



Directorate of Outcome

Outcome Report

Event/Activity @AUH

Event Name –Microsoft IT Academy -Student Internship Training on “Internet of Things”

Aim of Event:The purpose of this activity was to train the students about a new emerging area of Internet of things with Python language. It's an event conducted as part of the MOU agreement signed for Microsoft IT Imagine Academy setup at AUH by ATS Infotech Pvt. Ltd. (Microsoft Authorized Education Partner) responsible for conducting Microsoft Certification based courses at AUH.

Details of Speaker:Mr. Sumit Sharma- Sr. Research Engineer (ATS InfoTech Pvt Ltd.), (IOT, Android and Mind Controlled and Robotics Developer),having more than 4 years of experience in IT-conducting Trainings and Workshops on Android and Mind Controlled Robotics along with 60+ Corporate Training programs conducted by him on similar techniques.

Date: 28th May to 12th June 2018

Venue: C-214, Smart Class Room, C- BLOCK

Organized By: Department of CSE, ASET

Faculty Coordinator(s):Mr. Amit Wadhwa and Ms. Nishu Sethi

Participation:Department of CSE-ASET, Amity University Haryana

Outcome of the Event with Time Line (Achieved)

1. Outcome related to Academia Connect

Participants had learned about Internet of Things and its Road Map towards its usage in real life applications and scenarios. They Learned about using Java and Android together and their integration python compiler. Further students gained knowledge about hardware devices used along with ways to program them and synchronize. Mainly it's all about training students on a new emerging technology and further developing projects using it, suitable for acting as Students Internship Training based project.

2. Outcome related to Industry Connect

IOT and Android technologies are the need of the hour in today's IT environment. Almost every company specially MNC's require students who had good understanding about IOT, Python and Android. It provides areas for students to explore and further utilize them as their summer

internship-based projects and further meet the demands of companies, making them industry ready.

3. Outcome related to Students Learning &Grooming

The students are the real learners in this course as it was designed keeping in mind the interest of students which ultimately help them to use this IOT domain for further growing their career in IT industry.

4. Outcome related to Society outreach

Learning gained from this course would encourage students to develop some intuitive projects which would be aimed at needs of our society, identifying new solutions to prevalent problems faced by society with the power of technology. Exploring new domains using it which are yet to be thought of for a solution using this technology.

Total of 65 students registered for the course from B.Tech (ASET-CSE-ECE) 2nd, 3rd Year and from AIIT (B.Sc.IT, BCA) 2nd, 3rd Year and successfully completed project design and implementation part using the IOT kits provided to them as part of the hands on training. The resource person for this event was Mr. Sumit Sharma Sr. Research Engineer (ATS InfoTech Pvt Ltd.), (IOT, Android and Mind Controlled and Robotics Developer).

The first day began with the introduction about domain of IOT and its growing importance and reach across various areas of the IT industry and society. Participants got to know about use of IOT for solving various problems of the society. Second session for the day was all about knowing the applications of the emerging domain of IOT. Some videos were shown by trainer regarding its current and future prospects-oriented applications useful for society.

The second day started with introduction to hardware aspects of the IOT, i.e. the involved hardware devices required for working with it like Raspberry Pi 3 and some of the sensors available for providing various features to the IOT aligned system. Some introduction was also given relating to the electronics involved with this domain.

From third to sixth day students were taught about the basics of Java Programming required for coding with the IOT devices involving practical demonstrations and implementation for the same. Apart from Java, students were taught about the Python language used for programming with the IOT hardware devices and sensors. Students were given hands on training for the same during sixth day for the same.

The seventh to ninth day involved the details about every sensor along with their working with practical demonstration for each is provided by trainer. Alongside it, students were asked to perform similar kind of circuit connections with their personal IOT kits distributed in group

of 5 students on day three. Students were informed about the circuit diagram of the required IOT Raspberry Pi engine and its associated connections

The tenth to twelfth days involved the sessions for information about the projects which the students could undertake and develop useful for better practical understanding of the subject alongside completing their project development requirement for summer internship training to be completed as part of their respective course curriculum.

Then from thirteenth to sixteenth day, morning to evening sessions are dedicated towards completing a prototype and actual model for the project selected by them in a group of 4-5 students each. At the end of the last session few selected projects were also demonstrated and presented by few student groups.

Some of the glimpses of the FDP are as shown here:





