Spatial Urban Planning and Climate Change

Post-graduate Elective Course (online)

Master of Science in Geo-Information Science and Earth Observation

Course Offered by

Department of Geo-Information Science and Earth Observation

PATUAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY
P S T U

Developed by: BECK Project- PSTU

Course Details

Course Code	:	GEO 5211
Course Title	:	Spatial Urban Planning and Climate Change
Course Type	:	Elective (Online)
Level/Term and Section	:	Level-5, Semester-II
Academic Session	:	2015-16 and onward
Pre-requisite (If any)	:	Not applicable
Credit Value	:	02 (Two)
Contact Hours	:	32 (Thirty-Two)
Total Marks	:	100

Objective

"To produce skilled graduate for spatial urban planning in the context of climate change using GIS and RS tools and techniques"

Course Learning Outcomes (CLOs)

At the end of the course, the student will be able to:

CLO-1 *"Describe the importance of urban planning and climate change module and define the basic terminology including urban, urban planning, climate change, geographic information system, and remote sensing"*

CLO-2 *"Characterise the urban determinants of climate change and explain the effects of climate changes on cities"*

CLO-3 *"Explore possible ways to combat with climate change through implementing several spatial urban planning measures"*

CLO-4 *"Characterized the possible barriers to climate change adaptation in urban planning and explain the ways of overcoming them"*

CLO-5 *"Analyze the decision support system and assessment tools for urban planning in the context of climate change"*

CLO-6 *"Develop conceptual modelling of cities in the aspects of urban community and climate change"*

CLO-7 *"Design and make decisions in the development of spatial urban plan in relation to energy efficiency and climate change, based on participants' city contexts by using modern ICT technologies specially GIS and RS"*

CLO-8 *"Develop and manage sustainable urban planning in the context of dynamic world"*

Teaching Strategy

- *Audio-visual materials*
- *Online lecturing*
- *Group discussion*
- *Q&A session*
- *Big data mining*

Course Instructor

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Project Website *beck-erasmus.com*