Title	Dr.	First Name	SACHIN	Last Name	NEGI	

Designation	Assistant Professor
Dept. Name	Electrical Engineering
Address:	c/o S. S. Negi., Near- S G R R Public School, Vikasmarg, Pauri Garhwal, Uttarakhand-246001
Phone No.	9557300344

Email	1. sachinnegi.coep@gmail.com	2. sachinnegi.rs.bme18@itbhu.ac.in

Web Page (if any)	https://scholar.google.com/citations?user=jgBfERoAAAAJ&hl=en&oi=ao
Subjects Taught	Microprocessors, Biomedical Instrumentation, Digital Signal Processing, Control System, Microcontrollers, PC based Instrumentation, Measurements and Instrumentation, Analytical Instrumentation, Vacuum Instrumentation and Thin Film Deposition Techniques, Microelectronics and VLSI Design, Process Control, Electronic Measurements and Instrumentation, Basic Electrical Engineering, Analog Electronics, Biomedical Signal Processing.
Areas of Interest/Specialization	Biomedical Instrumentation, Biomedical Signal Processing, Rehabilitation Engineering, Prosthetic Devices, Machine Learning, Embedded System.

Experience (in years)	Total	15.5 Years
	Industry	
	Teaching	12.5 Years
	Research	3 Years

Educational Qualifications	UG	B. Tech. [Instrumentation Engineering] HNB Garhwal University Srinagar
	PG	M. Tech. [Instrumentation & Control] College of Engineering Pune
	Doctorate	PhD [*Wearable Sensors Based Gait Acquisition for Motion Analysis and Prosthetic Ankle-Foot Design*] SBME, Indian Institute of Technology (BHU) Varanasi
	Any other	

Research Publications in Journals	1. Negi, S. and Sharma, N., 2022. A standalone computing system to classify human foot movements using machine learning techniques for ankle-foot prosthesis control. Computer Methods in Biomechanics and Biomedical Engineering, 25(12), pp.1370-1380.
	2. Negi, S., Sagar, U., Nautiyal, V.K. and Sharma, N., 2022. Design and analysis of magnetorheological damper based ankle-foot prosthesis prototype. *Industrial Robot: An International Journal*, *49*(2), pp.240-248.
	3. Negi, S., Sharma, S. and Sharma, N., 2021. FSR and IMU sensors-based human gait phase detection and its correlation with EMG signal for different terrain walk. *Sensor Review*, *41*(3), pp.235-245.
	4. Negi, S., Negi, P.C., Sharma, S. and Sharma, N., 2020. Human Locomotion Classification for Different Terrains Using Machine Learning Techniques. *Critical reviews in*

	biomedical engineering, *48*(4), pp.199-209.
	5. Negi, S., CBS Negi, P., Sharma, S. and Sharma, N., 2020. Electromyographic and acceleration signals-based gait phase analysis for multiple terrain classification using deep learning. *International Journal of Advanced Research in Engineering and Technology*, *11*(6).
	6. Negi, S., Kumar, Y. and Mishra, V.M., 2018. Myoelectric control of upper limb prostheses using linear discriminant analysis and multilayer perceptron neural network with back propagation algorithm. *International Journal of Computational Systems Engineering*, *4*(2-3), pp.120-126.
	7. Patil, S.L., Negi, S. and Chaskar, U.M., 2010. Wireless Sensor Network for Process Automation using ZigBee Protocol. *Wireless Communication*, *2*(2), pp.1-6.
Papers Published in Conference Proceedings	1. P. C. Negi, S. Negi and N. Sharma, "Gait Analysis-Based Identification of Neurodegenerative Diseases Using Machine Learning Techniques," 2022 International Conference on Advances in Computing, Communication and Materials (ICACCM), Dehradun, India, 2022, pp. 1-6, doi: 10.1109/ICACCM56405.2022.10009413.
	2. P. Dhoundiyal, Y. Kumar, S. Negi and A. Barthwal, "Fault Detection and Classification in Solar Photovoltaic Array," 2022 IEEE Global Conference on Computing, Power and Communication Technologies (GlobConPT), 2022, pp. 1-6, doi: 10.1109/GlobConPT57482.2022.9938265.
	3. Sachin Negi, Kartik Garg, Milind Prajapat and Neeraj Sharma, May 1, 2021. A Standalone Real-Time Gait Phase Detection using Fuzzy-Logic Implementation in Arduino Nano. *Workshop on Intelligent Systems, EASTON 100 – International Conference on Computing Sciences*.
	4. Negi, S., Negi, P.C., Singh, D.B.V. and Sharma, N., Comparative Analysis of SVM and DNN for Multiple Terrain Classification Using Hybrid Sensor. *Proceedings of Integrated Intelligence Enable Networks and Computing: IIENC 2020*, p.317.
	5. Somnath, Negi, S., Negi, P.C. and Sharma, N., 2020, August. Tumor Segmentation in Brain MRI using Fully Convolutional Network. In *2020 International Conference on Advances in Computing, Communication & Materials (ICACCM) (pp. 158-161)*. IEEE.
	6. Negi, P.C.B., Negi S., Sharma, S., and Sharma, N., 2021, June. Deep Learning-based System to Diagnose Learning Disabilities. *24th International Conference on "Global Importance of Data Analytics in Business Management, Social Sciences, Medical Sciences and Decision making" (FAI-ICDBSMD) 2021*.
	7. Negi, S., Kumar, Y. and Mishra, V.M., 2016, September. Feature extraction and classification for EMG signals using linear discriminant analysis. In *Advances in Computing, Communication, & Automation (ICACCA)(Fall), International Conference on* (pp. 1-6). IEEE.
	8. Negi, S., Kumar, Y. and Mishra, V.M., 2017. MLMNN and kNN Based Classification of sEMG Signal for Myoelectric Control of Upper Limb Prosthesis. In *Proceedings of the Second International Conference on Research in Intelligent and Computing in Engineering (RICE 2017)*pp. 269–272.
	9. Sachin Negi, Vibhuti Dhyani and Tripuresh Joshi, "A Novel Virtual Power Protection System with Control and Automatic Self-Healing", *First International Conference on Advances in Computing & Communication Engineering (ICACCE-2014), ISBN: 978-93-83842-15-5, pp. 219-223,* Bipin Tripathi Kumaon Institute of Technology, Dwarahat, Uttarakhand.

Books Authored/Book Volume Chapters	N. A.		
No. of Conferences	National	Attended	Organized
		01	
	International	05	
Research Guidance	Awarded	PG	Doctorate
		02	Nil
	Undergoing		
Research Projects	Completed		
	Undergoing		
Awards & Distinctions	Best Faculty of EED in 2016.		
Administrative Assignments Handled	- Working as Time Table OiC, Examination Controller OiC, Training & Placement Officer of Electrical Engineering Department, GBPIET Pauri Garhwal Uttarakhand. - Worked as **NSS Program Officer** (NSS UNIT-I) in GBPEC, Pauri-Garhwal. - Worked as **Warden** (Kedar C, D, E Hostel) in GBPEC, Pauri-Garhwal. - Electrical department "**Team Manager**" in cultural-meet **Goonj-2011, Goonj-2012, Goonj-2016** at GBPEC, Pauri-Garhwal.		
Association with Professional Bodies	Life Member of Instrument Society of India. (L.M. No. 1714)		
Any other Achievements			