

A Quick Guide to Synopsys University Program Resources

Courseware & SolvNetPlus

University Program, Synopsys Taiwan May 2021

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Contents

- Membership Benefit
- Teaching Resources (courseware, generic libraries, PDKs)
- Knowledge Base (SolvNetPlus)



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Membership Benefits



IC Design and EDA Curriculum:

- Full Semester Courses 80+ courses for Bachelor and Master programs
- Workshops/Lectures 30 courses
- Short Lectures/Labs 28 courses

Teaching Support:

- 32/28nm & 90nm Generic Libraries and iPDK's
- Generic Memory Compiler



Access to SolvNetPlus for Synopsys knowledge base:

- Document contains product release note, installation guide, user guide & reference manual
- **Training** contains on-line videos for short trainings, CES training courses, and product update trainings
- Search provides an advanced search engine to retrieve information from various sources, such as documentation, articles, training, and so on.

^{*}Requires SolvNetPlus account to access above-mentioned resources.

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Teaching Resources



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- **Generic Memory Compiler**

Access through:

www.synopsys.com/community/university-program.html

SYNOPSYS°

SILICON DESIGN & VERIFICATION SILICON IP SOFTWARE INTEGRITY ABOUT US

/ Community ▼ / University Program ▼

Electronic Design University Program



Education for Smart, Secure Everything

"Access to Synopsys' leading-edge design software enables our engineering students to learn in the same environment as their industry counterparts, increasing the value of the student experience and research at Purdue University." - Dr. Mark C. Johnson, Purdue University

free online resource for

developers of embedded

Visit the DesignWare ARC product store to order your development kits and start designing today!

The embARC Community is a

applications for ARC processors.

MEMBERS ONLY LOG IN

Access curricula and resource downloads (SolvNetPlus ID and password required)

Curriculum Programs

curriculum, and more.

Courseware for Teaching IC Design with Synopsys Tools.

Learn More

Teaching Resources

Synopsys Generic Libraries, PDKs, and Memory Compiler

Through our Electronic Design University Program we aim to inspire and foster the world's next generation

tools and technology needed to prepare highly-skilled graduates ready to work in the world of Smart, Secure

Everything. Membership in the program includes access to leading-edge EDA software, technical support,

of technologists and innovators by providing academic and research institutions with access to the EDA

Learn More

Support & Training

Technical Support and Tool Training for Universities

Learn More

Contact Us

Ask questions, request information, and inquire about membership in the Electronic Design Academic Program

Teaching Resources

IC Design and EDA Curriculum



IC Design Courses

Bachelor

- Analog and Mixed-Signal IC Physical Design
- Analog Integrated Circuits
- Computer Architecture and Engineering
- Digital Integrated Circuits
- IC Design Flow
- IC Design Introduction
- IC Testing

- IC Synthesis and Optimization
- Introduction to Microelectronic Circuits
- IC Synthesis and Optimization
- Introduction to Semiconductor Devices
- Linear Algebra
- Logic Design
- Microprocessor Systems

- Numerical Methods
- Scripting Languages for Beginners
- Static Timing Analysis
- Synthesis and Optimization of Digital Integrated Circuits
- Technical Writing

Master

- Analog Modeling with Verilog-A
- ARC Processor-Based Embedded Programming
- Complex Functions
- Crosstalk and Noise
- Design for Test
- Design of Embedded Systems
- Design of Special I/O's
- Digital Signal Processing

- EDA Tools
- FPGA Prototyping
- IC Design for Thermal Issues
- IO Design
- Low Power Design
- Low Power Design with Synopsys 32/28nm Generic Library
- Mixed-Signal IC Design

- Modeling and Optimization of IC Interconnects
- Rad-hard IC Design
- RF IC Design
- Synopsys EDA Tool Flow for Front-End Digital IC Design
- Synopsys EDA Tool Flow for Back-End Digital IC Design
- Thermal and Electro-Thermal Simulation: Achievements and Trends

