



## **Methodology:**

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This e-learning program is scheduled to be broadcasted in four (4) instrument in Remote Sensing (RS) Course and GIS Course respectively, and each instrument consists of three (3) units of sessions approximately three (3) hours. After the series of eight (8) instruments, (1) instrument and GIS in RS is broadcasted.

Under the guidance of local coordinator attending each site, self-learning materials (recorded lectures) will run in the sessions and Q & A sessions with lecturers will be provided live from Tokyo.

The participants who attended 75% of the session (3 or more out of 4 sessions) and passed the examination (above 60%) would be awarded the certificate. RS and GIS Applications session is not a subject of conditions of certificate.

- <First Instrument > Local Session and Videoconferencing Session of RS
- <Second Instrument > Local Session and Videoconferencing Session of RS
- <Third Instrument > Local Session and Videoconferencing Session of RS
- <Fourth Instrument > Local Session, Videoconferencing Session and Final Examination of RS
- <Fifth Instrument > Local Session and Videoconferencing Session of GIS
- <Sixth Instrument > Local Session and Videoconferencing Session of GIS
- <Seventh Instrument > Local Session and Videoconferencing Session of GIS
- <Eighth Instrument > Local Session, Videoconferencing Session and Final Examination of GIS
- <Ninth Instrument> Local Session and Videoconferencing Session of RS and GIS Applications

## **Program Contents:**

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January 7, 2010 (Thursday)

- <Remote Sensing>
- Module 1: Fundamentals of remote sensing
- Module 2: Remote sensors
- Module 3: Platforms for remote sensing

January 13, 2010 (Wednesday)

- <Remote Sensing>
- Module 4: Microwave remote sensing
- Module 5: Data to be used in remote sensing
- Module 6: Image interpretation

January 20, 2010 (Wednesday)

- <Remote Sensing>
- Module 7: Image processing systems
- Module 8: Digital image processing - correction
- Module 9: Digital Image processing – conversion

January 27, 2010 (Wednesday)

- <Remote Sensing>
- Module 10: Digital Image processing – classification
- Module 11: High Resolution Satellite Imagery
- Final Examination of Remote Sensing

February 3, 2010 (Wednesday)

- <GIS>
- Module 1: Fundamentals of GIS
- Module 2: Data models and structure
- Module 3: Input of geospatial data

February 10, 2010 (Wednesday)  
<GIS>  
Module 4: Spatial database  
Module 5: Required hardware and software  
Module 6: Plan for GIS installation

February 17, 2010 (Wednesday)  
<GIS>  
Module 7: Spatial analysis  
Module 8: Coordinate transformation to be used in GIS  
Module 9: Interpolation techniques

February 24, 2010 (Wednesday)  
<GIS>  
Module 10: Digital Terrain Models (DTM)  
Module 11: Output of GIS products  
Final Examination of GIS

March 7, 2010 (Wednesday)  
<Remote Sensing & GIS Applications>  
RS Module 12: Remote Sensing Applications  
GIS Module 12: GIS Applications

### **Participating Countries:**

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This course is delivered through JICA-Net Videoconferencing centers in of Kuala Lumpur of Malaysia, Nairobi of Kenya and Ramallah of Palestine.

### **Target Participants:**

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Governmental officials and officials of government agencies  
Officials and consultants of international cooperation agencies  
University professors/students and alumni

More specifically

- (1) Be senior technical officers in charge of the sustainable development of natural resources and environment
- (2) Have the practical experience or persons who would be expected to join this field
- (3) Be university graduates or persons who have equivalent technical qualifications in this field

### **Resource Person:**

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Prof. Shunji MURAI

Professor Emeritus, The University of Tokyo / Professor, Keio University

- Born in Tokyo, Japan in 1939
- Graduated from Dept. of Civil Engineering, The Univ. of Tokyo in 1963
- Doctor of Engineering in 1970
- Professor, The Univ. of Tokyo, 1983-2000
- Professor Emeritus, The Univ. of Tokyo in 2000
- Specialized in remote sensing, GIS, digital photogrammetry, DTM etc.
- President of Japan Society of Photogrammetry and Remote Sensing
- General Secretary, Asian Association on Remote Sensing, 1981-present
- President, Japan Association of Remote Sensing