Dr. Ambedkar Institute of Technology, Bengaluru-56

Department of Electronics and Communication Engineering

List of Enclosures:

1. M.Sc by Research. awarded
2. List of Ph.D. awarded
3. List of Ph.D. Pursuing
4. Research Areas
5. Research Facilities
6. Research Grants
7. Research Guides
8. Faculty Publications
9. Industry Collaboration
10. Students Publications
11. R&D Roadmap
12. Statistics Publications

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Department of Electronics and Communication Engineering

List of M.Sc by Research. awarded

MSc by Research awarded:2019 : NIL

Sl No	Name of the Student	USN	Name of the Research Supervisor/Co-Supervisor	Title of the Thesis	Name of the University	Date of Completion of the MSc by Research	Link: Abstract of the Thesis

MSc by Research awarded:2020 NIL

Sl No	Name of the Student	USN	Name of the Research Supervisor/Co-Supervisor	Title of the Thesis	Name of the University	Date of Completion of the MSc by Research	Link: Abstract of the Thesis

MSc by Research awarded:2021 NIL

Sl No	Name of the Student	USN	Name of the Research Supervisor/Co-Supervisor	Title of the Thesis	Name of the University	Date of Completion of the MSc by Research	Link: Abstract of the Thesis

MSc by Research awarded:2022 NIL

Sl No	Name of the Student	USN	Name of the Research Supervisor/Co-Supervisor	Title of the Thesis	Name of the University	Date of Completion of the MSc by Research	Link: Abstract of the Thesis

Total Number of MSc by Researchawarded up to 2018: NIL
Total Nuber of MSc by Researchawarded up to 2022: NIL
Total Number of MSc by ResearchAwarded from 2019 to 2022: NIL

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Dr. Ambedkar Institute of Technology
Bengaluru - 560056

Dr.Ambedkar Institute of Technology, Bengaluru-56
Name of the Research Centre: Department of Electronics and Communication Engineering

List of Ph.D. awarded

Ph.D. awarded:2019

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Thesis	Name of the Research Supervisor/Co-Supervisor	Name of the University	Date of Completion of the PhD	Link: Abstract of the Thesis
1	Prasanna Kumar A M	7DA14PEN01	Male	2014	PT	Study of health monitoring of machine and performance measurements in apparel industry	Dr. K Ramesha r	VTU	08/0/22020	

Ph.D. awarded:2020

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Thesis	Name of the Research Supervisor/Co-Supervisor	Name of the University	Date of Completion of the PhD	Link: Abstract of the Thesis
1.	Shanthi P	1DA11PEM02	Female	2011	PT	Design and Implementation of reconfigurable band pass microstrip filters	Dr. J S Baligar	VTU	08/02/2020	

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2	Dileep D	15PH4EC002	Male	2014	P	Chaotic Sequences for Navigation Applications	Dr.M.V.Mandi	SSAHE, Tumkur	20.02.2021	
3.	K. Chidananda Murthy	1DA15PEJ04	Male	2014	Part time-PT	Chaotic Sequences for Cryptographic Applications	Dr. Mahalinga V. Mandi	VTU	06.07.2021	

Ph.D. awarded:2021

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Thesis	Name of the Research Supervisor/Co-Supervisor	Name of the University	Date of Completion of the PhD	Link: Abstract of the Thesis
1	Premakumar M N	1DA15PEJ12	Male	2014	PT	An Efficient Key distribution and management method for WSN	Dr. Ramesh S	VTU	2021	

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Name of the Research Centre: Department of Electronics and Communication Engineering

Ph.D. awarded:2022

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Thesis	Name of the Research Supervisor/Co-Supervisor	Name of the University	Date of Completion of the PhD	Link: Abstract of the Thesis
1	Naveen K N(full Time)	1DA15PEJ06	Male	2015	PT	Development And Performance Analysis Of Ranging Algorithms For OFDMA Systems	Dr. K Ramesha Professor	VTU	2022	

Sl No	No of PhD awarded(Numbers only)			
	2019	2020	2021	2022
1	1	2	1	1

Total Number of PhD awarded up to 2018: -
Total Nuber of PhD awarded up to 2022: 5
Totla Number of Ph.D Awarded from 2019 to 2022: 5

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Dr.Ambedkar Institute of Technology, Bengaluru-56
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List of Ph.D. Pursuing

Ph.D. Pursuing: 2019

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Research	Name of the Research Supervisor/Co-Supervisor	Name of the University	Link: Approved letter
1	Mrs. Sunitha S.V	1DA16PEJ29	Female	2019	Part Time	Improving the Intelligibility of Dysarthric Speech	Supervisor: Shivaputra Co-Supervisor: S Soundeswaran	VTU	https://drive.google.com/file/d/1Xexd1Yyqlyk7Uxpe78t6Z50lvyVaWzMy/view?usp=share_link
2	Mrs. Soumyashree M Panchal	1DA16PEJ30	Female	2019	Part Time	Identification and Classification of Objects in Hyper spectral Images using Machine Learning	Shivaputra	VTU	https://drive.google.com/file/d/1mDwYgSIKIYnYKM2tL4uV0bvqQG9ONJ4M/view?usp=share_link
3	Siddesha K	1DA16PEJ05	Male	(2016)	Part Time	Enhanced energy aware task scheduling	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1lhYQYgZGZLode77BtDl6_jwIHgCW4n2l/view?usp=share_link

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						mechanism for multicore processor			
4	Prasanna Kumar	7DA14PEN01	Male	(2011)	Part Time	Study of health monitoring of machine and performance measurements in apparel industry	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1Wof8EMMcBLPAqj3Iz1EXIHsXxGc87Y68/view?usp=share_link
5	Mohan Kumar V	1DA15PEJ07	Male	(2015)	Part Time	Design and investigation of locomotion based energy harvesting system for low power sensor applications	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1Rdfd_PJFiYOEyjnSwYwSKJbNACERpR2-/view?usp=share_link
6	**Ganeshan V**		Male	(2016)	Part Time	Computer aided	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1-k37sWI8iTVPXiiZ3Dd0uJ7v1ShSLfXB/view?usp=share_link

						implementation and evaluation of grid connected operation of different synchronization methods of hybrid(PV-wind) DC Microgrid on the stability of the voltage source converter			
7	**Vinay Kumar K**		Male	(2016)	Part Time	To Study Reliability and	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/145ZYY8wzxUnJ3-hQxEqrVahwVjZDjAvB/view?usp=share_link

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						Analysis of Dedicated Short Rang Communication			
8	**Narashimamurthy**		Male	(2009)	Part Time	Algorithms and architecture for adaptive beamforming	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1lhYQYgZGZLode77BtDl6_jwIHgCW4n2l/view?usp=share_link
9	Pushpalatha G S	1DA16PEJ04	Female	(2016)	Part Time	Digital encryption of speech signal using chaotic based stream cipher system for secure voice communication	Dr. S Ramesh Professor and Head	VTU	https://drive.google.com/file/d/13Ei_7PorXqXqhHMaseQO1ZyzCNDe1MCL/view?usp=share_link
10	**G Srinivas**	1DA16PEJ14	Male	(2016)	Part Time	Noval Technique	Dr. H Umadevi Professor	VTU	https://drive.google.com/file/d/1HsHlh-qI1wjcGJ6B9OmEP7ZR02lLBkkI/view?usp=share_link

	alu					for efficient power managemen t in WLSN			
11	**Soumay Paduko ne**	1OX15PE J11	Fema le	(20 19)	Part Time	DNA microwave array analysis in forensic science using optical sensor with image processing	Dr. H Umadevi Professor	VTU	https://drive.google.com/file/d/1H sHlh-qI1wjcGJ6B9OmEP7ZR02lLBkk I/view?usp=share_link
12	Kavitad evi C S	1DA15PE J09	Fema le	(20 15)	Part Time	Design and implementat ion of Microstrip filters course work	Dr. H Umadevi Professor	VTU	https://drive.google.com/file/d/1O ThIFVuFT1zFZZkimlaH_-0fL0Wmj5cd/view?usp=share_lin k

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						yet to complete			
13	**Kubendra K**	1DA12PEN09	Male	(2012)	Part Time	Optimization of clock circuits for SoC	Dr. J S Baligar Associate Professor	VTU	https://drive.google.com/file/d/1cJYIHh1BE8p8ic9VpfT-Pa94B9b8PUUN/view?usp=share_link
14	Sudha B S	1DA16PEJ13	Female	(2016)	Part Time	Broadband microstrip antennas for mobile communication application	Dr. J S Baligar Associate Professor	VTU	https://drive.google.com/file/d/1ROCpeWLOtda-Z84HR7Oi_DOXoefdGTDY/view?usp=share_link
14	**Shobha I Hugar**	1DA11PEM02	Female	(2013)	Part Time	Design and Implementation of reconfigurable band pass microstrip filters	Dr. J S Baligar Associate Professor	VTU	

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15	Swamy T N	1DA14PEM02	Male	2014	Part Time	A new technique for fast intra prediction mode decision for high efficiency video coding (HEVC) encoders	Dr. K Ramesha Professor	VTU	https://drive.google.com/file/d/1n2ApWG1n9ClJu5xt805b6dqWn-V1U--r/view?usp=share_link
16	Naveen K N	1DA15PEJ06	Male	2015	(full Time)	Development And Performance Analysis Of Ranging Algorithms For OFDMA Systems	Dr. K Ramesha Professor	VTU	

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17	**Sidramayya Swamy Matad**	1DA15PEJ13	Male	2015	Part Time	Development of OFDMA transceiver subsystem using FPGA.	Dr. K Ramesha Professor	VTU	https://drive.google.com/file/d/1OXig-BMvZo2cPikeEWpPatppGRmguinE/view?usp=share_link
18	**Shruthi N**	1DA16PEJ07	Female	2016	Part Time	Communication	Dr. K Ramesha	VTU	https://drive.google.com/file/d/1_HNtX-Xq4abt3Rge_XVJwW3ebEqEDycn/view?usp=share_link
19	**Ashwini P**	BL15PHEL031	Female	2015	Part Time	Image processing	Professor	VTU	https://drive.google.com/file/d/1IdI7bc1x71z3F6hdphm4GLi5LClUf0ub/view?usp=share_link

Ph.D. Pursuing: 2020

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/Part time-PT	Title of the Research	Name of the Research Supervisor/Co-Supervisor	Name of the University	Link: Approved letter
1	Mrs. Sunitha S.V	1DA16PEJ29	Female	2019	Part Time	Improving the Intelligibility of Dysarthric Speech	Supervisor: Shivaputra Co-Supervisor: S Soundeswaran	VTU	https://drive.google.com/file/d/1Xexd1Yyqlyk7Uxpe78t6

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									Z50lvyVaWzMy/view?usp=share_link
2	Mrs. Soumyashree M Panchal	1DA16PEJ30	Female	2019	Part Time	Identification and Classification of Objects in Hyper spectral Images using Machine Learning	Shivaputra	VTU	https://drive.google.com/file/d/1mDwYgSIKIYnYKM2tL4uV0bvqQG9ONJ4M/view?usp=share_link
3	Siddesha K	1DA16PEJ05	Male	(2016)	Part Time	Enhanced energy aware task scheduling mechanism for multicore processor	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1lhYQYgZGZLode77BtDl6_jwIHgCW4n2l/view?usp=share_link
4	Prasanna Kumar	7DA14PEN01	Male	(2011)	Part Time	Study of health monitoring of machine and performance	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1Wof8EMMcBLPAqj3Iz1

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						measurements in apparel industry			EXIHsXxGc87Y68/view?usp=share_link
5	Mohan Kumar V	1DA15PEJ07	Male	(2015)	Part Time	Design and investigation of locomotion based energy harvesting system for low power sensor applications	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1Rdfd_PJFiYOEyjnSwYwSKJbNACERpR2-/view?usp=share_link
6	**Ganeshan V**		Male	(2016)	Part Time	Computer aided implementation and evaluation of grid connected operation of different synchronization methods of hybrid(PV-wind) DC	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1-k37sWI8iTVPXiiZ3Dd0uJ7v1ShSLfXB/view?usp=share_link

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						Microgrid on the stability of the voltage source converter			
7	**Vinay Kumar K**		Male	(2016)	Part Time	To Study Reliability and Analysis of Dedicated Short Rang Communication	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/145ZYY8wzxUnJ3-hQxEqrVahwVjZDjAvB/view?usp=share_link
8	**Narashimamurthy**		Male	(2009)	Part Time	Algorithms and architecture for adaptive beamforming	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1lhYQYgZGZLode77BtDl6_jwIHgCW4n2l/view?usp=share_link
9	Pushpalatha G S	1DA16PEJ04	Female	(2016)	Part Time	Digital encryption of speech signal using chaotic	Dr. S Ramesh Professor and Head	VTU	https://drive.google.com/file/d/13Ei_7

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						based stream cipher system for secure voice communication			PorXqXqhHMaseQO1ZyzCNDe1MCL/view?usp=share_link
10	**G Srinivasalu**	1DA16PEJ14	Male	(2016)	Part Time	Noval Technique for efficient power management in WLSN	Dr. H Umadevi Professor	VTU	https://drive.google.com/file/d/1HsHlh-qI1wjcGJ6B9OmEP7ZR02lLBkkI/view?usp=share_link
11	**Soumay Padukone**	1OX15PEJ11	Female	(2019)	Part Time	DNA microwave array analysis in forensic science using optical sensor with image processing	Dr. H Umadevi Professor	VTU	https://drive.google.com/file/d/1HsHlh-qI1wjcGJ6B9OmEP7ZR02lLBkkI/view?usp=share_link
12	Kavitadevi C	1DA15PEJ09	Female	(2015)	Part Time	Design and	Dr. H Umadevi Professor	VTU	https://drive.google