Lectures

Short

Workshops

Short Lectures and Workshops

- Basic Perl Programming
- Characterization with SiliconSmart
- Circuit Simulation Transient Analysis
- Compiler Optimization and Code Generation
- Computer Networks
- Digital Design with Verilog
- Digital System Design and Simulation with VHDL
- Embedded Systems Design
- How to Create an Interoperable PDK
- IC Fabrication

- IC Simulation Theory
- Introduction to RF Communication
- Introduction to Verilog HDL
- Low Power Design w/Synopsys 32/28nm Generic Library
- Low Power Methodology Manual for 32/28nm
- Operational Research
- Optimization Methods
- Physical Verification Russet Development
- Power-Performance Optimization of Digital Circuits
- Process Variation Aware Design

- RF Circuits
- Scripting Languages
- Sequential Elements
- Signal and Power Integrity
- Statistical Techniques for Timing Analysis
- Subthreshold Design and Implementation
- Synthesizing OpenSPARC with 32/28nm EDK
- Techniques for Circuit Simulation
- User Interface Design
- Verification Methodology for Low Power

Advanced Design of Digital Circuits for Specific Applications

- ASIC Design Flow Tutorial Based on Synopsys 32/28nm Library
- ASIC Design Flow Tutorial Based on Synopsys 90nm Library
- Chip Design
- Computer Arithmetic Applied to High-Performance Cryptography
- Design for Testability

- Full Custom IC Design Flow with Synopsys Custom Tools
- Project Management
- Software Methodology Module for Custom Designer
- Synopsys Design Flow Tutorial
- Synopsys IC Design Flow Based on 90nm Generic Library

- SystemVerilog Verification Tutorial
- TCAD Course
- TCAD for VLSI Design
- TCAD Quick Start Guide
- TCAD Short Course
- Universal Verification Methodology

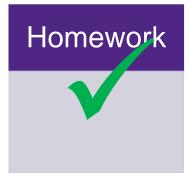
Full Semester Courses

- Topics cover all aspects of IC/SoC design
- Courseware for Bachelor and Master level programs
- Full-semester courses contain ~15 weeks of material and include the following components













Teaching Resources

Teaching Support (Generic Libraries, PDKs, Generic Memory Compiler)



Generic Libraries (EDK)

- 32/28nm and 90nm
- Enables students to master advanced design methods using the latest Synopsys EDA tools
- Includes:

Digital Standard Cell Library I/O Special Cell Library Embedded Memories

Phase Locked Loop Low Power Memories Reference Designs

Used by Synopsys for:

Curricula Development

To support development of laboratory works and course projects.

Customer Education

To train customers with Leon3 and ORCA processors' design.

Global Technical Services

To train internal staff and customers on Synopsys tools and low power flows.

Application Consultants

To develop and test sample designs and Reference Methodology scripts.

Interoperable Process Design Kits (iPDKs)

- 32/28nm and 90nm
- Enables students to master AMS/Custom design with the Synopsys custom implementation tool suite
- Includes:

Technology Files

Physical Verification Files

Parasitic Extraction
Files

HSPICE Models

Symbol Library and Python PCells

Callback Scripts

Embedded Memories

Setup Files

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Global Technical Services

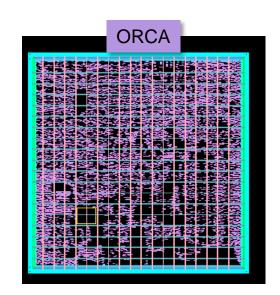
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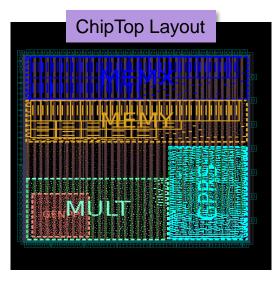
Application Consultants

To develop and test sample designs and Reference Methodology scripts.

