutions, setup with a mission of imparting education to all sections of society, was established in the year 1993 to render highest standards of academic achievement with moral and social commitments. R R Institutions spread across 27 acres with lush green gardens, for getting a peaceful and serious learning atmosphere, now ushering into Greater Bangalore, being the Head Quarter of Karnataka State, connected by air, rail and roads with all major metropolitan cities of India.

### ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in the year 2008 from the inception of the college. The department has a fine blend team of qualified, highly experienced faculty and committed staff members to maintain its position of leadership in Engineering and Technology. The department is currently offering B.E program, and also has well-equipped Research Centre.

#### **DEPARTMENT VISION**

To Impart Technical Education Par Excellence and prepare Leaders to grow beyond leaps and bounds to serve the Growing Industries and Society.

### **DEPARTMENT MISSION**

To train the students to emerge as outstanding skilled technocrats imbibed with professional ethics engineering and managerial skills with commitment to the society and nation at large.

### OBJECTIVE OF THIS CERTIFI-CATE PROGRAMME

The main aim of this Programme is to provide Basic knowledge of Python.

A Python programming is intended for software engineers, system analysts, program managers and user support personnel who wish to learn the Python programming language.

### PROGRAM SCHEDULE:

DAY: 21st TO 28th DEC 2020

Resource Person: Prof. Chandran Venkatesan

21-12-2020 - Monday

Day 1: Introduction to Python

22-12-2020 - Tuesday

Day 2: Python Structure

23-12-2020 - Wednesday

Day 3: Tuples and Accessing Dictionary of Python

Resource Person : Dr. Nageswara Guptha

24-12-2020-Thursday
Day 4:Functions and Modules of
Python

26-12-2020-Saturday

Day5: GUI- Programming using Python

Resource Person: Prof. Chandran Venkatesan

28-12-2020-Monday

Day6: Hands on:

Working on IOT –One Real time Project



Since 1993

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka,

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Denartment of Electronics and Communication Enga

## Kevised Schodule

#### Topics to be covered

16/12/2020

Dates and	Slot 1	Slot 2	Name of
Days	12.00 pm to 2.00 pm	2.30 pm to 5.30	resource person
Day 1 21-12-2020 Monday	Introduction to Python i) What is python? ii) Why it is being used and popular for? iii) Job opportunities and pay package iv) Setting up python Environment v) Basic statements in python	Hands on session and working on IDLE Mode using Simple commands	Prof. Chandran Venkatesan (Phd)
Day 2 22-12-2020 Tuesday	Python Structure  i) The power of lists, lists methods  ii) Accessing an item to a list, adding an item to a list  iii) Dictionary keys and values a list and a dictionary  iv) Zipping and unzipping dictionary using zip()  v) Dictionary Methods	Hands on session and working on IDLE Mode writing Program using dictionary and list	Prof. Chandran Venkatesan (Phd)
Day 3 23-12-2020 Wednesda y	Tuples i) Accessing values ii) updating tuples iii)Delete tuple elements iv) indexing v) slicing vi) functions like (Len(), Max(), Min(), Tuple())	Hands on session on writing Program in Tuples and function	Prof. Chandran Venkatesan (Phd)
Day 4 24-12-2020 Thursday	Functions, Modules i) Defining a function ii)Calling a function iii) Function argument iv) Default argument v)Return statement vi) Global vs Local variables vii) Import statement viii) From import statement ix) FromImport *statement x) packages	Hands on session on writing Program in function calls and import functions	Dr. Nageswara Guptha
Day 5 26-12-2020 Saturday	GUI- Programming using Python i) Introduction to python ii) ways of creating GUI with python components iii) Displaying a welcome message iv) Widgets and methods like Label, line Edit, Push button Radio button Form checkboxes, Event handlings, working with date and time.	GUI Creation and function Call using import function-project template	Dr. Nageswara Guptha
Day 6 28-12-2020 Monday	Hands on: Working on IOT –One Real time project (with GUI)	Hands on with Project Execution and online test	Prof. Chandran Venkatesan (Phd)

Cuarity Assurance C

R R Institutions, Benealuru - 5600

Signature of Coordinator

Signature of HOD 16/12/2020

IQAC-R.R.Institutions Inward No. 0896 Date 7 12 2020 HOD of Electronics & Communication R.R. Institute of Technology Hesuraghatta Main Road, Chaikkabanavara, Bangalore - 90.



## R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka, Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Denartment of Flectronics and Communication Frag

Date:29-12-2020

## Report

# Six days Certificate Programme on "Introduction to Python and its Applications"

Event Date: 21-12-2020 to 28-12-2020

Venue: Online

**Platform**: Google Meet

Resource Person: 1) Prof. Chandran Venkatesan

Assistant Professor
Department of ECE,
KPR Institute of technology,
Coimbatore, Tamilnadu

2) Dr. Nageswara Gupta

Head IQAC ,Senior Associate Professor School of Computing Science and Engineering VIT Bhopal University

#### Overview:

The main objective of the programme was to provide the basic knowledge of Python and to understand why Python is useful scripting language for developers.

#### **Topics Covered:**

### 1) Prof. Chandran Venkatesan

Day 1: 21-12-2020

- Session started with an introduction to Python, its applications and job opportunities available in the market by Prof. Chandran Venkatesan.
- \* Working on python was elaborated and students were made to practice python commands in idle mode.

#### Day 2: 22-12-2020

- Introduction to Python Structure
- Python structure, Dictionary keys ,values, Zipping and unzipping dictionary methods were discussed.
- Students were made to write a programme using dictionary and list in idle mode and execute.