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	S					implementation of Microstrip filters course work yet to complete			.com/file/d/1OThIFVuFT1zFZZkimlaH_-0fL0Wmj5cd/view?usp=share_link
13	**Kubendra K**	1DA12PEN09	Male	(2012)	Part Time	Optimization of clock circuits for SoC	Dr. J S Baligar Associate Professor	VTU	https://drive.google.com/file/d/1cJYIHh1BE8p8ic9VpfT-Pa94B9b8PUUN/view?usp=share_link
14	Sudha B S	1DA16PEJ13	Female	(2016)	Part Time	Broadband microstrip antennas for mobile communication application	Dr. J S Baligar Associate Professor	VTU	https://drive.google.com/file/d/1ROCpeWLOtda-Z84HR7Oi_DOXoefdGTDY/view?usp=share_link

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14	**Shobha I Hugar**	1DA11PEM02	Female	(2013)	Part Time	Design and Implementation of reconfigurable band pass microstrip filters	Dr. J S Baligar Associate Professor	VTU	
15	Swamy T N	1DA14PEM02	Male	2014	Part Time	A new technique for fast intra prediction mode decision for high efficiency video coding (HEVC) encoders	Dr. K Ramesha Professor	VTU	https://drive.google.com/file/d/1n2ApWG1n9ClJu5xt805b6dqWn-V1U--r/view?usp=share_link
16	Naveen K N	1DA15PEJ06	Male	2015	(full Time)	Development And Performance Analysis Of Ranging Algorithms For	Dr. K Ramesha Professor	VTU	

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Name of the Research Centre: Department of Electronics and Communication Engineering

						OFDMA Systems			
17	**Sidramayya Swamy Matad**	1DA15PEJ13	Male	2015	Part Time	Development of OFDMA transceiver subsystem using FPGA.	Dr. K Ramesha Professor	VTU	https://drive.google.com/file/d/1OXig-BMvZo2cPikeEWpPatppGRmguinE/view?usp=share_link
18	**Shruthi N**	1DA16PEJ07	Female	2016	Part Time	Communication	Dr. K Ramesha	VTU	https://drive.google.com/file/d/1_HNtX-Xq4abt3Rge_XVJwW3ebEqEDycn/view?usp=share_link
19	**Ashwini P**	BL15PHEL031	Female	2015	Part Time	Image processing	Professor	VTU	https://drive.google.com/file/d/1IdI7bc1x71z3F6hdphm4GLi5LClUf

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									0ub/view?usp=share_link
20	Vidyashree C	1DA20PEC03	Female	2020	Part Time	IOT AND DEEP LEARNING FOR AGRICULTURE BASED APPLICATIONS	Rangaswamy	VTU	https://drive.google.com/file/d/1i9kwJ-GhCPb2ez1dbHmtyT_48Et99DuJ/view?usp=share_link
21	Ripal Patel	1DA20PEC01	Female	2020	Part Time	Huma action recognition using video surveillance	Tanuja P	VTU	https://drive.google.com/file/d/1W6n5rHYvl67-76GvcGTcXUI6G1Nb1AjJ/view?usp=share_link

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Ph.D. Pursuing: 2021

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/ Part time-PT	Title of the Research	Name of the Research Supervisor/Co-Supervisor	Name of the University	Link: Approved letter
1	Mrs. Sunitha S.V	1DA16PEJ29	Female	2019	Part Time	Improving the Intelligibility of Dysarthric Speech	Supervisor: Shivaputra Co-Supervisor: S Soundeswaran	VTU	https://drive.google.com/file/d/1Xexd1Yyqlyk7Uxpe78t6Z50lvyVaWzMy/view?usp=share_link
2	Mrs. Soumyashree M Panchal	1DA16PEJ30	Female	2019	Part Time	Identification and Classification of Objects in Hyper spectral Images using Machine Learning	Shivaputra	VTU	https://drive.google.com/file/d/1mDwYgSIKIYnYKM2tL4uV0bvqQG9ONJ4M/view?usp=share_link
3	Siddesha K	1DA16PEJ05	Mal	(2016)	Part Tim	Enhanced energy	Dr. G V	VTU	https://drive.google.com/file/d/1DKKN4GDfbIREM0Dl_SAQQTJJBqkehlCC/view?usp=share_link

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			e		e	aware task scheduling mechanism for multicore processor	Jayaram aiah		
4	Prasanna Kumar	7DA14PEN01	Male	(2011)	Part Time	Study of health monitoring of machine and performance measurements in apparel industry	Dr. G V Jayaram aiah	VTU	https://drive.google.com/file/d/1lhYQYgZGZLode77BtDl6_jwIHgCW4n2l/view?usp=share_link
5	Mohan Kumar V	1DA15PEJ07	Male	(2015)	Part Time	Design and investigation of locomotion based	Dr. G V Jayaram aiah	VTU	https://drive.google.com/file/d/1Wof8EMMcBLPAqj3Iz1EXIHsXxGc87Y68/view?usp=share_link

						energy harvesting system for low power sensor applications			
6	**Ganeshan V**		Male	(2016)	Part Time	Computer aided implementation and evaluation of grid connected operation of different synchronization methods of hybrid(PV-wind)	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1Rdfd_PJFiYOEyjnSwYwSKJbNACERpR2-/view?usp=share_link

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						DC Microgrid on the stability of the voltage source converter			
7	**Vinay Kumar K**		Male	(2016)	Part Time	To Study Reliability and Analysis of Dedicated Short Rang Communication	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1-k37sWI8iTVPXiiZ3Dd0uJ7v1ShSLfXB/view?usp=share_link
8	**Narashimamurthy**		Male	(2009)	Part Time	Algorithms and architectu	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/145ZYY8wzxUnJ3-hQxEqrVahwVjZDjAvB/view?usp=share_link

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						re for adaptive beamforming			
9	Pushpalatha G S	1DA16PEJ04	Female	(2016)	Part Time	Digital encryption of speech signal using chaotic based stream cipher system for secure voice communication	Dr. S Ramesh Professor and Head	VTU	https://drive.google.com/file/d/13Ei_7PorXqXqhHMaseQO1ZyzCNDe1MCL/view?usp=share_link
10	**G Srinivasalu**	1DA16PEJ14	Male	(2016)	Part Time	Noval Technique for efficient power management in	Dr. H Umadevi Professor	VTU	https://drive.google.com/file/d/1HsHlh-qI1wjcGJ6B9OmEP7ZR02lLBkkI/view?usp=share_link

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						WLSN			
11	**Soumay Padukone**	1OX15PEJ11	Female	(2019)	Part Time	DNA microwave array analysis in forensic science using optical sensor with image processing	Dr. H Umadevi Professor	VTU	https://drive.google.com/file/d/1HsHlh-qI1wjcGJ6B9OmEP7ZR02lLBkkI/view?usp=share_link
12	Kavitadevi C S	1DA15PEJ09	Female	(2015)	Part Time	Design and implementation of Microstrip filters	Dr. H Umadevi Professor	VTU	https://drive.google.com/file/d/1OThIFVuFT1zFZZkimlaH_-0fL0Wmj5cd/view?usp=share_link

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						course work yet to complete			
13	**Kubendra K**	1DA12PEN09	Male	(2012)	Part Time	Optimization of clock circuits for SoC	Dr. J S Baligar Associate Professor	VTU	https://drive.google.com/file/d/1cJYIHh1BE8p8ic9VpfT-Pa94B9b8PUUN/view?usp=share_link
14	Sudha B S	1DA16PEJ13	Female	(2016)	Part Time	Broadband microstrip antennas for mobile communication application	Dr. J S Baligar Associate Professor	VTU	https://drive.google.com/file/d/1ROCpeWLOtda-Z84HR7Oi_DOXoefdGTDY/view?usp=share_link
14	**Shobha I Hugar**	1DA11PEM02	Female	(2013)	Part Time	Design and	Dr. J S Baligar Associate	VTU	

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						Implementation of reconfigurable band pass microstrip filters	Professor		
15	Swamy T N	1DA14PEM02	Male	2014	Part Time	A new technique for fast intra prediction mode decision for high efficiency video coding (HEVC) encoders	Dr. K Ramesha Professor	VTU	https://drive.google.com/file/d/1n2ApWG1n9ClJu5xt805b6dqWn-V1U--r/view?usp=share_link
16	Naveen K	1DA15PEJ06	Male	2015	(full Tim	Developm	Dr. K	VTU	

	N				e)	ent And Performance Analysis Of Ranging Algorithms For OFDMA Systems	Ramesha Professor		
17	**Sidramayya Swamy Matad**	1DA15PEJ13	Male	2015	Part Time	Development of OFDMA transceiver subsystem using FPGA.	Dr. K Ramesha Professor	VTU	https://drive.google.com/file/d/1OXig-BMvZo2cPikeEWpPatppGRmguinE/view?usp=share_link
18	**Shruthi N**	1DA16PEJ07	Female	2016	Part Time	Communication	Dr. K Rameshа	VTU	https://drive.google.com/file/d/1_HNtX-Xq4abt3Rge_XVJwW3ebEqEDycn/view?usp=share_link

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19	**Ashwini P**	BL15PHEL031	Female	2015	Part Time	Image processing	Professor	VTU	https://drive.google.com/file/d/1IdI7bc1x71z3F6hdphm4GLi5LClUf0ub/view?usp=share_link
20	Vidyashree C	1DA20PEC03	Female	2020	Part Time	IOT AND DEEP LEARNING FOR AGRICULTURE BASED APPLICATIONS	Rangaswamy	VTU	https://drive.google.com/file/d/1i9kwJ-GhCPb2ez1dbHmtyT_48Et99DuJ/view?usp=share_link
21	Ripal Patel	1DA20PEC01	Female	2020	Part Time	Human action recognition using video surveillance	Tanuja P	VTU	https://drive.google.com/file/d/1W6n5rHYvl67-76GvcGTcXUI6G1Nb1AjJ/view?usp=share_link

Ph.D. Pursuing: 2022

Sl No	Name of the Student	USN	Gender	Year of Registration	Full Time-FT/ Part time	Title of the Research	Name of the Research Supervisor/Co-	Name of the University	Link: Approved letter

Dr.Ambedkar Institute of Technology, Bengaluru-56
Name of the Research Centre: Department of Electronics and Communication Engineering

					-PT		Supervisor		
1	Mrs. Sunitha S.V	1DA16PEJ29	Female	2019	Part Time	Improving the Intelligibility of Dysarthric Speech	Supervisor: Shivaputra Co-Supervisor: S Soundeswaran	VTU	https://drive.google.com/file/d/1Xexd1Yyqlyk7Uxpe78t6Z50lvyVaWzMy/view?usp=share_link
2	Mrs. Soumyashree M Panchal	1DA16PEJ30	Female	2019	Part Time	Identification and Classification of Objects in Hyper spectral Images using Machine Learning	Shivaputra	VTU	https://drive.google.com/file/d/1mDwYgSIKIYnYKM2tL4uV0bvqQG9ONJ4M/view?usp=share_link
3	Siddesha K	1DA16PEJ05	Male	(2016)	Part Time	Enhanced energy aware task scheduling mechanism for multicore processor	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1lhYQYgZGZLode77BtDl6_jwIHgCW4n2l/view?usp=share_link

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4	Prasanna Kumar	7DA14PEN01	Male	(2011)	Part Time	Study of health monitoring of machine and performance measurements in apparel industry	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1Wof8EMMcBLPAqj3Iz1EXIHsXxGc87Y68/view?usp=share_link
5	Mohan Kumar V	1DA15PEJ07	Male	(2015)	Part Time	Design and investigation of locomotion based energy harvesting system for low power sensor applications	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1Rdfd_PJFiYOEyjnSwYwSKJbNACERpR2-/view?usp=share_link

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6	**Ganeshan V**		Male	(2016)	Part Time	Computer aided implementation and evaluation of grid connected operation of different synchronization methods of hybrid(PV-wind) DC Microgrid on the stability of the	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1-k37sWI8iTVPXiiZ3Dd0uJ7v1ShSLfXB/view?usp=share_link

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						voltage source converter			
7	**Vinay Kumar K**		Male	(2016)	Part Time	To Study Reliability and Analysis of Dedicated Short Rang Communication	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/145ZYY8wzxUnJ3-hQxEqrVahwVjZDjAvB/view?usp=share_link
8	**Narashimamurthy**		Male	(2009)	Part Time	Algorithms and architecture for adaptive beamforming	Dr. G V Jayaramaiah	VTU	https://drive.google.com/file/d/1lhYQYgZGZLode77BtDl6_jwIHgCW4n2l/view?usp=share_link
9	Pushpalath	1DA16PEJ04	Fe	(2016)	Part Tim	Digital encryptio	Dr. S	VTU	https://drive.google.com/file/d/13Ei_7PorXqXqhHMaseQO1ZyzCNDe1MCL/view?usp=share_link

	a G S		mal e		e	n of speech signal using chaotic based stream cipher system for secure voice communi cation	Ramesh Professo r and Head		
1 0	**G Srinivasal u**	1DA16P EJ14	Mal e	(2016)	Part Tim e	Noval Techniqu e for efficient power managem ent in WLSN	Dr. H Umadev i Professo r	VTU	https://drive.google.com/file/d/1HsHlh-qI1wjcGJ6B9OmEP7ZR02lLBkkI/view?usp=share_link
1 1	**Soumay Padukone**	1OX15P E J11	Fe mal e	(2019)	Part Tim e	DNA microwav e array analysis in	Dr. H Umadev i Professo r	VTU	https://drive.google.com/file/d/1HsHlh-qI1wjcGJ6B9OmEP7ZR02lLBkkI/view?usp=share_link

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						forensic science using optical sensor with image processing			
12	Kavitadevi C S	1DA15PEJ09	Female	(2015)	Part Time	Design and implementation of Microstrip filters course work yet to complete	Dr. H Umadevi Professor	VTU	https://drive.google.com/file/d/1OThIFVuFT1zFZZkimlaH_-0fL0Wmj5cd/view?usp=share_link
13	**Kubendra K**	1DA12PEN09	Male	(2012)	Part Time	Optimization of	Dr. J S Baligar Associate	VTU	https://drive.google.com/file/d/1cJYIHh1BE8p8ic9VpfT-Pa94B9b8PUUN/view?usp=share_link

						clock circuits for SoC	Professor		
14	Sudha B S	1DA16PEJ13	Female	(2016)	Part Time	Broadband microstrip antennas for mobile communication application	Dr. J S Baligar Associate Professor	VTU	https://drive.google.com/file/d/1ROCpeWLOtda-Z84HR7Oi_DOXoefdGTDY/view?usp=share_link
14	**Shobha I Hugar**	1DA11PEM02	Female	(2013)	Part Time	Design and Implementation of reconfigurable band pass microstrip	Dr. J S Baligar Associate Professor	VTU	

