REPORT OF WORKSHOP/SEMINAR CONDUCTED ON INDUSTRY/ACADEMIA AT SCHOOL OF ENGINEERING, UPES.

2014-2015

SEMINAR ON "==WSECURED SMART HEALTHCARE MONITORING SYSTEM BASED ON IOT=="

1. Slide/Banner/Photos

2. Date, Venue and Topic

Seminar on "==WSecured Smart Healthcare Monitoring System Based on IOT==" held at UPES on 7th July 2014.

3. Speaker(s) and their profiles (1-2 lines)

==Mr. Anil Kumar== from Bangalore was invited as the speaker of the seminar. He is a ==system engineer== and has an ==experience of more than 12 years==. He conducted more than twenty seminar/workshop in various institution and universities in India.

4. Attendees Details (Nos/Schools/Departments/ Teaching or Non-Teaching

==A total of 60 people participated in the seminar. Ten faculty members from mechanical Engineering/Electrical and Electronics Engineering department participated in the event. There were around 50 students and 12 non-teaching staff.==

5. Brief about the event

In this seminar, speaker discussed about smart health monitoring system based on IoT. The speaker discussed how the different parameters of human body such as blood pressure, heart rate, ECG and temperature can be measured using sensors and can be send to the cloud using Node MCU. The doctors can monitor all the parameters on the application on the phone. The system will also generate an alert notification which will be sent to doctor. The speaker focuses on the fundamental aspects of the sensor and Arduino hardware. The embedded C programming was also the part of the session.

WORKSHOP ON "PATENT EXAMINATION QUALITY MANAGEMENT"

1. Slide/Banner/Photos

2. Date, Venue and Topic

Workshop on "Patent Examination Quality Management" held *at UPES* on 7th September 2014.

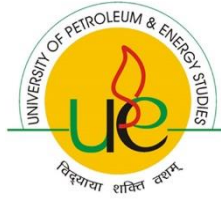3. Speaker(s) and their profiles (1-2 lines)

Mr. Rajeev Kumar from New Delhi. He has an experience of more than 10 years in academics and industry. He conducted more than 40 workshop in various institution and universities in India.

4. Attendees Details (Nos/Schools/Departments/ Teaching or Non-Teaching

In this workshop 150 people participated. In this workshop 85 faculty members from different departments of school of engineering and computer science participated. There were around 65 students who participated in the workshop.

5. Brief about the event

In this workshop, speaker outlines fundamental principles of quality management on patent examination. The speaker said that to sustain and enhance the quality of patent examination based on its Quality Policy, aiming to achieve patent examination that is the fastest and utmost quality in the world. The speaker focus on the outline of quality management system (QMS), measures being implemented in the examination departments, transacting with external organizations and persons and international measures on examination quality.

WORKSHOP ON "IOT BASED BIOMETRICS IMPLEMENTATION ON RASPBERRY PI"

1. Slide/Banner/Photos

2. Date, Venue and Topic

Workshop on "IoT Based Biometrics Implementation on Raspberry Pi" held at *UPES* on 17th July 2014.

3. Speaker(s) and their profiles (1-2 lines)

Mr. Rakesh Nautiyal from Hyderabad was the speaker of the workshop. He is a design engineer and has an experience of more than 10 years. He conducted more than 20 workshop in various institution and universities in India.

4. Attendees Details (Nos/Schools/Departments/ Teaching or Non-Teaching

A total of 80 people participate in this workshop. The faculty members (20 in numbers) are from the department of Electrical and Electronics Engineering department. There were 50 students and 10 non-teaching staff.

5. Brief about the event

In this workshop speaker focuses on embedded system and IoT. He said that IoT plays vital role in present electronics system .A detailed discussion on IoT in detail and its use in different applications is carried out. Furthermore, he also discussed about technical specifications of Raspberry Pi hardware and implementation of Python programs on Raspberry Pi. The focal point of the workshop was the IoT based biometric implementation on Raspberry Pi. The speaker discussed the importance and applications of this embedded system.

WORKSHOP ON "BUILDING RESPECT FOR INTELLECTUAL PROPERTY (IP) FOR RESEARCH AND DEVELOPMENT"

1. Slide/Banner/Photos

2. Date, Venue and Topic

Workshop on "Building Respect for Intellectual Property (IP) for Research and Development" held *at UPES* on 19th July 2014.

3. Speaker(s) and their profiles (1-2 lines)

Mr. Alok Mishra from New Delhi. He is an academician and has a rich teaching experience of 25 years. He has conducted around 55 workshop and seminars in various institution and universities in India.

4. Attendees Details (Nos/Schools/Departments/ Teaching or Non-Teaching

In this workshop 100 people participated. The faculty members from different department of school of engineering and computer science participated in the workshop. There were 74 students who attended the workshop.

