

OPTIONAL THEORY

Introduction to Psychology; Sensation and Perception; Motivation, Conflict, Frustration, and Emotion; Learning; Memory and Forgetting; Intelligence and Creativity; Personality; Language, thinking and problem solving; Introduction to Environmental Psychology; Environmental Perception and Cognition; Theories of Environment-Behaviour relations; Environmental Stress; Noise; Personal Space; and Territoriality; High Density and Crowding; The City; Architecture, Design and Engineering for Human Behaviour; Design in Residential and Institutional Environments; Work, Learning, and Leisure Environments; Changing Behaviour to save the Environment.

The nature and elements of Literature; The doctrine of 'Art for Art's Sake' and Literature; Literature and Aesthetics; Appreciation of poetry, Rabindranath Tagore and William Wordsworth: Selected poems; Study of Novel as prose fiction, Thomas Hardy: His view about art, Tess of the D'Urbervilles; Drama as criticism of life, Eugene O'Neill: His expressionism, Long Day's Journey into Night; Literary and Critical Theories.

Meaning and definition of Anthropology; Methods of studying Anthropology; Perspectives of Anthropology. Biological Anthropology: Theory of evolution, adaptation. Archaeological Anthropology: Invention of agriculture, origin and development of cities and civilization; Cultural Anthropology: Dominant culture and sub culture; cultural relativism and ethnic diversity; Family and kinship: forms and functions; Social inequality. Economic system and anthropology: pattern of labour, control of land, technology, Distribution of exchange; Reciprocity, redistribution, distribution of wealth. Politics and political organization: Formal and informal political organization, nature, types and functions. Theories of the origin of State.

Aesthetic Experience. Philosophy of Beauty. Aesthetics in different cultures. Ethics, aesthetics and axiology. Aesthetics in different fields of Art, such as literature, fine art, music, film, architecture etc.

BLOCK A

GED COURSES (GROUP 2)

HUM 709
Human Psychology and Environment
02.00 Credits. 2 Hrs/Wk

HUM 711
Literature Studies
2.00 Credits. 2 Hrs/Wk

HUM 713
Anthropology
2.00 Credits. 2 Hrs/Wk

ARCH 715
Aesthetics
2.00 Credits. 2 Hrs/Wk

BLOCK B

PROFESSIONAL COURSES (GROUP 1)

ARCH 801
Interior Design
2.00 Credits. 2 Hrs/Wk

PLAN 803
Traffic and Transportation
2.00 Credits. 2 Hrs/Wk

ARCH 805
Education Facilities Planning and Design
2.00 Credits. 2 Hrs/Wk

ARCH 807
Theories and Practice of Urban Design
2.00 Credits. 2 Hrs/Wk

OPTIONAL THEORY

Following 16 Optional Theory courses will be offered under Block B for the students of L -3 T - II, L - 4 T - I, L - 5 T - I, L - 5 T - II. Each student will be allowed to take 4 courses (1 course per term) from Block B

Principles of interior design. Design of various interior spaces in relation to occupancy and environmental factors. Functional separation of spaces and interior furniture. Colour schemes. Artificial lighting and mechanized ventilation. Use of non structural materials such as false ceiling. Wall panelling and floor finishes. Interior plantation.

Elements of transportation system. The land use and transport interaction. Fundamentals of land use-transportation planning. Transportation planning process at urban level. Overview on different types of urban transportation survey. Characteristics of different modes. Concepts of roadway capacity; hierarchy of roads; Parking; Types of intersection and interchanges; Concept of environmental area; Pedestrian Traffic, Cross sectional elements of road way. Planning standards for physical facilities.

Historical development of educational facilities. Elements of education and classification of educational institutions. Socioeconomical, cultural and environmental aspects influencing educational facilities design. Components of institutions: grouping and organization of spaces. Design criteria: forms, modifiers and standards. Furniture design. Case studies.

