**Name of Course: Regional Transport Planning** (MTIP306)

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| Programme & Sem: | Masters in Transport Planning, Semester three |
| Course Duration: | July 4, 2023 to Nov 22, 2023 |
| Course Coordinator: | Dr. M.N.V Pavan Kumar, Assistant Professor, Dept. of Planning, (pavanmachavarapu@spav.edu.in) |
| Number of Credits: | 03 |
| Subject Category: | Theory |
| Total Periods/Week: | 03 (See Time Table for details) |
| Internal Assessment | 50 (minimum pass marks 50%) |
| End Evaluation | 50 (minimum pass marks 50%) – Written Exam. |
| Total Marks | 100 (to be converted to CGPA credit pattern as per regulations) |

**Subject Objective:** To introduce regional elements in the domain of transport planning and equip students towards enhancing regional connectivity.

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| **Week** | **Lecture / Session Topic (Teaching-Learning Objective aimed)** | **Unit and Assignment** |
| Week 1  (1 Aug) | Approach to regional planning, types of regions and their characteristics, delineation of region for  transport planning | Unit 1: Overview of Regional Planning  Assignment 1: Review on research articles related to regional transport. |
| Week 2  (8 Aug) | Backwardness and regional disparity in development; role of connectivity and regional  transport in development and backwardness. | Unit 1: Overview of Regional Planning  Assignment 1: Review on research articles related to regional transport. |
| Week 3-4  (19 Aug - 2 Sep) | Field Trip |  |
| Week 5  (5 Sep) | Regional transport system, types, characteristics | Unit 2: Regional Transport Systems |
| Week 6  (11-15 Sep) | Mid- Semester Assessment week |  |
| Week 7  (26 Sep) | Regional transport supply, regional traffic and travel  pattern, emerging issues. | Unit 2: Regional Transport Systems |
| Week 8  (3 Oct) | Regional network system, rural road network planning, | Unit 4: Regional Network Analysis |
| Week 9  (10 Oct) | graph theory applications- connectivity and  accessibility measures. |
| Week 10  (17 Oct) | Regional travel demand determinant, regional demand models | Unit 3: Regional Travel Demand  Assignment 3:  Explain different Regional demand models and econometric models and their determinants |
| Week 11  (31 Oct) | Regional accessibility, sequential travel  demand models, econometric models, regional public transport demand. |
| Week 12  (7 Nov) | Regional transport infrastructure | Unit 5: Regional Transport Policy  Assignment 3:  Case studies on different Regional Transport policies |
| Week 13  (14 Nov) | System planning imperatives, integration aspects |
| Week 14  (21 Nov) | System selection,  policy aspects at regional level. |

Reference books:

1. Blonk, W.A.G. (1979), Transport and Regional Development. Saxon House, Farnborough.

2. Verma A. (2010), Integrated Public Transportation System: Planning and Modelling. Vdm

Publishing House, Mauritius.

3. Vinod K. T. M. (2000), Micro Regional Transport Planning / Research. School of Planning and

Architecture, Delhi.

Note:

1. Any other closed holidays as declared by SPAV shall supersede the above lecture plan. Holidays shown above may alter as per Notice from time to time.
2. Assessment Sessions may be re-scheduled, with prior intimation.
3. Reading lists provided is not exhaustive and is subject to addition – students are advised to follow progression of class to keep abreast of the new reading lists, if any.