Subject Description Form

Subject Code	CSE514
Subject Title	Transport Management
Credit Value	3
Level	5
Pre-requisite/ Co-requisite/ Exclusion	Recommended background knowledge: It is expected that students will have a fundamental knowledge of basic transport engineering at the undergraduate level.
Objectives	To provide an overall understanding on transport management concerning the movement of people and goods, the structure and management of transport organization, and road traffic and highway management and their applications.
Intended Learning Outcomes	Upon completion of the subject, students will be able: a. to identify and evaluate problems encountered in transportation; b. to develop strategies and recommend management measures or solutions to tackle in transportation; c. to convey the ideas of various proposed management schemes with the support of logical and practical management concepts; and d. to work effectively and collaborate with others under minimal supervision.
Subject Synopsis/ Indicative Syllabus	**Keyword Syllabus** i) Introduction to Transportation Engineering ii) The Transport System The function of transport; the elements of transport system; the system concept. iii) Transport Economics Sources of capital; economic project appraisal; transport demand and supply; competition. iv) The Structure and Management of Transport Organisations The pattern of ownership and scale of operation; organisation structures; public-private partnership. v) Road Traffic Management

<table>
<tr><td></td><td>Highway classification; junction and area traffic control; parking control; traffic control and surveillance.
vi) <u>Pavement Management System</u>
Pavement management concepts; components of pavement management system; pavement performance characteristics; pavement evaluation using nondestructive tools.</td></tr>
<tr><td>Teaching/Learning Methodology</td><td>Lectures are delivered to cover the commonly adopted transport management techniques, their efficiencies and applications.
Assignments are provided to cover hot transport management topics which are currently proposed or have been adopted by the government. Students need to collect data, information and debates among the public. Reports have to be presented based on the applicability, effectiveness, pros and cons and concluded with self suggestions/ideas based on the result of the findings and analyses.
Presentations and discussions in tutorials provide students opportunities to improve their presentation and communication skills.</td></tr>
<tr><td>Assessment Methods in Alignment with Intended Learning Outcomes</td><td>
<table>
<tr><td rowspan="2">Specific assessment methods/tasks</td><td rowspan="2">% weighting</td><td colspan="4">Intended subject learning outcomes to be assessed (Please tick as appropriate)</td></tr>
<tr><td>a.</td><td>b.</td><td>c.</td><td>d.</td></tr>
<tr><td>1. Continuous Assessment</td><td>30%</td><td>√</td><td>√</td><td>√</td><td>√</td></tr>
<tr><td>2. Written Examination</td><td>70%</td><td>√</td><td>√</td><td></td><td></td></tr>
<tr><td>Total</td><td>100%</td><td colspan="4"></td></tr>
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Explanation of the appropriateness of the assessment methods in assessing the intended learning outcomes:
Continuous assessment will be based on coursework and discussions on practical examples and issues.
Written examination is evaluated by final examination.
Students must pass the final examination and achieve a passing overall score/ grade to pass the subject.</td></tr>
<tr><td>Reading List and References</td><td><u>Books</u></td></tr>
</table>

	Gubbins, E.J., *Managing Transport Operations*, Kogan Page (1988). Hensher, D.A. and Brewer, A.M., *Transport : an economics and management perspective*, Oxford University Press (2011). McCarthy, *Transportation Economics*, Blackwell Publishing, 2001. **References** Benson, D. and Whitehead, G., *Transport and Distribution*, Longman (1985). Institute of Transportation Engineers, *Traffic Engineering Handbook* Keys, P. and Jackson, M.C., *Managing Transport Systems*, Gower (1985). Research & Development Division, MARCH 2 *Inspection Training Guides for Works Supervisors*, Highways Department (1988). **Manual/ Standard** Planning Department, *Hong Kong Planning Standards and Guidelines* (2011) Transport Department, *Transport Planning and Design Manual*, (2008) **Journals** Bus and Coach Management Highways & Transportation (IHT Journal) Management Today (BIM Journal) Transport (CILT Journal) Transportation Research Record Transportmetrica A: Transport Science Transportmetrica B: Transport Dynamics Travel Behaviour and Society