

Name of the Institution

R V College of Engineering

Name of the Research Centre

Instrumentation Technology



VISVESVARAYATECHNOLOGICAL UNIVERSITY,

“Jnana Sangama”

Belagavi-590018, Karnataka State.

PROGRESS REPORT OF RESEARCH CENTRE FOR CONTINUATION OF RECOGNITION
OF
INSTRUMENTATION TECHNOLOGY RESEARCH CENTRE

Name of the Recognized Research Centre	Instrumentation Technology
Year of Estb. as Research Centre	2011
Number of Eligible(Registered, VTU) Supervisors	07
Number of Candidates Registered for Ph.D	13
Number of Candidates Registered for M.Sc. (Engg) by Research	01
Number of faculty with Ph.D	11
Number of Professors in the department	02
Number of Assoc. Prof. in the department	05
Number of Asst. Prof. in the department	07

PROGRESS REPORT OF RESEARCH CENTRE FOR CONTINUATION OF RECOGNITION

Details of Research Supervisors

Sl. No	Name of the Research Supervisor	Name of the university from which Ph.D is awarded	Year of Award	Specialization	Department	No. of Candidates Registered for		Status of Completion		
						Ph.D	M.Sc (Engg.)	No. of Candidates completed course work	No. of candidates completed comprehensive Viva – Voce	No. of candidate completed/ submitted Final Thesis
1	Dr.K B Ramesh	KUVEMPU, Karnataka	2013	Biomedical Engineering	Instrumentation Technology	04	-	04	04	03 (03, Awarded)
2	Dr.Padmaja K V	VTU, Belagavi	2010	Electrical & Electronics Engineering Sciences	Instrumentation Technology	02	-	02	02	01 (Awarded),01 (Viva done)
3	Dr.S.C.Prasanna Kumar	AVINASHIL INGAM University	2009	Signal Processing	Instrumentation Technology	07	01	05	05	05 (05Awarded)
4	Dr.Anand Jatti	VTU, Belagavi	2013	Electrical & Electronics Engineering Sciences	Instrumentation Technology	08	-	07	07	06 (04 Awarded, 01 Viva done, 01 submitted)
5	Dr.B.G. Sudarshan	AVINASHIL INGAM University	2009	Biomedical Engineering	Instrumentation Technology	02	-	02	02	Awarded 01
6	Dr.CH Renumadhavi	AVINASHIL INGAM University	2015	Biomedical Signal processing	Instrumentation Technology	06	-	02	02	02(Submitted and viva done 02)
7	Dr.Rachana S Akki	IIT Madras	2019	Microwave Radiometry	Instrumentation technology	-	-	-	-	-

				Infrared Thermography BioMedical Imaging						
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PROGRESS REPORT OF RESEARCH CENTRE FOR CONTINUATION OF RECOGNITION**Details of Research Scholars**

Sl. No	Name of the Research Scholar	USN	Dept.	Registered for			Status of Completion of		
				Year of Registration	Ph.D	M.Sc. (Engg.) by Research	Course Work [Y/No]	Comprehensive Viva – Voce {Y/ N}	Submitted Final Thesis [Y/ N]
Under Dr.S.C.Prasannakumar									
1	Mrs.Fremina James	1RV12MEN01 (M.Sc Engg)	Instrumentation Technology	2012	-	Y	Y	Y	N
2	Mr. Murali Sheyan H	1RV12PEN24	Instrumentation Technology	2012	Y		Y	Y	N
Under Dr.K B Ramesh									
4	Mr.Siddramappa	1RV13PEN22	Instrumentation Technology	2013	Y		Y	Y	N
5	Mr.Narendra Kumar	1RV16PEJ06	Instrumentation Technology	2015	Y		Y	Y	N
Under Dr.Anand Jatti									
6	Mrs.Veena.R	1RV15PEJ02	Instrumentation Technology	2015	Y		Y	Y	N
7	Savitha.K	1RV15PEJ17	Instrumentation Technology	2015	Y		Y	N	N
Under Dr.B.G.Sudarshan									
8	Mrs.Sharada Suresh Dambal	1RV17PES?05	Instrumentation Technology	2017	Y		Y	Y	N
Under Dr.CH.Renumadhavi									
9	Shilpa Chippalakatti	1RV18PIT02	Instrumentation Technology	2017	Y		Y	N	N
10	Swetha.V	1RV17PES07	Instrumentation Technology	2017	Y		Y	Y	Y
11	Chalapathi Raju	1RV18PIT01	Instrumentation Technology	2018	Y		Y	N	N
12	Sumangala Gejje	1RV19PIT01	Instrumentation Technology	2019	Y		N	N	N