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						filters			
15	Swamy T N	1DA14PEM02	Male	2014	Part Time	A new technique for fast intra prediction mode decision for high efficiency video coding (HEVC) encoders	Dr. K Ramesha Professor	VTU	https://drive.google.com/file/d/1n2ApWG1n9ClJu5xt805b6dqWn-V1U--r/view?usp=share_link
16	Naveen K N	1DA15PEJ06	Male	2015	(full Time)	Development And Performance Analysis Of Ranging	Dr. K Ramesha Professor	VTU	

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						Algorithms For OFDMA Systems			
17	**Sidramayya Swamy Matad**	1DA15PEJ13	Male	2015	Part Time	Development of OFDMA transceiver subsystem using FPGA.	Dr. K Ramesha Professor	VTU	https://drive.google.com/file/d/1OXig-BMvZo2cPikeEWpPatppGRmguinE/view?usp=share_link
18	**Shruthi N**	1DA16PEJ07	Female	2016	Part Time	Communication	Dr. K Ramesha	VTU	https://drive.google.com/file/d/1_HNtX-Xq4abt3Rge_XVJwW3ebEqEDycn/view?usp=share_link
19	**Ashwini P**	BL15PHEL031	Female	2015	Part Time	Image processing	Professor	VTU	https://drive.google.com/file/d/1IdI7bc1x71z3F6hdphm4GLi5LClUf0ub/view?usp=share_link
20	Vidyashree C	1DA20PEC03	Female	2020	Part Time	IOT AND DEEP LEARNING FOR AGRICU	Rangaswamy	VTU	https://drive.google.com/file/d/1i9kwJ-GhCPb2ez1dbHmtyT_48Et99DuJ/view?usp=share_link

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						LTURE BASED APPLICATIONS			
21	Ripal Patel	1DA20PEC01	Female	2020	Part Time	Human action recognition using video surveillance	Tanuja P	VTU	https://drive.google.com/file/d/1W6n5rHYvl67-76GvcGTcXUI6G1Nb1AjJ/view?usp=share_link
22	Venkatesh S N	1DA20PEC02	Male	2022	Part Time	Design and Development of efficient algorithm for chaotic based encryption and decryption for multimedia application	Shivaputra	VTU	https://drive.google.com/file/d/13D5G5b2m-A7K-RqtTqfDepxhf_h_ucQm/view?usp=share_link

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Name of the Research Centre: Department of Electronics and Communication Engineering

Sl No	No of PhD Pursuing(Numbers only)			
	2019	2020	2021	2022
	19	21	21	23

Total Nuber of PhD Pursuing up to 2022: 22
Totla Number of Ph.D Pursuing from 2019 to 2022: 22

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Research Areas:

1. Wireless Communication
2. VLSI
3. Artificial Intelligence
4. Antennas
5. Crypotography
6. Embedded systems
7. RF/Microwave devices
8. Communication
9. Signal Processing
10. Sensor network.

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Affiliated to Visvesvaraya Technological University, Belgavi & Approved by AICTE, New Delhi)
BDA Outer Ring Road, Near Jnana Bharathi Campus, Mallathally, Bengaluru-560056, Karnataka.

Department Of Electronics & Communication Engineering.

List of software in the Department:

Sl. No	Name of the Equipment	Date of Purchase	RR Number/ Page Number	Qty	Rate	Cost of the Equipment RS
1	Edwin XP Version 1.90 PCB Software	24.04.2015	RR-850/ P-04	5 users	1,37,150.00	1,37,150.00
2	Xilinx ISE 14.1 Version Software	15.12.2015	RR-850/ P-07	25 users	1,31,085.00	1,38,296.00
3	Xilinx software (vivido Software 18.2) (invoice No: DUP/2018-19-227	16.01.2019	RR-850/ P-10	25 users	1,51,040.00	1,51,040.00
4	MATLAB 2021A-1 Year license unlimited users Software	27.03.2021	RR-850/ P-12	unlimited	13,49,246.22	13,49,246.22
5	Cadence university standard new bundle	30.03.2022	RR 43/ P-104	01	9,91,200.00	9,91,200.00

List of Equipment in the Department:

6	Advanced Fiber Optic Kit Bread Board 2'x3' with M6 holes tapped at 1" marks and laser beam analyzer with power measurement	31.03.1999	RR-43/P-44	01 No	3,25,000.00	3,25,000.00
7	ATS-03 86-860 MHz Advanced Antenna Training Kit	13.12.2006	RR 701/P-22	1 set	2,26,000.00	2,26,000.00
8	Optical fiber Kit	25.11.2006	RR 701/P-21	02	63,500.00	1,37,000.00
9	Micro strip Antenna set, QPSK & DPSK Kit	27.06.2009	RR-43/P-88	02	1,88,500.00	3,77,000.00
10	Tektronix 100 MHz 2 Ch. mixed domain oscilloscope, M-3012	31.08.2016	RR 43/P-96	02	2,21,500.00	4,67,365.00

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Grants

On-Going Research Project Details: 2019

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link
1	Dr Ramesh S		Digital Encryption of Speech signal using chaotic based stream cipher system for secure voice communication	K-FIST L1	VGST	Govt	21/12/2017	10,00,000	575	03	https://drive.google.com/file/d/1Oh3mUoMcw0yeEWopJ_gwDWf1W5-OoSdd/view?usp=share_link

On-Going Research Project Details: 2020

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link

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On-Going Research Project Details: 2021

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link

On-Going Research Project Details: 2022

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link
1	Dr. Mahalinga V. Mandi	Mr. Ananad H D	Multimedia Security Based on Non-Linear Stream Cipher	K-FIST Level-1	VGST	Govt.	12.01.2023	15,00,000	DOC-20230121-WA0068	Two Years	http://www.vgst.in/downloads/VGST%20beneficiaries%20of%202021-22.pdf

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Completed Research Project Details: 2019 NIL

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link

Completed Research Project Details: 2020

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link
1	Dr. Ramesh S	Mala Sinnor	Humanoid Front Desk Robot	STUDENTS PROJECTS	KSCST	KSCST	2020-21	6000/-		HALF YEAR	
2	Dr.Umadevi H		Floating Waste Scooper Robot on Water Surface	STUDENTS PROJECTS	KSCST	KSCST	2020-21	6000/-		HALF YEAR	
3	Dr. Ramesh S	Mala Sinnor Vidyashree C Spoorthi A	5G Wireless Technology	STUDENTS PROJECTS	KSTA	KSTA	2020-21	20,000/-		HALF YEAR	

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Completed Research Project Details: 2021

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link
1	Dr. Ramesh S	Mala Sinnor Vidyashree C Spoorthi A	Robotics and Automation	STUDENTS PROJECTS	KSTA	KSTA (GOVT)	2021-22	35,000/-		HALF YEAR	
2	Dr. Rangaswamy Y		IoT based Remote Electronic Voting System using Aadhar and Dual Biometric Authentication	STUDENTS PROJECTS	KSCST	KSCST	2021-22	6000/-		HALF YEAR	

Completed Research Project Details: 2022

Sl No	Name of the Principal Investigator	Name of the Co-Principal Investigator	Title of the Research Project	Scheme	Name of the Funding agency	Type of the funding agency(Govt/Non-Govt	Project Sanctioned date	Total amount sanctioned in Rs	Sanctioned Order No.	Duration in Years	Link

Department of Electronics and Communication Engineering Research Guides									
Sl No.	Name of the Research Supervisor	Designation	Specialization	M.Tech Awarded University	Year of Award	PhD Awarded University	Year of Award	Year of Recognition as a guide	Is the faculty still serving in the institution/if not last year of service of the faculty in
1	Dr Ramesh S	Prof & HOD	Industrial Electronics	VTU	2001	Dr MGR Universit	2013	2014	YES
2	Dr Umadevi H	Associate Professor	ECE	Bangalore University	2000	Bangalore University	2014	2015	Yes
3	Dr Mahalinga V Mandi	Professor	Industrial Electronics	Mysore university	1998	Dr MGR University	2013	2014	Yes
4	Dr Shivaputra	Assistant Professor	VLSI	VTU	2009	Jain University	2017	2018	Yes
5	Dr J .S Baligar	Associate Professor	Antenna(Electronic switching	Karnataka University, Dharwad	1993	Bangalore Univer	2003	2004	Yes
6	Dr Tanuja P	Assistant Professor	Wireless sesor network	UVCE	2010	VTU	2018	2020	Yes
7	Dr Rangaswamy Y	Assistant Professor	Image Processing	Bangalore University	2008	JNTU	2018	2021	Yes

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International Journals

Faculty Publications: 2019

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1.	Dr.Ramesh S		Binary Sequences having Good Correlation and Large Linear Complexity Properties for Satellite Navigation Applications		https://www.ijrte.org/wp-content/uploads/papers/v7i5s2/ES2008017519.pdf	61-67	7	5s2	January 2019,	https://www.ijrte.org/wp-content/uploads/papers/v7i5s2/ES2008017519.pdf
2.	Dr.Ramesh S		Voice Encryption with Watermarking forSecure Speech Communication		https://www.jetir.org/papers/JETIR1901A52.pdf	404-414	6	02	Feb2019	https://www.jetir.org/papers/JETIR1901A52.pdf
3.	Dr.MahalingaV Mandi		Binary Sequences having Good Correlation and Large Linear Complexity Properties forSatellite		https://www.ijrte.org/wp-content/uploads/papers/v7i5s2/ES2008017519.pdf	61 – 67	7	5s2	January 2019	https://www.ijrte.org/wp-content/uploads/papers/v7i5s2/ES2008017519.pdf

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			Navigation Applications							
4.	Dr Umadevi H		Reconfigurable Compact Bandpass Microstrip Filter ofBandwidth 1.54		DOI: 10.11648/j.ajnc.20190802.12	59-63	8	2	2019	DOI: 10.11648/j.ajnc.20190802.12
5.	Dr.MahalingaV Mandi		Implementation of Present Cipher on FPGA for IoT Applications		DOI : 10.17577/IJERTV8IS080006	26 – 29	8		August 2019	DOI : 10.17577/IJERTV8IS080006
6.	Dr.MahalingaV Mandi		Chaotic Binary Sequence GeneratorBased on Logistic Map		https://www.ijrte.org/wp-content/uploads/papers/v8i4/D5297118419.pdf	7351 – 7355	8	4	2019	https://www.ijrte.org/wp-content/uploads/papers/v8i4/D5297118419.pdf
7.	Dr.MahalingaV Mandi		ASIC Implementation of Present Cipher for IoT Application		http://matjournals.in/index.php/JOVDSP/article/view/4224	12-18	5	3	2019	http://matjournals.in/index.php/JOVDSP/article/view/4224
8.	B S Sudha		Dam Gate Level Control with Water Quality Monitoring using IOT		DOI: 10.22214/ijraset.2019.5252	1494 - 1497	7	5	May 2019	DOI: 10.22214/ijraset.2019.5252

9.	Dr.Shivaputra		A Research on MysticAlexa Mirror		https://www.ijitee.org/wp-content/uploads/papers/v9i2s3/B11281292S319.pdf	543-547,	9	2S3		https://www.ijitee.org/wp-content/uploads/papers/v9i2s3/B11281292S319.pdf
10	Dr.Shivaputra		Efficient Implementation OfRemote Terminal Module For MIL-STD1553B Applications		http://www.ijstr.org/final-print/dec2019/Efficient-Implementation-Of-Remote-Terminal-Module-For-Mil-std-1553b-Applications.pdf	1490-1496,	8	12		http://www.ijstr.org/final-print/dec2019/Efficient-Implementation-Of-Remote-Terminal-Module-For-Mil-std-1553b-Applications.pdf
11	Dr MeenakshiL Rathod		Efficient Implementation OfRemote Terminal Module For MIL-STD1553B Applications		http://www.ijstr.org/final-print/dec2019/Efficient-Implementation-Of-Remote-Terminal-Module-For-Mil-std-1553b-Applications.pdf				December2019	http://www.ijstr.org/final-print/dec2019/Efficient-Implementation-Of-Remote-Terminal-Module-For-Mil-std-1553b-Applications.pdf

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12	Dr MeenakshiL Rathod		A Research on MysticAlexa Mirror		https://www.ijitee.org/wp-content/uploads/papers/v9i2s3/B11281292S319.pdf				December2019	https://www.ijitee.org/wp-content/uploads/papers/v9i2s3/B11281292S319.pdf
13	Dr.JambunathBaliger		Sharp skirt dual-modebandpass filter withoverlay plate to control upper passband edge		DOI: 10.35940/ijeat.F8648.088619	2357 – 2360			2019	DOI: 10.35940/ijeat.F8648.088619
14	Mohan KumarV		An Overview of Charging System inElectric Car		https://www.ijltemas.in/digital-library/volume-viii-issue-xi.php	64-65	8	7	2019	https://www.ijltemas.in/digital-library/volume-viii-issue-xi.php
15	Girija S		VHDL implementation of acquisition sensor foroptical communication terminal		https://www.ijariit.com/manuscripts/v5i3/V5I3-1337.pdf	462-266	5	8	2019	https://www.ijariit.com/manuscripts/v5i3/V5I3-1337.pdf
16	Girija S		Gesture recognitionusing RF signals		https://www.ijariit.com/manuscripts/v5i3/V5I3-1335.pdf		5	8	2019	https://www.ijariit.com/manuscripts/v5i3/V5I3-1335.pdf

17	Girija S		Portable biometricsusing LoRa modulated interface		https://www.ijariit .com/manuscripts/v5i3/V5I3-1339.pdf	341-346	5	8	2019	https://www.ijariit .com/manuscripts/v5i3/V5I3-1339.pdf
18	Kavithadevi CS		Reconfigurable Compact Bandpass Microstrip Filter of Bandwidth 1.54		DOI: 10.11648/j.ajnc.20190802.12	59-63	8	2	2019	DOI: 10.11648/j.ajnc.20190802.12
19	Mala Sinnor		Carry look ahead adder using adiabaticlogic		https://www.ijariit .com/manuscripts/v5i3/V5I3-1534.pdf	1028-1033	5	3	2019	https://www.ijariit .com/manuscripts/v5i3/V5I3-1534.pdf
20	Mala Sinnor		Compare Efficiency of Different Multiplier using Verilog Simulation for DSP Application		https://ijsrd.com/Article.php?manuscript=IJSRDV7I31197	2321-0613,	7		2019	https://ijsrd.com/Article.php?manuscript=IJSRDV7I31197
21	Siddesha K		Study and		DOI :		5	4	2019	DOI :

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			Implementation Of DVFS Technique for Processor PowerReduction		10.35291/2454-9150.2019.0348					10.35291/2454-9150.2019.0348
22	Shwetha M		Efficient Implementation OfRemote TerminalModule For MIL-STD1553B Applications		http://www.ijstr.org/final-print/dec2019/Efficient-Implementation- Of-Remote-Terminal-Module-For-Mil-std-1553b-Applications.pdf				2019	http://www.ijstr.org/final-print/dec2019/Efficient-Implementation- Of-Remote-Terminal-Module-For-Mil-std-1553b-Applications.pdf
23	T N Swamy		Raspberry Pi Based Communication System for Deaf Dumband Blind Person		https://www.ijsrd.com/Article.php?manuscript=IJSRDV7I31015		7	3	December2019	https://www.ijsrd.com/Article.php?manuscript=IJSRDV7I31015
24	Madhusudan M		An overview of Charging system in Electric Car		https://www.ijltemas.in/digital-library/volume-viii-issue-xi.php				Dec 2019	https://www.ijltemas.in/digital-library/volume-viii-issue-xi.php
25	Manjula N		Real Time MinimumEnergy TrackingTechniques for		DOI: 10.35940/ijrte.C4734.098319		8	3	Sept 2019	DOI: 10.35940/ijrte.C4734.098319

			DigitalLoad Circuit							
26	Sangeeta N		Design of fixed one bit Latency SERDES transceiver for high speed Data Transmissions		DOI: 10.21275/ART2002 03562		8	12	Decembe r2019	DOI: 10.21275/ART2002 03562
27	Sujay N		Extended Local Binary Pattern Features based Face Recognition using Multilevel S VMClassifier		https://www.ijrte.org/wp-content/uploads/papers/v8i3/C5481098319.pdf		8	3	Septemb er2019	https://www.ijrte.org/wp-content/uploads/papers/v8i3/C5481098319.pdf
28	Ripal Patel		Prediction of Likelihood o f Contraceptive Method among Women using Machine Learning Techniques		https://computers.stmjournals.com/index.php?journal =JoMCCMN&page=article&op=view&path%5B%5D=2055	1-6	6	1	2019	https://computers.stmjournals.com/index.php?journal =JoMCCMN&page=article&op=view&path%5B%5D=2055

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29	Mohan Kumar V		Virtual Reality based HumanMouse		https://ijsrd.com/Article.php?manuscript=IJSRDV7I30885	1153 - 1156	3	7	2019	https://ijsrd.com/Article.php?manuscript=IJSRDV7I30885
30	Mohan Kumar V		Design Of Digital Down Converter And Signal Detection Techniques For Software Defined Radio		DOI:10.33564/IJEAST.2019.V04I01.017	98-102	4	1	May-2019.	DOI:10.33564/IJEAST.2019.V04I01.017
31	Dr.Tanuja P		Eye Waver Technology Based Assistive Systemfor Disabled		https://www.ijltemas.in/DigitalLibrary/Vol.8Issue5/48-51.pdf	48-52	8	5	May 2019	https://www.ijltemas.in/DigitalLibrary/Vol.8Issue5/48-51.pdf
32	Pushpalatha G S		Voice Encryption with Watermarking for Secure Speech Communication		https://www.jetir.org/papers/JETIR1901A52.pdf		6	2	Feb2019	https://www.jetir.org/papers/JETIR1901A52.pdf
33	Pushpalatha G S		Performance Analysis of Idea Algorithm on FPGA for Data Security		DOI: 10.22214/ijraset.2019.5436		7	5	May 2019	DOI: 10.22214/ijraset.2019.5436

34	Hemalatha KN		Performance Analysis of Floating-Point Multiplier Designs		https://www.researchgate.net/publication/336052604_Performance_Analysis_of_Floating_Point_Multiplier_Designs		7	5	May-2019	https://www.researchgate.net/publication/336052604_Performance_Analysis_of_Floating_Point_Multiplier_Designs
35	T N Swamy		A Generic Standalone Design Approachto Embedded Hardware Development		https://doi.org/10.31695/IJASRE.2019.33257		5	6	June – 2019.	https://doi.org/10.31695/IJASRE.2019.33257
36	Nagarathna HS		Generation of Electricity Through Speed Breaker Mechanism		https://ijsrd.com/Article.php?manuscript=IJSRDV7I31122	130	7	3	May 2019	https://ijsrd.com/Article.php?manuscript=IJSRDV7I31122
37	Nagarathna HS		IoT Based Crop Loss Prediction, Assessment and Evidence Collection		https://ijsrd.com/Article.php?manuscript=IJSRDV7I30220	460-462	7	3	2019	https://ijsrd.com/Article.php?manuscript=IJSRDV7I30220
38	Anand H D		IoT V2I communication-rescue time		https://www.ijariit.com/manuscripts/v5i3/V5I3-1319.pdf		5	3	May 2019	https://www.ijariit.com/manuscripts/v5i3/V5I3-1319.pdf

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39	Harsha R		Floor Sweeping and Mopping machine Using Ultra-Sonic Sensor		http://www.ijsdr.org/papers/IJSDR1905060.pdf		4	5	MAY 2019	http://www.ijsdr.org/papers/IJSDR1905060.pdf
40	Vidyashree C		Embedded Smart Health Monitoring System-Wearable Devices		https://ijisrt.com/wp-content/uploads/2019/06/IJISRT19MY405.pdf		4	5	May – 2019	https://ijisrt.com/wp-content/uploads/2019/06/IJISRT19MY405.pdf
41	Manjula N		Design of vedic multiplier using Urdhva Tiryagbhyamsutra		https://www.ijariit.com/manuscripts/v5i3/V5I3-1340.pdf		5	3	2019	https://www.ijariit.com/manuscripts/v5i3/V5I3-1340.pdf

Faculty Publications: 2020

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1.	Dr.Ramesh S		Generation of binary sequences of length		https://doi.org/10.18280/mmep.070112	94-102,	7	5s2	March 2020.	https://doi.org/10.18280/mmep.070112

			10230 bits having better odd and even correlation with large linear complexity for use in Global Navigation Satellites Systems (GNSS) Applications							
2.	Dr.Ramesh S		Efficient Temporal-key Based Encryption Mechanism for WSN-ETEM		https://www.ijitee.org/wp-content/uploads/papers/v9i5/E2147039520.pdf	143-148	9	5	2020,	https://www.ijitee.org/wp-content/uploads/papers/v9i5/E2147039520.pdf

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3.	Mohan KumarV		Simulation of Gait based wearable Energy harvesting using Human movement		DOI: 10.35940/ijitee.C8667.029420	1161-1165	9	4	Feb 2020	DOI: 10.35940/ijitee.C8667.029420
4.	Mala Sinnor		Survey on Filtering Techniques Applied toECG Signal		DOI: 10.35940/ijitee.G1003.0597S20		9		May 2020	DOI: 10.35940/ijitee.G1003.0597S20
5.	Dr.Tanuja P		Emergency Assistive System for Tetraplegia Patient Using Eye Waver Computer Vision Technique		https://link.springer.com/chapter/10.1007/978-981-15-2620-6_5	63--79	7		2020	https://link.springer.com/chapter/10.1007/978-981-15-2620-6_5
6.	Hemalatha KN		Smart wearable devicefor asthma patients		DOI: 10.22214/ijraset.2020.5143	909-912		5	May-2020	DOI: 10.22214/ijraset.2020.5143

7.	Dr.MahalingaV Mandi		Generation of Binary Sequences of Length 10230 Bits HavingBetter Odd and Even Correlation with Large Linear Complexity for Use in Global Navigation Satellites Systems (GNSS) Applications		https://doi.org/10.18280/mmep.070112	94-102	7	1	March 2020	https://doi.org/10.18280/mmep.070112
8.	Hemalatha KN		Smart wearable device for asthma patients		DOI: 10.22214/ijraset.2020.5143	909-912	5		2020	DOI: 10.22214/ijraset.2020.5143
9.	Hemalatha KN		Internal in pipe inspection and rectification BOT		https://www.irjet.net/archives/V7/i5 /IRJET-V7I51348.pdf			5	2020	https://www.irjet.net/archives/V7/i5 /IRJET-V7I51348.pdf
10.	Kesthara V		IoT based patient		https://www.ijariit	329-	5	3		https://www.ijariit

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			monitoring, bed andblood booking using AVR		.com/manuscripts/ v5i3/V5I3-1331.pdf	331				.com/manuscripts/ v5i3/V5I3- 1331.pdf
11.	Siddesha K		Heterogeneous Processor Scheduling Using Adaptive Particle Swarm Optimization For DVFS Enabled Embedded Systems		http://sersc.org/journals/index.php/IJAST/article/view/22214		29	12	2020	http://sersc.org/journals/index.php/IJAST/article/view/22214
12.	Triveni		Videography RoboticArm		DOI : 10.35629/5252-0203410412	410-412	2	3	March 2020	DOI : 10.35629/5252-0203410412
13.	Anand H D		Micro Robot		https://www.academia.edu/43490072/Micro_Robot	1446-1448	8	6	June 2020	https://www.academia.edu/43490072/Micro_Robot
14	Kavya S		Pick and place Robot		https://www.ijariit.com/manuscripts/					https://www.ijariit

					v5i3/V5I3-1306.pdf					.com/manuscripts/ v5i3/V5I3- 1306.pdf
15			Campus placement process automation portal		https://www.ijariit.com/manuscripts/v5i3/V5I3-1590.pdf					https://www.ijariit .com/manuscripts/ v5i3/V5I3- 1590.pdf
16	Harsha R		Analysis Of Convolutional Neural Networks For Rust Control In Building And Other Appearances		https://www.druckhaus-hofmann.de/gallery/40-wj-april-2020.pdf	372-378	XI	IV	April 2020	https://www.druckhaus-hofmann.de/gallery/40-wj-april-2020.pdf
17	Harsha R		Covid -19 Lockdown- Challenges to Higher Education		https://capecomorinjournal.org.in/Special-issue-view-abstract?Id=82	26-28	II	IV	May 2020	https://capecomorinjournal.org.in/Special-issue-view-abstract?Id=82

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18.	Ripal Patel		Emergency Assistive System for Tetraplegia Patient Using Eye		https://link.springer.com/chapter/10.1007/978-981-15-2620-6_5	63 - 79	7		2020	https://link.springer.com/chapter/10.1007/978-981-15-2620-6_5

Faculty Publications: 2019

1	Dr.Jambunath Baliger		Dual Band Microstrip BPF with Controlled Wide and Narrow Pass Bands		DOI: 10.1109/ICCCNT45670.2019.8944399				2019	DOI: 10.1109/ICCCNT45670.2019.8944399
2	Kavitha Devi C S		Designing of reconfigurable compact Bandpass microstrip filter		DOI: 10.1109/ICECA.2019.8822139				02 September 2019	DOI: 10.1109/ICECA.2019.8822139
3.	Kavitha Devi C S		Reconfigurable Compact Bandpass Microstrip Filter		-				19th June 2019	
4.	Mala Sinnor		Wallace Tree using Full Adder						7th and 8th June 2019	

5	Shilpa K C		**Optimal Resource Allocation and Binding in High - Level Synthesis Using Nature - Inspired Computation**		https://doi.org/10.1007/978-981-13-5802-9_95				24 April 2019	https://doi.org/10.1007/978-981-13-5802-9_95
6.	Manjula N		**Minimum energy measurement techniques and energy dissipation for digital load circuits**		ICIESTM-19				3rd and 4th 2019	
7.	Ripal Patel		**Automatic fire detection using combination of color cue and flame flicker**		https://link.springer.com/chapter/10.1007/978-981-10-6977-2_3				-	https://link.springer.com/chapter/10.1007/978-981-10-6977-2_3

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Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1.	Dr.Ramesh S		A Novel Security Scheme of Temporal-Key Based Encryption Policy in Sensor Applications		https://link.springer.com/chapter/10.1007/978-3-030-37051-0_17				January 2020	
2.	Dr.Umadevi H		A Design of Chebyshev Filter for Wireless Communications in Smart Cities		--				23rd October 2020	
3.	Dr.Shivaputra		Design andEfficient Implementation offloating pointmultiplier usingpipelined Architecture		--				23rd October2020	

	Dr.Shivaputra		A ComprehensiveAnalysis of Fruitand Vegetable Image Classification Techniques		--				21st-22nd December 2020	
4.	Dr.Shivaputra		Chaotic based Grain 128-bit stream cipher for image encryption		https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3735835				29-30, October 2020	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3735835
5.	Dr MeenakshiL Rathod		Digital Outing System Using IoT						23rd October 2020	
6.	Dr.JambunathBaliger		Novel Approach for Center Frequency and Bandwidth Tuning in Multimode Resonator Based		DOI: 10.1016/j.procs.2020.04.222	2067 – 2072			2020	DOI: 10.1016/j.procs.2020.04.222

