

FACULTY PROFILE

PERSONAL

Name : Dr. R. PALANIKUMAR
Date of Joining : 23 – 01 – 2004
Date of Birth : 27 – 07 – 1982
Office Address : Associate Professor
P.S.R Engineering College (Autonomous),
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EDUCATIONAL QUALIFICATIONS (Starting from Graduation onwards):

Degree	Specialization	Year of Passing	College	Name of the University
B.E	Computer Science and Engineering	2003	Kamaraj College of Engineering and Technology, Virudhunagar	Madurai Kamaraj University, Madurai.
M.Tech.	Computer Science	2008	National Institute of Technology, Trichy	National Institute of Technology, Trichy.
Ph.D	Wireless Sensor Networks	2020	Anna University, Chennai	Anna University, Chennai.

ACADEMIC EXPERIENCE

Sl. No.	From	To	No. of Years	Position / Title	Institution / Industry Name
1	01.01.2011	Till Date	-	Associate Professor / CSE	P.S.R Engineering College (Autonomous), Sivakasi.
2	23.01.2004	31.12.2010	6 Years 11 Months	Lecturer / CSE	P.S.R Engineering College, Sivakasi.

RESEARCH

LIST OF PATENTS:

- **“Smart Alarm Device for Protecting Agriculture Field from Animals and Birds”** – Patent filed.
- **“Rain Sensing Automatic Car Mono Wiper using IC-LM358 Microcontroller”** – Patent published on 19.11.2021.

PUBLICATIONS

Journals:

- **Palanikumar R, Ramasamy K, 2020, “Software defined network based self-diagnosing faulty node detection scheme for surveillance applications”** The International Journal for the Computer and Telecommunications Industry, vol. 152, pp. 333-337. (**Annexure-I**), DOI: 10.1016/j.comcom.2019.12.034, ISSN: 0140-3664. **Impact Factor: 2.766.**
- **Palanikumar R, MuthuSundarRam M, 2019, “Multi Resolution Encryption Based on Wavlet Transformation For Digital Images”**, International Journal of Innovative Research in Engineering & Multidisciplinary Physical Sciences, Volume 7, Issue 3, ISSN 2349-7300.
- **Palanikumar R, Ramasamy K, 2018, “Effective failure nodes detection using matrix calculus algorithm in wireless sensor networks”**, Cluster Computing The Journal of Networks, Software Tools and Applications, Springer, vol. 21, no. 80, pp. 1-10, DOI: 10.1007/s10586-017-1566-0, ISSN:1386-7857 (Print), 1573-7543 (Online), **Impact Factor: 1.601.**
- **Palanikumar R, Ramasamy K, Subha M, Manivannan M, 2014, “Energy Efficient E-BMA Protocol for Wireless Sensor Networks”**, IOSR Journal of Computer Engineering, Volume 16, Issue 1, Ver. III, pp. 60-62, ISSN: 2278-0661 (online), ISSN: 2278-8727 (print).

- **Palanikumar R, Ramasamy K, Hemalatha J, 2013, "KNN based Power Efficiency in WSNs", International Journal of Emerging Technology and Advanced Engineering, Volume 3, Issue 4, ISSN: 2250-2549.**
- **Palanikumar R, Ramasamy K, 2013, "Testing of Embedded Processor in WSN nodes", International Journal of Emerging Technology and Advanced Engineering, Volume 3, Issue 2, ISSN: 2250-2549.**
- **Palanikumar R, Nagajothi N, 2012, "Maximizing the Lifetime of Query based Wireless Sensor Network using FT-DSC Algorithm", International Journal of Mathematical Sciences and Engineering, Volume 1, Issue 1, ISSN: 2250-2549.**

Conferences:

- **Palanikumar R, Ramasamy K, 2016, "A Novel Approach for failure nodes detection in WSNs", National conference on Intelligent Techniques in Control Optimization and Signal Processing, 28th, 29th March 2016.**
- **Palanikumar R, Ramasamy K, 2016, "Application of Matrix in Wireless Sensor Networks for Fault node Detection", International Conference on Information Communication and embedded Systems (ICIES '16), 25th, 26th Feb 2016**
- **Palanikumar R, Ramasamy K, Sekar A, 2015, "A Novel Approach for failure nodes detection in WSNs", International Conference on Innovations in Communications & Computer Engineering, 15th Feb 2015.**
- **Palanikumar R, Ramasamy K, Sekar A, 2015, "Implementation of Effective Failure Nodes Detection in WSN using MCS Algorithm", International Conference on Advanced Technological Innovations, 18th April 2015.**

REVIEWER DETAILS:

- Journal of Internet Technology
- Soft Computing – A Fusion of Foundations, Methodologies and Applications
- Journal of Ambient Intelligence and Humanized Computing.
- Microprocessors and Microsystems

FDP/SEMINARS/CONFERENCES

Organized

- National Conference, “**ReCanT 2013**”
- *DRDO sponsored* National Conference, “**ReCanT 2012**”
- National Conference, “**ReCanT 2011**”

Attended:

- 7-Day Faculty Development Programme on “**Accreditation Framework**” organized by IQAC, Christ Nagar College, Maranalloor, Trivandrum from 31.8.21 to 07.09.21.
- Online Elementary ATAL FDP on “**Smart Sensors Based Industrial Automation and Healthcare Technology**” organized by P.S.R Engineering College, Sivakasi from 07.06.21 to 11.06.21.
- One week Online FDP on “**Data Analytics using Python**” organized by Dept. of CSE, NITTTR, Chandigarh from 18.05.2020 to 22.05.2020.
- One week Online FDP on “**Data Science using R**” organized by Dept. of CSE, NITTTR, Chandigarh from 11.05.2020 to 15.05.2020.
- One week Online FDP on “**Linux Applications in Engineering Education**” organized by Dept. of CSE, NITTTR, Chandigarh from 27.04.2020 to 01.05.2020.
- Five days FDP on “**Data Analytics**” at Centre for Continuing Education, IISc, Bangaluru from 22.07.2019 to 26.07.2019.
- Two days FDP on “**Big Data Analytics**”, at P.S.R. Engineering College, Sivakasi, from 30.05.2019 to 31.05.2019.
- Full FDP of one week on “**Introduction to Internet of Things**”, (NPTEL – 8 week course), Apr 2019.
- One day FDP on “**Google Class Room**”, at P.S.R. Engineering College, Sivakasi on 31.10.2018.
- Full FDP of one week on “**Cloud Computing**”, (NPTEL – 8 week course), Oct 2018.
- One day FDP on “**Outcome Based Education & AICTE Model Curriculum**”,
at P.S.R. Engineering College, Sivakasi on 28.07.2018

- One week FDP on **“ICT Based Instructional Design and Delivery for Outcome Based Education”** at Eswari Engineering College, Chennai from 14.05.2018 to 19.05.2018.
- Five days FDP on **“Mobile Application Development”**, at P.S.R. Engineering College, Sivakasi from 01.11.2016 to 05.11.2016
- Three Days Workshop on **“Network Simulator and Cloud Computing”**, at P.S.R. Engineering College, Sivakasi from 4.10.2013 to 6.10.2013.
- Two days FDP on **“Training Programme on NS2”**, at Kongu Engineering College, Perundhurai from 10.08.2012 to 11.08.2012.
- Five days training Programme **“Wipro – Mission 10X”**, at P.S.R. Engineering College, Sivakasi from 24.04.2012 to 28.04.2012.
- Two days FDP on **“Computer Architecture and OS”**, at Syed Ammal Engg College, Ramnad on 17.02.2012 and 18.02.2012.
- Two days FDP on **“Contemporary Research Issues in Bio-informatics and Cyber Security”** at Sri Vidya College of Engineering and Technology, Virudhunagar on 18.02.2011 and 19.02.2011.
- Two days FDP on **“J2EE and Best Practices in Application Development”** at Government College of Engineering, Tirunelveli on 25.02.2010 and 26.02.2010.
- Two weeks FDP on **“Data Warehousing and Data mining”**, at National Institute of Technology, Trichy from 25.05.2009 to 06.06.2009.
- One day FDP on **“Software Testing”** at Kamaraj College of Engineering and Technology on 24.02.2006.
- One day FDP on **“Igniting Students’ Counselor”**, at National Engineering College, Kovilpatti on 22.10.2005.
- Two days FDP on **“Dot Net Technology”** at Kamaraj College of Engineering and Technology on 08.10.2004 and 09.10.2004.
- One day Seminar on **“Technology Awareness Seminar on Network Engineering”** at Arulmigu Kalasalingam College of Engineering,

Krishnankoil on 24.04.2004.

ADDITIONAL RESPONSIBILITIES

- End Semester Practical Time-table Coordinator
- Library Officer
- Information Support System – Convener
- Department BoS Secretary

***** Updated Nov'2021