Faculty of Physical Planning and Architecture

SYLLABUS

FOR

INTERDISCIPLINARY COURSE IN PHYSICAL PLANNING (UG)

Examinations: 2019-20

GURU NANAK DEV UNIVERSITY
AMRITSAR

Note: (i) Copy rights are reserved.
Nobody is allowed to print it in any form.
defaulters will be prosecuted.
(ii) Subject to change in the syllabi at any time.
Please visit the University website time to time.
SCHEMES:

INTERDISCIPLINARY COURSE FOR ODD SEMESTER (UG)

SPL 001 - ELEMENTS OF HUMAN SETTLEMENTS

INTERDISCIPLINARY COURSE FOR EVEN SEMESTER (UG)

SPL 002 - FUNDAMENTALS OF MAP PREPARATION

ODD SEMESTER (Under Graduate)
SPL 001 - ELEMENTS OF HUMAN SETTLEMENTS
Credits: 04 (L=3, T=1, U=0)

Time: 3Hrs.

Total Marks: 100
Mid Semester Examination: 20% weightage (Marks: 20)
End Semester Examination: 80% weightage (Marks: 80)

Instructions for the Paper Setters:
Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A

Section B
Urbanization Process: Characteristics, function, growth, size, migration, Social-Economic profile of a city, Major components of settlement, Stages of development and Evolution of City: Ancient town planning, Medieval City planning.

Section C
Modern urban planning concepts: Sir Ebenezer Howard, Frank Lloyd Wright’s broad acre city, Patrick Geddes, Le Corbusier, C.A. Doxiadis, Lewis Mumford. Theories of Urbanization – Concentric Zone theory, Sector theory and Multi nuclei theory.

Section D
Content and components of different plans – Site Plan, Development Plan, Master Plan, Regional Plan. Community participation through site planning. Importance of planning of human settlement.

Suggested Readings:
EVEN SEMESTER (Under Graduate)

SPL 002- FUNDAMENTALS OF MAP PREPARATION

Credits: 04 (L=3, T=1, U=0)

Time: 3Hrs.

Total Marks: 100
Mid Semester Examination: 20% weightage (Marks:20)
End Semester Examination: 80 % weightage (Marks: 80)

Instructions for the Paper Setters:
Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A-D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

Section A

Section B
Data Classification: Point, Line, Area. Representation of geographical data: Choropleth, proportional symbol, dot, pictographically, graphs, bars. Isolines, Types of Land Use in Urban and Rural Areas.

Section C
Concept of digital maps, Purposes of Digital Mapping, advantages and disadvantages of digital maps. Digital maps in GIS: basic concepts, definitions and terminology, Raster and Vector digital maps; supporting data management- spatial and attributes, linking of tables; data analysis and modeling-attribute analysis and spatial analysis- Buffering, Geo-processing, Map overlays etc. Demonstration of GIS applications in cities.

Section D
Role of remote sensing and satellite imagery in digital mapping. Setting up of a drawing in CAD– Coordinate system, Limits, Units, Precision, Point, Lines, Polygons; Concept of Layers. Demonstrative exercise may be shown.

Suggested Readings: