


## FACULTY PROFILE

<b>1.</b>	<b>Name</b>	:	<b>RUDRESH M D</b>																															
<b>2.</b>	<b>Date of Birth</b>	:	<b>01-06-1974</b>																															
<b>3.</b>	<b>Highest Qualification.</b>	:	<b>M.Tech</b>																															
	Specialization	:	<b>POWER ELECTRONICS</b>																															
<b>4.</b>	<b>Academic Performance</b>	:																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Qualifications</th> <th style="width: 20%;">Board / IIT / University</th> <th style="width: 30%;">Institute and place where studied</th> <th style="width: 10%;">Year of passing</th> <th style="width: 10%;">Class &amp;% Marks</th> </tr> </thead> <tbody> <tr> <td>SSLC</td> <td style="text-align: center;"><b>KARNATAKA SSLC BOARD</b></td> <td>SREE KODIMATA SHIVALINGASWAMY RURAL HIGH SCHOOL, Kittanakere. Arsikere Taluk, Hassan District</td> <td style="text-align: center;">1991</td> <td style="text-align: center;"><i>FC/70</i></td> </tr> <tr> <td>PUC /10+2/Dip</td> <td style="text-align: center;"><b>P.U BOARD KARNATAKA</b></td> <td>GOVT. P U COLLEGE, chikkanayakanahalli Taluk, Tumkur District</td> <td style="text-align: center;">1993</td> <td style="text-align: center;"><i>SC/58</i></td> </tr> <tr> <td>UG Degree</td> <td style="text-align: center;"><b>BANGALORE UNIVERSITY</b></td> <td>SREE SIDDHARTHA INSTITUTE OF TECHNOLOGY TUMKUR</td> <td style="text-align: center;">2000</td> <td style="text-align: center;"><i>SC/57</i></td> </tr> <tr> <td>PG Degree</td> <td style="text-align: center;"><b>VTU BELAGAUM</b></td> <td>BMS COLLEGE OF ENGINEERING BULL TEMPLE ROAD BANGALORE</td> <td style="text-align: center;">2009</td> <td style="text-align: center;"><i>FC/67</i></td> </tr> <tr> <td>Ph. D.</td> <td style="text-align: center;"><b>Pursuing JNTU HYDERABAD</b></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					Qualifications	Board / IIT / University	Institute and place where studied	Year of passing	Class &% Marks	SSLC	<b>KARNATAKA SSLC BOARD</b>	SREE KODIMATA SHIVALINGASWAMY RURAL HIGH SCHOOL, Kittanakere. Arsikere Taluk, Hassan District	1991	<i>FC/70</i>	PUC /10+2/Dip	<b>P.U BOARD KARNATAKA</b>	GOVT. P U COLLEGE, chikkanayakanahalli Taluk, Tumkur District	1993	<i>SC/58</i>	UG Degree	<b>BANGALORE UNIVERSITY</b>	SREE SIDDHARTHA INSTITUTE OF TECHNOLOGY TUMKUR	2000	<i>SC/57</i>	PG Degree	<b>VTU BELAGAUM</b>	BMS COLLEGE OF ENGINEERING BULL TEMPLE ROAD BANGALORE	2009	<i>FC/67</i>	Ph. D.	<b>Pursuing JNTU HYDERABAD</b>			
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<b>5.</b>	<b>Date of Joining</b>	:	<b>11-08-2006</b>																															
<b>6.</b>	<b>Status as on date of Joining</b>	:	<b>Per suing M.Tech</b>																															
<b>7.</b>	<b>Salary as on date of Joining</b>	:	<b>Rs12000=00</b>																															
<b>8.</b>	<b>Present Status</b>	:	<b>Associate Professor</b>																															
<b>9.</b>	<b>Salary as on date</b>	:	<b>Rs60755=00</b>																															
<b>10.</b>	<b>Number of promotions since date of joining</b>	:	<b>01</b>																															

