

MUPD 600

Planning Theory

Credit Hours: 3

This course introduces issues that pertain to history and definition of planning, determinants, goals and objectives of spatial planning, role, legitimacy and authority of planning, general and specific theories, such as Descriptive, Prescriptive and Normative theories also in the context of developing countries.

MUPD 601

Resrch & Stat Analysis in Plng

Credit Hours: 3

The course offers an overview of research methods in planning and management, probability, statistics, and decision theory and their applications in city planning, basic probability concepts, data classification and summarization, statistical sampling, hypothesis testing, goodness of fit, regression analysis, analysis of variance, contingency tables, and elementary Bayesian decision making. Computer statistical packages are utilized in different assignments delivered and practiced throughout the semester.

Prerequisite

MUPD 620

MUPD 610

Urban Planning Legislation

Credit Hours: 3

This course is an overview of planning legislations and a short history of planning process in Qatar and the Gulf Region. It covers methods, techniques and instruments for implementing plans through decrees and administrative acts, the basis for urban and regional planning and its relation to Shariah Law as well as the structure and organization of Qatari public planning administration, discussion of zoning procedures, subdivision review practices and budget preparation and execution.

MUPD 611

Urban Economics

Credit Hours: 3

This course covers issues of distribution of population and economic activities in urban areas, microeconomic principles to understand the economic nature of the urban system. The economic aspects and models of urban growth and city size, land-use pattern, housing, transportation, environmental problems, unemployment, and public policy are discussed.

MUPD 620

Urban and Regional Land Use

Credit Hours: 3

This course introduces aspects that pertain to history and definition of land use planning, the concept of policy, programming and planning, determinants and systems guiding land use development, socio-economic development and Land use, space requirements, spatial distribution and localization concepts, land use planning models, procedures for formal land use plans.

MUPD 621

Computer Aided Planning

Credit Hours: 3

Information and experience with the rapidly growing field of Computer-Aided Planning. Management Information Systems (MIS), Geographic Information Systems (GIS), Decision Support Systems (DSS), Knowledge Based Expert Systems and Automated Mapping and Graphing are introduced. Basic principles are emphasized that are common to the design and use of software in this area.

Prerequisite

MUPD 620

MUPD 650

Cltrl & Phscl Aspct of Isl Cty

Credit Hours: 3

This course involves aspects related to historical development of the traditional Muslim towns, determinants of “Islamic” urban spatial structure, the physical aspects of the urban form and the role of the socio-cultural factors and legal system in the structure of Muslim towns, urban design principles of traditional Arab and Muslim towns, discussion of the problems of contemporary Islamic cities and the relevance of the traditional design principles to build future cities in the Islamic world.

MUPD 651

Urban Renewal Planning

Credit Hours: 3

This course discusses the changes in urban land use and the socio-economic structures of urban settings. Emphasis is on historical districts revitalization and regeneration. Goals, plans and operations of adaptive re-use and regeneration of local traditional as well as modern districts are discussed and presented. Case studies from historic Middle Eastern and European cities are discussed and analyzed.

MUPD 652

Theory on Urban Form & Design

Credit Hours: 3

This course is a review of architecture and urban design history, theories and concepts of urban spatial design, elements and analysis of the concept of urban space, major theoretical and critical responses to the crises of the modern urban environment, discussion of urban design concepts through analysis of urban settings in the region.

MUPD 653

Design and Regeneration

Credit Hours: 3

This course provides a theoretical basis for the understanding of design in the built environment, and an appreciation of the evolving integration of aspects of design and regeneration in both urban and rural environments. The theoretical material includes consideration of aesthetics, urban morphology, rural settlement, design method and sustainable development, and encourages multi-disciplinary and critical perspectives on these aspects of the subject. The multi-disciplinary approach and the critical perspectives also embraces the components of integrated regeneration.

MUPD 654

Urban Transportation Systems

Credit Hours: 3

This course involves discussion and analysis of planning and management of urban transportation systems, functional description, planning, and analysis of transportation systems, characteristics of major transportation modes in Qatar and neighboring countries. Current research, technology, and policy issues are stressed.

MUPD 655

City&Regional Plan.in Arid Zon

Credit Hours: 3

This course involves discussion of problems and planning aspects specific to arid zones; different factors influencing the built environment in the arid regions including climate, water, vegetation, and soil; emphasis on basic considerations on problems of urban sites; economically related aspects of urbanized regions; specific problems of construction and site selection; the design of specific urban physical city-scape and landscape in arid zones forms; physical planning for sustainable resources.

