Shilpa K C
Assistant Professor
CSE Department
BIET, Davangere

Address:
Department of Computer Science & Engineering,
Bapuji Institute of Engineering & Technology, Shamanur Road,
Davangere-577004.

Email: shilpskc@bietdvg.edu,
shilpastjit21@gmail.com
Google Scholar : rGvbMp0AAAAJ
ORCID ID: 0000-0003-2485-5874

Objective

To obtain a teaching position where I can utilize my knowledge of advanced teaching methods such as team learning and e-learning. Develop and promote creativity and high-order thinking skills that increase the performance of the students.

Research Interests

- Artificial Intelligence
- Machine Learning
- Blockchain
- Graph Theory

Academic Profile

M. Tech (VTU, Belgaum)

Master of Technology (M. Tech) in Computer Science & Engineering from STJIT, Ranebennur

B. E. (VTU, Belgaum)

Bachelor of Engineering (B.E) Computer Science & Engineering from STJIT, Ranebennur

Teaching Experience

Assistant Professor

Department of Computer Science and Engineering, BIET Davangere from 06-06-2019 to till date.

Department of Information Science and Engineering from 14-02-2017 to 05-06-2019.

Department of Computer Science and Engineering, STJIT Ranebennur from 01-02-2016 to 01-02-2017.

Lecturer

Department of Computer Science and Engineering, STJIT Ranebennur from 04-08-2011 to 20-09-2014

Professional Memberships

- Associate Member of Institute of Engineers: AMI87664-6

- CSTA

- IRINS

- IAENG

Subjects Handled

- Artificial Intelligence
- C programming for problem solving
- Management and Entrepreneurship for IT Industry
- Storage Area Networks
- File Structures
- UNIX and Shell Programming
- Object Oriented Concepts
- Computer Networks
- Java and J2EE, Mobile Computing
- Ad-hoc Networks
- Software Engineering

Additional Roles @ BIET & Other Institutions

- Department Time-Table coordinator.

- Department website coordinator.

- NBA Criteria 4 (Team member).

- NAAC Criteria 2 (Team member).

- Mentor for Student Empowerment Program organized by ICT ACTACADEMY in association with Honeywell.

Patents

"A Process and System for Index-Based Data Analysis for Correlating Physical Properties of Anti-Cancer Chemical Compound on a Client Computing device" (Application No: 202041054658 A, Filing Date: 16/12/2020, Publication Date: 25/12/2020)

List of Publications

- "Degree-based topological indices on anticancer drugs with QSPR analysis", Heliyon, volume 6, issue 6, Year 2020,

- DOI: 10.1016/j.heliyon. 2020.e04235 (Elsevier).

- "Novel neighbourhood redefined first and second Zagreb indices on carborundum structures", Journal of Applied Mathematics and Computing, Year 2020, Pages 1-14 (Springer Berlin Heidelberg).

- "M-Polynomials and Topological Indices of Styrene-Butadiene Rubber (SBR)", Polycyclic Aromatic Compounds, Year 2020, Pages 1-16 (Taylor & Francis)

- "Graph entropies of porous graphene using topological indices" Computational and Theoretical Chemistry, volume 1197, Pages 113142, DOI: 10.1016/j.comptc.2021.113142 (Elsevier).

- "Generalized reciprocal sanskruti index: chemical applicability and bounds", Letters in Applied NanoBioScience, volume 9, issue 4, Year 2020, Pages 1595-601, DOI:10.33263/LIANBS94.15951601.

- "Degree-Based Topological Indices on Asthma Drugs with QSPR Analysis during Covid-19", European Journal of Molecular & Clinical Medicine, volume 7, issue 10, Year 2020, Pages 53-66.

- "Comparison of novel index with geometric-arithmetic and sum-connectivity indices", J. Math. Comput. Sci., volume 11, issue 5, Year 2021, Pages 5344-5360.

- "Novel Degree-Based Topological Descriptors of Carbon Nanotubes", Journal of Chemistry, Volume 2021, Article ID 3734185, DOI: 10.1155/2021/3734185 (Hindawi).
- "Sentiment Analysis for Hotels using Computer Vision", International Journal of Scientific Development and Research, volume 6, issue 8, Year 2021, Pages 17-20.
- "A general neighborhood redefined Zagreb index on Boron Nanotubes", Malaya Journal of Matematik (MJM), volume 9, issue 1, Year 2021, Pages 836-843, DOI:10.26637/MJM0901/0147 (University Press).
- "Cyclohexane based isomers discrimination using topological indices", Malaya Journal of Matematik (MJM), volume 9, issue 1, Year 2021, Pages 524-532, DOI:10.26637/MJM0901/0088(University Press).
- "Frontend Development of Billing Application", International Journal of Advances in Engineering and Management, volume 3, issue 7, Year 2021, Pages 4062-4065.
- "Comparative Analysis of Native and Web-Based Mobile Application", International Journal of Emerging Technology in Computer Science & Electronics, Volume 26, Issue 7, Year 2019, Pages 32-35.

