

Fourth Year: Seventh Semester									
Subject Code	Subject	Teaching Hours			Maximum Marks			Credits	ESE Duration in Hrs
		L	S/T	Total	ESE		Total		
BPLN0701	Planning Studio - VII (regional Planning)	2	9	11	-	VV	100	4	-
BPLN0702	Introduction to Regional Planning	3	0	3	WR	-	100	1.5	3
BPLN0703	Urban Governance	3	0	3	WR	-	100	1	3
BPLN0704	Urban Finance	3	0	3	WR	-	100	1	3
BPLN0705	Disaster Risk Mitigation and Management	2	1	3	WR	-	100	1	3
BPLN0706	Electives: a) Infrastructure Development Planning b) Rural Development and Management c) PPP in Urban Development	3	0	3	WR	-	100	1.5	3
BPLN0707	Metropolitan Planning and Development	3	0	3	WR	-	100	1.5	3
BPLN0708	Training Seminar - II	0	0	0	-	VV	100	1	-
	Total	18	10	28				12.5	

Fourth Year: Eighth Semester									
Subject Code	Subject	Teaching Hours			Maximum Marks			Credits	ESE Duration in Hrs
		L	S/T	Total	ES		Total		
BPLN0801	Planning Thesis	0	12	12	-	VV	100	6.5	-
BPLN0802	Urban Management - II	3	0	3	WR	-	100	1	3
BPLN0803	Planning Practice - II	3	0	3	WR	-	100	1	3
BPLN0804	Human values in Planning	3	0	3	WR	-	100	1	3
BPLN0805	Electives: a) Water Resource Management b) Infrastructure Finance c) Environmental Impact Assessment	2	1	3	WR	-	100	1.5	3
BPLN0806	Electives: a) Planning for Small and Medium Towns b) Planning for Mega Cities c) Planning for Special Areas	2	1	3	WR	-	100	1.5	3
	Total	13	14	27				12.5	

ESE- END SEMESTER EXAMINATION

VV- VIVA- VOCE

WR-WRITTEN EXAM

L - LECTURES

S/T -STUDIO/TUTORIAL

### **Unit 3: GIS Modelling**

Overlay functions in GIS; using attribute over spatial data in Modelling; case study based land suitability analysis; Modelling service area for social infrastructures; impact analysis

### **Unit 4: Specific Packages**

Introduction and laboratory exercises on selected GIS Packages (e.g., ArcInfo, ArcView, Geo-Concept, Geo-Media, ILWIS, MapInfo, etc.); Comparative advantages and disadvantages; Planning applications

### **Unit 5: Advanced Concepts in GISs**

Introduction to Dynamic GISs; Integration of GIS and Digital Image Processing; Integration of GIS and GPS

## **FOURTH YEAR: SEVENTH SEMESTER**

### **BPLN-0701 Planning Studio - VII (Regional Planning)**

#### **Unit 1: Context of Regional Plans**

Role and relevance of regional planning at district or block level for regional planning, critical appraisal of district or block level plans; Understanding the contents of various types of regional plans and their linkages with higher and lower order plans

#### **Unit 2: Constitutional Provisions**

District planning in the context of constitution 73rd and 74th amendment acts; district planning committees; metropolitan planning committees

#### **Unit 3: Organization of Field Surveys**

Formulation of goals, objectives, methodologies; identification of data and sources of information; Collection of secondary and primary data for sectoral and spatial planning; detailed data analysis,

#### **Unit 4: Analysis and Synthesis**

Identification of development issues, potential thrust areas and constraints: sectoral and spatial; designing of alternative planning strategies, settlement patterns and development strategies; Sectoral and spatial prioritization, phasing, financial plans, institutional mechanisms, legislative framework, management plans

#### **Unit 5: Plan, Policies and Proposals**

Preparation of regional plan document along with drawings, etc; Preparation of policies and proposals with different scenarios and identification of priority areas; phasing and monitoring; governance structures for implementation; regional land utilization plan and the plan document

## **BPLN-0702: Introduction to Regional Planning**

### **Unit 1: Introduction to Region**

Concept of regional planning: nature, objectives, levels and aims; Concept of a region, types, and regionalization.