**Since 1993** 

R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka, Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Flectronics and Communication Faco

#### Day 3: 23-12-2020

- Introduction to Tuples
- \* Tuples structure- Accessing values, updating tuples, delete tuple elements, indexing, slicing, functions like (Len(), Max(),Min(),Tuple() are discussed.
- Students were made to write a programme using Tuples and functions in idle mode.

#### Resource Person: Dr. Nageswara Gupta

#### Day 4: 24-12-2020

- Session was handled by Dr. Nageswara Gupta in continuing the Functions and modules of python structure.
- In the functions: Defining a function, calling a function, function argument, default argument, return statement, global vs local variables, import statement are discussed
- Students were made to write a programme using function calls and import functions in idle mode.

#### Day 5: 26-12-2020

- Introduction to GUI- Programming using python
- \* In GUI, relation between Python and GUI ,ways of creating GUI with python components, displaying a welcome message ,widgets and methods like Label, line edit ,push button radio button from check boxes, event handlings, working with date and time were discussed.
- Students were made to write a programme on GUI creation and function call using import function-project templates in idle mode and excute.

#### Resource Person: Prof. Chandran Venkatesan

#### Day 6: 28-12-200

- ❖ Introduction to Working on IOT and one real time project with GUI
- Problem statement was given to the students and were supported to execute
- ❖ An online test was conducted based on the topics covered during 6 days and e-certificate Was released only to the students who attempted the test Was released only to the students that 43 L

  60 students got benefitted and certificates were released (60% etigibility)

Signature of coordinator

Hesaraghatta Main Road, Chaikkabanavara, Bangalore - 90.

### **Photo Gallery**



- A computer is a machine that stores pieces of information.
- A computer also moves, arranges, and controls that information (or data).
- A program is a detailed set of instructions that tells a computer what to do with that data.

### What is Python:

- Python is a widely used high-level, general-purpose, interpreted, dynamic programming language.
- Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than possible in languages such as C++ or Java.
- Python supports multiple programming paradigms, including object-oriented, imperative and functional programming or procedural styles.
- It features a dynamic type system and automatic memory management and has a large and comprehensive standard library





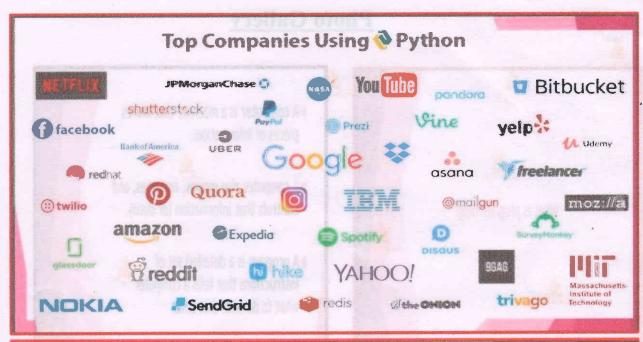


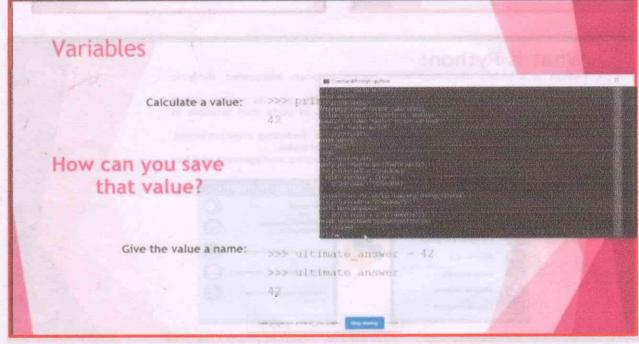
### Job Opportunities and Pay package

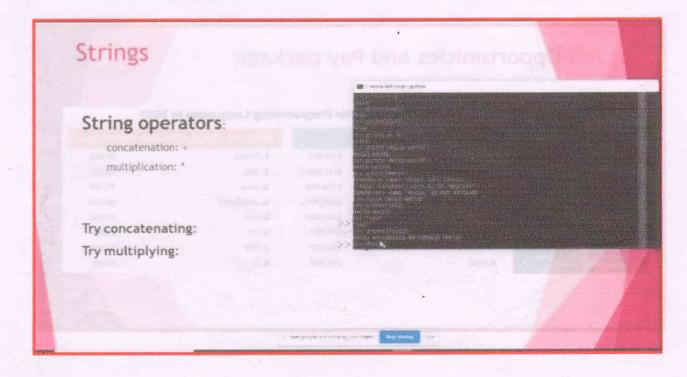


Top	Paving	ared	Most	Popular	Programming	Languages	ens	2020
The second second	B	The state of the s		The second second	and the same of th	The same of the sa		The state of the s

Rank by Average Sala	ry	Rank by Volume of Job Openings					
1. Python	\$119,000	1, Python	50,000				
2. JavaScript	\$117,000	2. SQL	50,000				
3. Java	\$104,000	3. Java	45,000				
4. C	\$103.000	4. JavaScript	38,000				
5. C++	\$102,000	5. C++	29,000				
6. C#	\$97,000	6. C#	21,000				
7, PHP	\$94,000	7, PHP	13,000				
8. SQL	\$92,000	8. C	9,000				