5. Brief about the event

In this workshop speaker discussed Intellectual Property (IP) and their role for society. He said that building respect for IP means helping create an environment in which IP can fulfill its role to stimulate innovation and creation. It also means fostering an environment in which the system of protection provides equitable benefits for both owners and users of IP. The workshop focuses on IP for research and development of the society.

1. Slide/Banner/Photos

2. Date, Venue and Topic

Workshop on "Full Authority Digital Engine Control" held *at UPES on* 9th September 2014

3. Speaker(s) and their profiles (1-2 lines)

Mr. Rajesh Gautam was invited as speaker from Bangalore. He is a network and security engineer and has an experience of more than 15 years. He has conducted around 40 workshop in various institution and universities in India.

4. Attendees Details (Nos/Schools/Departments/ Teaching or Non-Teaching

In this workshop a total of 90 people participated. The faculty members in total 25 from Mechanical, Aerospace and Electrical and Electronics Engineering department have attended the workshop. There were 30 students who attended the workshop.

5. Brief about the event

In this workshop speaker first defines Full Authority Digital Engine Control (FADEC), he said that FADEC is a system consisting of a digital computer, called an electronic engine controller (EEC) or engine control unit (ECU), and its related accessories that control all aspects of aircraft engine performance. He said that FADEC works by receiving multiple input variables of the current flight condition including air density, throttle lever position, engine temperatures, engine pressures, and many other parameters. He added that FADEC not only provides for efficient engine operation, it also allows the manufacturer to program engine limitations and receive engine health and maintenance reports. He concluded with the advantages and disadvantages of FADEC.

1. Slide/Banner/Photos

2. Date, Venue and Topic

Seminar on "Use of IPR to protect social rights" held *at UPES* on 17th September 2014.

3. Speaker(s) and their profiles (1-2 lines)

Mr. Harsh Prasad from Mumbai was invited as a speaker in the seminar. He is an academician and has more than 20 years of experience. He has conducted around 40 workshop and seminar in various institution and universities in India.

4. Attendees Details (Nos/Schools/Departments/ Teaching or Non-Teaching

A total of 120 people participated in this seminar. In total 70 faculty members from different departments from school of engineering and computer science have attended the seminar. The seminar was attended by 50 students from school of engineering and computer science.

5. Brief about the event

In this seminar speaker defines Intellectual property rights and their need for the society. The speaker discussed that the importance of intellectual property was first recognized in the Paris Convention for the Protection of Industrial Property (1883) and the Berne Convention for the Protection of Literary and Artistic Works (1886). Both treaties are administered by the World Intellectual Property Organization (WIPO). The speaker said that IPR reward creativity and human endeavor, which fuel the progress of humankind. The speaker focuses on the use of IPR to protect social rights.

WORKSHOP ON "CONTINUOUS NEIGHBOUR DISCOVERY IN ASYNCHRONOUS SENSOR NETWORK"

1. Slide/Banner/Photos

2. Date, Venue and Topic

Workshop on "Continuous Neighbour Discovery in Asynchronous Sensor Network" held *at UPES* on 18th September 2014.

3. Speaker(s) and their profiles (1-2 lines)

Mr. Naveen Malhotra from Hyderabad was invited as a speaker in the workshop. He is senior design engineer and has an industry experience of more than 15 years. He conducted around 60 workshop through various institution and universities in India.

4. Attendees Details (Nos/Schools/Departments/ Teaching or Non-Teaching

In this workshop a total of 80 people participated. The workshop was attended by around 20 faculty members from electrical and electronics department. There were 50 students and 10 non-teaching staff.

5. Brief about the event

In this workshop the speaker discussed the basics of wireless sensor networks. Detecting new links and nodes in sensor networks is an ongoing process. In the session, speaker discussed the detection of new links and nodes during initialization, i.e., when the node is in Initial state, and their detection during normal operation, when the node is in Normal state. The former will be referred to as initial neighbor discovery, whereas the latter will be referred to as continuous neighbor discovery. The speaker also discussed different cases using MATLAB software from his research work to discover neighbour in asynchronous sensor network.

1. Slide/Banner/Photos

2. Date, Venue and Topic

Seminar on "IP Institutional Policy: Challenges in Adoption and Implementation" held *at UPES* on 20th September 2014.

3. Speaker(s) and their profiles (1-2 lines)

Ms. Nidhi Sharma Bangalore, was invited as speaker in this seminar. She is an academician and has an experience of more than 20 years. She has conducted around 65 workshop in various institution and universities in India.

4. Attendees Details (Nos/Schools/Departments/ Teaching or Non-Teaching

A total of 100 people participated in this seminar. The faculty members from different department of school of engineering and computer science participated in the seminar. There were around 50 students in the seminar.

5. Brief about the event

In this seminar new IP institutional policies which were recently developed was briefly discussed. The speaker also discussed the issues that still need to be defined and aligned to the existing framework. Challenges in adoption and implementation of IP institutional policy were the focal point of the seminar. Speakers also discussed the impact of IP policy on current knowledge transfer and IP commercialization activities.