### **Unit 2: Interactions within a Region**

Regional interaction: Rank Size Rule, Settlement patterns, Central place theory; Loschian theory; Regional networks.

### **Unit 3: Regional Developments**

Regional development; Balanced and unbalanced development; Under-development; Regional multiplier, input-output model; Linear programming applications; Cumulative causation theory; Core-periphery model; Growth poles and centres

### **Unit 4: Planning Processes**

Regional planning processes: Identification of plan objectives; collection, classification and analysis of data; Norms and standards for regional planning; Formulation of alternative plan proposals with respect to population distribution, location of new regional economic activities, infrastructure, plan implementation, etc.

### **Unit 5: Case Studies**

Selected case studies in regional development: Rajasthan Canal Area, South-East Resource Region, Western Ghats Region, etc.; District Planning; Metropolitan regions:

National Capital Region, Mumbai Metropolitan Region, etc.

## **BPLN-0703 Urban governance**

### **Unit 1: Introduction to Urban Governance**

Meaning of governance and government; Scope of governance, evolution of concept of governance; Theories of local government; History of urban local bodies in India, Evolution of modern urban local governments during British rule; Decentralization of local government; Recommendations of various committees; Politics and progress of decentralization.

### **Unit2: Governance and the Government**

Government, governing and governance; Determinants and indicators of good governance; Citizens charter and other instruments; Decision making processes; Need for openness and transparency; People's participation, collaborative management; Local governance.

### **Unit3: Governance for Urban Management**

Evolution of development and management systems; Scope of development management at the National, state and local levels; Hierarchy of urban settlements; Institutions and organizations; Stakeholders, their perceptions and role in urban management

## **Unit 4: Governance and Urbanization**

Processes of urbanization, developmental conflicts, resource constraints, systems deficiencies; Urban poverty and exclusion from development process; Sustainable development; Impact of globalization and economic reforms; Social diversities; Defects in planning approaches, multiplicity of organizations and authorities.

## **Unit 5: Governance in Post 74<sup>th</sup> Amendment Scenario**

74th Constitutional amendments - XII schedule, decentralization of powers and functions; Local and participatory planning, bottom up, decentralized and integrated planning processes; Planning, governance and spatial strategy; Best practices of planning and quality of governance.

## **BPLN-0704 Urban Finance**

### **Unit: 1 Multiple Finance**

Nature and composition of income and expenditure, limitations and need for revenue enhancements; Expenditure control methods and mechanisms; Budgetary allocation from Central and State Governments for urban development; Assistance from foreign donors and Multi National agencies; Non-traditional sources of funding; Market access; Pool finance and prerequisite conditions for accessing non-traditional funds.

### **Unit: 2 Additional Funding sources**

Types of partnership approaches; Privatization of civic services; public private partnership mechanisms; Types of contracts and ownerships; Emerging cost effect technology interventions; User charged projects; Pricing of services.

### **Unit: 3 Resources Based on Achievement of Urban Reforms**

Role of state government and urban local bodies; City's challenge fund; Urban reforms; Implications on resources, incentive fund and state level pooled finance development fund.

### **Unit: 4 Institutional Capacity Enhancement**

Better finance management, management process; Accounting and budgeting, asset management, receivables management, cost centre approach; Computerization as tool for resource enhancement; Role of Management Information Systems.

### **Unit: 5 Plan forms and Indices**

Financial operating plan, city corporate plan; Development of urban indicators; Infrastructure pricing and financing - financing mechanisms in addition to tax and grants; private public partnerships like BOT, BOOT, BOLT etc.; Impact fee, subsidies.

