

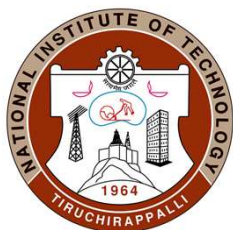


Three Day Workshop  
on  
Recent Trends in  
Biomedical Instrumentation  
and Assistive Technology

(on-line mode only)  
under SPARC programme

May 26-28, 2021

Principal Coordinator  
Dr. P.A. Karthick



Organized by  
Department of  
Instrumentation and Control Engineering  
National Institute of Technology  
Tiruchirappalli-620015

### ABOUT THE INSTITUTE

National Institute of Technology, Tiruchirappalli is one among the premier Institutions of India and is well known for its high standards in academic and research. It offers ten undergraduate and twenty-four Postgraduate programs in the disciplines of Engineering, Science, Architecture and Management. The Government of India under NIT Act has declared it as an Institute of National Importance. NIT Trichy is ranked first among all NITs across the nation and secured 9<sup>th</sup> position in Engineering in the India Rankings 2020 released by NIRF, Government of India. More details at <http://www.nitt.edu>.

### ABOUT THE DEPARTMENT

The Department of Instrumentation and Control Engineering is interdisciplinary in nature. The department was established in the year 1993. It has vibrant faculty members with research and teaching interests that cover a broad range of fields. The department offers B.Tech. program in Instrumentation and Control Engineering, M. Tech program in Industrial Automation, M.S. (by research) and Ph.D. The department with its state-of-the-art faculties has obtained various funded projects from government/private organizations and renowned industries.

### ABOUT SPARC

The Scheme for Promotion of Academic and Research Collaboration (SPARC) aims at improving the research ecosystem of India's Higher Educational Institutions by facilitating academic and research collaborations between Indian Institutions and the best Institutions in the world from 28 selected nations to jointly solve problems of national and/or international relevance.

### COURSE CONTENTS

Introduction to basic physiological systems, signals and images, current trends in medical instrumentation, neuromuscular and neurological conditions, modeling and simulation, rehabilitation and assistive devices, medical device regulations and standards, and Artificial Intelligence in Healthcare.

### COURSE FACULTIES

SPARC foreign collaborators Prof. Kianoush Nazarpour, University of Edinburgh, and Prof. Laurence Kenney, University of Salford; Prof. S. Ramakrishnan, IIT Madras, Dr. P.A Karthick along with faculty members from IITs, NITs and experts working in the area of medical instrumentation and assistive devices.

### REGISTRATION

**There is no registration fee for this course. All participants will be issued e-certificate of participation**

Please register using the following link

<https://bit.ly/3tV3t4V>

Last Date for registration **25<sup>th</sup> May 2021**

### ADDRESS FOR COMMUNICATION

Dr. P. A. Karthick,  
Assistant Professor  
Instrumentation and Control Engineering  
National Institute of Technology  
Tiruchirappalli-620015.  
Email: [pakarthick@nitt.edu](mailto:pakarthick@nitt.edu)