2nd Year / 4th Semester

URP 233: Landscape Planning and Design
2.0 credits; 2 hours/week theory
Introduction to landscape planning and its scope. Historical references landscape planning and design. Basic design methods and approaches. Ecological systems and climatic elements. Landscape conservation in macro and regional level. Landscape planning in urban scale for residential, recreational and commercial environments. Site development objectives and design principles. Plantation and plantation design.

URP 215: Urban Planning Techniques
3 credit; 3 hours/week theory
Functions, forms and contents of urban development plan, strategy plan, structure plan, master plan, local area plan, action plan, subject plan. Data and information need for planning, planning techniques applied in different stages of the urban planning process, techniques for urban renewal and upgrading (conservation, improvement and redevelopment), techniques for land development (land readjustment, guided land development). Planning standards for different urban functions, types of planning standards and their importance. Urban planning studies and techniques of analysis of population, employment, economic functions, shopping, housing, leisure and recreation. Implementation tools and development control.

URP 261: GIS and Remote Sensing
3.0 credits; 3 hours/week theory
Meaning of GIS and its application in planning. Essential elements of GIS. Data structures-raster data structures, vector data structures. Data acquisition-existing data sets, developing new data sets. Data management. Data manipulation and analysis. Remote sensing and image analysis - processing of remotely sensed digital data. Integration of remote sensing with GIS. Applications of GIS in planning.

URP 293: Statistics for Planners – II
3 credits; 3 hours/week theory
Decision Making: Statistical inference: hypothesis testing, inference about means, standard deviations and proportions; analysis of variance: Chi-Square test. Measurement scales. Nonparametric tests. Simple correlation and linear regression: Least-squares equation, goodness-of-fit criteria, standard errors, significance tests for coefficients. Simple curvilinear regression by variable transformation. Forecasting methods—time series analysis, causal and probabilistic methods. Population forecasting methods: arithmetic, geometric, decreasing rate of increase,

logistic, ratio and correlation, trend projection and cohort survival.

Hum 281: Political Science and Local Government
3.0 Credits; 3 hours/week theory

Some basic concepts of government and politics, functions, organs and forms of modern state and government. Government and politics of Bangladesh. Some major administrative systems of developed countries.

Local government system in Bangladesh and its evolution. Relations between national and local governments. Structure, composition and functions of local government bodies. Local level planning and resource mobilization. Problems and issues related to capacity building in local government bodies.

Hum 221: Public Finance
3 credit; 3 hours/week theory

Meaning and scope of public finance. Public expenditure: nature, principles and effects. Taxation: principles, types and effects. Public debt. The public budget: balanced and unbalanced budget. Deficit financing. Fiscal policies and their impacts. Public finance in Bangladesh: nature and structure of taxation, national budget and fiscal policies.

URP 296: Computer Applications in Planning
3.0 credits; 6 hours/week sessional Prerequisite Plan 196

Application of statistical techniques and techniques of urban and regional analysis through the use of application software such as SPSS, Excel etc. Important planning techniques to be covered include Population Projection, Economic Base Analysis, Industrial Structure Analysis, Input-Output Analysis etc. while statistical techniques include Frequency Distribution including Cross Tabulation, Graphical Presentation, Test of Independence, Analysis of Variance, Correlation and Regression Analysis etc.

URP 226: Landscape Planning Studio
3.0 credits; 6 hours/week sessional

Application of design and planning principles and techniques of landscape developments. Site analysis and study of landscape elements. Application of landscape conservation principles and strategies on regional level development process.