## **BPLN-0705: Disaster Mitigation and Management**

### **Unit 1: Basic Concepts of Disaster Management**

Disaster - definitions, concept and perceptions; different types of disasters; recent initiatives at national and state level; Kyoto Framework of disaster mitigation and management; Disaster management policy - national and states; Disaster Management Act - national and states

### **Unit 2: Disaster Management Mechanisms**

Disaster management mechanisms - national, state and district levels; select global practices; disaster and development; physical planning and disaster management plans; various role players in disaster management - NGOs / CBOs and Armed Forces; Community Based Disaster Preparedness (CBDP)

### **Unit 3: Disaster Risk Mitigation**

Natural Disasters - physical phenomenon, causes and consequences mitigation and management practices - cyclones, floods, earthquakes, landslides etc.; causes and risk mitigation strategies at the master plan I for industrial, chemical and biological disasters; land use planning, building bye laws and disaster safe construction practices for different types of disasters

### **Unit 4: Disaster Preparedness**

Forecasting and early warning systems for various types of disasters; communication and information technology in disaster management; disaster education and awareness; documentation and case studies on natural disasters. Urbanization, land requirements, social and affordability issues of land use, Climate change and its implications in disaster mitigation

### **Unit 5: Post Disaster Management and Cross Cutting Issues**

Post disaster management; rehabilitation and reconstruction of disaster affected areas; urban disaster mitigation; natural resource management for disaster safe habitation; relationship between disaster and environment; safe hill area development guidelines and coastal zone regulations for safe habitation; human settlement planning for consequence mitigation of global warming and climate change through.

## **BPLN-0706A: Infrastructure Development Planning (Elective-I)**

### **Unit 1: Urban Infrastructure (Water)**

Concept of basic needs; formulation of objectives, norms and standards; Planning for water supply; Source of supply, source analysis, quality and quantity; Issues related to transmission of water, treatment methods, sequence, benefits; Distribution systems suitable in large city, small town; basic requirements, design guidelines; Technological options for water supply; Aspects of water distribution in far flung areas; Standards and locations for pumping stations; Water supply projects financing and management; Legal rights, water pricing, water pollution.

### **Unit 2: Urban Infrastructure (Sewage and Sanitation)**

Biological/ Environmental/ Cultural concepts in environmental sanitation; Low cost sanitation options: biogas, Sulabh Sauchalaya, etc.; Basic information, alternative disposal systems and conditions of use; Principles of sewage system layout; Collection, transportation and treatment of sewage; Principles of

water bound disposal system, storm water drainage systems; Different methods of sewage treatments; Issues related to development parameters. Solid waste: basic principles, generation, characteristics, collection, collection, disposal, management of city waste; Environmental issues of garbage disposal; Alternative technological innovations, conversion of garbage into usable forms.

### **Unit 3: Urban Infrastructure (Fire Protection and Electricity)**

Planning for fire protection services and space standards; Locational criteria, implications on land use and density. Planning for electrification, general scenario, services and space standards of transformers; Locational criteria, load forecasting. Institutional arrangements for municipal services, sector issues and assessments, financing systems, administrative set-up, people's participation

### **Unit 4: Regional Infrastructure Planning**

Regional poverty and basic needs; Basic needs approach to the provision of infrastructure and networks; Regional infrastructure and network systems: Physical (roads, irrigation system, water supply, sanitation, drainage, watershed management, fire services, telecommunication, energy, electricity, solid waste disposal, etc.); Social (health and education) and economics (banking, marketing and public distribution systems); Diagnosis of issues, methodology, role of regional planner.

### **Unit 5: Issues in Regional Infrastructure Planning**

Planning and programming approaches for regional infrastructure and network systems; Environmental, social and economic impacts of infrastructure and network systems; Integrated planning organization and management of regional infrastructure and network systems; Economic costing of regional networks and services; Pricing and cost recovery for district networks and services.

## **BPLN-0706B: Rural Development and Management (Elective-I)**

### **Unit 1: Introduction to Rural Development**

Meaning, nature and scope of development; Nature of rural society in India; Hierarchy of settlements; Social, economic and ecological constraints for rural development

### **Unit2: Roots of Rural Development in India**

Rural reconstruction and Sarvodaya programme before independence; Impact of voluntary effort and Sarvodaya Movement on rural development; Constitutional direction, directive principles; Panchayati Raj - beginning of planning and community development; National extension services.

