eSyst Implementation Webinar Series Part One: DC/AC Circuits

Maricopa Advanced Technology Education Center NSF ATE Grant #0702753





eSyst is a part of MATEC, a member of the Division of Academic and Student Affairs at the Maricopa Community Colleges.



Funded, in part, by a grant from the National Science Foundation. DUE- 0702753



Webinar Procedures

(C) Direct Messaging

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eSyst Webinar Presenters



Tom McGlew: Esyst Project Manager



eSyst Webinar Agenda

- Overview of the eSyst Project
- Review of the eSyst Implementation Guide
- Review of eSyst DC/AC Systems Resources
- Where to Find Resources? Web site tour
- Survey and Final Questions from Participants



Project Development Team Members

Mike Lesiecki – Principal Investigator Lou Frenzel - Project Lead Subject Matter Expert Roy Brixen – Project Developer Wayne Phillips – Project Developer Jesus Casas – Project Developer Ui Luu – Project Developer Bassam Matar – Project Developer James Hardison – M.I.T. Project Developer Tom McGlew – Project Development Manager Mark Viquesney – Instructional Developer



eSyst Project Overview



So what has changed and what is a System?

HOW TO USE



SONY TR-86

To switch on

Turn the Valume Cantral Knob ① in the direction shown by the red arrow. Power is switched on with a slight click.

To select stations

Desired station is tuned by turning the Tuning Knob (). The tuned frequency is Indicated by the Dial Pointer (3).

To adjust volume

As the Knob () is turned in the direction shown by the rad arrow, sound volume increases. However, excessive volume not only distorts sound quality, but makes the battery life shorter.

To switch off

Turn the Volume Control Knob () in the opposite direction to the red arrow until "OFF" appears in the small window ().

Then to Now

"POCKETABLE"

To use earphone

By plugging corphone plug into the Earphone Jack (3), the speaker is cut off and you can enjay quiet listening without disturbing others.

Important

When not in use for long periods, in is recommended that the set is kept in a dry and coal place with batterries removed.

8 SONY transistors





Now to the future

esyst

eSyst Home Media Animation

http://esyst.org/Courses/Home_Theater/animation.html



Impact to Graduate Technicians

- Major implications for technicians.
 - Few if any engineering technician jobs.
 - Less troubleshooting to the component level.
 - More system troubleshooting, measurement and test.

Results in:

Legacy programs being out of touch with reality.



The Legacy Bottom Up Approach

Equipment, applications & jobs

Components & circuits

Math/Circuit theory Start Here



The Top-Down Approach

Applications/Equipment Jobs and duties. Start Here

Circuits/Components (as needed)

Math/Circuit theory (as needed)



A Solution: eSyst

- Project conceived to address the systems view of electronics and industry's current needs.
- Develop new systems resources.
- Encourage colleges to update programs.



Electronics Courses Identified by eSyst Project Team

- DC and AC Circuits Analysis
- Solid State Devices and Circuits
- Digital Logic and Circuits
- Microprocessor Applications inc. microcontrollers
- Data Acquisition and Measurement
- Communications



Project Status

- Project has resources for the following on eSyst.org:
 - DC/AC
 - Solid State Fundamentals
 - Digital Logic
 - iLabs Application Phase One available online Phase Two is under testing
 - Microprocessor Applications
 - Data Acquisition underdevelopment
 - Communications underdevelopment



eSyst Implementation Guide

Implementation Guide: Project Information

- eSyst Drive for Revision and Project Goals
- eSyst Approach to Electronics Systems
- Definition of an Electronics System
- Technicians and Systems Applications
- eSyst Program recommendations
- eSyst Course recommendations
- M.I.T. iLabs eSyst Project description



eSyst Implementation Guide

Implementation Guide: Course Information

- Traditional View versus Systems View
- General Course Recommendation
 - Deemphasized Topics
 - New Systems Topics
 - General Lab Recommendations
 - Textbook Recommendations
- Student Learning Outcomes
- Systems Course Outlines
- Systems Instructional materials

Web Site Tour

Demonstrate eSyst web site:

- Implementation Guide for DC/AC Circuits
- DC/AC Systems Lab Activities
- Online Evaluation forms
- eSyst Videos

www.esyst.org



Questions?



Webinar Recordings

To access this recording, visit www.matecnetworks.org, Keyword Search: "DC/AC Implementation"



eSyst Upcoming Webinars

October 16: Solid State Devices November 13: Digital Fundamentals

Visit www.esyst.org for more details about these and upcoming webinars.



NetWorks Upcoming Webinars

October 9: Sustaining Technical Programs November 13: Nanotechnology in the Classroom

Visit www.matecnetworks.org for more details about these and upcoming webinars.



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Thank you for attending

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