



# Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

## Shri Vaishnav Institute of Architecture

### M.Plan in Urban Planning (2021-2023)

#### SEMESTER 4

#### MPLN 401 THESIS

| COURSE CODE | Category | COURSE NAME | TEACHING & EVALUATION SCHEME |               |                      |                         |                      |   |   |    |          |
|-------------|----------|-------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|----|----------|
|             |          |             | THEORY                       |               |                      | PRACTICAL               |                      | L | T | P  | CRED ITS |
|             |          |             | END SEM University Exam      | Two Term Exam | Teachers Assessment* | END SEM University Exam | Teachers Assessment* |   |   |    |          |
| MPLN 401    | P        | THESIS      | -                            | -             | -                    | 400                     | 400                  | - | - | 16 | 16       |

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

\***Teacher Assessment** shall be based following components: Quiz/Assignment/ Project/Participation in Class, given that no component shall exceed more than 10 marks.

#### Course Educational Objectives (CEOs):

The course aims to provide students with the skills and knowledge to prepare the preliminary research proposal. Also, to enable students to frame effective researches questions and identify appropriate peer-reviewed literature relevant to their research topic.

#### Course Outcomes (COs):

After the completion of the course the students should be able to:

- Conceptualize problems from complex, real-world situations so the problems are meaningful to the intended audience and research-worthy.
- Identify and summarize appropriate peer-reviewed literature relevant to a proposed area of research.
- Prepare constructive, tactful feedback to help colleagues improve their writing.

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| MPLN 401    | P        | THESIS      | -                            | -             | -                    | 400                     | 400                  | - | - | 16 | 16       |

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#### Course Content

In continuation to the previous semester thesis, the student is required to analyze the collected data and formulate strategies, policies, principles for the development of the analyzed scenario.

- The students are required to carry out independent research and prepare a thesis on a topic on urban planning selected by them and approved the faculty under the supervision of a research guide allocated by the department.
- The student is also required to prove the validity of the proposal on any chosen action area within the study zone.
- Each student is required to defend his / her thesis through a presentation to external panel of experts.

#### References

- Urban And regional Development Plans Formulation And Implementation (URDPFI) Guidelines Volume II A and II B, Town and Country Planning organization, (Government of India Ministry of Urban Development, 2014)

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### M.Plan in Urban Planning (2021-2023)

#### SEMESTER 4

#### MPLN 402 DEVELOPMENT FINANCE

| COURSE CODE | Category | COURSE NAME         | TEACHING & EVALUATION SCHEME |               |                      |                         |                      |   |   |   |          |
|-------------|----------|---------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|----------|
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| MPLN 402    | T        | DEVELOPMENT FINANCE | 60                           | 20            | 20                   | -                       | -                    | 2 | - | - | 2        |

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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#### Course Educational Objectives (CEOs):

The course aims to apprise the students of the local governance framework at sub provincial level and resource mapping of local governments with special emphasis on municipal governments in our country.

#### Course Outcomes (COs):

After the completion of the course the students should be able to:

- Explore efforts to manage, finance, and regulate delivery of services in planning units.
- Understand the governance structure and fiscal and financial background of the local governments and tools and techniques to strengthen them

## Syllabus

### Unit I

06HRS

#### Overview of Development Finance

- Approaches, concepts, components, process, credit rating.

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#### Unit II

**06HRS**

##### State Finance

- Finance Commissions, functions, relationship between Central, State and Urban Local Government.

#### Unit III

**09HRS**

##### Municipal Finance

- Urban reform incentive fund, Sources of revenues;
- Equities; Loans;
- Debt financing;
- City challenge fund, Pooled finance development fund, National urban infrastructure fund, Municipal Bonds, Miscellaneous sources;

#### Unit IV

**09HRS**

##### Structure Finance

- Structure of finances, fiscal problems and issues of financial management, implications of 74th Constitution Amendment Act for municipal finance, expenditure pattern, Bilateral and multi-lateral lending intuitions mobilizing resources for a project - financial resources, land resources, project resources, and other resources.

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#### Unit V

10HRS

#### Investment Planning and Financing Mechanism

- Link with spatial plans, process, components, investment needs, budgeting, financial investments in infrastructure and services.
- Financing of urban development, infrastructure and services – mechanisms and instruments, subsidy reduction, cost recovery, public private partnerships;
- Financial appraisal, investment appraisal;
- Financial Risk – Sources, Measures and perspectives on risk, Sensitivity analysis.

