

## SAGAR SIKDER

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Indian Statistical Institute  
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### Qualification

- PhD (Mechanical Engineering) and ME (Production Engineering) from Jadavpur University, Kolkata
- B. Tech in Mechanical Engineering from NIT Warangal
- Certified Six Sigma Master Black Belt from Indian Statistical Institute

### Area of interest / Expertise

Six Sigma, Statistical Process Control, Design of Experiment, Data analytics, Taguchi Method, Statistical modelling, Multivariate Analysis

### Paper published/accepted in referred journal

**Sikder, S.**, Panja, S.C., and Mukherjee, I. (2017), “ An integrated approach for multivariate statistical process control using Mahalanobis- Taguchi system and Andrews function,” *International Journal of Quality and Reliability Management*, vol. 34, no.8, pp. 1186-1208.

**Sikder, S.**, Mukherjee, I. and Panja, S.C. (2019), “A synergic multivariate statistical process control framework for monitoring, diagnosis, and adjustment of multiple response abrasive machining processes,” *International Journal of Industrial and Systems Engineering*, vol. 33, no., pp. 314-345

**Sikder, S.**, Mukherjee, I. and Panja, S.C. (2018), “A Case Study on Implementation of Mahalanobis -Taguchi System for Multivariate Manufacturing Process Control” *IAPQR Transactions*, vol. 43, no.01, pp. 61-71

**Sikder, S.**, Mukherjee, I. and Panja, S.C. (2020), “A synergistic Mahalanobis-Taguchi system and support vector regression based predictive multivariate manufacturing process quality control approach” *Journal of Manufacturing Systems*, vol. 57, pp. 323-337.

## Paper published/accepted in conference proceedings

**Sikder, S.**, Mukherjee, I, Panja, S.C. and Bera, S.(2014), “A Mahalanobis Taguchi System-based Approach for Correlated Multiple Response Process Monitoring,” *International Conference on Industrial Engineering and Operations Management(IEOM 2014)*, Bali, Indonesia, January 7 – 9, 2014

Roy S., Mukherjee, I., **Sikder, S.** and Bera , S., (2017), “ Service Quality Evaluation of Multi-channel Service requests using Mahalanobis-Taguchi System”, *2<sup>nd</sup> International Conference on Robust Quality Engineering*, January 2017.

## Book published

Sarkar, A., Anis, M.Z and **Sikder, S.** (2013), “Quality, Reliability, and Operations Research (ICONQROR-2013)”, Excel India Publishers (New Delhi).

## List of Industries Served (as a Consultant/Trainer)

L & T, Electrical Business Group  
Enercon India Ltd.  
Welspun  
Ultratech Cement  
TATA Capital  
IPCA  
Reliance BPO  
Paradeep Phosphate  
Equate petrochemicals  
TATA SED  
TATA Aeronautical  
Uttam Glava  
Jindal Steel and Power  
Turbine Blade shop, L&T  
Naval Armament Inspectorate  
Jindal Poly films  
Johnson tiles  
Madura coats  
Ordnance factory  
Finolex  
Vertellus

### **Invited talks / lectures delivered.**

- Guest lecture on 'Logistic Regression' at Sailesh J Mehta School of Management, IIT Bombay
- Guest lecture on 'Engineering Applications of Statistical Techniques' at Mukesh Patel College of Engineering, Andheri
- Guest lecture on "Statistical Techniques on Research and Development, at Naval Material Research Laboratory, DRDO, Ambarnath.
- Guest lecture on "Vendor selection using process capability index" in Indian Railway Institute of Electrical Engineer (IRIEEN), Nasik.
- Guest lecture on "Statistical process control (SPC)" at Ordnance factory, Ambarnath

### **Work Experience**

- Worked as a Lecturer in National Institute of Science and Technology, Orissa during 2003-2006.
- Worked as an Assistant Manager (Operation) in West Bengal Power Development Corporation during 2006-2008.
- Working as a Technical Officer in SQC & OR Unit, ISI since 2008.