**Short Course on Embedded Wireless & Communication Networks for Manufacturing and Automation**

30 September to 2 October 2014.

**Program**

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| Day 1: |  |  |
| Time | **Topics** | **Presenters** |
| 8:30 am | Registration, Tea / Coffee |  |
| 9:00 am | Welcome and Introduction to the workshop | Jamil Khan andRick Middleton |
| 9:10 am | Overview of wireless & communication systems for automation & manufacturing | Jamil Khan |
| 9:45 am | Wireless industrial control system – I | Peter Edwin |
| 10:45 am | Tea |  |
| 11:00 am | Wireless industrial control system - II | Peter Edwin |
| 12:00 pm | LUNCH |  |
| 1:00 pm | Distributed control systems for automation | Rick Middleton |
| 3:10 pm | Tea / Coffee |  |
| 3:30 pm | Radio link design and error correction techniques for reliable data transfer in noisy channels | Duy Ngo |
| 5:00 pm | End of day one |  |

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| Day 2: |  |
| Time | **Topics** | **Presenters** |
| 9:00am | Fundamentals of wireless communication systems | Jamil Khan |
| 10:45 am | Tea |  |
| 11:00 am | Embedded wireless communication systems-I | Jamil Khan |
| 12:00 pm | Lunch |  |
| 1:00 pm | Embedded wireless communication systems-II | Jamil Khan |
| 2:15 pm | Network simulation techniques for wireless systems design | Jason Brown |
| 3:15 pm | Tea |  |
| 3:30 pm | Network Simulation Lab -I | Jason Brown and Oliver Hulin |
| 5:00 pm | End of day two |  |

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| Day 3: |  |
| Time | **Topics** | **Presenters** |
| 9:00 am | Wireless sensor networks & Internet of Things | Jamil Khan |
| 10:00 am | Embedded wireless communication laboratory: Introduction | Jamil Khan and Peter Turner |
| 10:45 am | Tea |  |
| 11:00 am | Industry Guest Speaker | TBA |
| 12:00 pm | Lunch |  |
| 1:00 pm | Embedded wireless laboratory -I | Peter Turner and Oliver Hulin |
| 3:00 pm | Tea / Coffee |  |
| 3:15 pm | Embedded wireless laboratory -II | Peter Turner and Oliver Hulin |
| 5:30 pm | End of day 3 & course |  |