



the **Comprehensive**
e-Learning Platform for
the **K-12 Educational Community...**



Integrated Technology Group

Empowering People through Technology...

www.itgamerica.com





BACKGROUND >>

Education:} **ed·u·ca·tion**

a) the action or *process* of educating or of being educated; **b)** the *knowledge* or *skill* obtained or developed by a *learning process*; **c)** an instructive or enlightening *experience*; **d)** the *gradual process* of *acquiring knowledge*; **e)** *knowledge* acquired by *learning* and *instruction*;

Education involves teaching and learning at all levels. It is an intricate and critical human process bringing together multiple parties and stakeholders: Students are learners, with individual strengths and needs that must be understood. Teachers teach and require the proper tools to support their role as educators, but teachers must continually learn as well. Administrators need the critical resources and tools to assist them in more-effective decision making. Parents need to follow up on their children's progress, while learning communities need to communicate and collaborate to be effective.

Learning today takes place in schools, at homes and in the workplace. As our global society becomes more and more competitive, knowledge becomes a vital tool for survival, and *the* base upon which growing and successful societies must be built.

While different societies follow different educational models, the sharing of knowledge becomes increasingly important as our world grows closer together and becomes more open to new ways of learning.

ITG fully understands the complex challenges facing the educational community and believes the model for teaching and learning in the 21st century is best achieved through EduWave®, a comprehensive e-learning platform that specifically addresses the unique needs of today's educators and learners. EduWave is an instructional, content and learning-management solution integrating all aspects of the educational cycle. Once installed, EduWave will serve as the school-system or institution's electronic infrastructure, ultimately fostering an interactive, global network and universal educational resource.

Based on international open standards, EduWave is a flexible customizable solution that allows educational bodies to shape their learning process while sharing vast knowledge and resources. EduWave is also a remarkably scalable solution, and is the only e-learning platform worldwide that accommodates full countrywide deployment, deftly handling millions of learners and users with ease.





EDUWAVE[®] SIGNIFICANT AWARDS >>

EduWave World renowned awards:



A UN World Summit Award Winner – selected over 800 products from 135 countries!



Microsoft – Ingenuity Point "people's Choice" Worldwide Winner!

Microsoft Corporation announced on Monday, March 31, 2008 – EduWave earned 1st place in the prestigious Microsoft Ingenuity Point Contest, "People's Choice Award" 2008!

ITG has taken yet another giant leap towards clear proof and recognition placing Number one among 128 international contestants.



A COMPREHENSIVE SOLUTION >>

EduWave® is a comprehensive user-friendly e-Learning Platform that includes a Learning Management System (LMS), a Content Management System (CMS), an Instructional Management System (IMS), and a Student Information/Management System (SIS)/(SMS) seamlessly integrated into one solution, allowing related educational elements to work together in the most effective manner possible.

EduWave offers new and compelling educational tools - allowing stakeholders to engage in virtually every aspect of the teaching and learning process...

Students...

A number of comprehensive tools and learning resources are provided through EduWave, helping students track their progress, improve their performance, and enjoy their total learning experience. Using EduWave, students can access their learning material and textbooks from any computer, anytime and from anywhere – all personalized and in rich media format. Students may interact with their teachers and with each other through multiple communication and collaboration tools such as e-mail, discussion forums and group study-sessions. They can also view their homework assignments, grades, school calendar and even take online tests from anywhere the internet is accessible.

Teachers...

The administrative and educational tools provided in EduWave help teachers better manage and utilize their time while increasing efficiency in the classroom. As important time is freed up, increased innovation and creativity is encouraged and facilitated. To further support the role of the educator, EduWave provides an extensive collection of instructional design, authoring, and professional development tools and resources. In addition to the access and management of a wide variety of learning content and curricula, teachers can also create their own teaching material with ease. Through EduWave, teachers are able to communicate complex ideas and concepts as they can quickly author and publish customized learning content to suit their students' specific needs. Online study sessions bring highly-effective additional guidance and support. With EduWave's assessment tools, teachers are able to measure and monitor individual student performance and progress, while they design and conduct online tests, assign homework and issue students' grades automatically. Finally, through e-mail and special discussion forums, teachers also have the ability to quickly communicate their views and concerns directly to their students, colleagues, administration and parents.

