# One Day Lecture Series on
# Design, Fabrication and Applications of Microsystems

## *February 4th, 2026 (Wednesday)*

## Venue: Seminar Hall, Dept. of ICE, NIT-T

**Dr. Muthukumaran Packirisamy**
**Professor and Concordia Research Chair**
**Faculty of Engineering and Computer Science, Concordia University, Montreal, Canada.**

***organized by***

## Department of Instrumentation and Control Engineering
## National Institute of Technology, Tiruchirappalli

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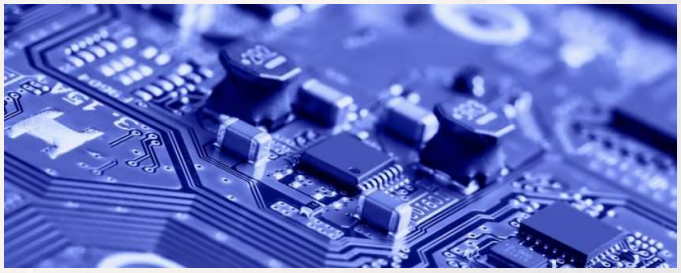
| 9.00 AM to 9.30 AM | Registration |
| 9.30 AM to 11.00 AM | Semiconductor Fabrication – Introduction and Nanoscale Defect Inspection |
| 11.15 AM to 12.45 PM | Introduction, Design, Fabrication of Microsystems |
| 12.45 PM to 1.45 PM | LUNCH |
| 1.45 PM to 3.15 PM | Concept of Integration in Microsystems and Possibilities |
| 3.30 PM to 5.00 PM | Cantilever Systems and Applications: Overview |
| 5.00 PM to 5.30 PM | Roundup and Conclusion |

**Registration Fee: Rs. 250**
(to cover expenses on Lunch and Refreshments)

Registration Link: https://forms.gle/cfwWUH9hxQDPoEBTA



**For further details, contact:**

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# Biography of Prof. Muthukumaran PACKIRISAMY

M. Packirisamy FRSC, a strong promoter of innovation in Canada in the area of Bio-Microsystems, is the Chair of Mechanical, Industrial and Aerospace engineering, Professor, Gina Cody Research and Innovation Fellow, and Concordia Research Chair on Optical-Bio-Microsystems at Concordia University. As the Director of Micro-Nano-Bio Integration Center and Optical-Bio-Microsystems Lab, He studies nano integrated microsystems for cancer diagnosis to green energy harvesting, Lab on Chip, Bio-Microsystems and micro-nano integration. He is the recipient of ***Robert W Angus Medal from Canadian Society of Mechanical Engineering, Gino Cody Research and Innovation Fellow, Distinguished Researcher of the University Award, Gina Cody Distinguished Excellence Researcher, Research Communicator of the Year, Ex Member Royal Society of Canada College, Fellow National Academy of Inventors (US), Fellow Royal Society of Chemistry (UK), Fellow Royal Society of Canada, Fellow Indian National Academy of Engineering, Fellow Engineering Institute of Canada, Fellow Canadian Academy of Engineering, Fellow American Society of Mechanical Engineers, Fellow Institution of Engineers India, Fellow Canadian Society for Mechanical Engineering and I.W.Smith award from Canadian Society for Mechanical Engineering, Concordia University Research Fellow, Petro Canada Young Innovator Award, ENCS Young Research Achievement Award, Distinguished Alumnus of NITT and Distinguished Research Fellow of University*.** As an author of around 550 articles published in journals and conference proceedings, 50 invited talks, 30 inventions, obtained grants around $16Million and supervised more than 16 Research Associates/PDF, 33 PhDs, 54 Masters and 71 UG students in addition to teaching around 4000 students. He has also published a textbook, BioMEMS: Engineering and Science Perspectives, and 6 book chapters. His Recent invention on energy harvesting from photosynthesis of blue green algae and Direct Sound Printing had more than 400 citations around the world and was covered by most of the countries and media throughout the world. In addition to helping many start-up companies establish and incubate, he collaborates with many industries to commercialize his inventions, train students to create companies and create innovative mind-set among students.