DEP+ OF ECE Registration for Sixdays Certificate Programme on Python 21-12-2012 -28-12-2012 SL.No USN Semester Department College Timestamp **Email Address** Name Mobile No 1RI16EC030 8088622226 Electronics and R R institute of technology 12-17-2020 15:21:44 vichi1399@gmail.com Vignesh Ravichandran 5th 12-17-2020 15:23:39 sbhattacharya200028@gmail SRAMANA BHATTACHA 1RI19EC016 8336922480 3RD RR INSTITUTE OF TECHNOLOGY ECE 1RI19EC008 9390440236 RR INSTITUTE OF TECHNOLOGY 3 12-17-2020 15:29:07 narasimhamannuru16@gmai M P Narasimha 3 12-17-2020 15:52:50 priyankanshindogi@gmail.col Priyanka Nagendra Shind 1RI17EC018 9916052730 VII Electronics and R R Institute Of Technology 1RI16EC010 7760944639 7th semester Electronics and Raja reddy institution of technology 12-17-2020 15:54:07 divyakh1998@gmail.com Divya K H 1RI17EC003 7338101238 RR INSTITUTE OF TECHNOLOGY 12-17-2020 16:24:06 ajayks73381@gmail.com AJAY KS 7th ECE 12-17-2020 16:26:44 dheerajaithal1409@gmail.cor Dheeraj K 1RI19EE004 7975942920 Electrical and IRR INSTITUTE OF TECHNOLOGY 3rd 1RI6EC018 +91733766311 8 12-17-2020 16:35:40 nandeeshreddy66@gmail.cor N Nandeesh Reddy 7 ECE RRIT 12-17-2020 16:42:30 bharathkumarnaik2@dmail.c Bharath Kumar.k 1RI18EE004 733B351948 5th semester Electrical and R.R institute of technology banglore 10 12-17-2020 16:59:18 imon kah25@gmail.com Monika H 1RI16EC017 9380702104 ECE RRIT 7th ECE Yaiwika Sriya.T 1DT17EC099-919618340369 5 Dayanand sagar academy of technology 12-17-2020 17:43:43 yajwikasriya@gmail.com 11 1DT18EC080 7406557739 5th semester Electronics and Dayanandasagar academy of technology 12-17-2020 17:44:51 kavyasajja2000@gmail.com | S Kavya 12 13 12-17-2020 18:34:31 nekkantijayram143@gmail.cd NEKKANTI JAYARAM 1BI18EC087 7022204798 Electronics and Bangalore institute of technology 4UD19MCA6 9164799194 MCA **UBDT** engineering college 12-17-2020 19:54:25 sindhubc122@gmail.com Sindhu BC 5th Kota V Navyapriya 1DT19EC036 7676417356 Electronics and Dayananda Sagar Academy of Technological 15 12-17-2020 21:11:57 navvarishi2001@gmail.com 3 12-17-2020 21:14:56 manojcgowdamys@gmail.co Manoj C 4MN17EC01 9590463778 Maharaja Institute of technology Thanday 16 7th ECE ECE RR institute of technology 17 12-17-2020 21:40:16 sushmitha.sr1998@gmail.cor Sushmitha .SR 1RI6EC035 9380308435 5th 1RI17EC008 7892794001 ECE R R Institute of Technology 12-17-2020 23:25:38 ashal09334@gmail.com 18 Asha L 7th sem ECE RR INSTITUTE OF TECHNOLOGY 1RI18EC008 7760588364 19 12-18-2020 9:47:44 mohanmadan240@gmail.cor Mohan M 5 20 12-18-2020 9:48:12 kirancb0kirancb012345@gm Kiran c b RI18EC006 7899135025 ECE RR INSTITUTE IF TECHNOLOGY 5th Electronic and RR institutions of technology 12-18-2020 9:48:44 marydomnic9148@gmail.com Mary Thomas t 1RI17EC013 9148207597 21 5 22 12-18-2020 9:48:48 koduruanushareddy02@gma Anusha. K 1RI18EC403 7975943507 5 Ece RRIT ECE RRIT 23 12-18-2020 9:49:11 madhuyadav9108@gmail.cor Madhukumar R 1RI19EC401 8105152807 5th 24 7353416381 Electronics and RR institue of technology 12-18-2020 9:49:21 Rahulgowda872@gmail.com Rahul.d 1ri17ec029 5th 12-18-2020 9:49:28 gowdaabhishek527@gmail.c Abhishek Gowda D 1RI18EC001 7975554821 5th ECE RRIT 25 ECE 1RI18EC014 07892927125 26 12-18-2020 9:50:01 sanjaysnanjunda@gmail.com sanjay k s 5 RRIT 27 12-18-2020 9:50:51 saiprashanth018.spj@gmail. SAI PRASHANTH S 9738736073 5th sem ECE RRIT 18 1RI18EC012 8453537642 ECE R R Institute of technology 12-18-2020 9:51:00 chalapathinaveen2000@gma Naveen C 28 1RI18EC009 5th ECE 29 12-18-2020 9:51:22 shivagowdru7401@gmail.cor SHIVA KUMAR D N 9632998992 1ri18ec015 5 RRIT 12-18-2020 9:51:32 tejaswiniteju1705@gmail.com Tejaswini P 1RI18EC016 9606248692 ECE RRIT 30 5th EC 31 1RI16EC005 9980762313 12-18-2020 9:58:53 celestethomas 144@gmail.co Celeste 5th RRIT EC 12-18-2020 10:49:26 celestethomas144@gmail.co Celeste 1RI16EC005 9980762313 RRIT 5th 12-18-2020 11:14:55 swetharajkb@gmail.com Swetha K B Faculty -919986660236 Nil Ise RRIT 1RI16EC008 9620654962 ECE RR institute of technology 12-18-2020 14:19:56 chithrabairanna98@gmail.com/Chithra C 7th sem 34 R. R. I. T. ECF 12-18-2020 14:21:20 imonikah25@gmail.com Monika H 1RI16EC017 9380702104 7th 36 12-18-2020 18:04:41 shankrammapatila98@gmail. Shankramma mallanagow 1RI17EC022 7337625063 5th Electronics and R R institution of technology 12-18-2020 18:42:19 sumapallu080@gmail.com RR Institute of technology Suma R 1RI16EC026 9901927894 5th sem ECE 12-18-2020 19:20:31 prabhakreddy55@gmail.com Prabha k 1ri17ec017 7975942036 ECE RRIT 7th 12-19-2020 16:39:06 akashkrs449@gmail.com Eee Rrit Akash Kumar Singh 1ri18ee001 7056908310 5th 12-19-2020 20:24:11 | Iharsh2017@gmail.com 1RI16EE006 8861044697 5th EEE RRIT Harshitha vs 12-19-2020 20:30:17 tharushovanand@gmail.com Shovanand chaudhary 5th SEM EEE RR INSTITUTION OF TECHNOLOGY 1ri17ee012 9901166308 41 EEE 12-19-2020 20:45:07 shifanaaza1998@gmail.com Shifa Naaz.A 1RI16EE016 9606251353 RRIT 7th 9402377936 EEE RRIT 12-20-2020 0:46:23 emdorkasyiem1@gmail.com Emdorka Syiem 1RI19EE400  $\overline{\mathsf{V}}$ 

