Neethu S

I am an Assistant Professor with over 13 years of experience in higher education, committed to excellence in teaching, curriculum development, and student engagement. Over the years, I have developed and delivered a wide range of undergraduate courses, consistently aiming to create an engaging and supportive learning environment. My teaching philosophy centers on student-centered learning, critical thinking, and the practical application of knowledge.I am also actively involved in research, with a focus on Embedded systems and Cybersecurity.

In addition to my teaching role, I have held several leadership positions, including Department TTO for six years. I am actively involved in student development initiatives, curriculum design, and technical training programs. I am passionate about deepening my expertise and contributing to meaningful research in the field of Computer Science and Engineering.

Personal Information

- **Name:** Neethu S
- **Designation:** Assistant Professor
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Domain of Expertise

Research Focus

- **Primary Area:** Wireless Communication, Computer Networks, IoT,
- **Allied Areas:**
  - Software-Defined Networks
  - Cyber security
  - Artificial Intelligence and Machine Learning

Academic Qualifications

- **M.Tech**: Embedded Systems, Amrita Vishwa Vidyapeetham, 2012
- **B.E./B.Tech**: ECE, Calicut University, 2009

Professional Experience

Experience

S.No	Institute/College/Industry	Job Title	Duration (From- To)
1.	RV College of Engineering	Assistant Professor	August 2012-till date

Publications

Journal Publications

1. Neethu S, Dr. H.V. Ravish Aradhya, "Evaluation of distributed denial of service attacks detection in software defined networks", IAES International Journal of Artificial Intelligence (IJ-AI), December 2024, Vol.13, No.4, pp. 4488-4498 DOI: http://doi.org/10.11591/ijai.v13.i4.pp4488-4498 (Scopus-indexed, Q2 Journal)
2. Shreya Pejathaya, Shyamala A., Neethu S, "Network Routing Algorithm for a Software Defined Approach", WHJJ Journal Vol. XVI, Issue 7,pp: Page No:215-223 July 2020 doi: doi.org/10.37896/whjj16.07/178
3. Shreya Pejathaya, Shyamala AA, Neethu S., "Application Of Semantic Segmentation Using OpenCV And Deep Learning" International Journal of Innovative Research in Technology, Vol. 7, Issue 1, ISSN: 2347-1697, June 2020.
4. Sahana B.S., Neethu S.,"A Review on Information Security" International Journal for Research in Applied Science and Technology, Vol.8, Issue 6, June 2020.
5. Neethu S, "Enhanced Flexible Cache Consistency Maintenance Over Wireless Adhoc Networks", International Journal of Informative & Futuristic Research ISSN: 2347-1697nal of Informative & Futuristic Research, Vol. 4, Issue 4, ISSN: 2347-1697, December 2016.
6. Satyanarayana Reddy, Neethu S, , "Analysis and implementation of Reed Salomon codes for Forward Error Correction using LabVIEW", International Research Journal of Engineering and Technology (IRJET), Volume 3, Issue 12, e -ISSN: 2395-0056 December 2016.
7. Nayan Tendulkar, Neethu S, Deepika K S, Kavitha Seetharam Naik, Sanjitha S, Sindhu L, "Development of Testing Tool For PSI5 Sensors For Automotive Applications" International Journal of Advance Engineering & Research Development, IJAERD, Vol. 2, Issue 3, ISSN 2348 – 6406, December 2015.

Conference Papers

1. Sudarshan B, Shantanu BS, Srivaths S.,Neethu S, Manjunatha C, "Metal Oxide Based Electrochromic Materials: Recent Advances in Synthesis, Characterization, and Applications", ECS Transactions, Vol.107, April 2022 ,pp.18583--18591 doi {10.1149/10701.18583ecst}
2. Sudarshan B, Shantanu BS, Srivaths S, Neethu S, Manjunatha C, "Recent Advances in Nanomaterials Used for RFID Technology and Their Applications ", ECS Transactions, Vol.107, April 2022 ,pp.12189--12199 doi {10.1149/10701.12189ecst}
3. Neethu S, Dr. H.V. Ravish Aradhya, "Detection of (DDoS) Attacks in SDN", ECS Transactions, Vol.107, April 2022 ,pp.18305--18313 doi 10.1149/10701.12189ecst
4. "Design and Simulation of Cognitive Radio Networks with Selective Reporting SU Cluster", Ashwini S. Damoji, Neethu S, presented in 6th IEEE Conference on Recent Trends in Electronics, Information & Communication Technology, RTEICT 2021 during 27th-28th August 2021 at SVCE, Bengaluru.
5. "Performance Analysis of Various SDN Controllers In Mininet Emulator", Arun K. Arahunashi, Neethu S , Dr. H. V. Ravish Aradhya, presented in 4th IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT 2019)
6. "Implementation of Server Load Balancing Techniques Using Software- Defined Networking", presented in IEEE International Conference on Computational Systems & Information

Technology for sustainable Solution [CSITSS-2018], organized by RVCE during 20-22 December 2018.

7. "Design and Implementation of smart mobile phone charger", presented in International on New Trends in Engineering & Technology [ICNTET-2018], organized by GRT College of Engineering & Technology, Chennai, 7-8 September 2018.
8. Akhshatha KV, S Divya shree, Priyanka K G, Neethu S , "Cashless Electronic Money", in Second IEEE International Conference on Electronics, Communiaction and Aerospace Technology(ICECA2018), March 29-31, 2018
9. Daanish Md Shariff , Kamna Kumari , Shree Lakshmi K.P , Neethu S , "Beamforming At Base Stations Using Adaptive Algorithms", IEEE International Conference On Recent Trends In Electronics Information Communication Technology, May 19-20, 2017.
10. Lakshmidevi H M , , Neethu S , "Design of Diplexer for LTE-28/26 band using D-CRLH transmission line Metamaterials", IEEE International Conference On Recent Trends In Electronics Information Communication Technology, May 19-20, 2017.

Student Supervision

- **M.Tech/M.Sc. Students:** 15
- **Undergraduate Research Mentees:** 45

Teaching

Core Courses: [Current semester]

- CS344AI - IoT & Embedded Computing
- CS124BT – Introduction to Cybersecurity

Advanced/Lab Courses:

- CS344AI - IoT & Embedded Computing Lab
- Programming in C