

Research Plan for information Systems Department (2012- 2017) :

1- Aims:

- a. Introduce a high – level of research to post- graduate information system students .
- b. Provide an enriched information system research environment for post graduate students in the information system department.
- c. Include a variety of research in the information systems paradigm that can coop with the tremendous change in the society.
- d. Help researchers to arrive into the innovation level.
- e. Strengthen the relation between the society and information systems department through applications such as Bioinformatics ,biodiversity, and GIS.
- f. Establish a strong relation between the industry and the department.

2- Action:

Guided research toward the common problems in different specialties in information systems.

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

4- Research Directions:

- a. Big data analytics.
- b. Bioinformatics.
- c. Biodiversity.
- d. Database management including:
 - . Distributed databases
 - . Moving objects database
 - . Multimedia database
 - . Object- oriented databases
 - . Scientific data management
 - . Real- time data
 - . Spatio- temporal databases

- . Web databases
- e. Data integration
- f. Data mining
- g. Data compression
- h. Decision support systems
- i. Design science research
- j. Enterprise systems research
- k. Geographical information systems
- l. Information security
- m. Information retrieval
- n. Semantic Web
- o. Social media information