Research plan for five years

2012-2017

**Aims:**

- The IT research plan is set up to cope with the need of the market and industry and in the mean time satisfy the academic standard methodologies and norms of research work in the academic institutions. The current research plan aims to cover all aspects that best serve the two objectives. IT also aims at matching the new national and international research trends.

**Action:** Guided research toward solving the common problems in different Information Technology areas.

**Time Limits:** 5 years plan 2012-2017

- The purpose of the Information Technology major at the faculty of computers and information, Assiut University is to provide a clear academic focus for the discipline of Information technology. The primary faculty members in our department have been active in their research and teaching but additional faculty members are needed to better achieve the goals of the department research plan besides the teaching work load. We seek ten additional faculty members over the next five years. Our primary focus is on young faculty members who are likely the make fundamental advances in core IT research areas which are as follows:

1. Mobile computing and applications
2. Network security and privacy
3. Wireless, mobile, Ad Hoc and sensor networking
4. RFID applications and security
5. Cloud Computing
6. Multimedia systems
7. Vision and Robotics
8. Human computer interaction (HCI)
9. Intelligent Networks
10. Network architecture. Design and implementation
11. Distributed Network Algorithms
12. Network Protocols
13. Network Programming
14. Network technologies
15. Network services and applications
16. Network operation and management
17. Broadcasting and Media Technologies
18. Web systems and technologies
19- Lyber security
20- Internet of things

• Our Plan is to focus on a few fundamental areas from the above list every year
• The plan is administrated by the department head. It is reviewed annually by a faculty committee and revised every five years in a consultative process involving all faculty members and approval bodies.

Prof. Hosny Mohamed Ibrahim
IT Chairman
18/4/2015