13 - Ph.D, 01 - M.Sc.

PROGRESS REPORT OF RESEARCH CENTRE FOR CONTINUATION OF RECOGNITION

Publication Details

Sl. No	Name of the Person	Title of Paper	Publication Citation	National or International
1.	Mr.Kendaganna Swamy S	Random Arbiter & Platform level design for improving the performance of 4x4 NoC.	1	Electrical, Electronics and Optimization Techniques-IEEE International Conference March-April 2016
2.	Mr.Kendaganna Swamy S	Performance enhancement and area optimization of 3× 3 NoC using random arbiter	2	Advance Computing Conference (IACC), 2015 IEEE International, 11-15
3.	Mr.Kendaganna Swamy S	Platform level design for Network on Chips	1	Advance Computing Conference (IACC), 2015 IEEE International, 16-19
4.	Mr.Kendaganna Swamy S	A Literature Review of on-ChipNetwork Design using an Agent-based Management Method	-	International Journal of Engineering Research & Technology, Vol. 3 – Issue 12 ,December 2014
5.	Mr.Kendaganna Swamy S	Design and implementation of secured agent based noc using shortest path routing algorithm.		Published in International Journal of Electrical and Computer Engineering during 2019.
6.	Mrs. Vidya M J	Affirmation of electronic patient record through bio-electric signal for medical data encryption authenticity	-	The 2017 IEEE Region 10 Conference (TENCON) Penang, Malaysia on 5 – 8 November 2017.
7.	Mrs. Vidya M J	Appending Photoplethysmographic Signal as a security key for encryption of Medical Image using Watermarking Technique	-	2 nd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017) Springer organized by Central University of Rajasthan, Ajmer, 23 rd -25 th November 2017.
8.	Mrs. Vidya M J	Enhancing Security Of Electronic Patient Record Using Watermarking Technique	-	2 nd International Conference on Large Area Flexible Microelectronics (ILAFM), "" in the R. V. College of Engineering, Bangalore, 21 st -22 nd December 2016
9.	Mrs. Vidya M J	An Indigenous PPG Acquisition System Using Monolithic Photo-detector OPT101	-	IEEE, International conference on Signal Processing, Communication, Power and Embedded System (SCOPE-2016), Centurion University, October 03-05, 2016 in Paralakhemundi, Odisha.