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			Microstrip Dual-Mode Bandpass Filter							
7.	Kavithadevi CS		A Design of Chebyshev Filter for wireless Communications in Smart Cities		--				23rd Oct2020	
8.	Mala Sinnor		A Hybrid Approach For Computer Aided Diagnosis SystemFor Malig nantMelanoma Detection In Dermoscopic Images		--				23rd October 2020	
9.	Dr.Tanuja P		Real Conversation with Human-Machine		https://link.springer.com/chapter/10.1007/978-3-030-		Vol.1483			https://link.springer.com/chapter/

			24/7 COVID-19 Chatbot Based onKnowledge Graph Contextual Search.		91244-4_21					10.1007/978-3-030-91244-4_21
10.	Sajidha Thabhassum		Intelligent monitoring model of visit antschedule		--					
11.	Dr. Chetan S		An Efficient High-Speed Lifting Based 1D/2D-DWT VLSI Architecture Using CDF-5/3 Wavelet Transform For Image Processing Applications		DOI: 10.1109/RTEICT49044.2020.9315649				November 12th & 13th 2020	DOI: 10.1109/RTEICT49044.2020.9315649
12.	Harsha R		Plant-O-Bot							

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									16-17, Oct, 2020	
13	Harsha R		Agrobot						16-17, Oct, 2020	
14	Harsha R		Animal Intrusion detection System						16-17, Oct, 2020	
15	Vidyashree C		Smart Medici neVending Machine						23rd October 2020	
16.	Spoorthi P A		Unusual Event Detection For Enhancing ATM Security						23rd October 2020	
17.	Shwetha N		Performance Analysis of SelfAdaptive Equalizers usin gNature Insp iredAlgorithm		DOI: 10.1007/97 8-981-33-4305-4_37				Septembe r, 24-25, 2020.	DOI: 10.1007/9 7 8-981-33-4305-4_37

18	Shwetha N		A Cluster based Distributive Cooperative Spectrum Sensing Techniquesin Cognitive Radio		DOI: 10.1007/978-981-15-9651-3_20				03-04 September 2020.	DOI: 10.1007/978-981-15-9651-3_20
19	Shwetha N		Convergence Analysis of SelfAdaptive Equalizers using Evolutionary Programming (EP) and Least Mean Square (LMS) Algorithm		DOI: 10.1007/978-981-33-4909-4_48				21-22 October 2020.	DOI: 10.1007/978-981-33-4909-4_48

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1	Dr.Mahalinga V Mandi		Performance evaluation of chaotic spreading codes in massive MIMO OFDM system		https://indjst.org/articles/performanc e-evaluation-ofchaotic-spreadingcodes-in-massivemimo-ofdmsystem	4374 – 4385			2020	https://indjst.org/articles/performanc e-evaluation-ofchaotic-spreadingcodes-in-massivemimo-ofdmsystem
2	B S Sudha		Development of Colour based Tomato Harvesting Robot		DOI : https://doi.org/10. 22214/ijraset.202 0.31075	974 - 975,	8	8	2020	DOI : https://doi.org/10. 22214/ijraset.202 0.31075
3	Dr.Shivaputra		Survey on the Intelligibility of Dysarthric Speech		https://doi.org/10. 37896/jxu14.6/176		14	6	2020	https://doi.org/10. 37896/jxu14.6/176
4	Dr Meenakshi L Rathod		Synthesis of Concentric Circular Array Antenna		DOI 10.33832/ijfgcn. 2020.13.4.04	33 - 44	13	14	2020	DOI 10.33832/ijfgcn. 2020.13.4.04

			Thinning Using Round & Push to Limit Binary Evolutionary Programming							
5	Mohan Kumar V		Electric Vehicle Power train Sizing		https://www.ijras et.com/fileserve.php?FID=31114	1226-1234	8	8	2020	https://www.ijras et.com/fileserve.php?FID=31114
6.	Girija S		Optimized Reversible Arithmetic and Logic Unit (ALU)		https://www.ijera .com/papers/vol10no8/Series - 5/E1008053338.p d	33-38	10	8	Aug 2020	https://www.ijera .com/papers/vol10no8/Series - 5/E1008053338.p d
7.	Girija S		UAV Hand - Over Entity		https://www.irjet. net/archives/V7/i8/IRJET - V7I8180.pdf	1084-88,	7	8	Aug 2020	https://www.irjet. net/archives/V7/i8/IRJET - V7I8180.pdf
8.	Kesthara V		One Touch Multi - Banking		https://ijcrt.org/papers/IJCRT20075 03.pdf	4671-	8	7	July 2020	https://ijcrt.org/papers/IJCRT20075 03.pdf

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			Transaction ATM System Using Biometric And GSM Authentication			4674				
9	Divya A		Windowing approach for face recognition using the spatial - temporal method and artificial neural network		DOI: 10.1504/IJAPR.2020.10033776		6	2	Nov 2020	DOI: 10.1504/IJAPR.2020.10033776
10	T N Swamy		Video and Image Acquisition Challenges to design image			958 - 965, 2020	29	5s	2020	

			resolutions for HEVC							
11	Nithyashree S		Precision agriculture robot for Seeding Function and Leaf Disease Detection		DOI : 10.17577/IJERTV9IS080024		9	8	2020	DOI : 10.17577/IJERTV9IS080024
12	Manjula N		Sanitation n work done by robots using Swarm intelligence		13-08-2020 https://ijrar.org/download.php?file=IJRAR19W1497.pdf	974-982	Vol-7	Issue-3	2020	13-08-2020 https://ijrar.org/download.php?file=IJRAR19W1497.pdf
13	Sangeeta N		Two Tier Secured State of the Art EVM Design		DOI:10.22214/ijr aset.2020.30968		8	8	2020	DOI:10.22214/ijr aset.2020.30968
14.	Sujay N		Digitalized Scanner with SelfAssis		DOI: 10.22214/ijraset. 2020.31378		8	9	Sep 2020	DOI: 10.22214/ijraset. 2020.31378

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Faculty Publications: 2021

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1	Dr.Ramesh S		Chaotic based encryption algorithms for speech signal and cryptographic requirements : A brief survey		https://doi.org/10.1016/j.matpr.2021.01.244	pp.1-5	January 2021,		2021	https://doi.org/10.1016/j.matpr.2021.01.244
			Regression test automation for the security and georesiliency of airscale radio network controller in umts/w-cdma		http://www.thedesignengineering.com/index.php/DE/article/view/8162	Pages: 10500-10508	2021	Issue: 9,	2021	http://www.thedesignengineering.com/index.php/DE/article/view/8162

			mobile networks							
			Design and ASIC Implementation of Efficient 8-bit Integer Division Algorithms		https://www.annalsofrscb.ro/index.php/journal/article/view/4175	Pp.12463–12474	Vol. 25, No. 4, , April 2021		2021	https://www.annalsofrscb.ro/index.php/journal/article/view/4175
2	Dr. Umadevi H		Reconfigured compact Minkowski fractal microstrip filter		DOI: 10.1002/mop.33134	64(3), pp. 471–475 Dec 2021			2021	DOI: 10.1002/mop.33134
2	Dr. Umadevi H		Floating Waste Scooper Robot On Water Surface		surface-ijcrt-4170514	July 2021	Volume9	Issue 7	2021	surface-ijcrt-4170514
3	Dr. Umadevi H		Cloud Computing and Networking for Smart Farm AgriTech		https://doi.org/10.1155/2022/6491747	, June 2022	Volume 2022		2021	https://doi.org/10.1155/2022/6491747

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4	Dr. Mahalinga V Mandi		FPGA Implementation of Efficient CDF 9/7 Wavelet Transform		--	, Pp. 12752 - 12765		Issue: 9	2021	
5	B S Sudha		Automatic Segregation Of Waste Using Robotic Arm		https://ijcrt.org/papers/IJ CRT2107532.pdf	, Issue 7 July 2021	Volume 9		2021	https://ijcrt.org/papers/IJ CRT2107532.pdf
6	Dr Meenakshi L Rathod		Array pattern synthesis for desired side lobe level using modified differential evolution		https://doi.org/10.1016/j.matpr.2020.12.1210	2021/2/16			2021	https://doi.org/10.1016/j.matpr.2020.12.1210
7	Meenakshi L Rathod		Verification And Validation Of ASBO Based Antenna Array Radiation Pattern Synthesis For Power Optimization		DOI: 10.33832/ijgdc.2021.14.1.04	31st March 2021			2021	DOI: 10.33832/ijgdc.2021.14.1.04

8	Dr. Jambunath Baliger		Reconfigured compact Minkowski fractal microstrip filter		https://doi.org/10.1002/m op.33134	pp. 471 –475	64(3), Dec 2021		2021	https://doi.org/10.1002/m op.33134
9	Dr. Jambunath Baliger		Design of Microstrip Dual - Mode Wideband Bandpass Filter with Controlled Center Frequency and Bandwidth Using Bandstop Filter Topology		https://doi.org/10.1080/03772063.2021.1929518	pp.1 -9,	2021		2021	https://doi.org/10.1080/03772063.2021.1929518
10	Dr. Jambunath Baliger		A Miniaturized Bandpass Filter using Microstrip Lines		ttps://doi.org/10.1016/j.matpr.2020.10.374		In Press		2021	ttps://doi.org/10.1016/j.matpr.2020.10.374
11	Mohan Kumar V		Recent Progress on Bio - mechanical Energy		DOI: 10.14569/IJACSA.2021. 0120721	, No. 7, 2021	Vol. 12		2021	DOI: 10.14569/IJACSA.2021. 0120721

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			Harvesting System from the Human Body: Comprehensive Review							
12	Mohan Kumar V		Effective Strategies for the Improvement of Higher Education		https://www.researchgate.net/publication/359865197_Effective_Strategies_for_the_Improvement_of_Higher_Education#fullT extFileContent	Vol. 12, No. 2, Dec 202			2021	https://www.researchgate.net/publication/359865197_Effective_Strategies_for_the_Improvement_of_Higher_Education#fullT extFileContent
13	Mohan Kumar V		Design and Implementation of IoT based Vehicle tracking and Theft contro		http://ijariie.com/AdminUploadPdf/Design_and_Implementation_of_IoT_based_Vehicle_tracking_and_Theft_control_ijariie13472.pdf		pp.202-206, Volume 7, Issue 1, January 2021		2021	http://ijariie.com/AdminUploadPdf/Design_and_Implementation_of_IoT_based_Vehicle_tracking_and_Theft_control_ijariie13472.pdf
14	Girija S		Fault Tolerant Arithmetic and Logic Unit in Reversible Logic for		http://www.thedesignengineering.com/index.php/DE/article/view/5025	Issue 8, pp 1311 - 1323,Oct 2021			2021	http://www.thedesignengineering.com/index.php/DE/article/view/5025

			Low Power Applications							
15	Girija S		Optimized Modular Arithmetic and Logic unit in Reversible Logic		DOI:10.12733.JICS.2021 .V11I8.535569.35338	Vol 11(8), pp.330 - 341, Aug 2021			2021	DOI:10.12733.JICS.2021 .V11I8.535569.35338
16	Kavithadevi C S		Reconfigured compact Minkowski fractal microstrip filter		https://doi.org/10.1002/m op.33134	64(3), pp. 471 –475 Dec 2021			2021	https://doi.org/10.1002/m op.33134
17	Kavithadevi C S		Drowsiness Detection Of A Driver Using Advanced Machine Learning For Light Motor Vehicle Collision		https://ijcrt.org/papers/IJ CRT2107609.pdf	4th July 2021. ssn:2320 – 2882			2021	https://ijcrt.org/papers/IJ CRT2107609.pdf
18	Hemalatha K N		Unsigned Array Multiplier Design Using Reversible Logic			Vol(2) Issue (8) (Aug 2021) Page 558 -564			2021	

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19	Dr. Chetan S		Automated Dam Controlling System Using Draught Analysis						2021	
20	Kesthara V		Density Based Traffic Management using Image Processing and Accident Monitoring		https://ijcrt.org/papers/IJ CRT2108021.pdf	, July 2021 | ISSN: 2320 - 2882, pp. 4671 - 4674	Volume 9	Issue 7	2021	https://ijcrt.org/papers/IJ CRT2108021.pdf
21	Kesthara V		Automated Dam Controlling System Using Draught Analysis		https://ijcrt.org/papers/IJ CRT2108021.pdf	, pp. 4671 - 4674	Volume 9	Issue 8	Aug 2021	https://ijcrt.org/papers/IJ CRT2108021.pdf
22	Siddesha K		Study and Performance analysis of different multiprocess or real time schedulers		https://www.jetir.org/view?paper=JETIR2109366	, page no.d574 - d578, September - 2021	Vol.8,	Issue 9	2021	https://www.jetir.org/view?paper=JETIR2109366
23	Shwetha M		Multimedia transmission mechanism for streaming		(DOI) : 10.14569/IJACSA.2021. 0120928	, page 242	Vol 12	issue 9	2021	(DOI) : 10.14569/IJACSA.2021. 0120928

			over wireless communicati on channel							
24	Sangeeta N		Transactional Blockchain Implementati on With Client Interface Using SHA-256 Cryptographi c Hashing		http://www.ijaresm.com/ uploaded_files/document _file/Shwetha_NBcGc.pd f	August - 2021.	Volume 9	Issue 8	2021	http://www.ijaresm.com/ uploaded_files/document _file/Shwetha_NBcGc.pd f
25	Shwetha N		Transactional Blockchain Implementati on With Client Interface Using SHA-256 Cryptographi c Hashing		ttp://www.ijaresm.com/ uploaded_files/document _file/Shwetha_NBcGc.pd f	, August - 2021.	Volume 9	, Issue 8	2021	ttp://www.ijaresm.com/ uploaded_files/document _file/Shwetha_NBcGc.pd f
26	Siddesha K		Performance analysis of Task scheduling algorithms for energy efficiency using mobile computing		http://www.thedesignengineering.com/index.php/DE /article/view/597 7		Vol 20	08	2021	http://www.thedesignengineering.com/index.php/DE /article/view/597 7