Parents...

With EduWave, parents can keep track of their children's progress and development by accessing their assignments, grades, attendance, and even their school activities. Through e-mail communication, parents may also interact and follow-up with teachers on a personal level.

Administrators...

EduWave provides administrators with tools to help them develop and maintain comprehensive and accurate information, monitor development and performance, and plan or adjust resources. This results in decisions that are more effective. Through EduWave, administrators are able to quickly develop and manage related data files for students, parents and teachers – at the school, district or State level. They can also authorize and control access to users, while scheduling and managing teachers, classes, timetables and school events with ease. In addition, through EduWave email, administrators can communicate directly with staff and teachers.

The Community...

By integrating technology, innovation, and advanced educational practices, EduWave sets the stage to foster innovation, creativity and the building of a true collaborative learning community. It is a comprehensive tool bringing real results from the educational sector to enhance economic productivity.



CONTENT MANAGEMENT & DELIVERY >>

Curricula/Content Management & Delivery:

EduWave® is SCORM compliant and is based on learning objects. Content delivered through EduWave is shareable, re-usable, and delivered to learners according to individual needs and relevance. The solution can deliver content in BookZero™ and in rich media formats. EduWave is also based on Learning Outcomes, an important element for maximum achievement of effective e-learning results.

>> Learning Objects Management System

This system allows the teacher to import and compile learning objects into a collective pool for retrieval and use within the "virtual book" manuscript-building process. Learning objects may be delivered through internet, multimedia, or plain-text formats, supplying users with a rich collection of material for the creation of valuable manuscripts in BookZero format.

>> Virtual Book Management System

This system allows administrators and teachers to create and compile "virtual" or electronic books to be published for learners. Each book is represented through an easy-to-build hierarchical table of contents, and Virtual Books may be developed using the EduWave special authoring tool. EduWave "Author" allows for great innovation and imagination in the enhancement of materials, which of course are only released after passing through a specific workflow approval process based on the institution's policy.

>> Content/Curricula Management System

This system allows administrators & teachers to manage curricula and assign content to its respective related category in terms of subject, grade level and other details. When signing onto EduWave, courses are automatically displayed on each user's home page, based on the user ID and specifics. Because EduWave promotes life-long learning for everyone, special content areas are available to all EduWave users – including teachers, administrators and others. In addition, if permitted by the institution, students are able to view other levels of curriculum and content, meaning that access is not limited to their own grade-level material.

>> E-Content & "BookZero™"

Through EduWave, users are able to access any available content online, whether it is simple text material or rich media content that enhances the learning experience in the form of movies, animations or special simulations.

SCORM-conformant content may be developed using the EduWave Author, or purchased as needed from third party vendors and content providers. Accordingly, the chosen solution enables instructors to build courses for students using a vast library "pool" of content and subject-related material.

EduWave supports various types of content, including BookZero and rich-media formats. The BookZero concept developed by ITG is a phased-in approach for content development. It is based on standard textbooks, but presented in electronic format with added functionalities (a third dimension) that allow links to other supplementary content in various media including images, videos, animation and simulation. BookZero provides searchable text and other key functions made available to further assist in the learning process. These include personal annotations and bookmarks, dictionary, and EduPedia™, which is designed to provide enriched information for selected words and terms.



COMMUNICATION & COLLABORATION >>

Communication, Collaboration & Learning Community Building Tools:

EduWave® is a fully-interactive solution where all users may interact, communicate and collaborate through a wide variety of methods, including e-mail, discussion forums, online study sessions, and group sessions.

The following communication and collaboration tools are provided by EduWave:

>> EduMail™

A fully-functional industry-standard e-mail system encouraging controlled communication among all EduWave users including students, teachers, administrators, and parents. Users can send and receive e-mails with attachments and enjoy additional special functionalities.

>> Discussion Forums

Through secure access codes, EduWave users can participate in a multi-subject and multi-threaded online forum enabling lively discussion of educational-related topics. This communication/collaboration tool is a main driver in building active learning communities. Among many unique features, the forum engine also provides an administration console, word filter, and threads classification.