Sl. No	Name of the Person	Title of Paper	Publication Citation	National or International
10.	Mrs. Vidya M J	Computation of Image Compression Using Haar Wavelet Transform to Reduce Redundancy at different levels	-	International Journal of Advanced research in computer and communication engineering (IJARCCE), Vol. 5, Issue 9, September 2016.
11.	Mrs. Vidya M J	Implementation of Cost-effective Wrist-based BP monitor	-	National Conference on “Information and Communication Technologies”, 16 th – 18 th May 2016, Department of TCE, R.V. C.E, Bengaluru
12.	Mrs.Vidya.M.J	Feasibility of Authenticating Medical Data Using Photoplethysmography (ppg) as Signature Mark”	-	International Journal of Advanced Research in Computer Science and Software Engineering
13.	Mrs.Vidya.M.J	Medical Data Storage By Watermarking Scheme Using Biometric Authentication”	-	International Congress of Environmental Research-14, December 26-28 th 2014.
14.	Mrs.Vidya.M.J	Implementation of Discrete Wavelet Transform (DWT) Watermark Technique on Digital Data	-	National Conference on Research Challenges in Power, Control, Communication and Instrumentation leading to Sustainable Technologies, RVCE, Bangalore, Apr 2015.
15.	Mrs.Vinila Nagraj	6LoWPAN based intelligent transport system for surveillance-A model of ubiquitous computing technology	-	International Conference on Ubiquitous and Future Networks, ICUFN 2016
16.	Mrs. Deepashree Devaraj	Robust detection of Hard exudates for diagnosis of Non-Proliferative Diabetic Retinopathy using Integrated approach	-	8 th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2016),VIT University, Vellore, India December 19-21, 2016
17.	Mrs. Deepashree Devaraj	Review on Segmentation of Exudates and Microaneurysms for Early Detection of Diabetic Retinopathy	-	Second International Conference on Large Area Flexible Microelectronics (ILAFM 2016) Theme: Wearable Electronics, 20-22December, 2016
18.	Mrs. Deepashree Devaraj	Comparative study of imaging transforms on diabetic retinopathy images	-	IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT),20-21 May 2016
Sl. No	Name of the Person	Title of Paper	Publication Citation	National or International

			Citation	
19.	Mrs. Deepashree Devaraj	A survey on different Classifiers for Medical diagnosis and Grading: Application to Diabetic Retinopathy	-	International Journal of Health Sciences, Research Publish Journals
20.	Mrs. Deepashree Devaraj	A Survey on Microaneurysm Detection for Early Diagnosis of Diabetic Retinopathy	-	International Journal of Engineering science and Innovative Technology
21.	Mrs. Deepashree Devaraj	Automated diagnosis of Diabetic Retinopathy using SVM and Multiclass SVM	-	The International Journal of Advanced Scientific and Technical research
22.	Mrs. Deepashree Devaraj	Vessels Segmentation In Diabetic Retinopathy By Adaptive Median Thresholding	8	The International Journal Of Science & Technology
23.	Mrs. Deepashree Devaraj	Detection of Exudates through Local Binary Pattern in Diabetic Retinopathy	-	in 3 rd International conference on Cognitive computing and Information processing (CCIP 2017)held at JSSATE, Bengaluru on 15 th -16 th December 2017.
24.	Mrs. Deepashree Devaraj,	Robust detection of Hard exudates for diagnosis of Non-Proliferative Diabetic Retinopathy using Integrated approach	-	Advances in Intelligent Systems and Computing, Vol.614, pgs 525-534. DOI: 10.1007/978-3-319-60618-7_52.
25.	Mrs. Deepashree Devaraj	Automatic Exudate detection for the diagnosis of Diabetic Retinopathy	5	International Journal of Innovative Research and Studies
26.	Mrs. Deepashree Devaraj	A Review On Blood Vessel Segmentation Techniques In Retinal Fundus Images	-	In the Proceedings of 7 th International Congress of Environmental Research ICER-2014
27.	Mrs. Deepashree Devaraj	Blood Vessels Segmentation with GUI in Digital Fundus Images for Automated detection of Diabetic Retinopathy	08	In the Proceedings of IEEE 1 st International Conference on Contemporary Computing and Informatics-2014(IC3I-2014)
28.	Mrs. Deepashree Devaraj	Detection of Microaneurysms for Early Diagnosis of Diabetic Retinopathy	-	National Conference on Research Challenges in Power, Control, Communication and Instrumentation leading to Sustainable Technologies, RVCE, Bangalore, Apr, 2015.
Sl. No	Name of the Person	Title of Paper	Publicat ion	National or International

