: Role of Local Self Governments in managements of urban areas, concept of good governance, different

scenarios: BAU, SD.

UNIT - IV: Contemporary Urban Issues and case study of Kolkata

4.1 : Urban Environmental Issues : Pollution—Air, Water, Noise.

4.2 : Urban Social Issues : Urban Poverty, Crime and Violence.

: Issues associated with Urban Transport-Emissions and Accidents, Traffic Accident Scenario in Kolkata, Road Safety Measures.

4.4 : Traffic and Transport Planning of Kolkata Urban and Transport Planning (Practical)

Module: 17

(Marks: 50)

UNIT - 1: Analysis of Urban Dynamics

1.1 : Urban growth differentials : Absolute growth, Decadal growth rate and Index of growth.

: Urban density.

: Rank size distribution of Towns : Normal graph and Log graph.

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1.4 : Relationship between Variables and Correspondence.

UNIT - II : Accessibility and Connectivity

2.1 : Network as a Graph: Topology and Direct connectivity.

2.2 : Accessibility by Detour Index

2.3 : Accessibility by Shortest Path Matrix.

2.4 : Gravity Model

UNIT - III: Perception of the Urban Environment

3.1 : Preparation of Survey Schedule

3.2 : Preparation of Questionnaire for Perception study.

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3.3 : Valuation of Urban Ecological units

3.4 : Environmental Impact Assessment

UNIT - IV : Laboratory Note-Book and Viva-voce

Module - 18: GIS & Remote Sensing (Practical)

(Marks: 50)

UNIT - I: Geographical Information System

(Marks: 10)

1.1 : Scanning and Geo-referencing of maps.

: Generation of Vector layers and Buffers. Vector overlaying

1:3 : Attaching and Editing attribute tables. Querying the Database.