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27	T N Swamy		Design and ASIC Implementation Of Four Way Set - Associative Cache Memory		---		44	2	March2021	
28	Nithyashree S		Smart rescue robot for Open Bore wells		https://www.ijrpr.com/uploads/V2I		2	8	2021	https://www.ijrpr.com/uploads/V2I
29	Nagarathna H S		Generation of Narrowband Signals for Wireless Body Area Networks8		https://www.irjet.net/archives/V8/i1/IRJET - V8I180.pdf		8	1	Jan2021	https://www.irjet.net/archives/V8/i1/IRJET - V8I180.pdf
30	Nagarathna H S		Design and Implementation of IoT based Vehicle tracking and Theft control		http://ijariie.com/AdminUploadPdf/Design_and_Implementation_of_IoT_based_Vehicle_tracking_and_Theft_control_ijariie13472.pdf				2021	http://ijariie.com/AdminUploadPdf/Design_and_Implementation_of_IoT_based_Vehicle_tracking_and_Theft_control_ijariie13472.pdf
31	Madhusudhan M		Design and Implementation of IoT based vehicle		https://www.ijrpr.com/uploads/V2ISSUE8/IJRPR1096.pdf				2021	https://www.ijrpr.com/uploads/V2ISSUE8/IJRPR1096.pdf

		tracking and Theft control							
32	Madhusudan M	Gender segregation of silk moths in Cocoon stage		https://www.ijrpr.com/uploads/V2ISSUE8/IJRPR1096.pdf	Page 1035 - 1037	2	8	2021	https://www.ijrpr.com/uploads/V2ISSUE8/IJRPR1096.pdf
33	Kavithadevi C S	A Compact band pass Microstrip Filter for wireless Communication Application		DOI: https://doi.org/10.17762/turcomat.v12i6.1281	Pages 161 - 165.	12	6	2021	DOI: https://doi.org/10.17762/turcomat.v12i6.1281
34	Shwetha N	Adaptive Filter Equalizer Optimization Using hybrid Approach		OI: 10.34218/IJARET.12.1.2021.043	473 -483	12	1	Jan 2021	OI: 10.34218/IJARET.12.1.2021.043
35.	Sujay N	Robust Face Recognition Using Hybrid Features		DOI: 10.34218/IJEET.12.6.2021.026		12	6	June 2021	DOI: 10.34218/IJEET.12.6.2021.026
36.	Rangaswamy Y	Energy Generation Through Footsteps Using Piezo Electric Sensors		https://www.ijrpr.com/uploads/V2ISSUE8/IJRPR0955.pdf	312-315	2	8	2021	https://www.ijrpr.com/uploads/V2ISSUE8/IJRPR0955.pdf

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Faculty Publications: 2022

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1	Dr. Umadevi H		Cloud Computing and Networking for Smart Farm AgriTech				Volume 2022, June		2022	
			Prediction and Analysis of Water Requirement in Automated Irrigation System Using ANN And Lora Technology		https://www.irjet.net/archives/V9/i7/IRJETV9I7211.pdf		Volume: 09 Issue: 07 | July 2022		2022	https://www.irjet.net/archives/V9/i7/IRJETV9I7211.pdf
			Smart Wearable System For Patients With		ttps://www.irjet.net/archives/V9/i7/IRJETV9I7355.pdf		Volume: 09 Issue: 12 |		2022	ttps://www.irjet.net/archives/V9/i7/IRJETV9I7355.pdf

			Respiratory Disorders Using IOT				July 2022			
			An Efficient VLSI Implementation of AES Block Cipher for High Security		DOI:16.10098.NMRJ.2022 2.V7I6.256342.2069		Vol . 7, Issue 6, Page No: 112 to 122, June 2022		2022	DOI:16.10098.NMRJ.2022 2.V7I6.256342.2069
2	Dr.Shivaputra		Comparative landmark detection on stops of dysarthric speech		ttps://doi.org/10.1016/j.bspc.2022.104125		Vol. 79, 2022		2022	ttps://doi.org/10.1016/j.bspc.2022.104125
			Design and Performance Analysis of High throughput and low latency double precision floating point division on FPGA		https://publishoa.com/index.php/journal/article/view/426	, No. 2, pp. 2302 - 2317, 2022	Vol. 13		2022	https://publishoa.com/index.php/journal/article/view/426

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			FPGA Implementation of Efficient I2C Protocol		ttps://www.provinciajournal.com/index.php/telem atique/article/view/277	pp.2165 - 2174, 2022	Volume 1,	Issue 1,	2022	ttps://www.provinciajournal.com/index.php/telem atique/article/view/277
			A Novel Approach of Hyperspectral Imaging Classification using Hybrid ConvNet		(DOI) : 10.14569/IJACSA.2022.0130334		Vol. 13, 2022	No. 3,	2022	(DOI) : 10.14569/IJACSA.2022.0130334
			Cloud Computing and Networking for Smart Farm Agri Tech		https://doi.org/10.1155/2022/6491747		Volume 2022,		june2022	https://doi.org/10.1155/2022/6491747
3	Dr.Meenakshi L Rathod		FPGA Implementation of Efficient I2C Protocol		https://www.provinciajou rnal.com/index.php/telem atique/article/view/277		Volume 1, Issue 1, pp.2165 - 2174, 2022		2022	https://www.provinciajou rnal.com/index.php/telem atique/article/view/277
			Smart Wearable System for Patients with		https://www.irjet.net/archi ves/V9/i7/IRJET - V9I7355.pdf		Volume: 09 | July 2022	Issue: 12	2022	https://www.irjet.net/archi ves/V9/i7/IRJET - V9I7355.pdf

			Respiratory Disorders Using IOT							
			Cloud Computing and Networking for Smart Farm Agri Tech		https://doi.org/10.1155/2022/6491747		Volume 2022, June 2022		2022	https://doi.org/10.1155/2022/6491747
4	Mala Sinnoor		Machine Vision for Bearing Orientation Detection		https://ijirt.org/master/publishedpaper/IJIRT156025_PAPER.pdf	pp. 609 - 613, July 2022	Vol.09,	Issue 02,	2022	https://ijirt.org/master/publishedpaper/IJIRT156025_PAPER.pdf
5	Dr. Shilpa K C		Optimized Low Power Dual Edge Triggered Flipflop with Speed Enhancement		https://www.jetir.org/view?paper=JETIR2108498		Volume 8,	Issue 8	Aug 2022	https://www.jetir.org/view?paper=JETIR2108498
			Robust and Secure Data Hiding - Application For Image And Audio Using LSB Method		DOI: 16.10098.NMRJ.2022.V7I3.256342.2034		Volume 7, March 2022	Issue 3,	2022	DOI: 16.10098.NMRJ.2022.V7I3.256342.2034

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6	Hemalatha K N		Unsigned Array Multiplier Design Using Reversible Logi			Page 558 - 564	Vol(2) (Aug 2021)	Issue (8)		
			Design and Implementation of 64 - Bit Ripple Carry Adder and Ripple Borrow Subtractor Using Reversible Logic Gates		DOI :10.35444/IJANA.2022.1 3607	Pages: 5215 - 5219,	Volume: 06 May 2022	13 Issue:	2022	DOI :10.35444/IJANA.2022.1 3607
			Efficient Design of Compact 8 - bit Wallace Tree Multiplier Using Reversible Logic		DOI: 10.5815/ijem.2022.04.03	pp. 29 -36, 23	Vol. 4, May 2022		2022	DOI: 10.5815/ijem.2022.04.03
7	Dr. Chetan S		Robust and Secure Data Hiding - Application For Image		DOI: 16.10098.NMRJ.2022.V7I3.256342.2034		Volume 7, March 2022	Issue 3,	2022	DOI: 16.10098.NMRJ.2022.V7I3.256342.2034

			And Audio Using LSB Method							
8	Divya A		An Optimized Local Feature Compression Using Statistical And Structural Approach For Face Recognition		DOI: 10.1504/IJCVR.2022.100 47958		June, 2022		2022	DOI: 10.1504/IJCVR.2022.100 47958
9	Swamy T N		Improved Intra Prediction Algorithm for HEVC with Conventional and Convolutional Neural Network Approach		DOI: https://doi.org/10.17762/msea.v71i2.86		Vol. 71 No. 2 (2022)		2022	DOI: https://doi.org/10.17762/msea.v71i2.86
10	Anand H D		Ultra Violet Sanitization Robot		DOI:10.37897.GRJ.2021. V8I7.22.50076		VOL 8, July 2022	Issue 7,	2022	DOI:10.37897.GRJ.2021. V8I7.22.50076

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11	Vidyashree . C		Machine Learning Based Text to Speech Converter for Visually Impaired		ttps://doi.org/10.22214/ijraset.2022.45740		Volume VII July 2022	10 Issue	2022	ttps://doi.org/10.22214/ijraset.2022.45740
12	Spoorthi P A		Classification of Rail Track Defects Based on Computer Vision Using DNN		ttps://doi.org/10.22214/ijraset.2022.45968		Volume VII July 2022	10 Issue	2022	ttps://doi.org/10.22214/ijraset.2022.45968

National Conference
Faculty Publications: 2021

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1.	Dr. Mahalinga V Mandi		Graph Based Chaotic Stream Cipher		-				26-28th October 2021	
2.	Siddesha K		Energy Efficient Greedy Scheduling		DOI: 10.1109/RTEICT52294.202				27-28 August 2021	DOI: 10.1109/RTEICT52294.202

			of Tasks for DVFS Enabled Heterogeneous Multicore Processors		1.9573873					1.9573873
3	Dr MeenakshiL Rathod		Digital OutingSystem Using IoT		DOI: 10.1109/CONIT51480.2021.9498398					DOI: 10.1109/CONIT51480.2021.9498398
4	Dr MeenakshiL Rathod		ASIC Implementation and Analysis of Logic BISTController for Ripple CaryAdder at Different Technology		DOI: 10.1109/CONIT51480.2021.9498398				25th – 27th Jun e 2021	DOI: 10.1109/CONIT51480.2021.9498398
5	Dr.JambunathBaliger		Modified E-Shaped Resonator-Based Microstrip		https://link.springer.com/chapter/10.1007/978-981-33-		647–652		2021	https://link.springer.com/chapter/10.1007/978-981-33-

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			Dual-Mode Bandpa ssFilter		4909-4_49					4909-4_49
6.	Kavya S		A smart antennasystem for radar communication exploiting modified uniformcircular array		--		28 - 29		De c 20 21	
7.	Manjula N		A Smart antenna system for radar communication exploiting modified uniformcircular array		--		28 - 29		De c 20 21	
8.	Sangeeta N		Design of Fixed One - Bit LatencySerdes Transceiver		--		28 - 29		20 21	
			Smart Driving Assistance Using Arduino And Proteus Design Tool		DOI: 10.1007/978 -981-16- 2126-0_51		18-19		20 21	DOI: 10.1007/978 -981-16- 2126-0_51
			Advanced SystemDriving		DOI:		4-6		20 21	

			Assistance UsingArduino A nd Proteus Desi gnTool		10.1109/ICI CV50876.20 21.9388620					DOI: 10.1109/ICI CV50876.20 21.9388620
9.	Shwetha N		Smart driving Assistance Using Arduino a nd Proteus design tool		DOI: 10.1007/97 8-981-16-2126-0_51				20 21	DOI: 10.1007/97 8-981-16-2126-0_51

Faculty Publications: 2022

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1.	Kavitha devi C S		Object Detection Using Deep Learning		-				2022	
2.	Sajidha Thabassum		Evolution Towards Conducting Reliability Availability Maintainabili ty(R		DOI: 10.1109/I CD CECE539 08.2 022.9792701				23-24 April 2022	DOI: 10.1109/I CD CECE539 08.2 022.9792701

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			AM) analysis for Active Phased Array Radars							
3.	Hemalatha K N		Optimized 64-bit Reversible BCD Adder for Low-power Applications and Its Comparative Study		DOI: 10.1007/978-981-16-6893-7_32				3 February 2022, pp.49 - 360	DOI: 10.1007/978-981-16-6893-7_32
4.										

