URBAN TRANSPORTATION PLANNING

(Video Course under NPTEL)

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Questions for Self Evaluation

MODULE 4: MODAL SPLIT ANALYSIS

1. List all the factors that may influence mode choice in urban travel.

2. Explain the trip-end type of modal split model with the aid of a sketch.

3. Explain the trip-interchange type of modal split model with the aid of sketches.

4. Explain 'mode specific' and 'attribute specific' utility functions in a context wherein three alternative modes are available for travel.

5. Bus and Rail are the two public transport modes available for travel in a city. Travel time and travel cost are found to be the factors influencing the choice between the two modes. Explain how Logit model of mode choice can be applied and calibrated to explain the mode choice behaviour in this case. Take Bus as the base mode and assume that the travel distance does not influence the choice of mode. Also, explain with the aid of a sketch, how mode choice probability curves can be developed for the said case.

6. Explain why and how data segmentation is done for mode-choice analysis.