Sl. No	Name of the Person	Title of Paper	Publication	National or International
29.	Mrs. Deepashree Devaraj	Detection of exudates using the method of morphology for the diagnosis of DR	-	National Conference on Research Challenges in Power, Control, Communication and Instrumentation leading to Sustainable Technologies, RVCE, Bangalore, Apr, 2015.
30.	Mrs. DeepashreeDevaraj	A review on exudates detection in the Diagnosis of Diabetic Retinopathy”,	-	International Journal of Innovative Research & Development, Volume 2, Issue 4, April 2013, Page No 570-581.
31.	Mrs. DeepashreeDevaraj	Review of retinal microaneurysm detection methods for Automated diagnosis of Diabetic Retinopathy	-	International Journal of Innovative Research & Development, Volume 2, Issue 4, April 2013, Page No 244-253.
32.	Mrs. DeepashreeDevaraj	Detection of red lesion in Diabetic Retinopathy thresholding method	03	International Journal of Engineering & Research & Technology, Volume 2, Issue 4, April 2013, Page No 1889-1892.
33.	Ms. Sushma S J	Image Enhancement Using Bio-Inspired Algorithms on Mammogram for Cancer Detection.	-	In the Proceedings of IEEE 3 rd International Conference on Emerging Research in Electronics, Computer Science and Technology-2015 (ICERECT-2015)
34.	Ms. Sushma S J	Automated Microcalcification Analysis Using Breast Mammograms	-	To be presented in India Com, IEEE 3 rd International conference on Computing for Sustainable Global Development, March 2016
35.	Ms. Sushma S J	Advancements in Research Techniques on Medical Image Processing for Breast Cancer Detection	03	International Journal of Electrical and Computer Engineering(IJECE) Vol 6, No. 2, April 2016 (In Press)
36.	Ms. Sushma S J	Multi-stage optimization over extracted feature for detection and classification of breast cancer	-	Advances in Intelligent Systems and Computing 2016
37.	Mr. Yadhuraj.S.R	Preparation and Study of PDMS Material	-	International Conference on Smart Engineering Materials ICSEM-2016
38.	Mr. Yadhuraj.S.R	Design and Development of Micro-channel using PDMS for Biomedical Applications.	-	International Conference on Smart Engineering Materials ICSEM-2016

			Citation	
39.	Mr. Yadhuraj.S.R	Analysis of Linear and Non-linear parameters of HRV for opting optimum parameters in wearable device	-	Second International Conference on Large Area & Flexible Microelectronics (ILAFM 2016)
40.	Mr. Yadhuraj.S.R	Study of PDMS Material for ECG Electrodes	-	Second International Conference on Large Area & Flexible Microelectronics (ILAFM 2016)
41.	Mr. Yadhuraj.S.R	A Study of Impact of Alcohol Among Young Indian Population Using HRV Analysis	-	International Journal of Computer Science, Engineering and Information Technology.
42.	Mr. Yadhuraj.S.R	HRV Analysis for the Study of Neurological and Cardiac Effects of Alcohol on Youth of India	-	International Journal of Computer Science Engineering and Information Technology Research (IJCSEITR) ISSN(P): 2249-6831; ISSN(E): 2249-7943, Vol. 4, Issue 5, Oct 2014, 117-124.
43.	Mr. Yadhuraj.S.R	Analysis of HRV to Study the Effects of Tobacco on ANS Among Young Indians	-	International Journal of Electronics and Communication Engineering & Technology (IJECET), Volume 5, Issue 10, (October 2014).
44.	Mr. Yadhuraj.S.R	Assessment of ANS using HRV Data in Diseased Condition	-	International Journal of Computer Science Engineering and Information Technology Research (IJCSEITR) ISSN(P): 2249-6831; ISSN(E): 2249-7943, Volume 5, Issue 1, (Feb 2015).
45.	Mr. Yadhuraj.S.R	A Review On Different Methods To Analyze HRV And Its Correlation To Various Diseases Affecting Autonomic Nervous System	-	Global Journal Of Engineering Science And Researches; ISSN 2348 – 8034, 2(8): August 2015
46.	Mr. Yadhuraj.S.R	GUI Creation for Removal of Motion Artifact in PPG Signals	-	3 rd International Conference on Advanced Computing and Communication Systems (ICACCS -2016), Jan.22–23, 2016,Coimbatore, INDIA
47.	Mr. William Thomas H M	Detection of a brain tumor using segmentation an morphological operators from MRI scan with FPGA	-	In the Proceedings of International Conference on Applied and Theoretical Computing and Communication Technology. 2015. IEEE Part Number CFP15D66-USB ISBN 978-1-4673-9222-8 BIET , Davengere, India 29-31 October 2015.

Sl. No	Name of the Person	Title of Paper	Publication Citation	National or International
48.	Mr. William Thomas H M	A review of segmentation and edge detection methods for real time image processing used to detect brain tumor	- 1.	In the Proceedings of International onference on Computational Intelligence and Computing Research, IEEE Part Number CFP1520J-ART ISBN: 978-1-4799-7849-6, Vickram college of engineering, Madurai, Tamilnadu, India, 10-12 December 2015.
49.	Mr. Harsha	Relative Merits of Data Mining Algorithms of Chronic Kidney Diseases		(IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 12, No. 6, july 2021,pp575-583(scopus Indexed journal)
50.	Mr. Harsha	Performance Assesement of Ultrasound Kidney Images using De-speckling algorithms		Indian Journal of Computer Science and Engineering, eISSN:0976-5166,2020. DOI:10.21817/indjcse/2020/v11i6/201106176
51.	Mr. Harsha	Quantum-inspired weighted bilateral filtering for Despeckling in ultrasound images		International Journal of Engineering Research and Technology”, Vol. 5 – Issue 08, August 2016.
52.	Mr. Harsha	SVM Based Classifier for Noise Classification in Ultrasound B-mode Image		International Journal of Engineering Research and Technology”, Vol. 5 – Issue 08, August 2016
53.	Mr. Harsha	A review on denoising of speckle noise in ultrasound images		National Conference on Engineering, Technology and Management, RVCE, Bengaluru, Karnataka, 22-23 April 2016.
54.	Mrs. Veena Divya K	A Novel Approach towards Automatic Contour Identification of Jaw Cysts from Digital Panoramic Radiographs to improvise the Treatment planning		International Journal of Biology and Biomedical Engineering, vol. 16, pp. 1-8, 2022. DOI: 10.46300/91011.2022.16.

55.	Mrs. Veena Divya K	A Correlative Study of Contrary Image Segmentation Methods Appending Dental Panoramic Xray Images to Detect Jawbone Disorders		2 nd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017) Springer organized by Central University of Rajasthan, Ajmer, 23 rd -25 th November 2017.
56.	Mrs. Veena Divya K	Computer Aided Classification using Support Vector Machines in Detecting Cysts of Jaws		Advances in Science, Technology and Engineering Systems Journal, Thomson Reuters, Vol. 2, no. 3, pp. 674-677 (2017).
57.	Mrs. Veena Divya K	A Study and Analysis of Image Enhancement Techniques Augmenting Dental Pantamograms to review Jawbone Cysts and Tumors'		The 2017 IEEE Region 10 Conference (TENCON) Penang, Malaysia on 5 – 8 November 2017.
58.	Mrs. Veena Divya K	Characterization of dental pathologies using digital panoramic X-ray images based on texture analysis		39 th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Seogwipo, Jeju, South Korea, 2017, pp. 592-595. doi: 10.1109/EMBC.2017.8036894.
59.	Mrs. Veena Divya K	Image processing and parameter extraction of digital panoramic dental X-rays with ImageJ	1	International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS), 6 th -8 th October, 2016, RVCE, Bengaluru, Electronic ISBN: 978-1-5090-1022-6, Print ISBN: 978-1-5090-1020-2, USB ISBN: 978-1-5090-1021-9
60.	Mrs. Veena Divya K	Appending Active Contour Model on Digital Panoramic Dental X-rays images for Segmentation of Maxillofacial Region		IEEE-EMBS Conference on Biomedical Engineering and Sciences, Kaula Lumpur, Malaysia, 4 th -8 th December 2016.
61.	Mrs. Veena Divya K	A correlative study of contrary image segmentation methods appending dental panoramic X-ray images to detect jawbone disorders		Published in Journal: Advances in Intelligent Systems and Computing, Year: 2019