National Conference

Faculty Publications: 2019

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1.	Dr. Rangaswamy Y		Histogram based Iris Recognition		-				27th - 28th July 2019	

			using CLBP and FFT Features							
2	Dr.Tanuja P		**Comparative analysis of face recognition using deep learning**						Year 2019	
3	Sajidha Thabhassum		**IOT based patient health monitoring system**						7th & 8th June 2019	
4	Swamy T N		**Power Efficient Algorithm for High Speed Bi -directional Transceiver**		-				7th - 8 th June 2019	
5	Kavya S		**Comparative analysis of face recognition using deep learning**		-					
6	Manjula N		**IOT based industry**						June 2019	

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			protection system							

Faculty Publications: 2020

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1.	Dr.Ramesh S		Cryptographically Securing Dat aBase in Petroleum Industry		--				23rd April 2021	
2.	Dr.Mahalinga V Mandi		Cryptographically Securing DataBase in Petroleum Industry						23rd April 2021,	

Faculty Publications: 2021

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

Faculty Publications: 2022

Sl.No	Name of the Faculty/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link

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	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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Industry collaborations

Industry collaborations: 2019 - NIL

Sl.No	Name of the Industry with complete Address, Email ID, Phone No	Description of the collaboration/Activities taken	Year	Link

Industry collaborations: 2020 - NIL

Sl.No	Name of the Industry with complete Address, Email ID, Phone No	Description of the collaboration/Activities taken	Year	Link

Industry collaborations: 2021- NIL

Sl.No	Name of the Industry with complete Address, Email ID, Phone No	Description of the collaboration/Activities taken	Year	Link

Industry collaborations: 2022 - NIL

Sl.No	Name of the Industry with complete Address, Email ID, Phone No	Description of the collaboration/Activities taken	Year	Link

List of Industry Advisory Board
Description of activities so far:

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MOUs

MOUs: 2019

Sl.No	Name of the Industry/Research organization with complete Address, Email ID, Phone No	Description of the MoUs/Activities taken	MoU signed date	Valid till	Term	Link
1	Master i2R Solutions	FDP / Internship	19/06/2019			https://drive.google.com/file/d/135YdURbxZskKGSioGf3UEjp4Urn431x5/view?usp=share_link
2	Entuple Technologies(P) Ltd	FDP / Internship	9/10/2019			https://drive.google.com/file/d/17F4JfC2xz1Xkyh02DWXt4isPqpquDCJk/view?usp=share_link

MOUs: 2020 : NIL

Sl.No	Name of the Industry/Research organization with complete Address, Email ID, Phone No	Description of the MoUs/Activities taken	MoU signed date	Valid till	Term	Link

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MOUs: 2021

Sl.No	Name of the Industry/Research organization with complete Address, Email ID, Phone No	Description of the MoUs/Activities taken	MoU signed date	Valid till	Term	Link
1.	SkillVertex, Upskilling Edu.Tech Pvt.Ltd	FDP / Internship	22/10/2021			https://drive.google.com/file/d/1FLQn9Sprfkaez2kvtztGXTyDmKPOLUBO/view?usp=share_link
2.	Entuple Technologies(P) Ltd	FDP / Internship	22/10/2021			https://drive.google.com/file/d/17F4JfC2xz1Xkyh02DWXt4isPqpquDCJk/view?usp=share_link
3.	JK Infotech	FDP / Internship	21/03/2021			https://drive.google.com/file/d/11ujESGQFwrO7iui6lIRTRIbDd7uB4QfU/view?usp=share_link

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MOUs: 2022

Sl.No	Name of the Industry/Research organization with complete Address, Email ID, Phone No	Description of the MoUs/Activities taken	MoU signed date	Valid till	Term	Link
1	Aparimitha Tech Innovators	FDP / Internship	12/04/2022			https://drive.google.com/file/d/1l_7wJEXeXzYvCwl81sdYab4oR9b_LBuK/view?usp=share_link

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International Journals

Student Publications: 2019

Sl. No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol. NO	Issue No	Year	Link
1	Anand H D, Deepa D. N, Dhanush Gowrav Gowda K. S, Harshitha S, Hemanth H. Gowda		**"IoT V2I communication-rescue time"**	International Journal of Advance Research, Ideas and Innovations in Technology (IJARIIT)			5	3	2019	https://www.ijariit.com/manuscripts/v5i3/V5I3-1319.pdf
2	NAGARATHNA H S	1.1DA15EC065 2.1DA15EC066 3.1DA15EC113 4.1DA15EC117	IoT Based Crop Loss Prediction, Assessment and Evidence Collection	IJSRD - International Journal for Scientific Research & Development|	2019	460 to 462	Vol. 7,	Issue 03, 2019 | ISSN (online): 2321-0613	2019	https://www.ijsrd.com/articles/
3	NAGARATHNA H S	1DA15EC060 2.1DA15EC085 3.1DA14EC086 4.1DA15EC420	Generation of Electricity through Speed Breaker Mechanism	IJSRD - International Journal for Scientific Research & Development|	2019	112 To 118	Vol. 7,	Issue 03, 2019	2019	https://www.ijsrd.com/articles/

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4	Hemalatha K N, Shashikala M R, Seema Bhanu K I, Shwetha S M, Sundari G	1DA16EC427 1DA16EC428 1DA16EC430 1DA16EC431	Performance analysis of floating-point multiplier Designs	International Journal for research in applied science & Engineering Technology (IJRASET)		2415-2421	SJ Impact factor:7.177, Issue V, Volume 7 ISSN:2321-9653,	5	May 2019	
5	Ashika B. P Anuradha Prakash Ravikumar K.R Girija S	1DA15EC019 1DA15EC014	VHDL implementation of acquisition sensor for optical communication terminal	International Journal of Advance Research, Ideas and Innovations in Technology		462-466	5	3	2019	
6	Chandrakanth R Bharath K. Bhargava U. G. Chinmaya G. Girija S.	1DA14EC034 1DA15EC021 1DA15EC024 1DA15EC037	Gesture recognition using RF signals	International Journal of Advance Research, Ideas and Innovations in Technology		332-335	5	3	2019	

	Bharath K. Bhargava U. G. Girija S.	1DA15EC021 1DA15EC024	Portable biometrics using LoRa modulated interface			341-346	5	3	2019	
7	B S SUDHA	Neethu Shankar R S	An Efficient VLSI Implementation of BIST based on Secure Scan Cell Logic	International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181http://www.ijert.org IJERTV8IS070249	July-2019	553-555	Vol. 8	Issue 07	2019	http://www.ijert.org
8	Bharathi S		An Efficient Implementation of MIL_STD_1553B Bus Controller Module Using Verilog HDL		http://doi.org/10.5281/zenodo.3577627	25-35	4	3	2019	http://doi.org/10.5281/zenodo.3577627
9	Dileep Dharmappa		Binary Sequences having Good Correlation		https://www.ijrte.org/wp-content/uploads/paper	61-67	7	5S2	2019	https://www.ijrte.org/wp-content/uploads/papers/v7i5s2/ES2008017519.pdf

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			and Large Linear Complexity Properties for Satellite Navigation Applications		s/v7i5s2/ES2008017519.pdf					
10	Pushpalatha G S		Voice Encryption with Watermarking for Secure Speech Communication		https://www.jetir.org/papers/JETIR1901A52.pdf	404-414	6	2	2019	https://www.jetir.org/papers/JETIR1901A52.pdf
11	**Ranjan H K**		Implementation of DVFS Technique for Processor Power and Temperature Reduction		http://doi.org/10.5281/zenodo.3446291	1-9	Volume 4	Issue 3	2019	https://core.ac.uk/download/pdf/230493691.pdf

Student Publications: 2020

Sl. No	Name of the Student/Na	USN	Title of the Paper	Research description	Date of Introduction	PP	Vol. NO	Issue No	Year	Link

	me of the Guide				(DOI)					
1	Anand H D, Mahalakshmi V, Mahanthesh V Dambal, Savitha, Shalini S,		**"Micro Robot"**	International Journal for Research in Applied Science & Engineering Technology (IJRASET)			08	VI	2020	https://www.ijraset.com/fileserve.php?FID=29656
2	Ashika V, Priyanka G, Shriya S, Umme Haani, Hemalatha K N,		Internal inline inspection and rectification BOT	International research journal of engineering and technology (IRJET)		7151-7155	Volume 7, Issue 5, Impact factor 7.52, e-ISSN:2395-0056,	5	May-2020	
3	Keerti N. Shetty, Kiran Kolagad, Nakul C. Kubsad,		Smart wearable device for asthma patients	International journal for research in applied science & engineering technology (IJRASET)		909-912	Volume 8, Issue 5, SJ Impa	5	May-2020	

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	Prajwal B. J., Prof. K. N Hemalatha						ct factor:7.429, ISSN:2321-9653,			
4	Guide--- Sajidha Thabassum B		Smart Stick For Assisting Blind People And Communication Engineering	1st International Conference On Recent Trends & Development In Information Dr AIT Bangalore			23rd Oct 2020 ISBN 9788192710471			
5	Aprameya R S Bhargavi N S Karthik S Girija S	1DA16EC016 1DA16EC024 1DA16EC054	Optimized Reversible Arithmetic and Logic Unit (ALU)	International Journal of Engineering Research and Applications		33-38	10	8	2020	
6	Prajwal A Ramanju B V Ranjith R Supriya M Girija S"	1DA16EC080 1DA16EC094 1DA16EC	Uav Hand-Over Entity	International Research Journal of Engineering and Technology (IRJET)		1084-1088	7	8	1084-1088	

		095								
7	B S SUDHA	Prajwal M C1, Prashantha G2, Raghavendra T3, Rajesab N Y4,	Development of Colour based Tomato Harvesting Robot	International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 8 Issue VIII - Available at www.ijraset.com	AUG-2020	974-975	8	VIII	2020	https://doi.org/10.22214/ijraset.2020.31075
8	Dileep Dharmappa		Generation of binary sequences of length 10230 bits having better odd and even correlation with large linear complexity for use in Global Navigation Satellites Systems (GNSS) Applications		https://doi.org/10.18280/mmep.070112	94-102	7	5S2	2020	https://www.iieta.org/journals/mmep/paper/10.18280/mmep.070112

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	Premakumar MN		Efficient Temporal-key Based Encryption Mechanism for WSN-ETEM		DOI: 10.35940/ijitee.E2147.039520	143-148	9	5	2020	https://www.ijitee.org/wp-content/uploads/papers/v9i5/E2147039520.pdf

Student Publications: 2021

Sl. No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol. NO	Issue No	Year	Link
1	Shashank b baragur, kiran kumar b m, touqeer pasha, Pratheepkumar n m, Hemalatha k n	1DA17EC127 1DA17EC143 1DA18EC417 1DA18EC434	E-cradle for infant care",	International Journal of Research Publication and Review		677-680	Vol (2) Issue (8), Page 677-680, 2021,	8	2021	
2	Hemalatha K N, Aishwarya Kamakodi, A Soppia, A Poornima	1DA17EC001 1DA17EC002 1DA17EC007	Unsigned Array Multiplier Design Using Reversible Logic	International Journal of Research Publication and Reviews		558-564	Vol (2) Issue (4) Page 558-564, 2021	4	2021	

3	B S SUDHA	Mounika Reddy R	Verification of digital PLL using UVM Methodology	JETIR	November 2021	a184-a190	Volume 8	Issue 11	2021	www.jetir.org
4	B S SUDHA	RAHUL MADHUKARA SHANBOG,SHAIK HUSSAIN ,SHREYAS H.K,SHREYAS S	Automatic segregation of waste using robotic arm	| IJCRT, ISSN: 2320-2882	July 2021,	f32 – f35	Volume 9	Issue 7	2021	www.ijcrt.org
5	B S SUDHA	MahimaShaini, Likitha M, Omkar Chavan, Prashant Kumar	Rescue Robot for Human Detection	International Journal of Research Publication and Reviews Journal ISSN 2582-7421	2021	Page 1046-1049	Vol(2))	Issue (7)	2021	www.ijrpr.com
6	Vani K		Regression test automation for the security and geo-resiliency of airscale			10500 - 10508	2021	9	2021	http://www.thedesignengineering.com/index.php/DE/article/view/8162

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			radio network controller in umts/w-cdma mobile networks							
7	Anusha R Naganur		Design and ASIC Implementation of Efficient 8-bit Integer Division Algorithms		https://www.annalsofrscb.ro/index.php/journal/article/view/4175	12463 – 12474	25	04	2021	https://www.annalsofrscb.ro/index.php/journal/article/view/4175
8	**Ramappa Hiremani**	1DA19LVS09	Performance Analysis of Task Scheduling Algorithms for Energy Efficiencyin Mobile Cloud Computing Environment		http://www.thedesignengineering.com/index.php/DE/article/view/5977	9347-9361	2021	08		http://www.thedesignengineering.com/index.php/DE/article/view/5977

Student Publications: 2022

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Sl. No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol. NO	Issue No	Year	Link
1	Anand H D, Sagar Rajanal, Shashank J S, Shreedhara G, Vijayakumar Arahunasi,		**"Ultra Violet Sanitization Mobile Robot**	Gradiva Review journal			***08***	7	2022	https://gradivareview.com/volume-8-issue-7-2022/
2	Kiran Gowda	1DA19LVS04	Robust and Secure Data Hiding-Application For Image And Audio Using LSB Method	steganography approach based on adaptive least significant bit be utilized (LSB) is studied.	DOI:16.10098.NMRJ.2022.V7I3.256342.2034	45-55	7	3	2022	https://app.box.com/s/3lsygxyjbvpor97frku6rr9ckboqhrgj
3	Hemalatha K N, Sachin R Achari, Vinay Kumar H S, Sachin S Shet, Vinod	1DA19EC433 1DA19EC434 1DA19EC438 1DA19EC439	Railway Register and Track Safety Monitoring System	IJIRT		225-228	Volume 9 Issue 2 | ISSN: 2349-	2	2022	

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							6002, July-2022 IJIRT			
4	Hemalatha K N, Aashrithest H G, Deepak S, Kiran S L, Likitha H T	1DA19EC408 1DA19EC409 1DA19EC413 1DA19EC418	Solar Powered Wheelchair with Voice Control and Gesture Controller	IJIRT		834-847	Volume 9 Issue 2, ISSN: 2349-6002, July-2022	2	2022	
5	Girija S, Surya A M, Ullas C, Shaik Shadab Hossain	1DA18EC142 1DA18EC147 1DA18EC0121	Blockchain Implementation in Educational System	International Research Journal of Engineering and Technology						
6	B S SUDHA	TEJASWINI S	Design and Simulation of BFV Homomorphic Encryption/ decryption	High Technology Letters ISSN NO : 1006-6748	2022	401-412	Volume 28	Issue 10	2022	http://www.gjstx-e.cn

			Architecture Using AES							
7	S.V. Sunitha, Shivaputra, S. Soundeswaran	1DA16PEJ29	Comparative landmark detection on stops of dysarthric speech	Dysarthria is a disease of motor speech that affects millions of individuals. This impairment induces wrongly pronounced phonemes, variable speech amplitude, low articulation, etc resulting in poor intelligibility. Significant time instants known as landmarks are detected for modifications in the distorted dysarthric speech. The difficulty in accurately locating the regions for modification in an automated fashion is one of the most pre-dominant challenges. Hence it is important to detect the landmarks accurately and modifications have to be carried out for the	https://doi.org/10.1016/j.bspc.2022.104125	1-9	79	1	2022	https://doi.org/10.1016/j.bspc.2022.104125

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				segment of interest based on estimates. This work aims at identifying the stop consonants in dysarthric speech accurately, in particular, closure onset and burst onset landmarks for stops and, also comparing landmark detection by automatic and manual procedures to improve the intelligibility of dysarthric speech. Automatic landmark detection by using energy derivatives gives more accurate landmark detection than Manual landmark detection. Praat software and Speechmark toolbox are used to detect landmarks						
8	Soumyashree M Panchal, Shivaputra	1DA16PEJ29	Precise identification of objects in a hyperspectral image by		DOI: http://doi.org/10.11591/ijece.v12i6.pp6068-6078	6068-6078	12	6	2022	http://doi.org/10.11591/ijece.v12i6.pp6068-6078

			characterizing the distribution of pure signatures							
9	**ABHILASH B**	1DA19LVS01	DESIGN AND SIMULATION OF ENERGY-EFFICIENT PIPELINED RISC PROCESSOR USING VERILOG			782-793	28	6	2022	https://drive.google.com/file/d/15zi6shWFWklus4e_Iavr8EoNmnFg-T_x/view
10	**Chaitra R**	1DA20LVS02	Development of Embedded System for Collision Detection using Image Processing for an UAV applications on			1-8	10	4	2022	http://www.ijreat.org/Papers%202022/Issue58/IJREATV10I4001.pdf

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			ARM Cortex-A53 Processor							

National Journals

Student Publications: 2019

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
	NIL	NIL	NIL	NIL	NIL	NIL				

Student Publications: 2020

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
	NIL	NIL	NIL	NIL	NIL	NIL				

Student Publications: 2021

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
	NIL	NIL	NIL	NIL	NIL	NIL				

Student Publications: 2022

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Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1	Girija. S, Dikshith G, Ishitha N	1DA18EC040 1DA18EC054	Covid Screening witg QR Based Identity Recognition System ,2022	7th International Conference on Microelectronics, Computing and Communication Systems(MCCS-2022)						

International Conference

Student Publications: 2019

Sl. No	Name of the Student/ Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1	Prathima N	1DA17LVS10	ASIC Implementation of Rabbit Stream Cipher Encryption for Data	The new pipelined approach is proposed for Stream encryption means each letter one by one followed by the changing the encryption key after each letter.	10.1109/WIECON-ECE48653.2019.9019903	1-4	-	-	2019	https://www.researchgate.net/publication/339656202_ASIC_Implementation_of_Rabbit_Stream_Cipher_Encryption_for_Data

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				Here the work presents the design, simulation, and synthesis.						

