



Business Executives (ABE), the British Computer Society (BCS), and the Association of Certified Chartered Accountants (ACCA). He received an Award of Appreciation from the Association of Business Executive, UK in December 2005 for tutoring the prize winner. In 2006 he enrolled for a part time Master by Research degree at Kingston University. On winning a studentship of around £60,000 from Engineering and Physical Sciences Research Council (EPSRC) in March 2007; He was upgraded to PhD to undertake full time research in the Area of Wireless Mesh Networks.

During his PhD, He developed national and international research collaborations. He received the Foreign Expert Certificate from the State administration of Foreign Experts Affairs, People's Republic of China in September 2008. He has published several papers in peer-reviewed journals and presented his research work at major international conferences.

Dr. Iqbal has recently won project funding of £24,900 from Technology Strategy Board, UK to conduct a study entitled "A load balanced automated wireless network for community" in collaboration with Swansea University UK.

Pre-requisites:

Degree in the area of wireless networks or computer related field

Tea and light refreshment will be served during the course

- (c) Introduction to Open Source Linux Operating System and Research Communities

Who Should Attend?

Researchers, Engineers and Under graduate and Postgraduate students wishing to undertake research in the area of wireless networks.

About the Instructor:

Dr. Muddesar Iqbal has taught at several institutes in London Since 2003. After completing his bachelor in Computer Science Degree in January 2000, He started his career as Software engineer with Innovative Computers Lahore. He was offered a job at B&B consultant UK as Software Engineer in October 2001 where he worked till August 2002. In February 2003 he started his academic career and joined Boston College London, UK as Lecturer of Information Technology and worked there full time for 4 years. He taught modules in professional IT courses provided by the Association of

Wireless Mesh Networks

Instructor: Dr Muddesar Iqbal

July 26 - 30, 2010

Course Description:

In the field of Wireless Mesh Networks an increasing research efforts are being devoted to problems associated with specific application areas, as each specific area of WMN application faces particular challenges due to its unique network communication requirements.

Healthcare & Emergency and disaster recovery are instance of such an application areas where research investigations are still required to design new protocols and improve existing ones. The course is intended to provide the necessary theoretical background and practical exposure to Wireless Mesh Networks and discuss the current developments and future directions for applied research into the area of Wireless Networks for applications in Healthcare and Emergency and Disaster Recovery.

Aims and Objectives:

The course is aimed at providing:

- (a) Background Knowledge to the research in the area of Wireless Mesh Networks
- (b) Practical Exposure to the Developments in the area of Wireless Mesh Networks and Future Directions



Outline:

Day 1

- Background of Wireless Network
- Current Open Issues and Challenges
- Wireless Mesh Networks
- Applications of Wireless Mesh Networks in Healthcare & Emergency and Disaster Recovery

Day 2

- General Public License Developments and Open Source Research Communities
- Introduction to Linux Operating Systems
- Wireless Mesh Network Protocols

Day 3

- Research Methodologies
- Real World Testbed Development v/s Simulations
- Demonstration of SwanMesh: A dual Radio Wireless Mesh Network Testbed

Day 4

- Technologies in the Area of Wireless Networks
- Standards in the Area of Wireless Network

Day 5

- Future Directions for Research and Development
- IST and SwanMesh Research Collaboration and Knowledge sharing opportunities

Professionals

Students

Fee: Rs. 7,000/-

Fee: Rs. 3,000/-

A group of minimum 5 professional will get discount of Rs. 2000/- per participant

A group of minimum 5 students will get discount of Rs. 1000/- per participant

REGISTRATION FORM

I apply for admission to the above course.

Course fee payable through crossed cheque to Institute of Space Technology is enclosed.

Name: _____

Organization: _____

Position: _____

Qualification: _____

Address: _____

Tel No.: _____

e-mail: _____

Signatures: _____ Date: _____

Completed form should be returned to:

Course Coördinator

Institute of Space Technology

Near Rawat Toll Plaza, Islamabad Highway,

Islamabad 44000

Telephone: (051) 9075461, 9075420

bilal.khan@ist.edu.pk

www.ist.edu.pk

Copy of this form is acceptable

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Timings:

09:00 am - 01:00 pm (Monday-Friday)

Venue:

Institute of Space Technology

Near Rawat Toll Plaza, Islamabad Highway,
Islamabad.

Registration:

Requests for participation on the prescribed form (or photocopy) should reach the course coordinator a week prior to the commencement of course. List of selected participants will be uploaded on the website. The final selection, however, is subject to receipt of the formal application. Forms can be downloaded from [http:// www.ist.edu.pk](http://www.ist.edu.pk)

For further information, please contact:

Course Coördinator

Telephone: (051) 9075461

(051) 9075420

bilal.khan@ist.edu.pk

Professional Development Short Course

Wireless Mesh Networks

Instructor: Dr Muddesar Iqbal

July 26 – 30, 2010

Institute of Space Technology

Islamabad Highway, Islamabad 44000