62.	Mrs. Rajasree P M	Breast Masses Detection and Segmentation in Full-Field Digital Mammograms using Unified Convolution Neural Network		IEEE-EMBS Conference, Glasgow, 11 th -15 th July 2022.
63.	Mrs. Rajasree P M	An Improved Transfer Learning Approach Towards Breast Cancer Classification on Deep Residual Network		Indian Journal of Computer Science and Engineering, eISSN:0976-5166,2020. DOI:10.21817/indjcse/2020/v11i6/201106176
64.	Mrs. Rajasree P M	Patch based feature extraction algorithm for mammographic cancer images		2 nd International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017) Springer organized by Central University of Rajasthan, Ajmer, 23 rd -25 th November 2017.
65.	Mrs. Rajasree P M	Review on various diagnostic techniques for detection of breast cancer		Second International Conference on Large Area Flexible Microelectronics (ILAFM 2016) Theme: Wearable Electronics, 20-22December, 2016
66.	Mrs. Rajasree P M	Hybrid segmentation & performance analysis of mammographic images		International Research Journal of Engineering & Technology, volume 3, Issue 8 August 2016
67.	Mrs. Rajasree P M	Microscopic image analysis for detection of breast cancer		International Research Journal of Engineering & Technology, volume 3, Issue 8 August 2016
68.	Mrs. Nayana R Shenoy	A Survey on Thyroid Ultrasound Image Analysis”		Published in the Board of International Journal on recent and Innovation Trends in Computing and Communication, Voume 6, issue 5 May 2018.
69.	Mrs. Tabitha Janumala	A Review of Different Analyzing Methods to Detect Spinal Deformity		International Journal of Advanced Research in Computer and Communication Engineering ,Vol. 4, Issue 8 August 2015, DOI 10.17148/IJARCCE.2015.4876 ISSN (Online) 2278-1021 ISSN (Print) 2319 5940
70.	Mrs. Tabitha Janumala	Design and development of algorithm for the detection of scoliosis using Histogram technique		Proceedings of “16 th International Conference on Academic Research in Engineering Science and Technology (AREST-2017)”, page 14-17. ISBN:978-93-85225-94-9

71.	Mrs. Manujakshi B.C	Review of Techniques used for sensory Data Analytics Over Cloud		IEEE-International on Wireless Communications Signal Processing and Networking (WiSPNET) PP:1287-1291, 2016
72.	Mr.Shasidhar T M	Reviewing the effectively factor in existing techniques of image forensics	1	International Journal of Electrical and Computer Engineering 2017
73.	Mr.Siddaramappa V	Cryptography and bioinformatics techniques for secure information transmission over insecure channels		Proceedings of the 2015 International Conference on Applied and Theoretical Computing and Communication Technology, iCATccT 2015
74.	Mr.Nagendra Kumar, M	Breast cancer classification of image using modified-resnet		Journal of Advanced Research in Dynamical and Control Systems, 2020
75.	Mr.Amaresh, C	Performance analysis of synchronous network on chip (Noc) for high speed and low power multiprocessor on fpga		International Journal of Advanced Trends in Computer Science and Engineering, 2020
76.	Mr.Nagendra Kumar, M	Breast Cancer segmentation & Classification of image using ResNet		Test Engineering and Management, 2020
77.	Mr.Amaresh, C	Performance Analysis of Data Communication Using Hybrid NoC for Low Latency and High Throughput on FPGA		Advances in Intelligent Systems and Computing, 2020
78.	Mr.Nagendra Kumar, M	Probable Region Identification and segmentation in Breast Cancer using the DL-CNN		Proceedings of the 2 nd International Conference on Smart Systems and Inventive Technology, ICSSIT 2019
79.	Mr.Amaresh, C	Efficient design and fpga implementation of microarchitecture for network-on-chip routers		International Journal of Innovative Technology and Exploring Engineering

