FACULTY OF PHYSICAL PLANNING & ARCHITECTURE

SYLLABUS

FOR

Pre Ph.D. Course in
PHYSICAL PLANNING
(Credit Based Evaluation and Grading System)
(Semester: I-II)

Examinations: 2019-20

GURU NANAK DEV UNIVERSITY
AMRITSAR

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(ii) Subject to change in the syllabi at any time. Please visit the University website time to time.
## Semester I

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Code</th>
<th>Title of the Course</th>
<th>Credits</th>
<th>Total Credits</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>SPL 901</td>
<td>Research Methodology</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>SPL 902</td>
<td>Urbanization &amp; Human Settlements</td>
<td>2</td>
<td>3</td>
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### Interdisciplinary Course (3 Credits)

<table>
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<th>Title of the Course</th>
<th>Credits</th>
<th>Total Credits</th>
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<tr>
<td></td>
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<td>Student may opt interdisciplinary course from any department having minimum 3 credits</td>
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<td>3</td>
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Total Credits: 10

C: Core  
I: Interdisciplinary

## Semester–II

<table>
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<th>Title of the Course</th>
<th>Credits</th>
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<td></td>
<td>SPS 911</td>
<td>Seminar</td>
<td>0</td>
<td>1</td>
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</tbody>
</table>
SPL 901: RESEARCH METHODOLOGY

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
Foundation of research - meaning, objectives, significance; Classification of research - pure and applied, quantitative and qualitative research, exploratory/formulative research, descriptive research, diagnostic research/study, evaluation research/studies, action research, experimental research, historical research; Research Methods Vs Methodology; Review of literature – need, purpose, literature search procedure, sources of literature, planning of review work, note taking.

Section B
Research problem – defining, selection, necessity, techniques; Research proposal – elements of research proposal; Planning of research – process, selection and formulation of a problem, hypothesis formation; Research design – meaning, need, features, importance, principles; Paradigms, methods and ethics of qualitative field research. Sampling – basics, characteristics, steps and implications of sampling design, criteria of selecting a sampling procedure; Sampling techniques, choice of sampling techniques, sampling frame and sample selection, sample size, sampling and non-sampling errors.

Section C
Methods of data collection – meaning, importance, sources (primary v/s secondary), methods (cross-section, time series, panel data), schedule v/s questionnaires, guidelines for a good questionnaires, pilot studies and pre-tests, observation and interview method; Processing of data – editing, classification and coding, transcription, tabulation; Presentation of spatial and non-spatial data - diagrams, graphs, cartograms, choropleth, choroschematic, chorochromatic.

Section D
Analysis of data - measures of central tendency (mean, median, mode), measures of dispersion (range, quartile deviation, mean deviation, standard deviation, coefficient of variation, lorenz curve), regression and correlation analysis, test of hypothesis – meaning, types, errors of hypothesis, methods – z test, t test, F test, chi square test, time series analysis, factor analysis, geographic information system; Report writing – types of reports, format of report, principles of
report writing, steps in report writing, layout of research report, precautions for writing research
report, chapterization, referencing, bibliography/references and index.

Suggested Readings:

2. 2014. Paneersalvem, Research Methodology, PHI, India
SPL 902: URBANIZATION AND HUMAN SETTLEMENTS

Credits: 03 (L=2, 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
Urbanization: Concept, Objectives, and its broad issues. Global and Indian scenario; Urban Growth: Concept, Objectives; Role of balanced and un-balanced growth in Indian Cities: Impact of Urban Growth on city (Physical, Economic and Social).

Section B
Urbanization process: character, function, migration, role of social, economic and demographic aspects on urbanization, theories of urban growth and development, major urban problems and their solution. Planning process: need and importance, function and type of planning (spatial and sectoral).

Section C
Classification of Indian cities: emphasis on their spatial and social structure. National Urban Policy; National urban housing & Habitat policy; Punjab Housing & Urban Development Policy 2010; National Commission on Urbanization.

Section D
Urban Development Initiatives in India: JNNURM (Jawaharlal Nehru National Urban Renewal Mission), UIDSSMT (Urban Infrastructure Development Scheme for Small and Medium Towns), SMART Cities, HRIDAY (Heritage City Development and Augmentation Yojna) and AMRUT (Atal Mission for Rejuvenation and Urban Transformation)

Suggested Readings:
2. 2007. R. S. Sandhu and Jasmeet Sandhu, Globalising Cities: Inequality and Segregation in Developing Countries: Rawat. Jaipur
Pre Ph.D. Course in Physical Planning (Semester-I)
(Credit Based Evaluation and Grading System)