

GIS – 901 Special Topics in GIS (3+0=3)

1. **Course Objectives:**
 - a. This course focuses on providing the knowledge and experience necessary to conduct GIS based research at the post graduate level and/or to develop GIS based applied projects in natural resource management; environmental management; urban and regional planning; socioeconomic and infrastructure development; and geomatics.

2. **Course Outcomes:**
 - a. The student will be able to demonstrate GIS skills taught as special topics.

3. **Course Code:**
 - a. GIS – 901

4. **Credit Hours:**

a. Theory	=	03
b. Practical	=	00
c. Total	=	03

5. **Detailed Contents:**
 - a. Investigations to be decided with students according to their special interest in this particular field. It will also include lessons, seminars and literature review of particular research subjects.

6. **Textbooks/Reference Books:**
 - a. Stewart Fotheringham, Chris Brunsdon, Martin E Charlton Quantitative Geography: Perspectives on Spatial Data Analysis 2000 SAGE Publications ISBN: 0761959483
 - b. John Stillwell Applied GIS and Spatial Analysis 2004 John Wiley & Sons, Ltd. England ISBN: 0470844094
 - c. Jacek Malczewski GIS and Multicriteria Decision Analysis 1999 John Wiley & Sons, Inc. ISBN: 0471329444
 - d. Martien Molenaar An Introduction to the Theory of Spatial Object Modelling for GIS 1998 Taylor & Francis, Inc. ISBN: 074840774X