Student Publications: 2020

Sl. No	Name of the Student/ Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1	Sushmitha M	1DA18LVS10	An Efficient High-Speed Lifting Based 1D/2D-DWT VLSI Architecture Using CDF-5/3 Wavelet Transform For Image Processing Applications	In this paper, we have proposed an architecture for lifting scheme based CDF-5/3 2D-DWT, which includes less mathematical computations and high speed is achieved compared to existing works.	DOI: 10.1109/RTEICT49044.2020.9315649	269-274	-	-	2020	https://www.researchgate.net/publication/348630779_An_Efficient_High-Speed_Lifting_Based_1D2D-DWT_VLSI_Architecture_Using_CDF-53_Wavelet_Transform_For_Image_Processing_Applications
2	Premakumar MN		A Novel Security Scheme of Temporal-Key Based		10.1007/978-3-030-37051-0_17	152–161			2020	https://link.springer.com/chapter/10.1007/978-3-030-37051-0_17

			Encryption Policy in Sensor Applications							
3	Renuka N and Shivaputra	1DA19LVS11	A Comprehensive Analysis of Fruit and Vegetable Image Classification Techniques	Classification of fruits and vegetables is tedious, the traditional approach of identifying based on naked eye observation by the experts leads to both time consuming and causes eye fatigue. Through this work, different approaches have been studied and their accuracy and performance level.	ISBN: 978-93-88047-70-8	29-40			2020	
4	Renuka N and Shivaputra	1DA19LVS11	Design and Efficient Implementation of floating point multiplier using pipelined Architecture	In this work single precision binary floating point number has been implemented using Xilinx 14.7 software. In the implementation Wallace tree multiplier and Kogge stone	ISBN : 9788192710471	247-252			2020	

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				adder is used to improve the speed of the multiplication and pipelined architecture has been used to further improve the performance of the Single precision floating point multiplier.						
5	Meghana S Rameshа ,Shivaputra		Chaotic based Grain 128-bit stream cipher for image encryption	Secure transmission and storage of data are most important for a successful communication system. Cryptography protects the information so that the intruder cannot have access to the data of interest. There are various algorithms implemented to transform the information to be transmitted into cipher form so that it does not have any traces		557-589			2020	

				of its original form and can be protected from trespasser. Chaotic based Grain 128-bit is a stream cipher made up of a linear and a non-linear feedback shift registers, which is fed by a chaotic logistic map and a Boolean non-linear filter, which is fed by both LFSR and NLFSR. Key is generated using Chaotic based Grain 128-bit stream cipher and is used in the application for image encryption.						
6	G Sowmya Padukone, H Umadevi, Shivaputra and Meenak		Analysis and Design of an Optical Biosensor Using Mathematical Modeling	The waves are electromagnetic waves (EM waves) where electric and magnetic waves are perpendicular to each other. These sensors are used to		481-491			2020	DOI: 10.1007/978-981-15-6619-6_53

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	shi L Rathod			detect diseases like cancer, forensic analysis, pattern, parental recognition, pattern recognition, etc. But, photonic biosensors are first designed so as to get the optical-designed simulation pattern using MEEP and opti-FDTD algorithms. The patterns are nothing but light wave patterns. These patterns are analogous to electromagnetic waves. These waves are linked mathematically by using different laws and equations. The study of mathematical model for generation of images and simulation is done mainly in this paper. Mathematical modeling of any						

				sensor is an excellent approach to design and model it.						
7	NASREEN	1DA19LVS07	"Digital Outing System Using IoT"	In this paper, the implementation of the Digital Outing System Using IoT is done using PHP, XAMPP and Arduino. It is an RFID Based Attendance System Using NodeMCU and MFRC522. It can be useful in different places like schools, colleges, industry and private organizations to register the attendance of students, teachers, employees, etc. It is also used to tabulate monthly/daily working hours automatically by using the time-in and time-out details.	23rd October 2020		Proceedings of AICTE Sponsored 1st International E-Conference On "Recent Trends & Development in Information and Communication Engineering" (ICRTDIC-2020) 23rd October 2020, ISBN : 9788192710471			https://drive.google.com/file/d/1I7CiNgfAqrDMe1fwmxJALBSvmuYMP4Op/view

Student Publications: 2021

Sl.No	Name of the Student/Name of the	USN	Title of the Paper	Research description	Date of Introduction	PP	Vol.NO	Issue No	Year	Link

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	Guide				(DOI)					
1	N Renuka, Shivaputra, MD Rudresh, L Rathod Meenakshi	1DA19LVS11	An Efficient FPGA Architecture to Automatically Detect the Condition of Orange Fruit	Fruit classification is a time-consuming process, and the conventional method of identifying based on naked-eye observation by experts is both time- consuming and induces eye fatigue. Images must be precise and in static environment to ensure that precision and output of the information collected are critical and viable. The work proposes automatic orange fruit classification system architecture and is being coded using VHDL language and implemented using SPARTAN 6 FPGA. To get optimized hardware architecture, the filter, feature extraction, and matching blocks are optimized in terms of hardware utilization.	DOI 10.2991/ahis.k.210913.050	407 - 413	4		2021	DOI 10.2991/ahis.k.210913.050

				To retain the fruit properties at fruit extraction, Q-point numbers are noted. The results are compared and proven that the proposed architecture is efficient and is giving success rate of 88% in detecting the fruit condition effectively with fewer hardware resources.						
2	Shivaprasad Umarani;Meenakshi L Rathod	1DA18LVS07	ASIC Implementation and Analysis of Logic BIST Controller for Ripple Carry Adder at Different Technology	Logic-Built-In-Self-Test (LBIST) is an architectural methodology that tests the Circuit Under Test (CUT) by itself. An Application Specific Integrated Circuit (ASIC) LBIST method is proposed which generates patterns of weighted pseudorandom tests for the CUT. A technique used for testing combinational blocks, sequential blocks, memories, adders, and	**Date of Conference:** 25-27 June 2021 **Date Added to IEEE *Xplore*:** 04 August 2021		**Electronic ISBN:** 978-1-7281-8583-5 **CD:**978-1-7281-8581-1 **USB ISBN:** 978-1-7281-		2021	10.1109/CONIT51480.2021.9498398 **Publisher:** IEEE **Conference Location:** Hubli, India

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				other embedded logic blocks is Built In Self Test (BIST).			8582-8 **Print on Demand(PoD) ISBN:** 978-1-7281-8584-2			

Student Publications: 2022

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1	R Akash; H R Varunkumar; Y Karthik Bhat; R Prajwal; Meenakshi L Rathod	1DA18EC003, 1DA17EC147,1DA18EC060	Coal Mine Safety Monitoring and Alerting System	Any type of industry must prioritise safety. The mining sector places a premium on everyone's safety and security. The mining industry takes a good amount of simple steps to prevent accidents of all kinds in mining. Still, methane gas leaks, elevated water levels, and temperature increases all contribute to mishaps in underground mines. We						

				offer worker safety here. When a worker is in danger, he can activate the panic button to alert security. A trustworthy communication system between underground mine employees and the fixed ground mine system must be built in order to increase safety in underground mines.						
2	Nayana Shivanand, Dr.Meenakshi L Rathod ,Dr.Chetan S	1DA20LVS04	FPGA BASED VENDING MACHINE FOR LOGICAL GATES	Recently we have seen many Vending machines dispense things like toys, chocolates, shakes, snacks, lottery tickets, etc. Vending machines automatically dispense the different products when a consumer puts a currency or colored or different size token. The requirements for modern vending machines are increasing rapidly due to their ease of use. The paper aims to design a vending machine that dispenses the Eight different Integrated Ic's. Users can select the desired product and quantity of the product when they insert the currency. The machine also shows the available stock						

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				and total amount for the entered product. Here we are using FPGA to design this Vending Machine as FPGAs are more flexible than Embedded systems.						

National Conference

Student Publications: 2019

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1	NAGARATHNA H S	1DA15EC060 2.1DA15EC085 3.1DA14EC086 4.1DA15EC420	Generation of Electricity through Speed Breaker Mechanism	Presented paper in National Conference (NCRTEIEC) on Dr AIT ,Bengaluru . Held during	7th and 8th June2019.					
2	Girija. S Manasvi V Prajwal A Ramanju B. V, Ranjith R	1DA16EC080 1DA16EC094 1DA16EC095	Smart Blind Guider	National Conference on Recent Trends in Electrical, Instrumentation, Electronics and Communication			Dr.AIT, proceedings not available		2019	
3	Girija. S Ajith Babu Ajith Shanbhigue	1DA16EC009 1DA16EC010	Text - Based Emotional	National Conference on Recent Trends in			Dr.AIT, proceedings not available		2019	

	Abhishek Solanki Balaji Bhalke	1DA16EC003 1DA16EC021	Analyzer	Electrical, Instrumentation, Electronics and Communication						

Student Publications: 2020

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
	NIL	NIL	NIL	NIL	NIL	NIL				

Student Publications: 2021

Sl.No	Name of the Student/Name of the Guide	USN	Title of the Paper	Research description	Date of Introduction (DOI)	PP	Vol.NO	Issue No	Year	Link
1	Lavnya A B, Nagaveni N, Keerthana R, Girija S	1DA17EC068 1DA17EC081 1DA17EC057	Design and Implementation arithmetic circuits adaptable to Quantum Computing	Fourth National conference on Emerging trends in Engineering, Science and Technology					2021	

Student Publications: 2022

Sl.No	Name of the Student/Name	USN	Title of the	Research description	Date of Introduction	PP	Vol.NO	Issue No	Year	Link

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	of the Guide		Paper		(DOI)					
	NIL	NIL	NIL	NIL	NIL	NIL				

Department of Electronics and Communication Engineering

Quarterly plan to realize annual Target(Calender Year 2023)

#	Major/Minor Activity	Target: Quarter-1			Target: Quarter-2			Target: Quarter-3			Target: Quarter-4			Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	R & D Avareness Program(Publication, Patent,Funding)-Internal Experts	2	2	2	2	2	2	2	2	2	2	2	2	24
2	R & D Avareness Program(Publication, Patent,Funding)-External Experts	1	1	1	1	1	1	1	1	1	1	1	1	12
3	Research Publications Indexed in Scopus / WoS / SCIE - as 1st Author(01 per Faculty per Sem including Student Project)	2	2	2	2	2	2	2	2	2	2	2	2	24
4	Patents - Published (01 per PhD Faculty Per Year)	1	1	1	1	1	1	1	1	1	1	1	1	12
5	Patents - Published (01 per PhD Faculty Per Year)			2			2			2			2	8
6	Research Grants - Applied (01 per PhD Faculty Per Year)			1			2			3				6
7	Research Grants - Granted (01 per Department Per Year)			2			2			3			4	11
8	Consultancy (Rs.10,000/- or more) - For Each Department			1			2			3			4	10
9	MOUs / IIC Labs (01 Per Department Per Year)			1			1			1			1	4
10	Student Projects (Financial Support From KSCST / VTU etc)				10								5	15
11	FDPs on Research, Consultancy, Patents and related activities(FDP - 04Nos ATAL FDP / IIT / IIM / NITs per year)			10			30			25			30	95
12	Organizing Student - R&D Events (For Dr AIT)						1						1	2
13	Visit to Industry and ResearchOrganizations(IISc /IIT / IIM / NIT / NIRF Top 25 Govt Institutes / R&D Labs) by Dr AIT R&D Department Members	1	1	1	1	1	1	1	1	1	1	1	1	12

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Name of the Department:..... E.C.E

Publication Statistics

	Publications								
Year	Scopus Publications	WoS publications	Citations	Crossreference citations	h-index	i-index	google scholar citations	books	Book chapter
2022	8	3	35		11	2	56	1	1
2021	13	1	24		13	1			
2020	3	1	16		4				1
2019	4	2	8		6				
2018	3		13		3				
2017	2	2	13		4				
2016	1	1	20		2				
2015			6						
2014			5						
2013			4						
2012			1						1
2011			1						
2010									
2009									
2008									
2007			4						
2006									
2005									
2004									
2003									
2002			3						
2001			3						
2000									

h-index * - based on number of paper indexed

i-index * - based on number of paper indexed

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