1ri17ee003 8105791229

44 12 20 2020 16:46:15 Deoptythana620@gmail.com Deopti Thana

FEE

RR Institute of technology

7th

45	12-20-2020 17:41:51 ay471448@			1ri18ee003	8867662637	5th sem	EEE	18EE018
46	12-20-2020 20:22:34 mohammad			1RI18EE010	9945114069	5th	EEE	R R Institute of technology
47	12-20-2020 22:31:42 amrendratrip		Amrendra tripathi	1ri17ec006	9148089164	7th	Ece	RRIT
48	12-20-2020 23:19:20 pallavisagar		Pallavi MR	1ri17ec015	9538993498	7th	ECE	RR Institute of Technology
49	12-20-2020 23:40:05 007rajmohite	@gmail.com	Mohit kumar Singh	1ri17ec014	7277027314	7th	ECE	R.R. institute of technology
50	12-21-2020 9:10:03   bharathv282	20@gmail.com	Bharath V	1RI17EC009	8792135551	7	ECE	RRIT
51	12-21-2020 9:11:12 mrjoybhown	nik12@gmail.com	Joy bhowmik	1ri16ec012	8296201308	7th	ECE	RRIT
52	12-21-2020 9:18:10   sowmyagr01		Sowmya G R	1RI17EC023	8088052030	7th	ECE	RR institute of technology
53	12-21-2020 10:33:59 rritdeep@gn			1RI19EC002	9322957985	3rd	ECE	RR Institute of Technology
54	12-21-2020 10:34:11 groupcaptain			1RI19EC004	7908293134	3	ECE	R. R INSTITUTE OF TECHNOLOGY
55	12-21-2020 10:37:23 shikhamfpku	ımari@gmail.com	Shikha Kumari	20EC011	8207575536	3	ECE	R.R.Institute of technology
56	12-21-2020 10:57:21 hemanjalian	ju1999@gmail.cd	Hemanjali. R	RI17EE006	9686126296	7th	EEE	RRIT
57	12-21-2020 10:58:05 partik.chaud			1ri17ee007	6362496511	7th	EEE	Rrit
58	12-21-2020 10:58:32 hemanjalian			1RI17EE006	9686126296	7th	EEE	RRIT
59	12-21-2020 10:58:46 sahvikash60	3@gmail.com	Vikash Kumar Sah	1RI17EE016	6361255930	7	EEE	RRIT
60	12-21-2020 10:59:22 ruchithashiv	anna04@gmail.c	Ruchitha \$	1RI17EE010	8105997275	7th	EEE	RR Institute of technology
61	12-21-2020 11:06:04 misbafalakm			1RI16EE009	7259781678	Wan 7	EEE	RR Institute of Technology
62	12-21-2020 11:26:11 anuradhalak			1RI17EC007	9113707714	7	ECE	RR Institute of technology
63	12-21-2020 11:26:14 aishwaryasa		Aishwarya.S	1RI17EC002	8217782789	7th	ECE	RRINSTITUTIONS OF TECHNOLOGY
64	12-21-2020 12:22:50 sushma1669			1RI16EC028	8884845998	7	Electronics and	RR INSTITUTE OF TECHNOLOGY
65	12-21-2020 12:39:16 adarshjohar	123@gmall.com	Adarsha MP	1RI17EC001	8971834347	7th	EcE	RRIT

· Signature of Coordinator

Signature of HOD

Hesaraginatia Main Road, ra a nene ance Chaikkabanavara, Bangatore - 93



# R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt, of Karnataka,

Accredited by NAAC with 'B+'

Rija Reddy Lacout, Chikkabanavara, Bengahiru - 560 090



And Electrical and Electronics Engineering

e- Certificate

This is to certify that Mr. / Ms.

of

has actively participated in Six Days Certificate programme on "Introduction to Python and its Applications" organized by Dept of ECE and EEE, RRIT, Bengaluru, from 21st - 28th December 2020.

l. Kwimb

HOD-ECESEEE

Principal Principal



## R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka Accredited by NAAC with 'B+'

**Department of Civil Engineering** 

#### ORGANIZING COMMITTEE

Chief Patron
Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

Patron

Sri Kiran H.R.

Secretary, PKMET, Bengaluru

Sri Arun H.R.

Director, PKMET, Bengaluru

**Administrators** 

Shri. Prabhakar Rao

Administrator – R. R. Institutions

Prof. Maya Salimath G

Director QAC -R. R. Institutions

Chair Person
Dr. S.G.Bhatt

Principal- RRIT Bengaluru

Convener / Organising Secretary
Dr.G Sankara

Professor and Head, RRIT

**Organising Committee**Staff of Civil Department

## Cordially invites all staff & Students for

#### STUDENT DEVELOPMENT PROGRAM

ON

#### E TABS & REVIT SOFTWARE

On

24/02/2020 to 10/03/2020

Venue: Civil CADD Centre

#### CHIEF GUEST

Sri Y. Raja Reddy

Chairman, PKMET, Bengaluru

#### **GUEST OF HONOR**

Sri Arun H.R.

