INTRODUCTION TO MULTIMODAL URBAN TRANSPORTATION SYSTEMS (MUTS)

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Infrastructure Design Management
IIT Kharagpur

TYPE OF COURSE : Rerun | Elective | UG/PG
COURSE DURATION : 12 weeks (26 Jul’ 21 - 15 Oct’ 21)
EXAM DATE : 23 Oct 2021

INTENDED AUDIENCE : UG Civil Engineering, PG Civil Engineering (Transportation), UG Urban Planning, PG Urban Planning
INDUSTRIES APPLICABLE TO : Urban Local Bodies, Transport Network Companies (TNCs), Public transportation operating companies and administrators

COURSE OUTLINE :
This course is refined version of the Post-Graduate course (ID6004) “Planning, Operation and Management of Transportation Facilities” which is being currently taught to the students of Infrastructure Design and Management at IIT Kharagpur. The course’s primary objectives are to:

1. Identify the sustainability principles in transportation
2. Introduce the concept of Travel Demand Management (TDM)
3. Disseminate the techniques of urban public transit planning, operations and management
4. Imbibe the concepts of non-motorized urban transport
5. Demonstrate the applications in intelligent transportation systems (ITS)

ABOUT INSTRUCTOR :
Dr. Arkopal K. Goswami is currently a faculty member in the Ranbir and Chitra Gupta School of Infrastructure Design and Management, IIT Kharagpur, where he specializes in Transportation Infrastructure. He earned his Bachelor's in Civil Engineering from NIT Jamshedpur, after which he was awarded a full academic scholarship, along with a research assistantship (RA), to pursue his high studies from the University of Virginia (UVa).

COURSE PLAN :
Week 1: Overview of urban transportation
Week 2: Public Transportation
Week 3: Public Transportation
Week 4: Public Transportation
Week 5: Non-Motorised Transportation (NMT) Planning
Week 6: Non-Motorised Transportation (NMT) Planning
Week 7: Non-Motorised Transportation (NMT) Planning
Week 8: Non-Motorised Transportation (NMT) Planning
Week 9: Urban Transport & Sustainability
Week 10: Urban Transport & Sustainability
Week 11: Urban Transport & Sustainability
Week 12: Urban Transport & Sustainability