### **Unit 3: Post Independence rural Development**

Balwant Rai Mehta Committee - three tier system of rural local Government; Need and scope for people's participation and Panchayati Raj; Ashok Mehta Committee - linkage between Panchayati Raj, participation and rural development.

### **Unit 4: Rural Development Initiatives in Five Year Plans**

Five Year Plans and Rural Development; Planning process at National, State, Regional and District levels; Planning, development, implementing and monitoring organizations and agencies; Urban and rural interface - integrated approach and local plans; Development initiatives and their convergence; Special

component plan and sub-plan for the weaker section; Micro-eco zones; Data base for local planning; Need for decentralized planning; Sustainable rural development.

### **Unit 5: Post 73<sup>rd</sup> Amendment Scenario**

73<sup>rd</sup> Constitution (Amendment) Act - XI schedule, devolution of powers, functions and finance; Panchayati Raj institutions - organizational linkages; Recent changes in rural local planning; Gram Sabha - revitalized Panchayati Raj; Institutionalization; resource mapping, resource mobilization including social mobilization; Information Technology and rural planning; Need for further amendments.

## **BPLN-0706C: Public Private Partnerships in Urban Development (Elective-I)**

### **Unit 1: Urban Sector**

The urban sector; existing attributes and changing scenario; Problems associated with urban sector development.

### **Unit: 2 Role and Trends**

Challenges of developing PPP projects in urban sector; recent trends of increasing private participation; possible partners and their possible roles.

### **Unit 3: Forms of Partnerships**

Possible forms of partnerships such as contracting out, BOT, joint venture, concessions and community led informal partnership approaches; Strengths and weaknesses of PPPs and their funding structures

### **Unit 4: Partnerships, Alliances and Urban Development**

Preconditions for partnerships; Advantages of collaborating; Making groups and partnerships effective; Methods of promoting participation; Using partnerships for improving urban development in small and medium size cities; Meeting the needs of the urban poor through public-private partnerships.

### **Unit: 5 Mechanisms of PPPs**

Processes, procedures and mechanisms in partnerships: regulations and administrative procedures, competitive bidding, due diligence technique, regulatory authority. Transaction cost; Use of municipal bonds for raising public investment; Capacity building of municipalities for undertaking partnership efforts.

## **BPLN-0707: Metropolitan Planning and Development**

### **Unit 1: Metropolis and Metropolitanisation**

Introduction to metropolis and related concepts, growth and scale; Complexities: social, economic, physical and administrative; Metropolitanisation in India: general trends and distribution; Issues and problems in metropolitan planning and development

## **Unit 2: Metropolises and its Region**

Area of influence, service area of a metropolis; Metropolis as a primate city; Concept of degree of primacy; Metropolitan region and delineation techniques; Metropolitan regional structures: characteristics, components and spatial patterns

## **Unit 3: Forms**

Metropolitan centralization and decentralization processes; Concepts of ring and satellite towns, counter-magnets; Forms and concepts for metropolitan planning and development: Sheet, Galaxy, Core, Star, Ring and Multi-nucleated; Merits and demerits; Efficient functioning of metropolis

## **Unit 4: Metropolitan Planning Strategy**

Metropolitan planning: spatial planning studies and surveys; Concepts and techniques of preparation of metropolitan city plans; Metropolitan planning and development strategies at regional and settlement levels; Tools and constraints in the implementation of metropolitan development plan in terms of administration, legal and financial aspects; Role and function of public participation.

## **Unit 5: Case Studies in Metropolitan Planning and Development**

Metropolitan planning and development in India; Appraisal of planning and development efforts in case of some of the metropolises, viz. Kolkata, Mumbai, Delhi and Chennai, etc

## **BPLN-0708: Training-Seminar - II**

Each student will be required to undertake training in a planning (or related) office

During summer vacation between the Sixth and Seventh semester: The period of training will be six weeks. The exact period and place of training will be decided in consultation with the Coordinator-in-charge of training.