Director, PKMET, Bengaluru

#### CHIEF GUESTS

Mr. Ameet Gogi, Business Head, CADD Centre

Mrs. Shivani Patil

Signature
CO-ORDINATOR
R \$ Patil, Asst.Prof

Signature PRINCIPAL Dr. S.G.Bhatt



## R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka, Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Civil Engineering Department

Date: 12/03/2020

#### REPORT ON CERTIFICATE COURSE- E TABS & REVIT SOFTWARE

Department of Civil Engineering had organized three weeks certificate course on ETABS Software in Association with CADD Centrefrom 24/02/2020 to 10/03/2020.Dr S.G Bhat - Principal as Chief guest and Mr. Ameet Gogi, Business Head, CADD Centre, Basaveshwarnagar, Bangalore and Mrs. Shivani Patil, Design Associate & Course trainers main speaker for the Inauguration of certificate course. All the staff members from Civil Engineering Department and final year civil engineering students attended the Inauguration. HOD Dr. Sankara and Prof B.A.Ranganathan spoke on the importance of certificate course and presidential address by Principal. Vote of thanks was delivered by Prof Ravi Patil.



The course was conducted over a period of three weeks from 24/02/2020 to 10/03/2020. The classes were conducted 1.30pm to 4.30pm as per schedule in CAD Lab,Civil Engineering Department.Total 22 students of 8<sup>th</sup> semester civil engineering students enrolled to the program and were benefitted by the skills imparted during training.

#### ETABS(Extended Three-dimensional Analysis of Building Systems)

ETABS is a highly efficient analysis and design program developed especially for building systems. ETABS is developed by CSI America. It is loaded with an integrated system with an ability to handle the largest and most complex building models and configurations. The software has powerful CAD-like drawing tools with a graphical and object-based interface. It increases the productivity of structural engineers. It saves a significant amount of time and money over the general purpose programs. The leading structural engineering firms Wood & Grieve Engineers,

Somero Enterprises Inc, Ghafari Associates, LLC, The Library Corporation, Inc., Carey Group PLC, to mention few have extensive used this tool for design of various infrastructure related to interdisciplinary applications.

**Course Objectives** 

The course aims to offer comprehensive knowledge on the ETABS software and its applications. The course will help the candidates to acquire in-depth details about the different procedures and simplified analysis aspects of the design models. The certification converts a candidate into an expert that is ready to work in the civil structures analysis &design industry.

The course contains a number of modules to empower the candidates with the knowledge to use ETABS. Some of the modules are mentioned below:

➤ Model creation and result reporting

> Push-over analysis

> Response Spectrum Analysis

Response History Analysis

➤ Concrete Frame Design and Detailing

> Steel frame Design and Detailing

➤ Working with Composite Beam

Dynamic Analysis

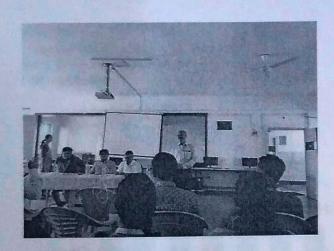
Dr. G. Sankara

Sculeara

**HOD - CIVIL** 

## Report on Certificate course-ETABS

Department of Civil Engineering had organized three weeks certificate course on ETABS Software in Association with CADD Centre from 24/02/2020 to 10/03/2020. Dr S.G Bhat -Principal as Chief guest and Mr. Ameet Gogi, Business Head, CADD Centre, Basaveshwarnagar, Bangalore and Mrs. Shivani Patil, Design Associate & Course trainer as main speaker for the Inauguration of certificate course. All the staff members from Civil Engineering Department and final year civil engineering students attended the Inauguration. HOD Dr. Sankara and Prof B.A.Ranganathan spoke on the importance of certificate course and presidential address by Principal. Vote of thanks was delivered by Prof Ravi Patil.





The course was conducted over a period of three weeks from 24/02/2020 to 10/03/2020. The classes were conducted 1.30pm to 4.30pm as per schedule in CAD Lab, Civil Engineering Department. Total 22 students of 8<sup>th</sup> semester civil engineering students enrolled to the program and were benefitted by the skills imparted during training.

### ETABS (Extended Three-dimensional Analysis of Building Systems)

ETABS is a highly efficient analysis and design program developed especially for building systems. ETABS is developed by CSI America. It is loaded with an integrated system with an ability to handle the largest and most complex building models and configurations. The software has powerful CAD-like drawing tools with a graphical and object-based interface. It increases the productivity of structural engineers. It saves a significant amount of time and money over the general purpose programs. The leading structural engineering firms Wood & Grieve Engineers, Somero Enterprises Inc, Ghafari Associates, LLC, The Library Corporation, Inc., Carey Group PLC, to mention few have, extensive used this tool for design of various infrastructure related to interdisciplinary applications.

### Course Objectives

The course aims to offer comprehensive knowledge on the ETABS software and its applications. The course will help the candidates to acquire in-depth details about the different procedures and simplified analysis aspects of the design models. The certification converts a candidate into an expert that is ready to work in the civil structures analysis & design industry.

The course contains a number of modules to empower the candidates with the knowledge to use ETABS. Some of the modules are mentioned below:

- > Model creation and result reporting
- Push-over analysis
- Response Spectrum Analysis
- Response History Analysis
- > Concrete Frame Design and Detailing
- > Steel frame Design and Detailing
- > Working with Composite Beam
- > Dynamic Analysis

Coordinator

Dr G Sankara

**HOD-Civil** 

### INSTITUTIONAL COURSE

### **CERTIFICATE OF COMPLETION**





Awarded to : Bablu Chaudhary

In : Course on ETABS

R R INSTITUTE OF TECHNOLOGY

R<sub>v</sub> . CADD Centre Training Services, Bangalore, Vijayanagar

During : Mar-2020 Durαtion : 40 Hrs Student ID: C200211053





Managing Director

Ameet Gogi

25-09-2020

CENTRE HEAD

DATE OF ISSUE











The course is offered by CADD Centre on the software developed by the respective companies. All brand names and trademarks belong to respective owners.

