

Hong Kong Examinations and Assessment Authority
Hong Kong Advanced Level Examination 2011
ASL Computer Applications Paper 2
Project Assignment

Candidates should complete **one** of the following project assignments. Candidates should develop a prototype of the application to demonstrate the design.

Title 1: NSS student-subject allocation system

Candidates are required to design a student-subject allocation system for secondary schools in Hong Kong. Under the New Senior Secondary (NSS) curriculum, students are required to select elective subjects from among the various subjects offered by schools. There are various constraints on the allocation of subjects to students.

The system should provide functions that facilitate data management for student-subject allocation, such as:

- management of student personal records
- management of selection and allocation constraints
- inputting of elective preference
- reporting of allocation result

Candidates should

- analyze the feasibility of implementing the proposed system
- describe and justify the underlying database design for the system

Title 2: Mobile learning platform

Candidates are required to design a mobile learning platform for a secondary school in Hong Kong. Candidates should

- discuss the main technologies applied in the implementation of the platform, in particular the selection of client machines, the computer network infrastructure and common educational applications
- describe and justify the underlying database design of the system, together with the methodology used in the design and the issues related to database manipulation and maintenance

END OF PAPER