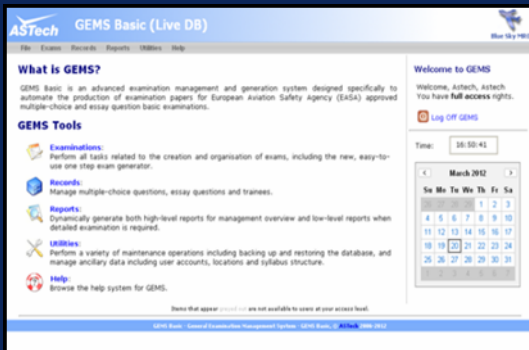


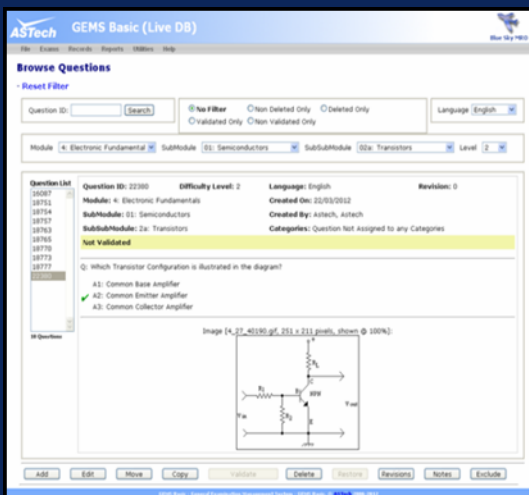
Key Features

- **ADVANCED EXAM MANAGEMENT SYSTEM**
- **MULTIPLE CHOICE AND ESSAY QUESTIONS**
- **QUESTIONS CAN INCLUDE IMAGES, EQUATIONS AND FONT STYLING**
- **EASY MANAGEMENT OF STUDENTS' RESULTS AND EXAMINATION PAPERS**
- **GENERATES BOTH PAPER BASED AND ONLINE EXAMS**
- **GENERATES STATISTICAL ANALYSES OF RESULTS**

Gems Basic Homepage



Gems Basic Question Browser



GEMS Basic

GEMS Basic is an advanced examination management system designed specifically to automate the production of multiple choice and essay question examinations to conform with EASA, FAA and other authority regulations.

GEMS Basic automates the day-to-day task of exam generation. It produces random, non-repeating examination (and associated solution papers for correction purposes) based on a user-defined criteria which are collected into a single exam definition called a template. It is also quick and easy to use, with examinations that can be generated in seconds using a simple point-and-click interface (as compared to hours and sometimes days using traditional approaches)

Functionality

All the functions in GEMS Basic are accessed using an intuitive graphical user interface. Separate menu items are available to access various operations.

The **Exams** menu is used to perform all tasks related to the creation and organisation of exams including the easy-to-use one step exam macro.

The **Records** menu allows the user to manage multiple choice questions, essay questions, and trainees details. Questions can be formatted to include font styles such as bold, italic, underline and mathematical symbols. Questions can also contain mathematical equations and images as required.

The **Reports** menu generates both high-level reports for management overview and comprehensive reports when detailed analysis is required.

The **Utilities** menu performs a variety of maintenance operations including importing questions, creating templates, and managing ancillary data such as user accounts and syllabus structure.

GEMS offers extensive reporting facilities simplifying the task of exam and question analysis. Reports can be created for each trainee showing the trainee and exam details, achieved scores and answers for each question.

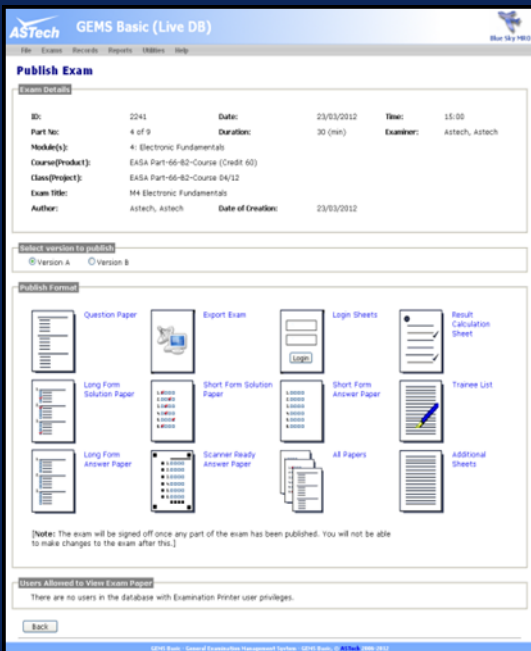
GEMS uses a central examination databank offering the possibility to browse all the questions in the database, create new questions and edit existing questions with a complete revision history of all question changes.

GEMS can be deployed in a number of ways including stand alone computer configuration or on a corporate intranet. Paper based as well as online exams can be produced. A scanner ready paper exam is available and can be automatically corrected with the GEMS OMR software.

Gems Basic Exam Macro



Gems Basic Exam Generation



Benefits of GEMS

GEMS Basic allows easy management of all aspects of the examinations—questions, trainees, exam generation, results and reports.

With GEMS Basic exam preparation can be performed in minutes.

The exam management includes advanced database management tools to populate the question database and properly categorise all questions.

The exam templating system is particularly useful to define how questions are selected in an exam. Once templates are set up for a particular course, exams can be generated within seconds.

Another time-saver of the system is the re-take feature, which ensures that for re-examinations different questions are selected.

Additionally, GEMS offers the possibility to implement graphics or digital pictures to questions within a few seconds.

Further, GEMS Basic offers detailed reporting of a variety of aspects of the system’s operation including statistical analyses of results.

ASTech In the Aviation Industry

Atlantic Simulation & Training Technologies (ASTech) is an internationally trading software company based in Galway, Ireland. The company specializes in products and services for the development and delivery of training and examination systems for industry. Customers within the aviation industry include international operating aviation training organisations.

Other products include [GEMS Type](#), [GEMS Fundamentals](#), [GEMS OMR](#), [GEMS Online Exam](#), [GEMS Pilot Type](#), [GEMS PPL](#) and [GEMS FCL](#).

