

## Profile

1	Name of the Faculty	Ratnamala S. Patil			
2	Date of joining	1/08/2016			
3	Email id	hudedratnamala@gmail.com			
4	Designation	Assistant Professor			
5	Department	Electronics and Communication Engineering			
6	Education Qualifications	B.E (ECE) M.Tech (DCN)			
7	Work Experience	Teaching	Research	Industry	Others
		8.8 years			
8	Area of Specialization	Image processing			
9	Courses taught at Diploma/ Post Diploma/ Under Graduate/ Post Graduate/ Diploma Level	Digital Image Processing, Digital Signal Processing, Antenna and Wave Propagation, Microwave and Antennas, Fiber optic communication, Advanced Embedded System, Internet of Things, Soft skills.			
10	No. of papers published in National/International Journals/Conferences				
	Journals	National		International	
		01			
	Conferences	National		International	
		01		02	
	Research Guidance				
	Master Degree	Completed		Ongoing	
Ph.D.					

11	Projects Carried out	On going (24-25) KSCST PROJECT	IoT based smart airbag deployment system in two wheelers
12	Patents	202011001334	Method of free space optical Communication with minimizing fog related atmospheric Interferences
		202241025889	Diagnosing image classification using deep convolution neural network with big data applications
		441931-001	Document image classification system
13	Technology Transfer		
14	<p>Publications in International/ National Journals</p> <p><b>Journals</b></p> <ul style="list-style-type: none"><li>“Enhanced scene text recognition using deep learning based hybrid attention recognition network”. International journal of Artificial Intelligence” doi:10.11591/ ijai. v13, pp4927-4938</li></ul> <p><b>National Conference</b></p> <ul style="list-style-type: none"><li>Ratnamala S. Patil and Vinita Patil ,Mathematical Document Identification based on equation symbols recognition using combined ANN and KNN classifiers in the <b>National Conference</b> on “Recent Trends in Information and Communication Technology (NCRTICT-2016)</li></ul> <p><b>International conference</b></p> <ul style="list-style-type: none"><li>Ratnamala S. Patil and Shilpa ,A Novel Method for Handwritten Mathematical Document Based on Equation Symbols recognition using K-NN and ANN classifiers, in the International Journal of Emerging Technology in Computer Science and Electronics, Vol. 23, Issue 06 – 2016</li><li>Ratnamala S.Patil, Dr. Geeta Hanji and Rakesh, “Text detection and recognition in natural scene images and video: A survey and foundation for research” in AICTE Sponsored International E-Conference on Computing &amp; Communication Systems for a Fourth Industrial Revolution from 14<sup>th</sup> to 16<sup>th</sup> December 2020</li></ul>		