



NAME: Dr.TANUJA K.S

Designation: Associate Professor

Department: Electrical and Electronics Engineering

Date of Joining	01.07.2011		
Professional Experience	Teaching	Industry	Research
	22	Nil	05

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Academic Background		
• Ph.D	VTU, Belagavi	Awarded on 10 -07-2024
• M Tech	Bangalore University	First Class
• BE	Bangalore University	First Class

Areas of Interest	
• Power Systems	• FACTS
• Power Electronics	• Genetic Algorithm

Significant Publications
1. No. of Papers Published in Journals (5)
1. Tanuja K.S, Shanmukha Swamy, H.B.Gurushankar, H.A. Dinesha “ Dynamic Bandwidth

Allocation Scheme For Enhanced Performance in 5G Point-To-Point Networks” has been published in ICTACT Journal on Communication Technology(IJCT), Volume 14 ,No 02, pp.2945-2951, June 2023.

2. Tanuja Koppa Shankaregowda, Dr.Shankaralingappa Channappa Byalihal, **“Optimal Location of Multiple FACTS Devices in N-1 Contingency Conditions Using Traditional Genetic Algorithm,”** International Journal of Power Electronics and Drive Systems (IJPEDS), Vol.14, No. 3, September 2023,pp 1876-1884. [SCOPUS]
3. Tanuja Koppa Shankaregowda, Dr.Shankaralingappa Channappa Byalihal, **“ Economic Flexible AC Transmission System devices placement/Sizing with (N-1) Contingency using Genetic Algorithm,”** Indonesian Journal of electrical Engineering and Computer Science(IJEECS), Vol.32, No. 2, November 2023, pp.664-675. [SCOPUS]
4. Tanuja Koppa Shankaregowda, Dr.Shankaralingappa Channappa Byalihal, **“A Novel Accelerated Genetic Algorithm-Based Technique for Optimal Placement of Multiple FACTSDEV in Power Systems under N-1 Contingency”** has been Accepted in the Journal International Journal of Power Electronics and Drive Systems (IJPEDS).[SCOPUS]
5. Dr. Hanumesh, Tanuja K.S, Dr. Venugopal , Dhamodharan, **“PV Powered UPQC using ANFIS Controller in a Standard Microgrid Test Environment”** has been Accepted in the Journal International Journal of Power Electronics and Drive Systems (IJPEDS).[SCOPUS]

2. No. of Papers Presented in Conferences (2)

1. Tanuja K.S, Shankaralingappa C B, **“Optimal Location and Sizing of FACTS Controllers In Transmission System Using Genetic Algorithm Under Contingency Condition,”** International Conference on Power, Control and Sustainable Energy Systems(ICPCSES-2022) , Aarhus University, Denmark, July 28-30, 2022. [SCOPUS INDEXED]
2. Tanuja K.S, Shankaralingappa CB **“ Optimal Location of FACTS Controllers Under Contingency Condition Using GA Technique”** presented on 24/02/2024 and Published in International Multi-Conference(Springer) on Advances in information Technology, Communication and Energy Systems (AITCES) Organised by Dr. AIT Bengaluru, India. [SPRINGER]
3. Tanuja K.S **“Analysis of PWM Inverter Fed Squirrel Cage IM with PI SIM”** presented in National Conference on Emerging Trends in Engineering Sciences and Management(NCESM)-2016 , held on 23rd and 24th March 2016, organized by SIET, Tumakuru.

3. List of FDP's/Workshops (Numbers and Description)

1. Solar Energy, SSIT, 1st & 2nd Dec 2006
2. Wind power generation, SSIT, 31st March & 1st April 2006
3. Recent Advances in Power Electronics, SSIT, 9th & 10th Dec 2007
4. Web Design, SSIT, 11th – 13th Nov 2005
5. Introduction to Research Investigation in Recent years in Electrical & Electronics Engineering, 16th March 2009, BNMIT, Bangalore
6. One day workshop on power system simulation using standard MiPower Software package,

4th July 2009, PRDC, Bangalore

7. "Electrical CAD" M.S. Engineering College, Bangalore, 6th to 8th DEC-2012

8. Five Days Faculty development program (FDP) "National Board of Accreditation (NBA), conducted 23rd to 28th July 2015, SIET, Tumkuru

9. Faculty development program "Intelligent Algorithms & Applications", conducted from 17th to 19th Jan 2018 at Dr. Ambedkar Institute of Technology, Bengaluru.