#### Text Books:

- Constitution of India, D.D. Basu, S. Chand and Sons, New Delhi
- Democracy, Development and Decentralisation – Continuing Debates, Taylor and Francis, India
- India: The Challenges of Urban Governance, O.P. Mathur, National Institute of Public Finance and Policy, New Delhi
- Local Governance in India – Niraja Gopal et al., Oxford University Press
- New Forms of Urban Governance in India, Baud I.S.A. et al., Sage
- People's Participation in Urban Governance, K.C. Sivaramkrishnan, CSS, New Delhi
- Urban Governance and Management: Indian Initiative, P.S.N. Rao, Kanishka Publishers
- Leadership and Team Building, Uday Kumar Halder, Oxford University Press
- Developing Countries, Bahl Roy W. Et al., Oxford University Press
- Public Finance: Policy Issues for India, Sudipto Mundle, Oxford University Press

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#### References:

- New Issues in Panchayati Raj, D. Bandopadhyay et al., Concept Publishing
- Fiscal Decentralisation and Governance – A Cross Country Analysis, De Mello, IMF Working Paper (WP.01/171, 2001)
- Fiscal Decentralisation to Local Government in India, M.A. Oommen, Cambridge Scholars Publishers
- Municipal Finance in India – An Assessment, P.K. Mohanty et al, Reserve Bank of India
- Municipal Finance – A Handbook for Local Government Practitioners, World Bank
- Federalism and Fiscal Transfers in India – C. Rangarajan et al., Oxford University Press

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## Shri Vaishnav Institute of Architecture

### M.Plan in Urban Planning (2021-2023)

#### SEMESTER 4

#### MPLN 403 PLANNING LEGISLATION AND PROFESSIONAL PRACTICE

| COURSE CODE | Category | COURSE NAME                                    | TEACHING & EVALUATION SCHEME |               |                      |                         |                      |   |   |   |          |
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#### Course Educational Objectives (CEOs):

The main objective of this course is to familiarise the students with the nature of planning practice in the Indian context and develop an understanding of responsibility of planning professionals and inculcate ethical behaviour in planners. Students will also get familiar with requirements of setting up a planning practice.

#### Course Outcomes (COs):

After completing this course, the students would be able:

- To analyse and evaluate technically a planning proposal.
- To develop the ability to recognize an ethical dilemma.
- To show knowledge about processes of ethical decision making.
- To make documents involving scope of work and fees for a planning project.

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## Syllabus

### Unit 1

**03 HRS**

#### Concept of Legislation

Significance and Objectives of Legislation; Constitutional basis and provisions relating to land, its development and use; Overview of legal tools in various components of Urban Planning & Development;

### Unit II

**09 HRS**

#### Planning Legislation Evolution of Planning Legislation in India;

Types and description of various Acts- Town and Country Planning Acts, Improvement Trust Act, Urban Planning and Development Authorities Act- objectives, contents, procedures for preparation and implementation of regional plans, master plans and town planning schemes; Various Acts related to urban governance; land resources, environment protection, public participation in statutory process.

### Unit III

**10 HRS**

#### Planning and Development Organizations & Public Participation

Urban Development Departments , City Improvement Trust, Development Authorities, Municipal Corporation etc. – objectives, functions and duties, organizational structure, technical capacity , statutory obligations, budgetary outlays; coordination and implementation issues

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#### Unit 3:

##### Planning and Development Organizations & Public Participation

Role of interdisciplinary groups; community participation process in planning; Appreciation of the decision-making processes, process in relation to varied consultancy assignments of planning.

#### Unit 4:

##### Professional Activities and Responsibilities

**09 HRS**

Aims and objectives of professional institutes and bodies in planning; professional roles and responsibilities of planning consultants; professional ethics; responsibilities towards clients, fellow professionals and general public; Scope of services for different projects; Consultancy agreements and safeguards; Fees and scales of professional charges; negotiation, liability, code of conduct, arbitration

#### Unit 5:

##### Project Formulation and Implementation

**09 HRS**

Project context; Project rationale and objectives; Bid documents, Tenders, Contracts ; Implementation approaches and methods, Work plan, Budget, Assumptions, risks and sustainability; Implementation arrangements; Organizational structure and stakeholder involvement mechanisms; Reporting, review, monitoring and evaluation; Dissemination and mainstreaming of project learning

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#### Text Books:

