

SPECIAL TOPICS

Data and decision-making process. Concepts used in quantitative analysis-data, information, data collection and analysis, variables and values. Summarizing tables and charts; Statistics. Sample and sampling techniques; & statistical inferences. Relations and association. Use of computer data analysis, SPSS.

Review of the fundamentals of Health Care Planning, Focus on the historical process of change in relations between resources, priorities, policy, and socio-cultural factors. Environmental and health issues of both developed and developing countries in its diversity and magnitude, with special emphasis to Bangladesh. Analysis of some of the principal issues arising in the contemporary theories and philosophy regarding health service planning in the developing world. Study and analysis of the health care planning process and the evaluation of the health care delivery system of Bangladesh.

Analysis of the development mechanism in which health care facilities perform. Study of the whole range of health care facilities as 'Complex System'. History and analysis of the forces influencing the form and function, and role of the health care facilities e.g. the relationship between changes in health policy and social priorities and its impact on the form, function and institutional structure of the health care facilities. Review of the contemporary philosophy, approaches, and systems followed in programming planning, and designing of health care facilities especially in the developing countries. Orientation of the participants to the local situation through case studies and projects.

Introduction to safety and security, difference between safety and security in buildings, implication on design, legislation and: need for good safety and security in buildings, implication on design, legislation and need for good safety and security practices. Current practices with reference to the following:

Safety from accidents: Definition, monitoring accidents; Socio-economic effects of accidents; Aims and objectives of the basic principles of safety responsibility; Duties and responsibilities of owners, employers and users; Types of accidents; General, process accidents and disasters; Prevention of accidents, etc.

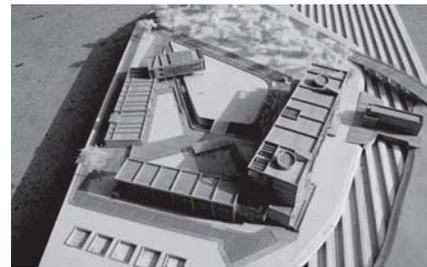
**ARCH 6901
Analytic Methods**
3.00 Credits. 5 Hrs/Wk

**ARCH 6902
Health Care Planning**
3.00 Credits. 5 Hrs/Wk

**ARCH 6903
Health Facilities:
Planning and Design**
3.00 Credits. 5 Hrs/Wk

**ARCH 6904
Safety and Security
in Buildings**
3.00 Credits. 5 Hrs/Wk

**ARCH 6905
Education Facilities:
Planning and Design**
3.00 Credits. 5 Hrs/Wk



Security in Buildings: Need for security in buildings; Risks of security breach; Aims of physical security control; Targets; Lines of defense against intruders, thieves and vandals; Relationship between security and fire prevention; Protection of a building, its occupants and its effects; Layout of buildings for achieving security; Control measures and barriers; Access control systems; Principles and laws of internal policing etc.

Fire prevention and control: Socio-economic and physiological implications of fire; History of fire; Evolution of fire prevention regulations; Risks of fire by building groups; Classification of fires; Objectives of fire precautions; Action in case of fire; Internal and external hazards; Planning for fire prevention and control; Pattern of fire development; Structural measures against fire; Causes of fire; Design of escape route; Effects of smoke, principles of compartmentalization; Fire detection, alarms and extinguishing systems, etc.

Safety signs and symbols: Need for signs and symbols; Psychology of signs and symbols; Characteristics; Use of colors, shapes and size; Meaning of signs and symbols; Examples of uses, etc. Security and emergency lighting; Objective, basic techniques, need for such lighting; Transmission from normal to emergency lighting; Luminaries for security and emergency lighting; Planning for such lighting.

Concept of education ideas and theories and their development. Organization of education; components of educational system. Other social, cultural and educational agencies in the community. Analysis of the magnitude and diversities of problems of education in the Asian developing countries in general and in Bangladesh in particular. Participation in education. Unemployment and technical education, community education. Education resources-user of resources. Administration of educational institutions. Financing the education. Education programming and curriculum; Meaning and purpose of different educational spaces and activities. Design considerations, dimensional coordinates. Local technology and construction system. Design criteria regarding planning, form, materials, structures, site, spaces and circulation. Determinants of form and modifiers-environmental factors. Flexibility and school design. Standards. Influence of socio technical changes in school design.