Institutional Course are specially designed for meeting the academic curriculum requirements. The course offered at the institutes, by qualified trainers and supporting study materials.

Corporate Office: 8th Floor, GEE GEE Crystal, Office No. 8C & 8D, #91, Dr. Radhakrishnan Salai, Mylapore, Chennai-600 004. India.

www.caddcentre.com

### INSTITUTIONAL COURSE

### **CERTIFICATE OF COMPLETION**





Awarded to : Bimash Bhattarai

In : Course on ETABS

At : R R INSTITUTE OF TECHNOLOGY

By : CADD Centre Training Services, Bangalore, Vijayanagar

During: Mar-2020 Duration: 40 Hrs Student ID: C200219052



- Skar

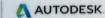
Ameet Gogi

25-09-2020

DATE OF ISSUE

MANAGING DIRECTOR







CENTRE HEAD





The course is offered by CADD Centre on the software developed by the respective companies. All brand names and trademarks belong to respective owners.

Institutional Course are specially designed for meeting the academic curriculum requirements. The course offered at the institutes, by qualified trainers and supporting study materials.

Corporate Office: 8th Floor, GEE GEE Crystal, Office No. 8C & 8D, #91, Dr. Radhakrishnan Salai, Mylapore, Chennai-600 004. India.

An ISO 9001 - 2015 Certified Company





R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering



#### CHIEF PATRON:

**Sri. Y. Raja Reddy** Chairman,PKMET,Bangalore

### PATRON:

**Sri. Kiran H. R,** Secretary,PKMET,Bangalore

**Sri. Arun H. R,**Director, PKMET,Bangalore

Sri. Ramakrishna Reddy CEO,RRIT,Bangalore

#### RECTOR:

Dr. M. B. Manjunath Principal,RRIT,Bangalore

#### CHIEF COORDINATOR

Dr. Channabasavaru S
Prof. and Head Department of
Mechanical Engineering, RRIT

#### **FACULTY COORDINATORS**

Dr. Amarnath G. Associate Prof. ,ME
Dr. Arulmani L, Associate Prof. ,ME
Prashanth H K, Asst Prof, ME
Prashanth H K, Asst Prof, ME
Proj Naik, Asst Prof, ME
Ralburgi Bharath, Asst Prof, ME
Ragesh Kumar R, Asst Prof, ME
Manjunatha G D, Asst Prof, ME
Keerthy Prasad B., Asst Prof, ME
Srinivas M T, Asst Prof, ME
Murali G E, Asst Prof, ME
Shridharmurthy H N, Asst Prof., ME

#### STUDENT COORDINATORS

Aditya Regmi, 4<sup>th</sup> sem mech. Sandeep D, 6<sup>th</sup> sem mech Rakshith, 8<sup>th</sup> sem, mech

### INVITATION

Principal, HOD, Staff of

Department of Mechanical Engineering

Cordially invites you for the

Programme

On

'Intensive Interactive Practice (Hands On Training)
Workshop on IC Engines'

20/03/2019 To 24/03/2019

By \* Mr. Naveen M

Founder of IIP, Bangalore

&

Mr. Bhuvan S J
Trainer at IIP, Bangalore

Presided by

Dr. M.B. Manjunath Principal,RRIT,Bangalore

Venue

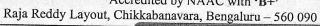
Seminar Hall, Mechanical Block R R Institute of Technology Bengaluru-560090 PKM Educational Trust ®



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi ,Recognised by Gov.

Accredited by NAAC with 'B+'





### Department of Mechanical Engineer Program Schedule

PROGRAM
20-03-2019
Inauguration
Tea Break
Objective of the workshop
Introduction & Fundamentals of IC Engine. • Engine layout and working. • Fuel Injection Systems [PGMFi, DTS-Fi, MPFI, CRDI, RTR, VVTi, i-Vtec & TDI]
Lunch Break
Turbocharger and Supercharger. Detailed Study of Valves and Valve Timing
Topics on Different types of cams and follower: (Cam Less Engine & Desmodromic cams)
Ending day One
21-03-2019
Types of Clutch, Types of Gearbox
Tea Break
Dismantling of the Engine into individual parts & detailed study of individual
parts of the I.C Engine
• • • • • • • • • • • • • • • • • • •
22-03-2019
Basic to advanced mechanism involved in working of Transmission system,
Clutch and its types
Tea Break
Assembling of 1c 4s petrol engine
23-03-2019
Demonstration of 4 Stroke 1 Cylinder Petrol [CVT Engine]
Demonstration of 2 Stroke 1 Cylinder Petrol Engine
Lunch Break
Vehicle Maintenance and Trouble Shooting. Safety considerations and
standardization. · Factor Effecting on Tire Life.
24-03-2019
Demonstration of Multi Cylinder Engine. => Dismantling, Detailing & Assembling of multi cylinder Petrol engine.
Lunch Break
Dismantling, Detailing & Assembling of multi cylinder Diesel engine  Quiz/Test for participants
Felicitation & Certificate Distribution

HOD of Mechanical Engineering

R.R. Institute of Technolog)

Hesaraghatta Main Road, Ch ikkabanayara. Bangalore -90



### R R Institute of Technology Department of Mechanical Engineering



### Report on Five days workshop on "Intensive Interactive Practice Workshop on I.C. Engines"

Date: 26<sup>th</sup> March 2019

About the Workshop - Department of Mechanical Engineering had organized five days workshop for 6th semester students of mechanical engineering on "Intensive Interactive Practice Workshop on I.C. Engines" from 20-03-2019 to 24-03-2019. This Workshop was intended to provide a platform for students to get enlightened about theoretical and practical aspects of Internal Combustion (I.C.) Engine.