The objective of training is to expose the students to live planning projects and working environment at planning offices.

The students are expected to submit a 'Satisfactory' certificate from the relevant Planning Office after completion of training. The student will also submit a report, highlighting the Profile of the Planning Office, its organization, key work areas, etc., Introduction to the project(s) worked upon during training, planning brief, methods employed, and planning - design solutions/ proposals.

The students will also be required to present their work through drawings/ visuals, power point presentations in the form of a Seminar to the faculty and students of the Department over the seventh semester, as per directions of the Coordinator-in-charge of training.



## **FOURTH YEAR: EIGHTH SEMESTER**

### **BPLN-0801: Planning Thesis**

Each student of Bachelor of Planning is required to prepare a thesis on the subject of her choice, concerning urban, regional or rural planning. The topic shall be approved by the concerned department. Thesis will provide an opportunity to the student to conduct independent research by using the skills of analysis and synthesis learnt through various theory and practical courses. Thesis will be completed under the guidance of an approved research supervisor allotted by the department. Thesis will be prepared by the student as per Thesis Manual prepared by the department. The students will be required to present thesis orally, graphically and through written report. The student will also be required to present her thesis before the external examiners appointed by the concerned university.

#### **Unit 1: Need for the Study and Formulation of Goals and Objectives**

Clear goals and objectives along with scope of each objective should be outlined before establishing the need for conducting a research study; Substantive limitations of the research work should also be stated

#### **Unit 2: Literature Search**

Previous published work on the subject area has to be critically examined for finding out existing thought processes of other authors and trends

#### **Unit 3: Field Surveys**

Depending on the research topic, field surveys have to be designed and field work has to be done after conducting appropriate sample surveys

#### **Unit 4: Synthesis of Data and Information and Findings**

Field data and information and literature search findings should be synthesized to make final arguments and identification of planning issues

#### **Unit 5: Proposals and Recommendations**

Final specific planning proposals and recommendations should be made at various geographical levels. Proposals should directly emanate from analysis and should not be generalized. Thesis should contain a list of references as per international standards

### **BPLN-0802: Urban Management - II**

#### **Unit 1: Decision Making**

Decision-making; definition, features, factors, essentials and hindrances in sound decision-making; structure of decisions and types of decisions; theories of decision-making: rational theory, incremental theory, systems theory, game theory, conflict theory, Herbert Simon's contribution in decision making; decision makers and decision making bodies related to urban and regional planning at national, state and local level.

## **Unit 2: Leadership**

Planner's functions as a leader, urban development manager, public bureaucrat, policy analyst and social reformer; approaches to study leadership; trait-approach, behavioural approach and situational approach; role of the planner in the decision-making process; generalists vs. specialist competitions and copyrights.

## **Unit 3: Valuation**

Fundamentals of valuation, ownership of land, compound interest theory, calculating of present value, concepts of economic rents and social rents, property taxes, sinking fund, annuity, depreciation, valuation tables; Legislative framework-rent control, land acquisition, easements and their effects on properties.

## **Unit 4: Methods of Real Property Valuation**

Income capitalization methods, land and building method and other methods of valuation; Purpose of valuation; Valuation for wealth tax, income tax, capital gains tax, property tax, gift tax, etc.

## **Unit 5: Contract Documents and Project Formulation**

Tenders, contracts, arbitration, schedule of rates for construction; Materials, labour and equipment for land development, unit and mode of measurements, rate analysis; Formulations of project proposals and outline; Preparation of and response to Notice Inviting Tenders, Expression of Interest, Terms of Reference, Penalty clauses, etc.