>> EduSession™

EduSessions play a critical role in curricular and extra-curricular development. Using this powerful tool, teachers have the ability to enhance learning through online group study sessions. Participants are able to navigate e-content while they view, listen to and directly interact with the teacher. Designed to work remotely over the internet/intranet, EduSessions enable teachers and students to enjoy powerful educational sessions with audio/video conferencing regardless of their physical location. EduSession includes chatting, whiteboard, collaborative browsing, live study sessions (sessions are also recordable), audio/video conferencing, content browsing, and online surveys – all within a secure and monitored environment.

>> Groups

Through this powerful facility, students can learn and collaborate in the form of groups. Several added functions within this feature are also provided, including among many others, private discussion forums, e-mails, and EduSessions.



ASSESSMENT & TRACKING >>

Assessment, Monitoring and Tracking Tools:

EduWave® includes powerful, easy-to-use assessment, monitoring and tracking tools allowing teachers and students to evaluate progress and enhance learning.

>> Test/Assessment Management System

This includes an assessment-creation wizard allowing teachers to quickly create and publish high-quality assessments that can provide important and necessary indicators for decision makers. In creating assessments aligned to specific digital content or for general purpose, this system plays a vital role in the education process. The system is also compatible with SmartTeacher™ and supports various question types including multiple-choice, true/false, matching, sorting, fill-in-the-blanks, and others. Assessments may be randomly generated, categorized based on selected criteria, or presented in textual, graphical, and video formats. They may be used as graded tests and quizzes, or for self assessment. Assessment results may be automatically transferred to the student grade book as needed.

>> Assignments

As the ideal tool for the creation, management, and online delivery of student assignments and essay-type assessments, assignments can be sent either to individuals or to groups of learners. The process covers the whole cycle of sending, receiving, reviewing and grading assigned material with the possibility of adding necessary notes and remarks as required. Assignment results may also be automatically registered in the GradeBook System.

>> GradeBook System

Based on policies applied at the institution, this system permits authorized teachers and administrators to enter, manage, analyze and publish grades online. Grades may be entered manually into the GradeBook System, or transferred automatically from the Assessment Management System.

>> Tracking Tools

By tracking related statistics such as time spent online, navigation patterns and accessed content, instructors can carefully follow students' activities and resulting performance. This tool is extremely helpful in assessing individual or collective progress and performance relative to navigational activities and learning habits.

>> SmartTeacher™

SmartTeacher is a unique idea and a special set of tools provided within EduWave. It is provided as a way to enable teachers and students to closely monitor individual learning needs and problem areas, while ultimately enhancing and improving results. SmartTeacher allows users to build and distribute selective educational material, monitor performance, and adjust learning levels according to specific criteria and user needs. SmartTeacher functions within several EduWave modules including assessments and tracking, content management, and Professional Development.



STUDENT INFORMATION SYSTEM >>

Student Information/Management System (SIS)/(SMS):

EduWave® provides a comprehensive and highly-scalable countrywide management and distribution system that incorporates districts, schools, and the supported educational community. Through a hierarchical management of the educational body (schools and districts), as well as the overall educational model (grades, courses and streams), EduWave brings the ability to dynamically define the entire educational management and operating structure. Administrators and teachers may also track and report students' grades, attendance, and other data on any scale – from the individual level to entire states or countries.

>> Centralized Data Repository:

EduWave allows administrators to maintain important data concerning users in schools, districts, and all the way up to national levels - ensuring data standardization, quality, availability, and usability for vital decision support.

>> Hierarchical Management:

EduWave gives authorized administrators the ability to build the hierarchy and structure of their districts and related schools. Also, based upon authorization and hierarchical level, it allows for the assignment of administrators and resources to the various participating schools and departments, with generation of accompanying reports.

>> Reporting:

District Administrators can generate statistical reports for district schools, while EduWave also provides teachers and administrators with statistical and graphical analysis of student performance. This enables teachers to track performance by viewing such statistics as time spent online, content viewed and facilities used per student or per group of students, allowing them to adjust the learning levels as needed for achieving maximum learning results. Statistical reports also include attendance, assessments and grade reports.