MUPD 656

Environmental Planning & Magt

Credit Hours: 3

This course provides discussion of major aspects of environmental analysis, planning and management; problems and principles of site analysis, land use methods, and geologic hazard planning; natural resource, pollution and residuals management; economics of renewable and non-renewable resources, and the economic cost of environmental controls; environmental impact assessment and local case studies of environmental management.

MUPD 657

Techniques of Envir.Impact.Ass

Credit Hours: 3

This course introduces concepts, legal frameworks, public policies, approaches, and methodologies utilized in determining environmental impacts of proposed urban and costal projects. Processes of environmental impact assessment and implementation are emphasized. A focus on the nature and consequences of the impact from different perspectives is undertaken including economic development, social equity, and the environment.

MUPD 700

Local& Regional Sustainability

Credit Hours: 3

This course covers the relationship between local and regional regeneration within a context of integrated sustainable development. The first section examines policy issues such as compact development; smart growth; local development frameworks, polycentric development, and the new urbanism. This is undertaken in a comparative perspective, addressing particularly the experience in Europe and the US with highlights on some regional practices. The second section considers planning responses to this policy agenda in terms of building sustainable communities, and the links within a planning hierarchy between local and regional dimensions.

Prerequisite

MUPD 600 AND MUPD 610 AND MUPD 620

MUPD 701

Urban Infrastructure Planning

Credit Hours: 3

This course covers planning for and management of urban infrastructure projects. Identification of physical infrastructure systems such as water and sewage systems, urban transportation networks, .etc.; management, finance and budgeting, and operation and maintenance of infrastructure projects. Case studies of local and regional urban infrastructure systems are discussed.

Prerequisite

MUPD 600 AND MUPD 610 AND MUPD 620

MUPD 702

Housing Policies and Planning

Credit Hours: 3

This course in an overview of the housing stocks and its function as a commodity, the private housing development process versus the public one, the user and housing design, housing rehabilitation and conservation as a community development strategy, adaptive reuse and urban revitalization and manufactured housing, the overall evaluation of housing supply and demand versus housing need based on local demographic developments and general housing strategies at the local, regional, and national levels.

Prerequisite

MUPD 600 AND MUPD 610 AND MUPD 620

MUPD 710

Sustainable Urban &Land Design

Credit Hours: 3

This course provides a theoretical basis for the understanding of design in the built environment, and an appreciation of the evolving integration of aspects of design and regeneration in urban, rural, and desert environments. The theoretical material includes consideration of aesthetics, urban morphology, rural and desert settlement, design method and sustainable development, and encourages multi-disciplinary and critical perspectives on these aspects.

Prerequisite

MUPD 600 AND MUPD 610 AND MUPD 620

MUPD 711

Urban Design in Practice

Credit Hours: 3

The focus of this project-based course is the integration of theories and principles of urban design with practice applications in a real-world context. Lectures and workshops build on the theoretical foundations and background knowledge students already have. The course is designed to equip students with relevant skills in topics such as site appraisal, urban design analysis, the design of urban infill and physical aspects of the public realm. Students are expected to think creatively and rationally in working with a 'live' design challenge. The project component of the course is introduced early and runs parallel with and complementary to the lectures/workshops. It focuses on the theme of sensitive change and innovative intervention in dynamic urban environments.

Prerequisite

MUPD 600 AND MUPD 610 AND MUPD 620

MUPD 712

Evol of Built Form &Townscapes

Credit Hours: 3

The course focuses on the settlement evolution, the townscape qualities and the distinctive architectural features of the Middle Eastern towns. The first section covers the history of settlement desert environments, the second section locates the Arab and Islamic city in a wider regional context, the third section considers the development of built form and architectural style with particular reference to the middle east and north Africa, and the fourth and final section relates settlement and architectural development to their policy context, with particular focus on sustainability and conservation policies.

Prerequisite

MUPD 600 AND MUPD 610 AND MUPD 620

MUPD 750

Thesis focuses on Urban Plan.

Credit Hours: 9

Thesis students are asked to consider potential topics for either a thesis or a work-based project, preferably related to the core research themes in the department. If students decide to complete a thesis, it is to be a substantial research thesis, and meet the normal standards for this level of academic study.

MUPD 760

Thesis focuses on Urban Design

Credit Hours: 9

Thesis students are asked to consider potential topics for either a thesis or a work-based project, preferably related to the core research themes in the department. If students decide to complete a thesis, it is to be a substantial research thesis, and meet the normal standards for this level of academic study.