



A case study:

Form5 science

Multimedia Courseware Development

For Curriculum Development Department,
Ministry of Education,
Negara Brunei Darussalam



About Us

E-Learning has become looming in providing a faster acquaintance than traditional learning. This healthy change by use of electronic delivery methodology has become highly successful in knowledge transfers. With over 8 years of presence in the e-learning sector, we have been successfully delivering cost effective solutions & services to the various institutions across the globe.

Our expertise in e-learning and efficient development processes and the ability to understand the need of our customers has enabled us stick out as the decisive provider of electronic educational materials.

Aim & Objectives

In a recent development, the Malaysian Government has made a decision to introduce English as the medium of instruction in the teaching and learning of science. With this prime aim and also to provide opportunities for students to acquire science knowledge and skills, develop thinking skills and thinking strategies in the field of Science and technology, the Ministry of Education, Malaysia have implemented Form5science Multimedia courseware for both teaching and learning purpose.

Customization

Form5science multimedia coursewares were developed to provide students with the knowledge and skills in science technology and enable them to pursue formal and informal education in secondary level science.

Project Details

Form5science multimedia coursewares were developed to provide students with the knowledge and skills in science technology and enable them to pursue formal and informal education in secondary level science.

It consists of 70 lessons, covering Biology, chemistry and physics subjects. Navigations and the additional features such as teacher resource, glossary, etc are restricted in the learning courseware mode. A sub menu will let the user to pick learning/teaching mode; All the 70 lessons was splitted up in to Release1 , Release2 and Release 3.



Scope of work and Onsite resources

Our scope of work in the client place was to provide subject matter expertise on three subjects such as biology, chemistry and physics.

Initially the storyboards were written for the first 25 lessons and got approved from the Curriculum Department desk officers.

Based upon the storyboard approvals a ten-member onsite team for Multimedia development was stationed at the client place. Within the span of 6 months time the first release was completed and second release was signed off within 3 months time.

Challenges faced

Identification of supportive facts and ethnic real time photographs, videos and reference materials were the challenges faced during the course of development. This was sorted out by the strenuous efforts taken by the project management team. Government and Non-Government organization were approached to sources the original materials which were used in the curriculum.

Reason for success

Rich animations, which were developed for the various science concepts, which gave a new dimension to the facts. Video of flowers, animals and various laboratory experiments conducted in Malaysian schools are used in the lessons to maintain the real time feel. The original photographs of industrial processes including ecological hazards were used in the lessons and they provided the means to achieve real success of these Multimedia coursewares. This was realized and appreciated by the Desk officers during the course of review.



Sample print screens from the project:

Biology



Physics



Chemistry

