


**Yadavindra College of Engineering**  
**Punjabi University South Campus**  
**Talwandi Sabo**

**FACULTY ACADEMIC PROFILE**

<b>Name</b>	Dr. Gursewak Singh	
<b>Designation</b>	Assistant Professor	
<b>Department/ Section/ Subject</b>	Electronic and Communication	
<b>Official Address</b>	Yadavindra College of Engineering, Punjabi University South Campus, Talwandi Sabo (Distt. Bathinda) Punjab India - 151302	
<b>Contact No. (s)</b>	+91-8837892212, +91-8146554373	
<b>Email (s)</b>	sewakrajput@yahoo.com	

**ACADEMIC QUALIFICATIONS**

<b>Degree</b>	<b>Degree Name</b>	<b>Thesis Title</b>	<b>University</b>
PhD	Ph.D.	A Channel Modeling and Analysis for Wireless Communication in Water Medium using Electromagnetic Waves-Research Challenges	Guru Kashi University Talwandi Sabo
Post-Graduation	M.Tech	Time and Frequency Domain Stability of Siso System using PID Controller	Yadavindra College of Engineering Talwandi Sabo
Graduation	B.Tech	--ECE--	Guru Nanak Dev University, Amritsar
Any other			
Thrust Areas/ Research Interests	1. LINEAR CONTROL SYSTEM 2. UNDERWATER WIRELESS COMMUNICATION 3. CIRCUIT THEORY		
Subjects Taught	WIRELESS COMMUNICATION, CIRCUIT THEORY, LINEAR CONTROL SYSTEM, DIGITAL ELECTRONIC, ELECTRONIC DEVICE AND CIRCUIT, ANALOG AND DIGITAL COMMUNICATION, BASIC ELECTRONIC ETC.		
Total Experience (Years)		Teaching Experience	Industry Experience

Employment History	<ol style="list-style-type: none"> <li>1. More Than 10 Year Experience in Yadavindra College of Engineering ,Talwandi sabo</li> <li>2. Still Working in Yadavindra College of Engineering ,Talwandi sabo</li> </ol>
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## Research Paper Acceptance/Publications

**Gursewak Singh, Mahendra Kumar , “Performance Analysis of Electromagnetic Waves in Sea Water Medium “ ,Wireless Network Springer, 2019.**

**Gursewak Singh, Mahendra Kumar, “The Feasibility of EM Waves Underwater Wireless Communication network in Shallow Pure Water Medium at Frequency Band 0.5GHz-4.5GHz”,Springer Conf, 2019.**

**Gursewak Singh, Mahendra Kumar, “Analysis of Electromagnetic Waves in Sea Water Medium”,Springer Conf, 2019.**

**Gursewak Singh, Mahendra Kumar, “Channel Modeling Network Analysis in Sea Water Medium For High Speed Using EM waves”, International Journal of Scientific & Technology Research , Scopus, 2019.**

**Gursewak Singh, Mahendra Kumar, “A Channel Modeling of Wireless Propagation in Water Medium using EM Waves-Research Challenges”, Compliance Engineering Journal, Scopus, 2019.**

**Gursewak Singh, Mahendra Kumar, “Channel Modeling of Underwater Wireless Sensor Network using EM Waves”, Journal of Emerging Technology and Innovative Research, 2019.**

**Gursewak Singh, Mahendra Kumar, “Performance Analysis of Wireless EM communication Network in water Medium”, Intenational Journal of Research and Analytical Review Emerging Technolgy and Innovative Research, 2018.**

**Gursewak Singh, Mahendra Kumar, “The Charactersitics of EM Waves Sensor Network in Shallow Water Medium with Variations of Salinity”, International Journal of Management, Technology And Engineering, 2018-19.**

**Gursewak Singh, Mahendra Kumar, “Channel Capacity Analysis of EM waves in Pure Water Medium and Sea Water Medium”, 6th International conference on innovative Trends in science, Engineering and management,2019.**

**Gursewak Singh, Gagandeep Kaur, “Robust Stability of LTI (SISO) System with System Gain (A) under uncertainty set using PID controller”, International Journal of Advances in Computing and Information Technology, 2012.**

**Gursewak Singh, “Robust Stability Analysis with Time Delay using PI Controller”, International Journal of Soft Computing and Engineering (IJSCE), 2012.**

**Gursewak Singh, “Robust performance for Arbitrary Order Plant Under Structured and Unstructured Uncertainties”, International Journal of Advanced Research in Computer Science and Electronics Engineering, 2012.**

**Gursewak Singh, "Sensitivity Design for Arbitrary Order Plant with Time Delay Using PI Controller", International Journal of Engineering and Management Research (IJEMR), 2012.**

## **Performed Responsibilities:**

- Conducting research, fieldwork, and investigations, and writing up reports.
- Publishing research, attending conferences, delivering presentations, and networking with others in the field.
- Traveling to other universities or academic settings to participate in learning opportunities and gain experience.
- Participating in committee, departmental, and faculty meetings.
- Providing training and mentoring to teaching assistants and junior lecturers.
- Reviewing methods and teaching materials and making recommendations for improvement.
- Assisting with student recruitment, interviews, and academic counseling sessions.
- Contributing to the creation of an environment that promotes growth, equality, and freedom of speech.
- Performed as Examiner, Deputy Superintendent.

## **Academics Review Achievements:**

- A Ph.D. in the relevant field in ECE.
- More than 10 years of experience teaching in an academic setting
- 10<sup>TH</sup> Class Topper at school ,Honoured/Awarded Prize at School level
- B.Tech degree Awarded Honourable.
- Honoured for Extracurricular Activities at School and College/University level.
- Published articles and proven experience as an academic.
- Strong teaching and mentoring skills.
- Excellent presentation, and written and verbal communication skills.
- A sound understanding and passion for subject matter.
- Willingness to work long hours, and travel frequently.
- A growth mindset and excellent networking abilities.