## **BPLN-0803: Planning Practice - II**

### **Unit 1: Role of Planner**

Planner's input as professional at various levels and organizations, his role in decision making processes, relevant issues: generalists vs. specialists, professionals vs. technocrats, planner as decision maker vs. advisor to decision maker, relationship with client, developers, institutions and contractors; relationship with other experts such as engineers, architects, sociologists, economist, lawyers, etc. for specialized studies related to planning.

### **Unit 2: Organization, Scope and Scale of Charges**

Aims and objectives of professional institutes, sister bodies; professional roles and responsibilities of planning consultants; professional ethics; responsibilities towards clients, fellow professionals and general public; Scope of services for different projects like master plan for urban area, zonal district plan, sector/neighbourhood; layout, group housing schemes, commercial centres, industrial estates, etc.; Consultancy agreements and safeguards; Fees and scales of professional charges,

### **Unit 3: Communication**

Importance of communications; elements, types, features and essentials of effective communications; hindrances to effective communication; theories of motivation; carrot and stick approach, need based theory, motivational system; integration versus disintegration; coordination and cooperation; centralization and decentralization; single versus plural supervision; elements and types of organization; theories of organization; scientific management theory; bureaucratic theory, classis theory, human relations theory; behavioral approach and systems approach

#### **Unit4: Political Systems, Social Systems and Planning**

Democracy and planning, socialism and planning, fascism and planning; Tribal society, peasant society, industrial society; Spatial segregation in India

#### **Unit 5: Conflicts and Resolutions**

Nature and mode of resolution of conflicts; public participation in planning as an aid to better understanding planning and implementation; political nature of planning and implementation problems in India; Case studies; examples from the other parts of the world highlighting situations where such problems have been minimized.

Note: It is preferable that this course is delivered by practitioners having considerable experience in planning practice.

#### **BPLN-0804: Human Values in Planning**

The objective of the course is an exploration of human values, which go into making a 'good' human being, a 'good' professional, a 'good' society and a 'good life'. The context is the work life and the personal life of modern Indian professionals.

##### **Unit 1: Nature of Values**

The value-crisis in the contemporary Indian Society; The nature of values: the value spectrum for a good life; The Indian system of values.

##### **Unit 2: Values and Science and Technology**

Material development and its values; the challenge of science and technology; Values in planning profession, research and education

##### **Unit 3: Types of Values**

Psychological values: integrated personality; mental health; Societal values: the modern search for a good society; justice, democracy, rule of law, values in the Indian constitution; Aesthetic values: perception and enjoyment of beauty; Moral and ethical values; nature of moral judgment; Spiritual values; different concepts; secular spirituality; Relative and absolute values; Human values: humanism and human values; human rights; human values as freedom, creativity, love and wisdom.

##### **Unit 4: Ethics**

Canons of ethics; ethics of virtue; ethics of duty; ethics of responsibility; Work ethics; Professional ethics; Ethics in planning profession, research and education.

##### **Unit 5: Values and Managements**

Management by values: professional excellence; inter-personal relationships at work place; leadership and team building; conflict resolution and stress management, management of power.

## **BPLN-0805A: Water Resource Management**

**Unit 1:** Sources of fresh water; need of water; Uses of fresh water; Health and Environmental concerns related to availability and quality of water resources.

**Unit 2:** Water crisis and water stress due to Population growth, urbanization and Climate change. Depletion of aquifers, Pollution , etc. integrated water resources perspective for social, economic, environmental, and technical dimensions in the management and development of surface waters

**Unit 3:** The laws, regulations and institutions required for managing water resources. Legislation for preventing water pollution.

**Unit 4:** development and management of infrastructure for annual and multi-year flow regulation, for floods and droughts, for multi-purpose storage, and for water quality and source protection. Dams and environmental effects.

**Unit 5:** Water strategies in different regions and countries. Water sharing across state and country boundaries. Water security.

## **BPLN-0805B: Infrastructure Finance (Elective II)**

### **Unit 1: Overview of Sectors.**

Innovations in financing urban and regional infrastructure across sectors. Sector specific characteristics of roads, bridges, ports, dry docks, telecommunication networks.