### 11. Achievements since date of joining:

<b>a) Faculty Development / QIP</b>	:	<ol style="list-style-type: none"> <li>1, Session chair for the "IEEE- International Conference on Electrical, Electronics, Communications, Computers Technologies and Optimization Techniques (ICECCOT-2019)" on 13th -14th December 2019 Technically Cosponsored by IEEE Bangalore Section at GSSSIETW, Mysuru.</li> <li>2. Attended a One Week training program On "Effective Teaching Techniques In Digital Signal Processing" From 26TH to August 30th 2019 at VTU-HRDC, Muddenahalli.</li> <li>3 Session chair for the "IEEE- International Conference on Electrical, Electronics , Communications, Computers Technologies and Optimization Techniques (ICECCOT - 2018)" on 14th -15th December 2018 Technically Cosponsored by IEEE Bangalore Section at GSSSIETW, Mysuru.</li> <li>4. Jury Member for IETE National level student Paper and Model contest organized by IETE Mysuru center on 4th May-2019.</li> <li>5. Attended 15Days FDP on "Advances in Image processing and Computer Vision Applications using Python and Open CV" By KIT Tiptur from 11th to 23th December 2017.</li> <li>6. Attended 3 Days workshop on "Recent trends in Communication Engineering" By SIT Tumkur from 23rd ton25th January 2014.</li> <li>7. Participated in the 6th winter school on Speech and Audio processing(WiSSAP2011) held</li> </ol>
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	<p>during 8th to 11th January 2011 at IIT Guwahati.</p> <p>8. Attended one Day workshop on “Image and Speech Processing” By IIIT Hyderabad held on 17th December 17th 2011.</p> <p>9. Attended 5 Days FDP “Speech and Image Processing” By SIT Tumkur held during March 20-24, 2010.</p> <p>10. Attended one Day workshop on “Image and Speech Processing” By IIIT Hyderabad held on 17th December 2009.</p> <p>11. Attended One Day workshop on “SDR Based wireless communication system design” Organized By Dept. of Telecommunication Engineering, BMSCE Bangalore on 27th November 2009</p> <p>12. Attended Two Days workshop on “DSP Architecture and Real Time Implementation of DSP” Organized By REVA Institute of technology and Management held from 13th to 14th August 2009.</p> <p>13. Attended 2 Days TEQIP Funded Workshop “On DSP Design using ALTERA FPGAs” By UVCE Bangalore held During November 21-22, 2008.</p> <p>14. Attended 3 Days TEQIP Funded Workshop On Microcontrollers By NMAMIT, Nitte held During January 21-23, 2008.</p>
<p><b>b) Research &amp; Development</b></p>	<p>:</p> <ol style="list-style-type: none"> <li>1. <b>Karnataka Council For Science and Technology (KSCST) sanctioned the Rs 2000 in the Year 2009 for The Project Entitled “Novel Pitch Period Detection Algorithm Based On Hilbert Huang Transform” UG Project Work.</b></li> <li>2. <b>Vision Group On Science and Technology Sanctioned RS 30000 in the Year 2015 for The Project Entitled “Development Of Autopilot For Micro Aerial Vehicle using STM32 Microcontroller” PG Project Work.</b></li> <li>3. <b>Visited IIT Guwahati, Assam in the year 5TH Jan to 28th January 2010, worked under the Supervision of Dr. S R M Prasanna, Associate professor during visits collected the EMG data and developed the developed the person authentication system using the EMG data in Electro-Medical and Speech Technology (EMST) Laboratory.</b></li> <li>4. <b>Visited IIT Guwahati, Assam in t from 6TH Jan to 24th January 2011, worked under the Supervision of Dr. S R M Prasanna, Associate professor, during visits studies existing literature on development of EMG Data acquisition system and improved the some blocks of EMG data acquisition system and designed and implemented different modules in the EMG Data Acquisition system in Electro-Medical and Speech Technology (EMST) Laboratory.</b></li> <li>5. <b>Visited IIIT Dharwad, Karnataka in the from 13/01/2020 to 17/01/2020 and from 23/01/2020 to Jan to 01/02/2020, worked under the supervision of Dr. K. T Deepak, Assistant professor during visits studies speech processing and biomedical signal processing By using machine learning.</b></li> </ol>

