

## **Faculty Profile**



**Name** : Ms. Priyanka Kalkandha  
**Designation** : Assistant Professor  
**Qualifications** : **M.Tech(BIT MESRA,CSE)**, B.TECH(CSE)  
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**Area of Interest/Specialization**: Computer Science & Applications

**Experience** : 5 years

1. Assistant Professor in **Maharaja Surajmal Institute of Technology (MSIT)**, affiliated to **Guru Gobind Singh Inderprastha University**, Delhi from February 2022.
2. Assistant Professor, **Echelon Institute of Technology, Faridabad**, affiliated to **YMCA University, Faridabad** from August 2019 to September 2020.
3. Content Reviewer and Educator at **Unacademy** (India's biggest Online Education Platform) from April 2020 to January 2022.
4. Content Reviewer and Educator at **Eduncle** (Online Education platform) from January 2021 to January 2022.
5. Educator and Team Leader at **Acadflix** (Online Education Platform) from Sep 2020 to January 2021.
6. Educator at **Digiimento Education Pvt. Ltd.** (Online Education platform) from September 2017 to August 2019.

## **Achievements**

- **3 times NTA NET Qualified in Computer Science & Applications – 2021 (180 marks), 2020 & 2019.**

## **Journal Publications**

**Paper Publication: IJARCCSE (ISSN: 2277 128X)**

### **1. Energy- Efficient Routing using PEGASIS with better QoS**

Proposed new algorithm Energy Efficient delay optimized PEGASIS protocol (EEDOP). The EEDOP routing protocol is based on the original PEGASIS routing protocol. The modification is made with respect to the decision parameter i.e response, which checks the response of nearby node before transmitting the data. Our scheme achieves balance of energy dissipation among the nodes.

### **2. Current state-of-art of Energy Efficient PEGASIS routing protocols in WSN's**

Wireless sensor network is an ad-hoc network that consists of small nodes with sensing, computing and communicating wireless abilities and these sensor nodes communicate with each other via various routing Protocols. This paper reviews and compares the improved versions of Power Efficient Gathering in Sensor Information Systems (PEGASIS) protocol to achieve prolong communication in a wireless sensor network with minimal energy consumption.

### **3. Causes of SQL Injections in Modern Web Applications - International Journal of Research and Analytical Reviews (IJRAR)**

Modern day web apps are powered by a variety of technologies behind the scenes. One of the major components responsible for their functionality is the database. The most prominent of them is the SQL injection attacks. SQL injection attacks have existed since 1998. However, not much has changed since then and even today web application are vulnerable to them. The most popular tool to find and exploit SQLi bugs is Sqlmap. The present research paper makes an overview of the various causes of SQL injection in modern web apps.

## **Major Responsibilities Held at Colleges**

1. Proctor Responsibilities
2. Mentor Responsibilities
3. Project Guide
4. Cultural Activity Team member
5. R & D Team Member

## **B.Tech Courses Taught**

1. DBMS
2. Operating System
3. Software Engineering
4. Computer Networks
5. Computer Organization & Architecture
6. Theory of Computation
7. Artificial Intelligence
8. Compilers
9. Ad Hoc and Sensor Networks

**Ms. Priyanka Kalkandha**