


## FACULTY PROFILE

Title	Dr.	First Name	Manoj	Last Name	Kumar	
Designation	Assistant Professor					
Dept. Name	Electronics and Communication Engineering					
Address:	Type-IV/H-103, G B Pant Institute of Engineering and Technology, Pauri-Garhwal, Ghurdauri, Uttarakhand-246194					
Phone No.	9897485705, 8924842167					
E mail	1. manoj.electro@gmail.com			2. manoj_nand@rediffmail.com		
Web Page (if any)						
Subjects Taught	Basic electronics Engg., Network Theory, Bio-Medical Signal Processing, Microprocessor and Its interfacing, Mixed Signal Design, Signal & Systems, Analog Electronics Circuits, Advance Analog Signal Processing					
Areas of Interest/Specialization	Analog Circuits Design, Fractional Order Circuits and Systems, Bio-Medical Signal Processing.					
Experience (in years)	Total	18 yrs				
	Industry	N/A				
	Teaching	18				
	Research					
Educational Qualification	UG	B.E. (Electronics & Communication)				
	PG	M.Tech. (Bio-Electronics)				
	Doctorate	Ph.D.				
	Any other					
Research Publications in Journals	Details should be provided in APA/IEEE format 1. Avinash Verma, A. R. Verma and Manoj Kumar, "Filter Design For 2-D Speech Enhancement based on Curvelet Transform using Different Window Functions", International Journal of Computer Application, ISSN NO 2319-7463.					

	<ol style="list-style-type: none"> <li>2. D.R. Bhaskar, Manoj Kumar and Pragati Kumar, Fractional order inverse filters using operational amplifier. <i>Analog Integr Circuits Signal Process</i> 2018; 97(1):149-158.</li> <li>3. D. R. Bhaskar, M. Kumar and P. Kumar, “Minimal realization of Fractional order inverse filters,” <i>IETE Journal of Research</i>, pp. 1-14, 2020. (SCI Journal)</li> <li>4. M. Kumar, D. R. Bhaskar and P. Kumar, “A Multifunctional Voltage Mode Fractional Order Filters using a Single CFOA”, <i>IJITEE</i>, ISSN: 2278-3075, Vol.9, n0. 4, February 2020 (Scopus Journal)</li> <li>5. M. Kumar, D. R. Bhaskar and P. Kumar, “CFOA-Based New Structure of Fractional Order Inverse Filters ”, <i>IJRTE</i>, Vol. 8, no. 5, January 2020. (Scopus Journal)</li> <li>6. B. Gupta, A. R. Verma and M. Kumar, “A Novel Approach of QMF Bank Using Modified PSO Technique for Biomedical Image Applications, <i>Biomed Pharmacol J.</i>, 13(1) 2020.</li> </ol>
<p>Papers Published in Conference Proceedings</p>	<ol style="list-style-type: none"> <li>1.S. K. Nagarkoti, B. Singh and M. Kumar, "An algorithm for fetal heart rate detection using wavelet transform," <i>2012 1st International Conference on Recent Advances in Information Technology (RAIT)</i>, 2012, pp. 838-840, doi: 10.1109/RAIT.2012.6194533.</li> <li>2. Manoj Kumar, D. R Bhaskar and Pragati Kumar, “Fractional Order Filters using a Current Feedback Operational Amplifier”, 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES) 22-24 Oct 2018 at DTU.</li> <li>3. Manoj Kumar, D. R Bhaskar and Pragati Kumar, “A New Fractional Order Inverse Filter Configuration Employing Single Operational Trans-resistance Amplifier” International Congress on Recent Advances in Sciences and Technology (ICORAST), Kuala Lumpur, Malaysia at 20-22 FEB. 2019</li> <li>4. Manoj Kumar, D. R Bhaskar and Pragati Kumar, “Multifunction Voltage Mode Fractional Order Filters Using Single Current Feedback Operational Amplifier”, IEEE International Conference on Signal Processing, VLSI and Communication Engineering (CSPVCE-2019) 28-30 March, 2019</li> <li>5. M. kumar, D. R. Bhaskar and P. Kumar, “Fractional Order Sinusoidal Oscillator Using only a Single Operational Trans-resistance Amplifier,” IEEE International Conference on Computing, Communication, and Intelligent Systems (ICCCIS), Sharda University, Greater Noida, UP (India), 2021</li> </ol>
<p>Books Authored/Book Volume Chapters</p>	

No. of Conferences	National	Attended	Organized
			01
	International	05	
Research Guidance	Awarded	PG	Doctorate
		05	
	Undergoing		
Research Projects	Completed	01	
	Undergoing		
Awards & Distinctions			
Administrative Assignments Handled	OiC Sports, Warden, NSS Program Coordinator		
Association with Professional Bodies			
Any other Achievements			

(Dr. Manoj Kumar)