



## The Internet of Things (IoT) for a Connected Future Technologies, Applications, and Opportunities

NIT Kurukshetra, 2<sup>nd</sup> to 6<sup>th</sup> December 2017

Advances in information technology (IT), communication and sensing are transforming several aspects of our industry, business and society. They are creating a new connected, smarter digital world in which just about everything will become connected with each other sharing information and collaborating with others. The Internet of Things (IoT) drives and facilitates this vision and is poised for significant rapid growth, offering huge opportunities for all the stakeholders - businesses, IT professionals, application developers, researchers and students.

The IoT is emerging as a game changer and will have profound impact on several sectors in India and abroad. To realize - and benefit - from vast opportunities that the IoT presents, India needs developers, professionals and executives who are knowledgeable in various aspects IoT, understand its impact and potential, and identify niche opportunities. They should also be capable of realising those opportunities by developing and deploying new IoT applications or start new businesses focussed on IoT.

This new Global Initiative on Academic Network's course on the IoT will provide participants holistic overview of IoT and equip them with required skills and knowledge on several aspects of IoT and its applications. It will also enable them to identify promising research and business opportunities the IoT presents and help them benefit by realising those opportunities. This course will help academics, students, researchers and practitioners acquire specialised knowledge and skills in this area.

<b>Modules</b>	<ul style="list-style-type: none"> <li>➤ Introduction to IoT</li> <li>➤ Supporting Technologies</li> <li>➤ IoT Devices</li> <li>➤ IoT Ecosystem</li> <li>➤ Applications</li> <li>➤ Development and Deployment</li> <li>➤ IoT Data Management and Analytics</li> <li>➤ Leveraging Cloud and Cognitive Computing</li> <li>➤ Outlook and Opportunities</li> </ul>
<b>This course is for</b>	<ul style="list-style-type: none"> <li>➤ Faculty members from academic institutions</li> <li>➤ Research scholars</li> <li>➤ Postgraduate and senior undergraduate students</li> <li>➤ Practitioners</li> <li>➤ Policy makers and government officials</li> <li>➤ Anyone interested to learn about IoT and its potential</li> </ul> <p>Number of participants for the course will be limited to fifty.</p>

## Course Fee

The participation fee for taking the course is as follows:

- NIT Kurukshetra Faculty and Students: INR 1000
- Faculty from other recognized educational institutions: INR 2000
- Students from other recognized educational institutions: INR 1000
- Members of Government Research Organizations: INR 3000
- Members of Industry/Private Research Institution: INR 4000
- Participants from abroad: US \$300

Registration fee includes only attendance to sessions, course material and lecture notes; laboratory equipment usage charges; and free internet facility. The course fee does not include accommodation. However, the participants will be provided accommodation on payment basis in the institute guest house based on availability. Send your queries, if any, by email to [kapil@nitkkr.ac.in](mailto:kapil@nitkkr.ac.in).

## The Faculty



**Professor San Murugesan** is adjunct professor at Western Sydney University and Director of BRITE Professional Services, Sydney, Australia. He is Editor in Chief of IEEE Computer Society's *IT Professional* magazine and editor of *Computer* magazine. His expertise and interests span a range of areas and includes the Internet of Things, cloud computing, green IT, IT for Emerging Regions, smart systems, and automation and employment. He has developed and delivered multilevel certification and training programs on the Internet of Things, cloud computing and green IT.



**Dr Kapil** is Assistant Professor at NIT Kurukshetra and has served in the field of education for over four years. His Research interests include Machine Learning and Wireless Sensor Networks. He is an IEEE member. He has published many research papers with international and national publishers. He is currently working on image processing, for the identification of certain objects like leaves and prolonging life of the WSN.



**Prof. Ashutosh Kumar Singh**, working as a Professor and Head in National Institute of Technology; Kurukshetra, India. He has more than 15 years research and teaching experience in various Universities of the India, UK, and Malaysia. Prior to this appointment, He have worked as an Associate Professor and Head of Department Electrical and Computer Engineering in School of Engineering Curtin University Australia offshore Campus Malaysia, Sr. Lecturer and Deputy Dean (Research and Graduate Studies) in Faculty of Information Technology, University Tun Abdul Razak Kuala Lumpur Malaysia, Post Doc RA in the Department of Computer Science, University of Bristol, Faculty of Information Science and Technology, Multimedia University Malaysia and Sr. Lecturer in Electronics and Communication Department at NIST, India. Dr Singh has obtained Ph. D. degree in Electronics Engineering from Indian Institute of Technology, BHU, India, Post Doc from Department of Computer Science, University of Bristol, UK and Chartered Engineer from UK. His research area includes Verification, Synthesis, Design and Testing of Digital Circuits. He has published more than 140 research papers till now in different

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journals, conferences and news magazines and in these areas. He is the co-author of six books which includes Web Spam Detection Application using Neural Network, Digital Systems Fundamentals and Computer System Organization & Architecture. He has worked as a principal investigator for four sponsored research projects and was a key member on a project from EPSRC (UK) Logic Verification and Synthesis in New Framework

### **Registration Process**

Registration for GIAN courses is not automatic because of the constraints on maximum number of participants allowed to register for a course. In order to register for one or multiple non-overlapping courses, you have to apply online using the following steps:

#### ***Stage1:***

**GIAN Web (Portal) Registration:** Visit GIAN Website at the link:

<http://www.gian.iitkgp.ac.in/GREGN/index> and create login user ID and Password. Fill up blank registration form and do web registration by paying Rs. 500/- online through Net Banking/ Debit/ Credit Card. This provides the user with life time registration to enroll in any number of GIAN courses offered.

#### ***Stage2:***

**Course Registration (Through GIAN Portal):** Log into the GIAN portal with the user ID and Password you created. Click on “Course Registration” option given at the top of the registration form. Select the Course titled “The Internet of Things for a Connected World” from the list and click on “Save” option. Confirm your registration by Clicking on “Confirm Course”.

Only Selected Candidates will be intimated through E-mail by the Course Coordinator. They have to remit the necessary course fee in the form of DD drawn in favor of “The Director, NIT Kurukshetra-136 119” payable at NIT- Kurukshetra.

**The last date of registration is 15<sup>th</sup> November 2017.**