c) No. of Publication (List)	:	<p>16</p> <p><b>REFEREED INTERNATIONAL CONFERENCES:</b></p> <ol style="list-style-type: none"> <li>1. Rudresh M D, H.S. Jayanna, K. Anitha sheela .: "ECG Significances in Person Authentication using Vector Quantization". IEEE International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques(ICEECOT) Dec-15-16, 2017,Mysuru, Karnataka, India pp. 978-1-5386-2361-9/17.</li> <li>2. M. D. Rudresh, A. S. Latha, J. Suganya and C. G. Nayana, "Performance analysis of speech digit recognition using cepstrum and vector quantization," 2017 International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques (ICEECOT), Mysuru, 2017, pp. 1-6.doi: 10.1109/ICEECOT.2017.8284580.</li> <li>3. Nayana C G, Shruthi S Prabhu, Dr.Parameshachari B.D, Rudresh M.D, "Survey on Carrying Digital Image Water Marking in Healthcare Based Medical Palmistry" presented paper in 4th National Conference on Emerging Trends in Electronics and Communication held at BGS Institute of Technology, BG Nagar on 18th May 2017.</li> <li>4. Lavanya M R, Rudresh M D, S Nagendra Prasad "<b>Slantlet Transform based Data Compression and Reconstruction Technique Applied to Power Quality Signals</b>" McGraw-Hill International Conference on Signal, Image Processing Communication and Automation(ICSIPCA-2017),bengaluru. Grenze ID: 02.MH-ICSIPCA.2017.1.67. Page:438-444. ISBN:978-93-526079-8-3</li> <li>5. Suresh M, Mallikarjun S Holi, Rudresh M D "<b>Development of GMM-UBM based Biometric System using Electromyogram Signals</b>" McGraw-Hill International Conference on Signal, Image Processing Communication and Automation(ICSIPCA-2017),bengaluru. Grenze ID: 02.MH-ICSIPCA.2017.1.25. Page: 160-166. ISBN:978-93-526079-8-3.</li> <li>6. Rudresh M D, H.S. Jayanna, K. Anitha sheela .: " variant of Cepstral features for Processing ECG signal in person identification task ". IEEE International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques(ICEECOT) Dec-14-15, 2018,Mysuru, Karnataka.</li> <li>7. Rudresh M D, H.S. Jayanna, K. Anitha sheela .: "Study of Person Identification System for Consistency using ECG signal". IEEE International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques(ICEECOT) Dec-13-14, 2019,Mysuru, Karnataka.</li> <li>8. Datta Rakshith KS, Rudresh MD, Shashibhushan G,Comparative performance analysis for speech digit recognition based on MFCC and vector quantization,Global Transitions Proceedings,Volume 2, Issue 2,2021,Pages 513-519,ISSN2666- 285X,https://doi.org/10.1016/j.glt.2021.08.013.</li> <li>9. N Renuka, Shivaputra, M D Rudresh, L Rathod Meenakshi,An Efficient FPGA Architecture to Automatically Detect the Condition of Orange Fruit . Proceedings of the 3rd International Conference on Integrated Intelligent Computing Communication &amp; Security (ICIC 2021). https://dx.doi.org/10.2991/ahis.k.210913.050.</li> </ol> <p><b>REFEREED INTERNATIONAL JOURNAL:</b></p> <ol style="list-style-type: none"> <li>10. Rudresh M D., Manjunath B Kempar" DEVELOPMENT OF AUTOPILOT FOR MICRO AERIAL VEHICLE USING STM32 MICROCONTROLLER"International Journal of Research in Engineering and Technology eISSN: 2319-1163   pISSN: 2321-7308.</li> <li>11. Rudresh M D., H S Jayanna and Anitha Sheela K.. Novel Transform Domain Techniques for Person Identification using ECG Signals. International Journal of Computer Applications 179(1):9-14, December 2017.</li> <li>12. Rudresh M D, H.S. Jayanna, K. Anitha sheela. Article: Low Cost Data Acquisition System for ECG" IJCA, National Conference on Electronics, Signals &amp; Communication (NCESC-17), May-29, 2017., pp. 132.</li> <li>13. Hitha M., Rudresh M.D. and R Sundaraguru. Implementation of Image Denoising Techniques using Novel Slantlet Transform. International Journal of Computer Applications 183(11):15-21, June 2021</li> </ol> <p><b>REFEREED NATIONAL CONFERENCES:</b></p> <ol style="list-style-type: none"> <li>14. Rudresh M D,Meghashree S,Rajani SS,Veena D,Pavithra S," ANPR and Face based Recognition System "International Journal of Computer Applications (0975 – 8887) Presented in National Conference on Power Systems &amp; Industrial Automation (NCPSIA 2015).</li> <li>15. Rudresh M D, H.S. Jayanna, K. Anitha sheela .: "Low Cost Data Acquisition System for ECG" National Conference on Electronics, Signals &amp; Communication (NCESC-17), May-29, 2017, GSSSIETW, Mysuru., pp. 132.</li> <li>16. Rudresh M D, H.S. Jayanna, K. Anitha sheela .: "development of ECG Data Acquisition System and Analysis based on for Hilbert-Huang Transform" 3<sup>rd</sup> National Conference on Robotics,Automation,control and Embedded Systems(NCRACES-19), May-10, 2019, GSSSIETW, Mysuru., pp. 86.</li> </ol>
d) Presentation Award	:	<ol style="list-style-type: none"> <li>1. Best paper award for the paper Entitled "<b>Design and implementation of free RTOS based Data logger for MAV using STM32, ARM Processor</b>" in the 7th National Conference On Recent Trends In Electronics &amp;Communication Engineering, held on 9<sup>TH</sup> May-2015 organized by electronics &amp;communication Engineering, SJB Institute of Technology, Bangalore.</li> <li>2. Best paper award for the paper entitled "<b>Real Time parameter Estimation for MAV using low cost hardware</b>" in the Third international Conference on Electrical,Electronics, communication,computer Technologies and Optimization Techniques(ICEECOT)-2018 on 14<sup>th</sup>,15<sup>th</sup> December 2018 by GSSSIET,Mysore.</li> </ol>

