Faculty Profile

Name:	**Dr. Soumita Ghosh**
Designation:	Assistant Professor
Teaching Areas:	Power Systems, Power system planning and reliability, Power system operation and control.
Research Area:	Power system reliability, Bayesian networks, Petri nets.
Education:	PhD from Birla Institute of Technology, Mesra in 2019.
	M.Tech from Birla Institute of Technology, Mesra in 2014.
	B.E. from Bangalore Institute of Technology, Bengaluru, Karnataka in 2012.

Professional Experience: (3 Months)

1. Oct 2020-Till Date: Assistant Professor, IFHE, Hyderabad.

Research / Selected Publications:

1. **SoumitaGhosh**, DebomitaGhosh, D. K. Mohanta, "Impact assessment of reliability of phasor measurement unit on situational awareness using generalised stochastic Petri nets", International Journal of Electrical Power & Energy Systems (IJEPES- Elsevier), vol. 93, pp. 75-83, 2017. (Impact factor: 3.289)
2. **SoumitaGhosh**, DebomitaGhosh, D. K. Mohanta, "Functional uncertainty analysis of phasor measurement unit using fuzzy hidden Markov model", IETE Journal of Research (Taylor and Francis), vol. 64, no. 1, pp. 100-107, 2018. (Impact factor: 0.829)
3. **SoumitaGhosh**, DebomitaGhosh, D. K. Mohanta, "Situational awareness enhancement of smart grids using intelligent maintenance scheduling of phasor measurement sensors", IEEE Sensors Journal, vol. 17, no. 23, pp. 7685-7693, 2017. (Impact Factor: 2.512)
4. **SoumitaGhosh**, DebomitaGhosh, D. K. Mohanta, "Multilevel reliability allocation of phasor measurement unit using Bayesian networks", Electric Power Components and Systems (Taylor and Francis), vol. 46, no. 16-17, pp. 1756-1768, 2018.(Impact Factor: 1.144)

International Conferences:

1. ParthaBortamuly, **SoumitaGhosh**, DebomitaGhosh, D. K. Mohanta, "Petri net modelling of phasor measurement unit", International Conference on Telecommunication, power analysis and computation technologies (ICTPACT 2017), IEEE, 16-18 Feb. 2017, Chennai, India.
2. **SoumitaGhosh**, Soumik Das, Debomita Ghosh, D. K. Mohanta, "Fuzzy Approach for reliability analysis of PMU", International Conference on Environment and Electrical Engineering (EEEIC 2014), IEEE, 10-12 May 2014, Krakow, Poland.