PROGRESS REPORT OF RESEARCH CENTRE FOR CONTINUATION OF RECOGNITION

The candidates registered for Ph.D/ M.Sc. Engg. By Research in other Universities (if any)

Sl.No	Name of the Research Supervisor	Name of the Research Scholar registered for research program in other University	Name of the University	Year of Registration	Status of completion
Nil					

PROGRESS REPORT OF RESEARCH CENTRE FOR CONTINUATION OF RECOGNITION

Details of Existing Research Facilities

Sl.No	Facility available	Details of Funds Spent
1	30 KV 20mA DC Power Supply	183050.00
2	Sonoplot GIX Microplotter	348615.00
3	Computers	82,500.00
4	5 1/2 Digit Digital Multimeter	53000.00
5	Probe Station – Interdeciplinary	200000.00
6	Laptop	35975.00
7	BioPack Physiological measuring Instruments	6,77028.00

Any other information:

1. Department Patent Details

Sl. No.	Patent Title	Type	Application Reference Number	Faculty	Date
1.	Automatic Medication	National	201641005314	Dr. S.C.Prasanna Kumar	16.02.2016
2.	Gesture Recognition System and Device with Sign Language Translation	National	201641010977	Prof. Kendaganna Swamy	30.03.2016
3.	System and Device for Detecting Human Fall	National	201641026462	Dr. Sudarshan.B.G	03.08.2016

2. Details of Research Activities in the Department

Sl. No.	Title of the Research work	Name of the Principal Investigator	Funding Agency	Year of Sanction	Amount Sanctioned (in Lakhs)	Amount Released Till date (in Lakhs)	Period
1.	Automated Underwater Purifier	Dr. S.C.Prasanna Kumar	IISc, Bengaluru, MSME, Govt. of India	2017	3.63	3.63	1 Year
2.	Unmanned Under-water Vehicle	Dr. S.C.Prasanna Kumar	IISc, Bengaluru, MSME, Govt. of India	2017	2.49	2.49	1 Year
3.	Development of Integrated glucose monitor and insulin injection Device pancreas	Dr. S.C.Prasanna Kumar	Technology Development Transfer, DST, Delhi	Submitted to Funding Agency on 16.02.18	143.5	Submitted to Funding Agency – 2018	3 Years

3. Ph.D Degree Awarded under Dept.of Electronics and Instrumentation Engineering (Research Centre: Instrumentation Technology)

PROGRESS REPORT OF RESEARCH CENTRE FOR CONTINUATION OF RECOGNITION
Details of Research Scholars