>> Student Information:

Student enrollment, demographics, and other student-related information are fully managed through EduWave. EduWave also allows for parents to track their children's performance, behavior and grades, by daily viewing of their marks, attendance, schedule, and teacher comments.

A complete student scheduling system is an integral part of EduWave. This includes such things as period management, automatic allocation, scheduling, and class management. This may be integrated with facilities management, including such details as building and room information management, plus extra monitoring for student scheduling.

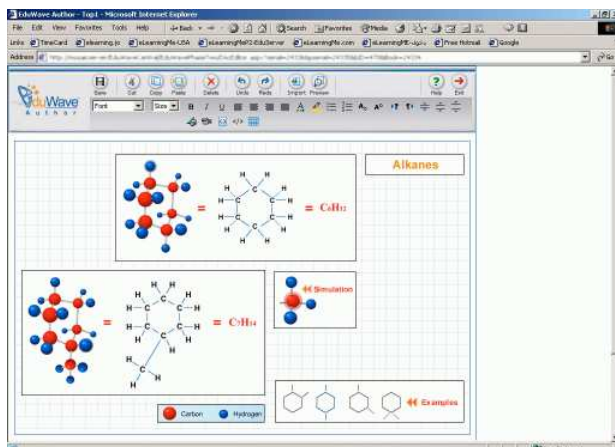
EduWave® Author is a SCORM-compliant authoring, auditing, and publishing tool. This unique easy-to-use tool is powerful and highly functional, enabling users to create and publish learning content that may be accessed later through the portal.

“WYSIWYG” Editor

EduWave Author is a “WYSIWYG” editor (What You See Is What You Get) where no HTML or programming knowledge is required for use. Using the Author, the user can create content directly, or simply drag and drop the desired object, creating a “learning object” (text, image, multimedia, etc.) linked directly to the desired learning material. Accordingly, a full manuscript may be authored for publishing and linked to the Virtual Book’s Table of Contents. The whole process is based on a workflow system where strict authorization is defined to create, audit and publish learning content.

Web-Ready

EduWave Author generates web-ready files for electronic publishing on the portal. No lengthy steps or difficult procedures are required.





OTHER FEATURES & BENEFITS >>

EduWave® is a multilingual, flexible and customizable solution based on "Centralized Deployment with Localized Functionalities". EduWave's robust architecture enables central administration, tracking, reporting and record-keeping while allowing for flexible management and localization of functionalities, content and learning resources. Its finely-tuned hybrid model eliminates the typical inefficiencies inherent in more-expensive multi-application solutions, while enabling school systems to produce and harness accurate data to impact learning on a much larger scale.

>> **User-friendly:**

EduWave is a user-friendly solution requiring only basic computer knowledge and minimal training to operate and use.

>> **Dynamic User Interface:**

Upon logging in, the EduWave Portal automatically builds a personalized interface and navigation menu based on the user type and ID. User specifics are displayed accordingly, including name, grade level, and related content, functions and navigation elements.

>> **Personal Tools:**

EduWave users are provided with a set of personal tools for efficient organization, and may be used to build their personal portfolios. These tools include:

- User Profiles: Dynamic user profiles contain personal data and user specifics, including schedules, reminders, notes, bookmarks, grades, academic progress, and teacher feedback, in addition to role switching between user types as applicable.
- Personal Storage Area: Users are provided with personal storage space limited only by a specified quota, allowing them to store their important files. Users also have access to a handy set of tools to create, upload, save, organize, and share files and documents.
- Calendar: A calendar resides with full functionality including personal and shared scheduling, reminders, tasks, etc.

>> **School Bulletin Board:**

A school-specific bulletin board and calendar permits the setting up and publishing of general school announcements, activities and events.

>> **Search Engine:**

EduWave includes a robust, multilevel and multilingual search engine bringing rich search capabilities into a wide variety of areas including content, learning objects, users, forums, etc.

>> **Notification tools:**

EduWave provides users the ability to send notifications through multiple channels including email, instant messaging and SMS.