		<i>3. Best project award project "Design and Implementation of free RTOS Based Data Logger for MAV Using STM32. In the 4<sup>th</sup> National Level Project Competition "IEEE ProjectExpo-2019 organized by GSSSIETW, Mysuru.</i>
<b>e) Books / Monograph (List)</b>	:	
<b>f) Conference Seminars (List)</b>	:	
<b>g) Academic activities</b>	:	<p><i>1. Paper setter for Various Subjects like Digital Signal Processing, Analog Communication, Control systems, programming in C++, Speech Processing, DSP Architecture and algorithms, Microprocessors, Microcontrollers, and other subjects of VTU Exams, Autonomous colleges exams.</i></p> <p><i>2. Session chair and paper reviewer for many IEEE international conferences.</i></p> <p><i>3. Jury Member for IETE National Level Student Technical Paper and Model Contest organized by IETE Mysuru Centre on 4<sup>th</sup> May 2019.</i></p>
<b>h) Administrative Work</b>	:	<p><i>1. Discharged my duty as Moderator and valuator as directed by VTU for the various subjects Held in VTU valuation under VTU, Belgaum.</i></p> <p><i>2. Worked as Project coordinator, technical seminar coordinator, Test coordinator</i></p> <p><i>3. 1. Discharged my duty as Moderator and valuator as directed by VTU for the various subjects held in VTU valuation under VTU, Belgaum.</i></p>

Conference Details				
National conferences (pls indicate below the details)				
S/no	Title of the conference	Title of the paper	Place	Date
<b>AY 2017-18</b>				
	National Conference on Electronics, Signals and Communication - 2017	Low Cost Data Acquisition System for ECG	GSSSIETW,MYSURU	May-2017
	NCETEC-2017	Survey on Carrying Digital Image Water Marking in Healthcare Based Medical Palmistry	BGS Institute of Technology, BG Nagar	18 <sup>th</sup> May 2017.
<b>AY 2018-19</b>				
International Conferences(pls indicate below the details)				
	Title of the conference	Title of the paper	Place	Date
<b>AY 2017-18</b>				
	RTEICT - 2016	Person Specific Characteristics Analysis Time Domain Techniques for ECG Signals	SVCE,BANGALORE	May-20-21,2016
	ICEECCOT-2017	Performance Analysis of Speech Digit Recognition using Cepstrum and Vector Quantization	GSSIETW ,MYSURU	15&16 <sup>th</sup> DEC-2017
	ICEECCOT-2017	ECG Significance in Person Authentication using Vector Quantization	GSSIETW ,MYSURU MYSURU	15&16 <sup>th</sup> DEC-2017
	International Conference on Signal, Image Processing Communication and Automation - ICSIPCA- 2017	Slantlet Transform based Data Compression and Reconstruction Technique Applied to Power Quality Signals	JSSATE,BENGALURU	6th july 2017
	International conference on signal, image processing, communication and automation ICSIPCA- 2017	Development of GMM-UBM based biometric system using electro-myogram signals	JSSATE,BENGALURU	6th july 2017
<b>AY 2018-19</b>				
	ICEECCOT-2018	Real Time Parameter Estimation for MAV using Low cost Hardware	GSSIETW ,MYSURU	14 <sup>th</sup> &15 <sup>th</sup> DEC-2018
	ICEECCOT-2018	Study of person identification system for consistency using ECG signal	GSSIETW ,MYSURU	14 <sup>th</sup> &15 <sup>th</sup> DEC-2018
	ICEECCOT-2019	Study of person identification system for consistency using ECG signal	GSSIETW ,MYSURU	13 <sup>th</sup> &14 <sup>th</sup> DEC-2019
Journal Publications Details				
	Journal	Title of the paper	Publication Details	Type of journal
<b>AY 2017-18</b>				
	IJCA	Novel transform Domain Techniques for Person Identification using ECG signals	Volume179- No.1,December-2017	
<b>AY 2018-19</b>				
R&D Details				


12. Experience / Service before Joining:

T – Teaching, R – Research, Ind. - Industry

Sl. No.	Name & Address of Organization / Institution	Post Held / Designation	Duration of service		Experience Y/M			
			From	To	T	R	Ind.	Total
01	Govt Tool Room and Training Center, Kudalsangama	Lecturer	Jan-2002	August-2004	2.8 years			4.1 years
02	Future Techno Design Pvt. Ltd, Bangalore	Design Engineer	August-2000	Nov-2001			1.5 years	

13. Memberships of Professional Bodies:

Sl. No.	Name & Address of Organization / Institution	Date & Year of Registration	Membership Number

		
		<b>RUDRESH-MD</b> .. ..