Problems and goals of modern urban design. Understanding urban space: scale, contexts, meaning, and perceptions; activities in outdoor space; urban outdoor spaces in South Asia. Theories and practice of designing urban space: urban realities and critique; empiricism and rationalism in urban design. Urban design and the development process.

OPTIONAL THEORY

Approaches to health facilities planning and design. Philosophy, policies and processes within comparative and historical perspective. Fundamentals of programming, planning and design of health care facilities.

Concepts and approaches to the study and analysis of vernacular architecture. Typologies of vernacular architecture. Relationship to the environment and response to climate. Use of building materials, utilization of natural and other resources and local construction skills. Communication and transmission of knowledge of indigenous building systems and techniques. Symbolism and cultural expression generating vernacular building form and texture. Change facing vernacular architecture in the contemporary context. Settlement in hostile environments, vulnerability to natural and other hazards. Organizational community development, housing and institutional building programs in vernacular settings. Self-help and community-based approaches. Future directions and prospects.

Conservation, its meaning, nature, scope and principles, Preservation, restoration, reconstruction, adaptation, area conservation. History of conservation. Conservation laws and practices. Issues of conservation, legislation, finance, regulating bodies, the role of government and public. Conservation of areas and buildings, Planning controls. Case studies.

Historical development and classification of industrial buildings; site development and master planning; environmental impact assessment; working conditions; criteria for overall design; machinery layout; environmental control; services; fire protection; security and safety measures; signs and symbols; legislation and codes. Case studies.

BLOCK B

**ARCH 809
Health Facilities
Planning and Design**
02.00 Credits. 2 Hrs/Wk

**ARCH 811
Vernacular Architecture**
2.00 Credits. 2 Hrs/Wk

PROFESSIONAL COURSES (GROUP 2)

**ARCH 813
Architectural Conservation**
2.00 Credits. 2 Hrs/Wk

**ARCH 815
Industrial Building Design**
2.00 Credits. 2 Hrs/Wk

BLOCK B

**ARCH 817
Construction Management**
2.00 Credits. 2 Hrs/Wk

**ARCH 819
Commercial Buildings
Planning and Design**
2.00 Credits. 2 Hrs/Wk

**PLAN 821
Theory and Practice
of Planning**
2.00 Credits. 2 Hrs/Wk

**PLAN 823
Rural Planning**
2.00 Credits. 2 Hrs/Wk

OPTIONAL THEORY

Fundamentals of Project management; Construction Management; Overview of Human Resource Management; Project Planning and Programming; Logistics and Strategy for Construction Management; Construction Stages and Operations; Organization Structure; Resource Management and Administration of Construction; Construction Contract Management Techniques; Operation Research; Cash Flow; Marketing Analysis; Value Engineering; Manpower and Material Requirements; Project Control; Project Evaluation; Analytical Tools and Techniques in Project Management; Statistical Methods and Linear Programming Concepts; Construction Schedules and Networks; (Bar Charts, Critical Path Methods – CPM etc., Programme Evaluation and Review Technique – PERT)

Introduction to commercial building as occupancy and building type. Structural system and space articulation. Service, maintenance and fire protection standards. Natural and mechanized ventilation and lighting. Safety and security. Design criteria for commercial buildings. Case studies.

Planning theories: Substantive vs. procedural theories. Modes of planning: Blueprint vs. process planning, Rational comprehensive vs. disjointed incremental, normative vs. functional. Planning approaches: Traditional approach, Strategic approach, System approach advocacy planning, Participatory approach. Development control, planning standards, zoning, building by-laws, set-back rules, FAR. Spatial structure of cities: Concentric zone theory, sector theory, multiple nuclei theory. Planning practices in Bangladesh: Dhaka master plan 1959, DMDP (1995-2015), Detail area plan.

Meaning and scope of rural development and planning. Nature, scope and models of integrated rural development. Social, economic and physical characteristics of rural settlements. Rural housing and infrastructure, sustainable and energy efficient rural planning. Problems and issues in rural development: population, urbanization and migration, human resource development. Institutions for rural development, Policies and strategies of rural development.