- Lakshimikanth, M. (2007) Indian Polity, Tata McGraw Hill, India.
- Bhattacharya, M. (2001) New Horizons of Public Administration, Jawahar Publishers and Distributors, New Delhi.
- Needham, B. (2006) Planning, Law and Economics: An investigation in the rules we make for using land, Routledge, London.
- McAuslan, P. (2019) Bringing the Law Back In: Essays in Land, Law and Development, Routledge, London
- 

#### References:

- The Municipal administration in India: A Sociological analysis of rural & urban India / BHARDWAJ, R K
- Guide to practical project appraisal, Social benefit, Cost analysis in Developing Countries / UNITED NATION
- Govt. of India (2014) URDPFI Guidelines, Ministry of Housing & Urban Affairs, New Delhi.
- Town and Country Planning Act (any State Act)
- Model Municipal Act, Ministry of Urban Development, Government of India
- Nagar Raj Act (any State Act )

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#### MPLN 404 PROFESSIONAL ELECTIVE

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|-------------|----------|-----------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|---------|
|             |          |                       | THEORY                       |               |                      | PRACTICAL               |                      | L | T | P | CREDITS |
|             |          |                       | END SEM University Exam      | Two Term Exam | Teachers Assessment* | END SEM University Exam | Teachers Assessment* |   |   |   |         |
| MPLN 404    | T        | PROFESSIONAL ELECTIVE | 60                           | 20            | 20                   | -                       | -                    | 2 | - | - | 2       |

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#### PROFESSIONAL ELECTIVE A: RISK, DISASTER MITIGATION AND MANAGEMENT

##### Course Educational Objectives (CEOs):

To understand the basic concepts of disaster management as these relate to urban and regional planning.

- To understand processes and mechanisms of disaster management, disaster risk mitigation, and post disaster measures.
- To expose students to relevant planning polices and guidelines for reduction of disaster risks.

##### Course Outcomes (COs):

After completion of this course the students would be able:

- To show an understanding of the concepts and principles of disaster risk mitigation and planning.
- To demonstrate knowledge of preparing plans for area prone to disaster risks in order to reduce vulnerabilities.

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## Syllabus

### Unit I

09HRS

#### Basic Concepts of Disaster Management

- Disaster: Definitions, concepts, types and perceptions;
- Recent initiatives at national and state level;
- Kyoto Framework of disaster mitigation and management; Paris agreements;
- Disaster management policy at the national and state levels; Disaster management statutes at national and state levels.

### Unit II

09HRS

#### Disaster Management Mechanisms

- Disaster management mechanisms at national, state and district levels;
- Select global practices; Disaster and development;
- Development plans and disaster management plans;
- Roles played in disaster management by INGOs, NGOs, CBOs and armed forces; and Community Based Disaster Preparedness

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#### Unit-III

09HRS

##### Disaster Risk Mitigation

- Natural Disasters: cyclones, floods, earthquakes, landslides etc.;
- Disaster as a physical phenomenon, causes and consequences of mitigation and management practices;
- Risks mitigation strategies in development plans inclusive of industrial, chemical and biological disasters;
- Land use planning, building bye laws and disaster safe construction practices.

#### Unit-IV

10HRS

##### Disaster Preparedness and Post Disaster Management

- Forecasting and early warning systems for various types of disasters;
- Role of communication and information technologies in disaster management;
- Disaster education and awareness;
- Case studies on natural disasters;
- Climate change and its implications in disaster mitigation; Disaster Preparedness and Post Disaster Management and Post-disaster management including rehabilitation and reconstruction of disaster affected areas; Safe hill area development guidelines and coastal zone regulations for safe habitation

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### M.Plan in Urban Planning (2021-2023)

#### MPLN 404 PROFESSIONAL ELECTIVE

| COURSE CODE | Category | COURSE NAME           | TEACHING & EVALUATION SCHEME |               |                      |                         |                      |   |   |   |          |
|-------------|----------|-----------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|----------|
|             |          |                       | THEORY                       |               |                      | PRACTICAL               |                      | L | T | P | CRED ITS |
|             |          |                       | END SEM University Exam      | Two Term Exam | Teachers Assessment* | END SEM University Exam | Teachers Assessment* |   |   |   |          |
| MPLN 404    | T        | PROFESSIONAL ELECTIVE | 60                           | 20            | 20                   | -                       | -                    | 2 | - | - | 2        |

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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#### Unit-V