### **Unit 2: Development Partners**

Role of State as facilitator and land owner. Leasing of land, Role of private developers, operators and funders, dynamic interaction between players.

### **Unit 3: Funding Mechanism**

Raising of Capital investments- infrastructure bonds, equity funding, debt funds, joint ventures, Public Private Participation (BOT, BOOT, etc)

### **Unit 4: Cost and Revenue Streams**

Project evaluation, economic benefits, social benefits, cost benefit analysis. Concepts of payback period, lease tenures, project IRR and break even.

## **BPLN-0805C: Environmental Impact Assessment (Elective II)**

### **Unit 1: Introduction**

Role of Environmental Impact Assessment in the planning and decision making process; Definition and need, evolution and objectives, tasks and scope.

## **Unit 2: Methods**

Methods of Environmental Impact Assessment; Advantages and limitations; Case studies from India and abroad on projects of various types covering different levels of planning

## **Unit 3: Impacts on Land Uses and Resources**

Assessment of impacts on land use, Urban and regional; Assessment of impacts on resources (including air, water, flora and fauna); Case studies from India and abroad on projects of various types covering different levels of planning

## **Unit: 4 Social and Health Impacts**

Assessment of social and health impacts; Case studies from India and abroad Oil projects of various types covering different levels of planning

## **Unit 5: Social and Health Impacts**

Public - private - people's participation in Environmental Impact Assessments: definition and concepts, objectives, techniques, advantages and limitation; PRA techniques; Case studies from India and abroad on projects of various types covering different levels of planning; Practical exercises on Environmental Impact Assessments

## **BPLN-0806A: Planning For Small and Medium Towns (Elective III)**

### **Unit 1: Evolution:**

Evolution of small and medium towns through ages all over the world. SMTs in developed and developing countries.

### **Unit 2: Regional Development:**

Role of small and medium towns in regional development. Migration mitigation, employment generation,

### **Unit 3: Urban Governance:**

Schemes, programs by government, Urban management including 74 constitution amendment, JNNURM

### **Unit 4: Resource Mobilization:**

Use of available resources in the region, optimum mobilization of natural and manmade resources. Non conventional energy resources, Industrial location. Human resource utilization- through schemes and use of PPP

### **Unit 5: Infrastructure development:**

Urban services and infrastructure development – water supply, electricity, sewage disposal, transport network and others.

## **BPLN-0806B: Planning for Mega Cities (Elective III)**

### **Unit 1: Location**

Criteria of identification of Mega cities. Urbanization trends, global city index, typology, pull push factors, Alpha, Beta, Gamma World Cities.

### **Unit 2: Characteristics of Mega cities**

Social characteristics, Economic characteristics, Political characteristics and Cultural characteristics.

### **Unit 3: Urban Governance**

Governing organization and there accountability

### **Unit 4: Infrastructure Facilities**

Rapid transit systems, Land Air and water transport IT, Communication infrastructure, Water supply and Sewage disposal Services, health Services.

## **BPLN-0806C: Planning for Special Areas (Elective III)**

### **Unit 1: Location and Types**

Location of Special areas, special areas in different countries. Typology of formal and functional special areas, (Coastal areas, Hill areas, Export Processing Zone , Special Economic Zones Free Trade Zones (FTZ), Export Processing Zones (EPZ), Free Zones (FZ), Industrial Estates (IE), Free Ports, Urban Enterprise Zones etc.)

### **Unit 2: Characteristics**

Process of formation of Special areas/ zones. characteristics of special areas, role of special zones in economy,

### **Unit 3: Governance**

Organisation of Special areas Institutional structure of special areas -government, and Private. Quasi-government agencies Laws and acts rules and regulations for special Areas. Land acquisition for special areas.

### **Unit 4: Infrastructure**

Basic services and transport. Medical and education facilities. Systems for Performance monitoring of Special areas

### **Unit 5: Development Finance of Special areas**

Capital investments, foreign investments, Public, Private Partnership in special areas and zones.