Inter-National Conferences

Presented a paper entitled "Enhancing Profit with Performance in Cloud Computing" in the International Conference on Recent Trends in Engineering, Technology and Science (ICRETS-2016) organized by STJ Institute of Technology, Ranebennur.

Seminars/Workshops Attended

Sl. No.	FDP/STTP on	Duration(days/weeks)	Organization
01	Intellectual property Rights(IPR) for computer related inventions	2 days	RNGPIT in association with CSI and SSIP
02	Python Programming	6 days	Government First Grade College And PG Center, CHINTAMANI-563125,
03	REACT JS	6 days	Braino vision Solutions India pvt. ltd and National Youth Council of India
04	Data Analytics using IBM Cognos Analytics & Tableau	6 days	Stanley College of Engineering & Technology for Women in collaboration with SmartBridge Educational Services Pvt Ltd.
05	Java Programming	3 days	Infosys
06	Multi technology	1 week	Stanley College of Engineering & Technology for Women in collaboration with Brainovision and National Youth Council of India
07	Multi-Technologies	1 week	Aarupadai Veedu Institute of Technology (AVIT) in collaboration with BRAIN O VISION.
08	EMERGING TRENDS 2.0	5 days	Bit Institute Of Technology - Hindupur In Association With Huddle Rise Academy
09	Applications of statistics in data Analysis	2 days	Coimbatore Institute of technology
10	Artificial Intelligence and Deep Learning for computational Biology	6 days	PSNA college of engineering and Technology
11	IoT and its Applications	5 days	Sapthagiri College Of Engineering, Chikkasandra

12	Introduction to Angular JS	6 days	ICT Academy
13	Data Science using Python	3 days	GMIT, Davanagere in association with X-Ciencia Technologies India Pvt. Ltd.
14	Get your Head in the Cloud	2 days	Dr. N G P Institute of Technology, Chennai.
15	Cyber Security Threats and Vulnerabilities in Real Time applications	6 days	St. Joseph's College of Engineering, Chennai.
16	Current Trends And Research Opportunities In Information Technology	5 days	Tontadarya College Of Engineering, Gadag.
17	Blockchain for Beginners	1 day	Vivekananda Institute of Technology, Bengaluru.
18	Frontiers of Computer Science	5 days	Jain Institute of Technology, Davanagere
19	Open Research Challenges in IoT	1 day	Rajiv Gandhi college of engineering, Chennai.
20	Machine Learning in Cyber Security	1 day	Narasimha Reddy Engineering College, Hyderabad
21	Applications of AI	1 day	Pallavi engineering college, Pachal, Namakkal
22	Artificial Intelligence and Data Science	5 days	Oriental institute of science and technology
23	Digital technologies in Industry 4.0	3 days	Stella Mary's college of engineering, Tamilnadu
24	Data Science and Big Data Analytics Conducted by ICT academy	5 days	BIET, Davanagere.
25	STTP through ICT mode on Effective Teaching	5 days	National Institute of Technical Teachers training and research, Kolkata at BIET, Davanagere.
26	Moodle Learning Management System	1 day	ICT at IIT Bombay funded by PMMMNMIT, MHRD, Govt. of India at BIET, Davanagere.

27	Virtual student day program on Artificial Intelligence	1 day	BIET Davanagere.
28	Data Science with Python	2 days	JIT, Davanagere.
29	AICTE sponsored national level seminar on IoTs in Transforming Rural Healthcare System and Point of Care Testing	2 days	UBDTCE, Davanagere.
30	Industry Institute Innovation Interaction	1 day	R&D cell, BIET, Davanagere.
31	Hands on Cloud Computing	2 days	BIET Davanagere.
32	Hands on Bigdata and Apache Hadoop	2 days	FOCS, University B.D.T college of Engineering, Davanagere
33	Storage Area Network (SAN) Configuration and Management	2 days	Data lifecycle company at STJIT, Davanagere

Research Plan

Estimating Nutrient deficiency in crops using Machine Learning and Computer Vision

Shilpa K C

Assistant Professor

Department of CSE

BIET, Davanagere