03HRS

#### Policies and Legislation Pertaining to Disaster Management

Policies and Legislation at various levels

#### Text Books:

- Capolla, D.P. (2007) Introduction to International Disaster Management, Butterworth Heinemann, London.
- Joshi, A.D. (2009) Text Book of Disaster Management, Lotus Publication of Pvt. Ltd., Mumbai.
- Sharma, S.C. (2019) Disaster Management, Khanna Book Publishing Co., New Delhi.
- NDMA (2007) Disaster Management Guidelines, NDMA, Govt. of India, New Delhi.
- Ministry of Home Affairs (2004) Model Amendment in Town and Country Planning Legislations, Regulation for Land Use Zoning and Building Byelaws for Structural Safety, Government of India, New Delhi.
- Ministry of Home Affairs (2006) National Policy on Disaster Management, Government of India, New Delhi.
- Healey, P. (2010) Making Better Places: The planning project in the twenty-first century, Palgrave Macmillan, London.

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#### References:

- The National Disaster Management Plan (NDMP)
- National Action Plan for Climate Change (NAPCC)
- SDMP State Disaster Management Plan
- State Action Plans on Climate Change (SAPCC)
- India Meteorological Department, Reports

#### PROFESSIONAL ELECTIVE B: BIG DATA AND DATA ANALYTICS

| COURSE CODE | Category | COURSE NAME                 | TEACHING & EVALUATION SCHEME |               |                      |                         |                      |   |   |   |         |
|-------------|----------|-----------------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|---------|
|             |          |                             | THEORY                       |               |                      | PRACTICAL               |                      | L | T | P | CREDITS |
|             |          |                             | END SEM University Exam      | Two Term Exam | Teachers Assessment* | END SEM University Exam | Teachers Assessment* |   |   |   |         |
| MPLN 404    | T        | BIG DATA AND DATA ANALYTICS | 60                           | 20            | 20                   | -                       | -                    | 2 | - | - | 2       |

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#### Course Educational Objectives (CEOs):

As technologies are getting embedded in the built environments, in this context, the major objective of this course is to understand the role and application of big data in urban and regional planning.

#### Course Outcomes (COs):

Upon the completion of this course, the students would be able:

- To express understanding about the nature of big data and its significance for planning and urban development.
- To analyse and evaluate big data for planning projects such as smart city projects in India.

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|             |          |                             | THEORY                       |               |                      | PRACTICAL               |                      | L | T | P | CRED ITS |
|             |          |                             | END SEM University Exam      | Two Term Exam | Teachers Assessment* | END SEM University Exam | Teachers Assessment* |   |   |   |          |
| MPLN 404    | T        | BIG DATA AND DATA ANALYTICS | 60                           | 20            | 20                   | -                       | -                    | 2 | - | - | 2        |

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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## Syllabus

### Unit I

**12 HRS**

#### Big data – An introduction

Defining big data and what makes it ‘big’; Emergence of data science and big data; Importance and utility of big data in planning; Characteristics of big data; Links between big data, urban and regional planning, development, management and policy making

### Unit II

**12 HRS**

#### Mapping the City

Different tools for making maps with big data; Understanding basic elements of maps; Map online programs and open spatial data and its uses; Geographic information systems software for mapping; and Identification of winners and losers in the big data system.

### Unit-III

**08 HRS**

#### Data acquisition and analytics

Understanding open data platforms; Generators of big data; Handling large datasets, cloud database system; Cleaning data, SQL, introduction to R or other software for urban data analysis

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|-------------|----------|-----------------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|----------|
|             |          |                             | THEORY                       |               |                      | PRACTICAL               |                      | L | T | P | CRED ITS |
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| MPLN 404    | T        | BIG DATA AND DATA ANALYTICS | 60                           | 20            | 20                   | -                       | -                    | 2 | - | - | 2        |

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#### Unit-IV

**08 HRS**

#### Big Data and Smart Cities

Explore big data in the context of smart cities; Learning use of real-time and crowd sourced data collection and use; Interactive data visualization in the context of smart cities and region

#### Text Book & References:

- Jain, V.K. (2018) Big Data and Hadoop, Khanna Book Publishing Co., New Delhi.
- Carta, S. (2019) Big Data, Code and the Discrete City, Shaping Public Realms, Routledge, London.
- Desouza, K. and Smith, K. (2016) Big Data and Planning, PAS Report 585, American Planning Association, Washington, D.C
- Townsend, A.M. (2013) Smart Cities: Big Data, Civic Hackers, and the Quest for a New Utopia, W.W. Norton and Company, London.
- Offenhuber, D. and Ratti, C. (eds.) (2014) Decoding the City: Urbanism in the Age of Big Data, Birkhauser Verlag AG.

