



## **Week 2:**

### **Module 2: Public Transportation**

- Lec. 6: Introduction to public transportation (0.5 hr.)
- Lec. 7: Basic operating elements of public transportation (0.5 hr.)
- Lec. 8: Basic operating elements of public transportation (contd.) (0.5 hr.)
- Lec. 9: Bus Transportation (0.5 hr.)
- Lec. 10: Bus Transportation (contd.) (0.5 hr.)

## **Week 3:**

### **Module 2: Public Transportation**

- Lec. 11: Financing public transportation (0.5 hr.)
- Lec. 12: Transit marketing (0.5 hr.)
- Lec. 13: Rail transportation (0.5 hr.)
- Lec. 14: Intermediate Public Transportation (0.5 hr.)
- Lec. 15: Measuring performance of transit systems (0.5 hr.)

## **Week 4:**

### **Module 2: Public Transportation**

- Lec. 16: Advanced operation concepts of public transportation (0.5 hr.)
- Lec. 17: Bus & Rail Transit Capacity (0.5 hr.)
- Lec. 18: Bus & Rail Transit Capacity (contd.) (0.5 hr.)
- Lec. 19: Station Capacity (0.5 hr.)
- Lec. 20: Transit Stop Location (0.5 hr.)

## **Week 5:**

### **Module 3: Non-Motorised Transportation (NMT) Planning**

- Lec. 21: Introduction to NMT Systems (0.5 hr.)
- Lec. 22: Assessing existing NMT scenario (0.5 hr.)
- Lec. 23: Data collection and analysis in NMT Planning (0.5 hr.)
- Lec. 24: Complementarity and Selection of Interventions (0.5 hr.)
- Lec. 25: Alternative Selection through Economic & Financial Analysis (0.5 hr.)

## **Week 6:**

### **Module 3: Non-Motorised Transportation (NMT) Planning**

- Lec. 26: Introduction to NMT systems (0.5 hr.)
- Lec. 27: Basic NMT Characteristics (0.5 hr.)
- Lec. 28: Pedestrian Data Collection and Flow Characteristics (0.5 hr.)
- Lec. 29: PTS Case Studies Pedestrian flow characteristics on facilities (0.5hr.)
- Lec. 30: Pedestrian Level of Service (PLOS) based on Flow models (0.5hr.)

## **Week 7:**

### **Module 3: Non-Motorised Transportation (NMT) Planning**

- Lec. 31: Other types of Pedestrian Level of Service (PLOS) (0.5 hr.)
- Lec. 32: HCM 2010 Methodology for PLOS (0.5 hr.)
- Lec. 33: HCM 2010 Methodology for PLOS (contd.) (0.5 hr.)
- Lec. 34: Bicycle Facilities and Level of Service (BLOS) (0.5 hr.)
- Lec. 35: BLOS and Bicycle Compatibility Index (BCI) (0.5 hr.)

## **Week 8:**

### **Module 3: Non-Motorised Transportation (NMT) Planning**

- Lec. 36: NMT Design Principles (0.5 hr.)
- Lec. 37: Design of Pedestrian Infrastructure (0.5 hr.)
- Lec. 38: Design of Pedestrian Infrastructure (contd.) (0.5 hr.)
- Lec. 39: Design of Cycling Infrastructure (0.5 hr.)
- Lec. 40: Design of Cycling Infrastructure (contd.) (0.5 hr.)

## **Week 9:**

### **Module 4: Urban Transport & Sustainability**

- Lec. 41: Travel Demand Management (TDM) overview (0.5 hr.)
- Lec. 42: Push measures cases (0.5 hr.)
- Lec. 43: Pull measure cases (0.5 hr.)
- Lec. 44: Parking Studies (0.5 hr.)
- Lec. 45: Transit Oriented Development (TOD) (0.5 hr.)

**Week 10:**

**Module 4: Urban Transport & Sustainability**

- Lec. 46: Introduction to Intelligent Transportation Systems (ITS) (0.5 hr.)
- Lec 47: ITS components, applications and communication (0.5 hr.)
- Lec. 48: ITS Architecture (0.5 hr.)
- Lec. 49: Electronic Toll Collection (ETC) (0.5 hr.)
- Lec. 50: Public Bicycle Sharing (PBS) System with ITS (0.5 hr.)

**Week 11:**

**Module 4: Urban Transport & Sustainability**

- Lec. 51: Multimodal transportation (MMT) environment (0.5 hr.)
- Lec. 52: Multimodal Level of Service (MMLOS) (0.5 hr.)
- Lec. 53: Multimodal Level of Service (MMLOS) (contd.) (0.5 hr.)
- Lec. 54: Design of multimodal transfer facilities (0.5 hr.)
- Lec. 55: Park & Ride (P&R) Facility Planning (0.5 hr.)

**Week 12:**

**Module 4: Urban Transport & Sustainability**

- Lec. 56: An Introduction to Pedestrian Road Safety and associated Risk Factors (0.5 hr.)
- Lec. 57: Road crash estimation and elements of predictive methods (0.5 hr.)
- Lec. 58: Predicting Vehicle-Pedestrian and Vehicle-Bicycle conflicts (0.5 hr.)
- Lec. 59: Environmental Concerns of Urban Transport (0.5 hr.)
- Lec. 60: Sustainable strategies for Urban Transportation (0.5 hr.)