GEOG2018 Transport geography

TIMETABLE ARRANGEMENT: Annual; 2nd Semester **CREDITS:** 6

COURSE TEACHER(S): Professor Junshi XU

ASSESSMENT:

EXAMINATION 40 %	COURSEWORK 60 %
• 2 hours	• 2 lab exercises • 1 individual research essay

OBJECTIVES:
This course provides an understanding of the spatial structures and development of transport systems from a people-oriented geographical approach.

COURSE SYNOPSIS:
This course provides an understanding of the spatial structures and development of transport systems from a people-oriented geographical approach. This approach emphasizes the role of people in determining the evolution and use of transport systems and the role of the transportation systems in serving and changing our daily life through improving accessibility and mobility. The course will cover the fundamentals of geographical analysis on transport, the analysis on transport demand, supply and regulations and the relationship between transport and development. Case studies of airports, ports, and urban transport networks provide explanations about the mechanisms and dynamics of transport systems in different geographical situations, and how they interact with local and global development.

LECTURE TOPICS:
- Fundamental aspects of transportation geography
- Transport and Development
- Introduction to Transport Planning and Modeling
- Freight Transportation Modes
- Public Transit Systems and Emerging Trends
- Travel Behavior and Analytical Methods
- Sustainable Transport, Pollution, and Energy
- Environmental Justice and Transport Equity

RECOMMENDED READING LIST:

- Knowles, R., Shaw, J. and Docherty, I. (eds.) (2008): Transport Geography. Motilities, Flows and Spaces. Oxford. Blackwell.
- Rodrigue, J. P. (2020). The geography of transport systems. New York. Taylor & Francis.
- William K. Black (2010) Sustainable Transportation: Problems and Solutions. New York. Guilford Press.

	Course Learning Outcomes (CLOs) After completing this course, students would be able to:	**Alignment with Programme** Learning Outcomes (PLOs)*						**Course Assessment Methods**
		1	2	3	4	5	6	
1	understand transport as a key element in development at any geographical scale		✔					Group research project, research essay & examination
2	comprehend individual modes of transport and their role in changing mobility and accessibility patterns				✔			Group research project, research essay & examination
3	understand the vast impact of transport on globalization and sustainable development	✔				✔		Group research project, research essay & examination
4	use basic methodologies of geographical analysis of transport systems						✔	Group research project, research essay & examination
5	decompose a complicated real-world system from different perspectives				✔			Group research project, research essay & examination
6	comprehend a networked phenomenon that affect geographical patterns of our daily life			✔				Group research project, research essay & examination

*Geography Major Programme Learning Outcomes (PLOs)

In order to meet the demands and challenges in this dynamic and ever-changing world, the Department has designed a series of well-structured and contemporary courses to cater to the different interests of students. Its courses are designed to align with the University's educational aims which hope to nurture future generations not only with a critical and intellectual mindset, but also with a passion to contribute to society in general.

After completing the programme, Geography Major students should be able to:

PLO1 **critically analyse the geographical aspects of the relationship between people and the natural environment;**

PLO2 **demonstrate and develop an understanding of how these relationships have changed with space and over time;**

PLO3 **identify, collect and utilize primary and secondary data to investigate and analyse the issues and problems facing people, places and society;**

PLO4 **integrate, evaluate and communicate information from a variety of geographical and other sources;**

PLO5 **participate in promoting social, economic and environmental sustainability at the local, regional and global scales; and**

PLO6 **effectively apply a range of transferable skills in academic, professional and social settings.**