10. One day work shop "New Model Curriculum for First Year B.E/B.Tech-CBCS Detailed Syllabus (2018-19) as per outcome-based Education (OBE) format including course outcomes (CO) and Bloom's Taxonomy" Under TEQIP-1.3 for the course Basic Electrical Engineering & Lab under EEE Board on 14/05/2018 at MS Ramaiah Institute of Technology, Bengaluru.

11. One day work shop "Role of Ratings, Rankings & Accreditation in Creating Institutions of Eminence and Excellence" organized by BITES on 21st JULY 2018 at PES University, Bengaluru .

Long Term Course attended

One Month Course in "ELECTRICAL CAD" at Edu CADD Training Service, Tumkur, Feb 2013

Research Conclave

1. Tanuja K.S, Shankaralingappa CB " **Optimal Location of FACTS Controllers in Transmission System Under Contingency Condition Using Knowledge based Approach**" presented the poster on 02/12/2023 in the First Research Conclave-2023, Organised by Dr. AIT Bengaluru, 560056..

4. Patents Published (Numbers and Description)

1. Tanuja K.S has been published on " **CEILING LIGHT** " Design No. 393124-001 (20/08/2023)
In patent office, Government of India
2. Anzum, Shankaralingappa C B, Arathi P.B, Tanuja K.S has been published on " **APPLICATION OF HYBRID TLBO-PSO ALGORITHM FOR ALLOCATION OF DISTRIBUTED GENERATION AND STATCOM** " Patent number : 202341055724 (01/09/2023).
3. Tanuja K.S, Shankaralingappa C B, Arathi P.B has been Filed on " **ECONOMIC FLEXIBLE AC TRANSMISSION SYSTEM DEVICES PLACEMENT /SIZING WITH (N-1) CONTINGENCY USING GENETIC ALGORITHM**" Patent number: 202341074769 (15/12/2023).
4. Arathi P.B , Shankaralingappa C B, Tanuja K.S has been Filed on " **OPTIMAL PROTECTIVE RELAYING**

SCHEME OF DISTRIBUTED GENERATION CONNECTED DISTRIBUTION NETWORK USING PARTICLE SWARM OPTIMIZATION-GRAVITATIONAL SEARCH ALGORITHM TECHNIQUE” Patent number : 202341075463 (22/12/2023).

5.Tanuja K.S has been published on **“WIRELESS CHARGING PAD “** Design No.412475-001(3-04-2024) patent office ,Government of India

5. KSCST Student Projects Funded /Funded project and consultancy (Numbers and Information)

1. **“ Bi-Model Spy copter”** Project has done by Chethan T.R and Chandan Kumar It has been selected as one of the best project.
2. **“Alternate Energy From Busy Road Supporting Smart Street Lightning System With Fault Detection using GSM”** project done by Rahul K R, Mobin Benny ,Shivannand. The Project has been selected as best project and sponsored with 5000/ cash prize. Project selected under the category of circuit branch for the VTU sponsored Project from Department of EEE.

6. Project Guided details:

Total Project guided in academic is 16

Achievements

9. Editorial Board Member

Worked has a Board of Examiners (BOE) , VTU Belagavi in the Academic Year 2022-23

10. Reviewer for

“International Conference on Internet of Things, Communication, Intelligence and Computing “(IC-ICIC-2023) held on 5th and 6th May 2023, organized by Shridevi Institute of Engineering and Technology, Tumakuru, Karnataka, India-572106

11. Professional Membership

Life member of Indian society of Technical Education (M.I.S.T.E)