>> **Reporting Tools:**

Through EduWave, users are able to generate statistical reports on multiple-user levels based on real, live data. (More-advanced features are also available through EduWave EMIS).

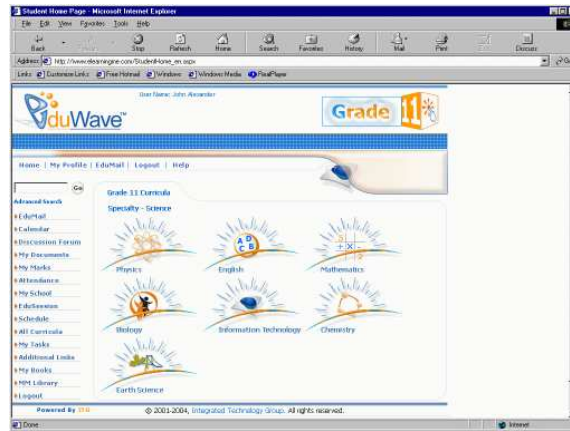
>> **Total Cost of Ownership:**

EduWave's unique design allows for effective utilization of related S/W and H/W. It also includes a number of built-in applications that result in reduced "Total Cost of Ownership".



TECHNICAL SPECIFICATIONS >>

EduWave® is a user-friendly, web-based solution based on international industry standards.



>> **Access:**

EduWave is a web-based solution, and may be accessed through universal browsers.

>> **Languages:**

EduWave is developed using "Unicode". It is a multilingual solution, currently available in Arabic and English Interfaces.

>> **Scalability & Expandability:**

EduWave is a scalable and expandable solution. It is the only solution worldwide designed to serve countrywide deployments and handle millions of users.

>> **Interoperability & Standards:**

EduWave is based on open-standards, it is XML-based, SCORM certified, and integrates with third-party SCORM conformant content. The EduWave solution is able to seamlessly integrate with third-party related systems through SIF or published API's as applicable.

>> **Security:**

EduWave utilizes advanced measures to ensure full security of data and content.



OTHER SOLUTIONS FROM ITG >>

Other related solutions provided by ITG:

The following solutions - also available from ITG - integrate seamlessly with EduWave®:

>> **EduWave® (EMIS):**

The EduWave Educational Management Information System serves the management level of Educational Institutions, providing reports with online access to actual performance and historical records. It acts as the core for planning, control, and Education Decision Support Systems (EDDS). To support the decision-making process on various educational and administrative levels, EduWave EMIS channels all required data in its raw and aggregated form for appropriate data mining. This fully supports the decision-making process on various educational and administrative levels. EduWave EMIS efficiently facilitates the path to the EDSS buildup. To produce the required statistical output and dynamic KPI's needed by EDSS, various-level forms and fixed reports as well as more dynamic "power query" reporting mechanisms are provided.

>> **WaveERP®:**

A complete Enterprise Resource Planning solution may be built into EduWave deployments. This includes financial, HR, payroll, personnel, inventory and other important administrative functions. This integration serves to seamlessly combine both the educational and administrative needs of an educational institution.

>> **e-Content Development Services:**

Integrated Technology Group offers extensive and exemplary e-content development services to its clients through its specialized subsidiary JAID Productions. Content produced by JAID is SCORM Compliant, is developed in rich media format, and is built to the highest industry and instructional-design standards.

>> **EduWave® (Higher-Ed):**

EduWave Higher-Ed is another top-quality edition of EduWave specifically designed for higher-education institutions.

ABOUT Integrated Technology Group:

Established in Jordan in 1989, Integrated Technology Group (ITG) operates through three subsidiaries; EPOCH Technologies, JAID Productions and TriAx Automation, each optimizing its resources while delivering technologies and solutions to the Global Markets in the areas of software development, new-media/multimedia solutions, and process automation respectively. ITG's flagship areas of expertise are:

- E-Learning Solutions: EduWave®, and e-Content Development.
- ERP Solutions: for Government (Government Resource Planning - GRP), Manufacturing, and Dealership Management.

The Firm's strength lies in its vision, which hinges on technological innovations and the ability to identify potential business frontiers well ahead of competition.