Sl. No	Name of the Research Scholar	USN	Dept.	Registered for			Status of Completion of			Degree Awarded[Y/N] & Year
				Year of Registration	Ph.D	M.Sc. (Engg.) by Research	Course Work [Y/No]	Comprehensive Viva – Voce {Y/ N}	Submitted Final Thesis [Y/ N]	
1	Mr.Anand Jatti	1RV04PEN10	Instrumentation Technology	2011 (Changed to IT R&D)	Y		Y	Y	Y	Y (2013) 07.09.2013
2	Mrs. G.R. Poornima	1RV10PEN08	Instrumentation Technology	2011	Y		Y	Y	Y	Y (2018)
3	Mrs. Deepashree Devaraj,	1RV12PEN05	Instrumentation Technology	2012	Y		Y	Y	Y	Y (2019)
4	Mr.Kendaganna Swamy	1RV13PEN21	Instrumentation Technology	2013	Y		Y	Y	Y	Y (2019)
5	Mrs.Vidya M J	1RV13PEN03	Instrumentation Technology	2013	Y		Y	Y	Y	Y (2019)
6	Mrs. Manujakshi	1RV15PEJ37	Instrumentation Technology	2013	Y		Y	Y	Y	Y (2021)
7	Mr.Shasidhar T M	1RV15PEJ19	Instrumentation Technology	2015	Y		Y	Y	Y	Y(2021) 03.04.2021
8	Mrs.Sushma J	1RV12PEN23	Instrumentation Technology	2012	Y		Y	Y	Y	Y(2021) 03.04.2021
9	Mr.Nagendrakumar M	1RV15PEJ13	Instrumentation Technology	2015	Y		Y	Y	Y	Y(2021) 16.03.2021
10	Mr.Yaduraj.B	1RV14PEN07	Instrumentation Technology	2014	Y		Y	Y	Y	Y(2021) 03.04.2021
11	Mrs. Tabitha Janumala	1RV15PEJ01	Instrumentation Technology	2015	Y		Y	Y	Y	Y (2021) 03.04.2021
12	Mrs.Nayana R	1RV15PEJ09	Instrumentation	2015	Y		Y	Y	Y	Y

	Shenoy		Technology							(2021) 05.08.2021
13	Mr. William Thomas	1RV14PEM06	Instrumentation Technology	2014	Y		Y	Y	Y	Y(2021) 14.09.2021
14	Mrs.Veena Divya K	1RV13PEN31	Instrumentation Technology	2013	Y		Y	Y	Y	Y(2021) 30.10.2021
15	Mr.Dilip R	1RV13PEN04	Instrumentation Technology	2013	Y		Y	Y	Y	Y(2021) 03.04.2021
16	Mrs.Kavitha.S.N	1RV12PEN19	Instrumentation Technology	2012	Y		Y	Y	Y	Y (10.03.2022)
17	Rashmi R Deshpande	1RV12PEN31	Instrumentation Technology	2019	Y		Y	Y	Y	Y (26.05.2022)
18	D.Kavitha	1RV17PEA34	Instrumentation Technology	2017	Y		Y	Y	Y	Y (30.07.2022)
19	Mrs.Rajasree P M	1RV15PEJ11	Instrumentation Technology	2015	Y		Y	Y	Y	Y (30.07.2022)
20	Mr.Harsha	1RV13PEN16	Instrumentation Technology	2013	Y		Y	Y	Y	Y (30.07.2022)
21	Mr.Amaresh.C	1RV15PEJ26	Instrumentation Technology	2015	Y		Y	Y	Y	N

Till date Ph.D awarded No: 20 Awarded + 01 yet to receive PDC

Male Awarded Ph.D: 09 Nos

Female Awarded Ph.D: 11 Nos

Ph.D(Internal) awarded: 08 Nos

Ph.D(external) awarded: 12 Nos.

Ph.D Pursuing Research Scholars:

Ph.D Registration on Roll carrying: 12 Nos

M.Sc(Engg) by Research carrying:: 01 No

Ph.D Internal Candidates: 01 Nos

Ph.D External Candidates: 11 Nos

M.Sc (Engg) by Research (Internal): Nil

M.Sc(Engg) by research (External): 01 No

VTU registered Supervisors: 07 Nos

Faculty with Ph.D Qualification in Dept: 13 Nos

Male (with Ph.D in Dept): 06 Nos

Female (with Ph.D in Dept): 07 Nos

Ph.D registration details year wise:

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
2	4(Ph.D) 01(M.Sc)	6	2	8	1	4	1	2	Nil	Nil	Nil

Undertaking:

The Institute / Research Centre will abide by the conditions laid down by the University as applicable from time to time.

The facts furnished above are true to the best of our knowledge.

Signature of HoD with seal

Signature of Principal with seal