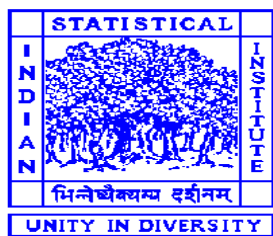


# ISHTEAQUL ISLAM MEMORIAL LECTURE

23 October 2021

SQC & OR Unit

Indian Statistical Institute, Bangalore



Organized by:

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## Ishteaqul Islam Memorial Lecture



Title: **Digital Twins and Healthcare**

Speaker: **Mark Goh**

National University of Singapore, Singapore

Date: 23 October 2021 (Saturday)

Time: 11:55 AM to 1:00 PM IST

### Abstract:

Hospitals look to improve their operational efficiency and productivity to treat more patients without increasing cost and justify the capital investment. The hospital of the future is already taking steps to embrace new, disruptive, innovative technologies and ensure that technologies interface well with human operators. The future employees will co-work and collaborate with robotic technologies in a shared workspace to deliver the same level of patient care, if not better.

This talk will provide a glimpse of an actual project which: Integrates current human effort seamlessly with Robotic Process Automation (RPA) activities. Designing of efficient logistics flow system (of central sterile services, materials management, food, pharmacy, linen), developing robust RPA solutions and minimizing disruptions from automation introduction. The transportation system within the hospital, dispatching rules of the lifts and robots, are optimized through extensive simulation on Simio, and we provide a knowledge recommender system using Python.

## Ishteaqul Islam Memorial Lecture



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Speaker: **Mark Goh**

National University of Singapore, Singapore

Date: 23 October 2021 (Saturday)

Time: 11:55 AM to 1:00 PM IST

### About the Speaker:

Prof. Goh is a Professor at the NUS Business School and Director for Industry Research at The Logistics Institute-Asia Pacific, both at the National University of Singapore. He received his PhD from the University of Adelaide, Australia. He has more than three decades of working experience both in industry and academia in Australia, Europe, and Asia. He has published over 230 research papers and 41 books/monographs/chapters in the areas of Supply Chain Management, Purchasing, Quality and Healthcare, Service Operations, Scorecarding and Supplier Performance Management Systems, and Reverse Logistics.

Prof. Goh is honoured with University of Adelaide Research Scholarship (Australia), Van Vleck Assistant Professorship (Wisconsin-Madison, USA), Commonwealth Fellow (UK), Citibank International Fellow (USA), Listed in Who's Who in Asia and the Pacific Nations and many more.

## Ishteaqul Islam Memorial Lecture

### Registration Fee

There is no registration fee for this program. Seats are limited.

The participants will be selected on the first-come-first-serve basis.

### Registration Form link

<https://forms.gle/n1uzE7Higt33EYaq7>

### Important Information

Date: 23 October 2021 (Saturday)

Time: 11:55 AM to 1:00 PM IST

**Contact:** Dr. Firoz Ahmad

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4. It functions as a University empowered to award degrees up to Ph.D.; as a Corporation in undertaking large scale projects; as a Firm of Consultants to industries to improve Quality, Reliability & Efficiency and as a Meeting place of Scientists, Economists & Literary figures from all parts of the world.

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1. The pioneer and leader in blending statistical theory with practice and institutionalizing the continuous improvement process into a sustainable system.
2. To strengthen the national economy through a continual search for excellence in Quality.
3. To disseminate the basic concepts and techniques for Quality Improvement by organizing Training programs, Workshops and In-house programs.
4. To develop highly skilled professionals capable of self-actualization.
5. To help industries in their efforts to cope up with the growing challenge of global competition through implementation of quality systems based on ISO-9000 series, ISO-14000, QS-9000 standards, Six Sigma & World Class Manufacturing.
6. To continually develop and improve methodologies through applied research efforts to attain International Standards in services provided.