Objectives of the workshop -

- > To provide a platform to know purpose, different components, materials of components and working of I.C. Engine.
- > To provide theoretical and practical knowledge of I. C. Engine to students.

Name and details of the resource persons:

1) Mr. Naveen M, BE, M.Tech

Mr. Naveen M. has got 10 years of Experience in Academics and Research. He has Published 6 International and 2 National Journals. He has rich experience in research and development activities, conducting training programs, Intensive Interactive Practice [IIP] workshop, seminar and conference.

2) Mr. Bhuvan S J, DME, BE.

Mr. Bhuvan S J has got 8 years of Experience in the field of Manufacturing & Automobile Industry as Service Engineer and 10 years of Experience in Academics as Technical Head in conducting training programs, Intensive Interactive Practice [IIP], workshop & seminar.

Program Outcome:

> It enhanced student's level of understanding the theoretical concepts and they will be able to apply their practical knowledge into academics.

> It helped them to understand basic IC engine design associated terms, definitions, components and operations.

> It made them understand and able to explain the procedures for:

o Identifying and interpreting engine concerns.

o Performing a preliminary engine inspection.

No. of participants: 50



Mr. Naveen M, Chief Executive, A J Heuristic addressing the gathering

Date: 20/03/2019- (Day 1)

Morning Session:-

The FDP was inaugurated by Mr. Naveen M., Chief Executive, A J Heuristic, Bangalore. Prof. S. Channabasavaraj, HOD, Mechanical Engineering Department, RRIT gave welcome address. Principal and all department HODs, mechanical Engineering staff and students were present in the inaugural session.

Theory Sessions were conducted by Mr. Naveen M., Chief Executive, A J Heuristic, and Mr.

Bhuvan S J, Executive, A J Heuristic, Bangalore.

The following theoretical topics are covered.

- > Objectives of the workshop
- > IC Engine Fundamental
- Engine Layout and working.

### Afternoon Session:-

Afternoon session was hands on session of the topics covered in the morning.

Date: 21/03/2019- (Day 2)

### Morning Session:-

In the morning session the following topics are covered.

- Disassembling of I.C. Engine into individual parts.
- > Detailed study of individual parts of the Engine and their mechanisms.

### Afternoon Session:-

Afternoon session was hands on session of the topics covered in the morning.

Date: 22/03/2019- (Day 3)

#### Morning Session:-

In the morning session the following topics are covered.

- > 2 stroke single cylinder petrol engine.
- > 4 stroke single cylinder CVT petrol engine.

### Afternoon Session:-

Afternoon session was hands on session of the topics covered in the morning.

Date: 23/03/2019- (Day 4)

### Morning Session:-

In the morning session the following topics are covered.

- > Turbo charger, super charger & valve timing diagram
- Clutch and gearbox.
- Assembling the individual parts into IC Engine.
- Detailed study of fuel supply system and carburettor.
- Advanced trends in I. C. engine.

### Afternoon Session:-

Afternoon session was hands on session of the topics covered in the morning.

Date: 24/03/2019- (Day 5)

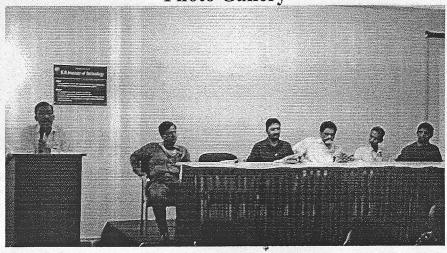
Morning Session:-

My roomgalificate action for the

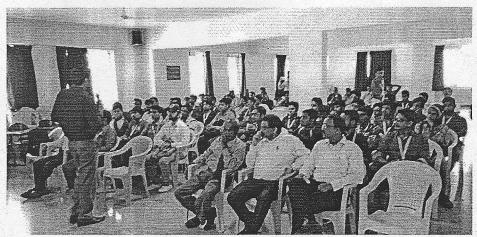
Felicitation was done in the morning. Vote of thanks was given by Prof. Arulmani L., Associate professor, Mechanical Engineering Department, RRIT.

It was followed by industrial visit to A. J. Heuristic.

**Photo Gallery** 



Welcoming address by Dr. Channabasavaraj S., HOD, Mechanical Department



Mr. Naveen M., Chief Executive, A J Heuristic addressing the audience



Mr. Bhuvan S J, Executive, A J Heuristic, giving Demonstration in Hands on practice session



Students in Hands on practice session

Convener

HOD of Mechanical Engineering R.R. Institute of Technology Hesaraghatta Main Road, Ch Ikkabanavara, Bangalore - 90 PKM Educational Trust ®



R. R. Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi ,Recognised by Govt. of Karnataka

Accredited by NAAC with 'B+'

Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Mechanical Engineering



## Five Days Workshop on "Intensive Interactive Practice (Hands on Training) Workshop on IC Engines"

20/03/2019 to 24/03/2019

### STUDENT ATTENDANCE

Sl. No	USN	Name	Day -1 20/03/2019	Day -2 21/03/2019	Day -3 22/03/2019	Day -4 23/03/2019	Day -5 24/03/2019
1	1RI14ME003	AJITH V	Auful	Andre	1	June 1	W
2	1RI14ME006	AKASH M	A	A	della	Joseph .	
3	1RI14ME021	DEVARAJ D R	10%	19	Des	Jan	2
4	1RI14ME025	GAGAN N	(a)	Care .	Cess	Augus	66
5	1RI14ME030	IMRAN R	Thoras	mors.	In	Louis .	Cell
6	1RI14ME036	MADHUSUDHAN B S	Hh	Her	The state of the s	July !	Letter
7	1RI15ME003	AJAYLR	Aray R	Africa P. R.	And t. 3	April E.R	Aroun 2
8	1RI15ME009	AMDADUL HAQUE	SA	9	(N)	SD	
9	1RI15ME025	BHARATH N	Blog.	210	Blow	26	ala
10	1RI15ME027	BIJENDRA KUMAR	Bils	Bis	Die	B.B	12.12
11	1RI15ME034	DARSHAN N	2 PB	180	AR	AR	1273
12	1RI15ME041	KENCHESH H N	Kar	Val.	New 1	Vane	Ken
13	1RI15ME046	INDRESH M P	( Hough mo	Dduck) 21.	( due () o	(2) de 61 m	(P) Anach

14	1RI15ME050	KAPU BHANU PRAKASH	מ		1_4		
15	1RI15ME058		Phanese	Blance	Brance	Bross	Plan
16	1RI15ME064	MOHAMMED RAFI K P	Mario	Mary	manal	mary	Mas
17	1RI15ME069	NITISH J H	Ni distribution	to the left	Testile	Year of the	Zatilegh.
18	1RI15ME092	S SANJAY	Mus 32	Nitrish J. H	Milwhit	Military	WitibJ
19	1RI15ME104	SIDDHARTH N	000	1	10/2	138/	Alexa
20	1RI16ME005	ARUN KUMAR YADAV	Sau	Siddy	Sjobler	Sidu	Sidde
21	1RI16ME007	BASAVARAJA E GURAPPANAVARA	Gru	(Bed a) ja	Darie .	(d) run (	Down
22	1RI16ME008	BHARATH R	PI TP	(P)	BF	R	BU
23	1RI16ME009	BHARATH R	Phatfo	Bhareth	330	Bus	Blus
24	1RI16ME010	BIJAY KUMAR MANDAL	THE WAY.	Bhoroth R	The state of the s	TAL	BA.
25	1RI16ME013	GURUKIRAN L M	Pula	\$	3	*	1
26	1RI16ME017	MANJIL POUDEL	Gurukioan Manist	100000000000000000000000000000000000000	Garukion		Gurulino
27	1RI16ME018	MANOJ KUMAR V	uT.	manil	Manjil	marje/	Masjel
28	1RI16ME020	PAVAN B P	Rava B.P	.0	M.	M	M
29	1RI16ME021	PITAMBAR CHAUDHARY	Pitantar	Pavan	towar	Pavou	Pavan
30	1RI16ME024	SANDEEP D	Saidlef d	Pitantay	Pitantas	Pitantar	Popula
31	1RI16ME025	SANDEEP PRASAD YADAV	sandy	Sanderp. p	Sonderp. D	SA	Spar.
32	1RI16ME026	SANGAYYA I TENGINAMATH	de John	0-	SACH	(they)	Hay
33	1RI16ME027	SAROJ KUMAR YADAV	The state of the s	Bhill	Shoth	- Darly	All
34	1RI16ME029	SHISHIR ACHHAMI	51	The state of the s	1	tal	ful
35	1RI16ME030	SHYAM KISHOR MUKHIYA	Ling	121200	54	8 की	8
86	1RI16ME034	SUSHIL KUMAR YADAV	wents.	Lyan	hyant	Syan	Syen
7	1RI16ME035	UTTAM SHAH	Han	Thouse	THE STATE OF THE S	608	مركب
8	1RI16ME043	SUNIL B	O-THEORY.	C CHONNE	Marke	most	UHan
9	1RI16ME402	ANITH KUMAR R	7	A distance of the second	Link	fat .	LB
0	The second secon	BHARAT H J	A A	10		dit.	Lie

nΚ,

di Anto

				1		٨	
41	1RI16ME408	DEEPAK KUMAR S	100	DE	40	4	400
42	1RI16ME416	KARTHIK MANJAIAH HIREMATH	( D)	(DW)	AD.	0	Do
43	1RI16ME428	SURESH ASHU	Norw.	Aldrine	Asbu	nehrus	reme
44	1RI17ME402	HEMANTH KUMAR A R	HattanAP	He comower	Heave	Henth	Herst
45	1RI17ME404	RAKSHITHA Y T	A abshaller	1	Robyha	Rappladlage	Perdathy.
46	1RI17ME405	SHASHANK M	Roshonkon	Rehorten	Ashorla	Tolland.	Rash Te
47	1RI17ME406	SHRIDHAR M	Skridhan	Shoudellar	Charle	Showallers.	No Theale
48	1RI17ME407	YOGEESH J M	Yogh	You.	MAQU	Long.	40040
49	1RI14ME092	MANSIF KUMAR YADAV	gail	nous	Paul	Tol	mail
50	1RI16ME046	ANANDU K S	Popula	Anale	Charles .	South	(No sel In
51	1RI16ME045	ABHIJITH C R	X Coly	18th	The same	1000	Spor.
52	1RI15ME121	ROSHAN KUMAR SAH			- AB _	7	

Convener



### PK M Educational Trust®

# R R INSTITUTE OF TECHNOLOGY



Chikkabanavara, Bengaluru - 560090





on

"Intensive Interactive Practice on I.C Engine"
[Hands on Experience]

Conducted by

Department of Mechanical Engineering & Association of RRIT Mechanical Engineers (ARME) from 20/03/2019 to 24/03/2019

in association with AJ Heuristic, Bengaluru.

DR. CHANNABASAVARU S

HOD - MECHANICAL, RRIT

MAYEENA M

DIRECTOR - AJ HEURISTIC

DR. M.B. MANUERATH

PRINCIPAL, RRIT