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#### SEMESTER 4

#### MPLN 405 PROFESSIONAL INTERNSHIP

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|-------------|----------|-------------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|----------|
|             |          |                         | THEORY                       |               |                      | PRACTICAL               |                      | L | T | P | CRED ITS |
|             |          |                         | END SEM University Exam      | Two Term Exam | Teachers Assessment* | END SEM University Exam | Teachers Assessment* |   |   |   |          |
| MPLN 404    | P        | PROFESSIONAL INTERNSHIP | -                            | -             | -                    | 50                      | 50                   | - | - | 3 | 3        |

**Legends:** L - Lecture; T - Tutorial/Teacher Guided Student Activity; P – Practical; C - Credit;

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#### Course Educational Objectives (CEOs):

To gain hands on experience in a planning organization so that students become future ready after they obtained the postgraduate degree. The main objective of professional training is to expose the students to live planning and development project and working environment in a planning agency.

#### Course Outcomes (COs):

After undertaking professional training, the students would be able:

- To show capabilities of working on live planning and development projects.
- To demonstrate knowledge of work environments in different planning organizations.

#### Course Contents:

Each student shall undertake training in a planning or related office for 6-8 calendar weeks. Students will undergo professional training in a department approved organization on a project for 6-8 calendar weeks. This will be supervised training by a senior professional from the organization. Satisfactory completion of training will be mandatory for the award of a degree. Two credits will be awarded for successful completion of training.

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|-------------|----------|-------------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|----------|
|             |          |                         | THEORY                       |               |                      | PRACTICAL               |                      | L | T | P | CRED ITS |
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| MPLN 404    | P        | PROFESSIONAL INTERNSHIP | -                            | -             | -                    | 50                      | 50                   | - | - | 3 | 3        |

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#### Report works:

Every student must document his/her contribution during the internship period, and project details, in which he/she was involved. Student has to prepare & submit: a Report and a presentation on it

#### Note:

Detailed instructions are given by the University regarding the internship, the frequency of reporting to the department, etc. will be issued at the end of the Second Semester, which the student must strictly follow. After completion of internship, every student will have to submit a detailed report with its presentation on which she/he has worked during the 6-8 calendar weeks of the internship period.

#### Evaluation:

The internal assessment shall be evaluated after the initiation of third semester and shall be conducted by the faculty deputed by the institute. The detailed report and presentation prepared during practical Internship by students will be evaluated at a viva-voce by a jury consisting of one external, one internal and head of the department or his nominee. After submission of the report, the department at its convenience will arrange for the conduct of the viva-voce examination.

- Students are required to submit reports after the completion of internship supported by an intermediate weekly log. The performance of the student in the viva- voce examination will be conducted by a panel of internal and external examiners.

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|-------------|----------|-------------------------|------------------------------|---------------|----------------------|-------------------------|----------------------|---|---|---|----------|
|             |          |                         | THEORY                       |               |                      | PRACTICAL               |                      | L | T | P | CRED ITS |
|             |          |                         | END SEM University Exam      | Two Term Exam | Teachers Assessment* | END SEM University Exam | Teachers Assessment* |   |   |   |          |
| MPLN 404    | P        | PROFESSIONAL INTERNSHIP | -                            | -             | -                    | 50                      | 50                   | - | - | 3 | 3        |

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#### Assessment

- The qualitative assessment grading done by the office in the 'Evaluation Sheet of Trainee' would be quantified for an assessment of 50 marks of internal assessment.
- The Final report compiled during the entire internship period would account for internal assessment and would be required to be submitted one week prior to the conduct of End Semester viva-voce Examination. Also, final log sheet and confidential internship report to be submitted at the same time. This will be considered as Continuous progression evaluation.

#### Type of Office /Organization

While choosing office for internship, students shall keep the note of following:

1. Suggested list of organizations may include Government Institutes/Institutions, State Town and Country Planning Boards, Urban Development Authorities, State Housing Boards, Municipalities, Municipal Council and Municipal Corporation, Smart city related to planning department.
2. In case of 'Partnership'/Private Limited firms, at least one of the partner/ directors shall be a Planner, the firm shall have at least one planners as Partner/director/employee/ associate.
3. In case of a 'Public-sector'/State or Central Government office/academic institute or a multi- national organization, there shall be a separate wing for planning consultancy works.

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