SYS-ED Courseware
Courseware Library

- The SYS-ED courseware library spans the onset of modern data processing.
- It has been developed by technologist entrepreneurs, IT consultants, textbook authors, and salaried staff.
- Content is managed by technical editors with multidisciplinary skillsets in information technology, publishing in academia, and degrees in computer science, business administration, and management.
- The principles of adult learning are applied to the content, interpreting and translating subject matter into performance objectives, narrative descriptions, diagrams, and industry- and client-specific examples, and workshop objectives.
The courseware utilizes a variety of presentation formats - text, tables, bullet point, code snippets - suitable for use in classroom instruction and distance- and e-learning formats.

- The courseware library has been augmented, revised, and maintained.
- It is highly valued in information technology; especially in areas where there is a scarcity of up to date industry standard textbooks.
Courseware for Teaching - 2

- The base courseware utilized in a SYS-ED course is comprised of:
  - Table of Contents - Summary
  - Copyright Acknowledgement
  - Table of Contents - Detailed
  - Modular Chapters and Lessons
  - Bibliography
  - Exercises
  - Index

- The courseware also can be adjusted for updating, extending, and integration with industry standard textbooks.
Knowledge Base: Compilation and Assessment

- Content in the knowledge base is derived from the compilation and independent assessment of the accuracy of source information and data from:
  - Report journalism
  - Textbooks
  - Open standards committee websites
  - Open source software
  - Trial software
  - Documentation in the public domain
- Content selectively is added to SYS-ED brand and technology partner courseware and training aids.
Mainframe: Courseware for Teaching - 1

- A cadre of consultants were involved in first generation coding and debugging of mainframe programming languages - COBOL, Assembler Language, PL/1, Fortran, RPG - and implementation of system software - VSAM, IMS, CICS, and DB2 - and taught courses for SYS-ED, have contributed to the courseware development.
  - Design specifications
  - Interpretation of documentation
  - Sample programs
  - Skeleton programs
  - Tailored exercises
  - Instructor notes
Mainframe: Courseware for Teaching - 2

- The courseware incorporates industry standard content and consultancy derived techniques for:
  - configuring and administering IBM operating systems.
  - efficiently using IBM and third party tools and utilities.
  - designing, coding, and debugging applications written in legacy programming languages.
  - installing, tailoring, and optimizing IBM system software.
Mainframe: Courseware for Teaching - 3

- Mainframe courseware can be reviewed at the

- Courseware is updated prior to use.
First Generation Experience: OSS: Open Source Software

- Industry experts agree that the documentation available for supporting open source software does not provide an equivalent degree of clarity and completeness in relation to its commercial software counterparts.
- SYS-ED courseware and training aids have been designed to address this shortcoming and provide value-added quality.
Principals at SYS-ED install and review software distributed under the GPL: General Public License and utilize it to create and update courseware, examples, and exercises.

The client selects the sample programs, training aids, and exercises for a tailored course from the SYS-ED courseware library.

Custom courseware and tailored Linux, UNIX, Java, and XML training aids also can be developed.

At the client discretion, pre and post course validation assessment can be utilized.
SYS-ED courseware and training aids incorporate industry standard content and consultancy derived techniques for:

- Linux and UNIX-variant configuration, internetworking, and administrative scripting.
- web server configuration, scripting, and performance optimization.
- designing, coding, and debugging Java applications and using development tools.
- mobile device programming on Android smartphones and mobile devices.
- XML integration with databases, web servers, and Java.
Free and Open Source: Courseware for Teaching

- Freeware and open source software courseware can be reviewed with this url:

- Courseware is updated prior to use.
Courseware and Training Aids

- Sample courseware can be reviewed at Courseware as Learning Center:
  - www.sysed.com/courseware_for_teaching.asp
    - z/OS JCL
      www.computeredtech.com/prg_content/jcl/main.asp
    - PL/1
      www.computeredtech.com/prg_content/pl1/main.asp
NRV - Nationally Recognized Vendor

- SYS-ED welcomes the opportunity to apply the standards of the New York State Department of Education - Bureau of Proprietary School Supervision to our courseware and training services and regulate our business operations.
- As part of this strategy, SYS-ED will be developing courseware and lesson plans where there is no NRV: Nationally Recognized Curriculum - mainframe, open source software, and hybrid areas of information technology.
David Shapiro, 35+ years experience in information technology, has developed and edited courseware in conjunction with these consultants, textbook authors, and technologists.

- Shaku Atre/Atre International Consultants, IMS, IDMS, DB2, and ADABAS.
- Michael Haupt, z/OS JCL.
- Pacifico Lim, CICS, COBOL, DB2, and IBM mainframe systems software.
- Andy Novick, Visual Basic and structured analysis / design.
- Jeri Roberts-Appel, computer applications.
David Silverberg

David Silverberg, 40+ years experience in information technology, wrote a highly respected DB2 Systems Performance book as part of the Jay Ranade Series for McGraw-Hill.

- He has developed courseware in instructor-led, distance-learning, and web-based presentation of information technology subject matter.
- Developed the content for IBM MQ (WebSphere MQ) courseware.
- Has collaborated with David Shapiro in creating, editing, and updating the SYS-ED courseware library.