



HOUSE OF WATER & ENVIRONMENT

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TEMPUS PROGRAMME  
CD\_JEP-33087-2005 (PS)

## Progress Report The second training course

### GIS applications In Urban Planning, Water and Environment

*(software: ArcGIS 9.3)*

Conducted by: Eng. Jamal ZETAWI ([Jamal432@yahoo.com](mailto:Jamal432@yahoo.com))

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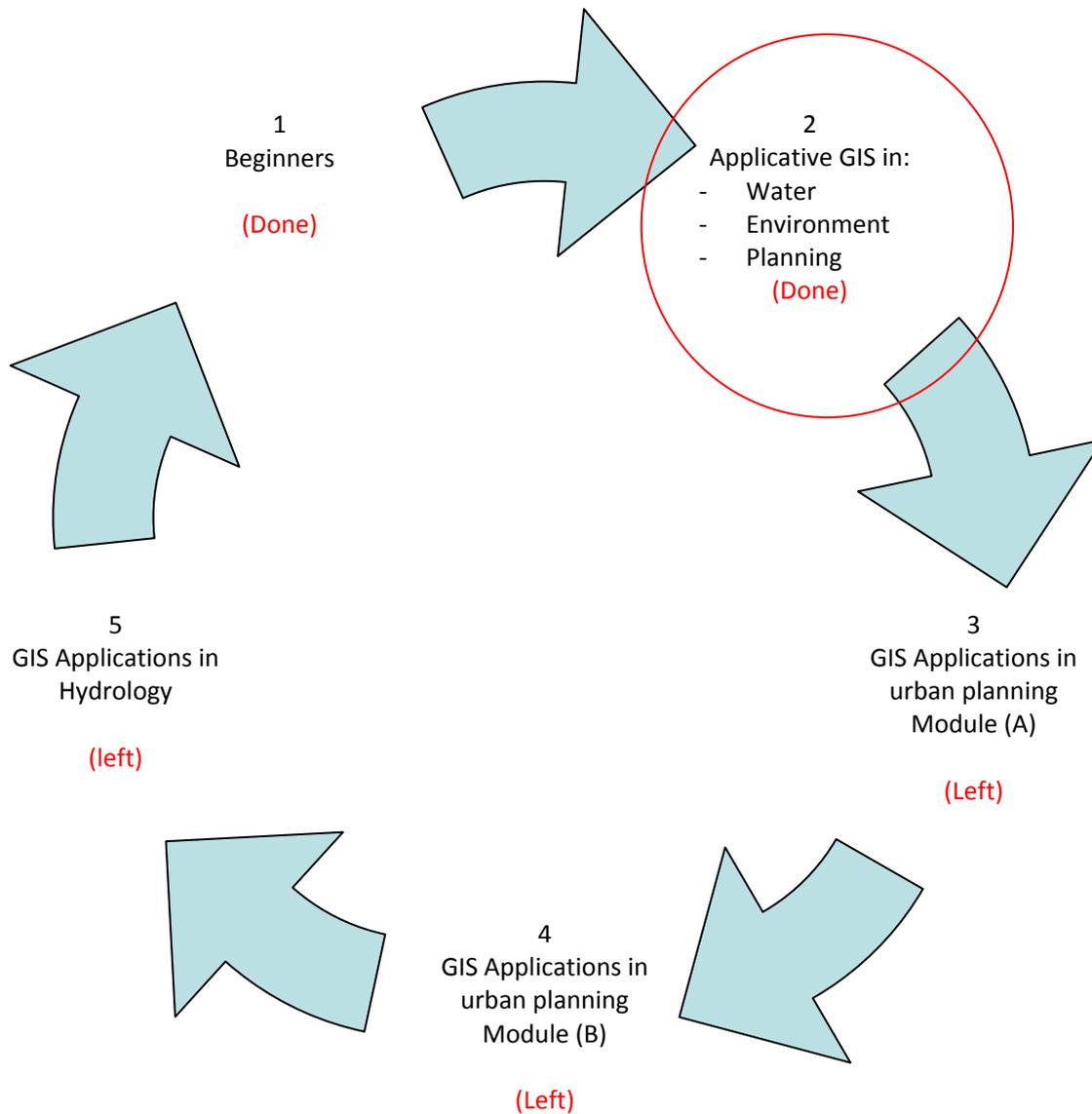
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## Introduction

One main component of the tempus project is capacity building for the Palestinian institutions in the field of GIS. For that purpose, House of Water and Environment (HWE) has analyzed the questionnaire which has been filled by the institutions that apply GIS techniques in their work. The analysis of the questionnaire reflected the needs of these institutions for training in GIS in different areas and mainly: planning, water and environment. Cases study have been developed to cover these themes as concept and software. The diagram below shows the five training courses of the tempus project.



The other two components of the tempus project are being prepared. They include two curriculums for the undergraduate and postgraduate students. These courses will be offered for the students at the Palestinian university in the coming semesters.



## Course Duration

It is a 20 hours training course. The table below shows the detailed schedule.

Day	3:00 PM-5:00 PM	5:00 PM-5:20 PM	5:20 PM-7:00 PM
Sunday, August 24, 2008	session	Break	session
Monday, August 25, 2008	session	Break	session
Tuesday, August 26, 2008	session	Break	session
Wednesday, August 27, 2008	session	Break	session
Thursday, August 28, 2008	session	Break	session

## Course Material

- Manual in two formats: hard and soft copy.
- Data (exercises)

## Participants

Eleven trainees have participated in the training course.

## Topics of the training

Case studies have been developed in the fields of planning, water and environment to cover the basic related concepts as well as manipulation of the software. The next table depicts the topics in details.

Planning	Water	Environment
<ul style="list-style-type: none"> <li>▪ Master Plan</li> <li>▪ Best Route</li> <li>▪ Contour Presentation in 3D</li> <li>▪ Building presentation in 3D</li> <li>▪ Movie shots</li> <li>▪ Route Events</li> </ul>	<ul style="list-style-type: none"> <li>▪ Recharge Calculation</li> <li>▪ Landfill site selection</li> <li>▪ Rainfall presentation</li> <li>▪ Streams, Basin, outlets, flow length watershed and</li> <li>▪ Water network: pipes, valves.</li> <li>▪ Weights in the network</li> </ul>	<ul style="list-style-type: none"> <li>▪ Hazard Map</li> <li>▪ I prime</li> </ul>



## Course Evaluation

The trainees have evaluated the training course. The evaluation included three main items: the institution at which the training has been implemented, the trainer and the material. The evaluation forms are attached.

On the other hand, Dr. Amjad Iliw has got the comments and points of view of the participants regarding the trainings. He listened as well to the suggestions about the possibility of conducting more advanced trainings in GIS in the future. The participants expressed their appreciation for the European Union and its institutions as well as for the local ones for their efforts to develop the skills in the area of GIS.





## Certificates

The attendance certificates have been awarded for the participants by Dr. Amjad Aliew. Three criteria have been assigned for the purpose of obtaining the certificate:

- The participants must attend 80% of the training duration.
- The participants must succeed in the take home exam.
- The participants must show maximum attention during the course.

## Photos





## Conclusion

Special attention has been paid in order to conduct the training course in a convenient climate that to achieve the goals and aims of this training. The professional development requires certain standards and specific environment to be considered successful among of which:

- The material: the material has been developed for the purpose of this training course. Revision and further
- Equipments: the training has been held at HWE lab which is provided by all the equipments needed for the training: lab tops, LCD, ...
- Trainer
- Evaluation: in private conditions, the participants evaluated the training depending on the forms that have been prepared for that regard. Three components have been evaluated: the institute, trainer and material.



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