Reference Designs Supported by Synopsys EDKs

- DesignWare® ARC 600 Academic Core 32-bit RISC processor core optimized for embedded applications and DSP tasks
- ARM® Cortex® M0 DesignStart™ Processor Entry-level configuration of ARM Cortex-M0 microprocessor¹
- OpenSPARC T1 64-bit multicore processor²
- **LEON3** 32-bit embedded processor²
- Sample Processor Designs included in EDK
 - ORCA for timing analysis
 - ChipTop for low power design
 - 1. Available through ARM DesignStart for Processor IP portal
 - 2. Available via GNU General Public License

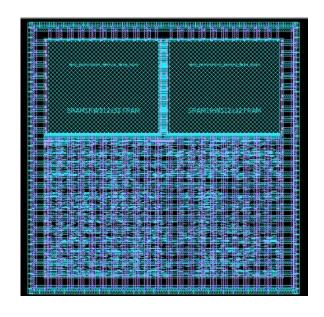




DesignWare ARC 600 Processor Design

- Synthesis scripts optimized for 32/28nm EDK that can be used to easily redesign the academic version of the ARC 600 processor
- Synopsys curriculum for the ARC 600
 - IC Synthesis Based on DesignWare ARC 600 Core, includes:
 - Lecture slides
 - Covers ARC 600 details and EDA tool use
 - Laboratory works
 - Step-by-step guide of the ARC 600 design process

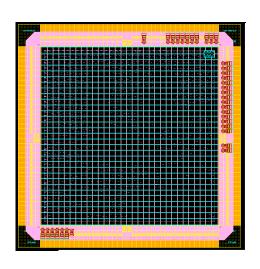
Apply in Members Only for access to the DesignWare ARC 600 Academic Core: https://www.synopsys.com/apps/protected/university/members.html



ARM Cortex-M0 DesignStart Processor Design

- Complete Synthesizable Solution
 - Pre-configured Verilog netlist derived from commercial Cortex-M0 processor
 - Simple testbench
 - Example test code
- Scripts to implement the ARM Cortex-M0 DesignStart design using Synopsys 32/28nm EDK and EDA tools
- Synopsys curriculum for the ARM Cortex-M0
 - IC Synthesis Based on ARM Cortex-M0 DesignStart Processor

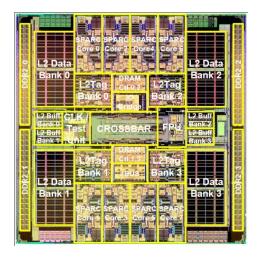
Download from ARM DesignStart for Processor IP portal: http://arm.com/products/processors/designstart-processor-ip

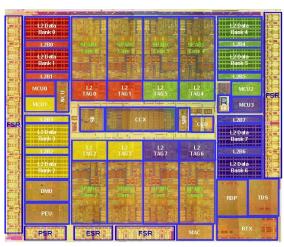


OpenSPARC Processor Design

- Scripts to enable OpenSPARC design using Synopsys 32/28nm EDK and Design Compiler
- Implemented low power design techniques
- Synopsys curriculum for OpenSPARC
 - Computer Architecture
 - Includes:
 - Physical design scripts for IC Compiler
 - Scripts to enable small block reuse for educational purposes
 - Various lab projects based on small blocks

Download OpenSPARC: http://www.opensparc.net





Synopsys Generic Memory Compiler

- Configurable software that automatically generates static RAM circuits of different types and sizes with all required deliverables
- Generate custom memory instances for educational ICs
- Designed for use with Synopsys EDKs and EDA tools
- Optimized for the Synopsys Digital Design Flow
- Supports multiple technologies (90nm, 32/28nm, etc.)

User interface

- Command line
- GUI

Supported memory types

- 1 port SRAM
- 2 port SRAM
- 1 port Low Power SRAM
- 2 port Low Power SRAM

"Using the Synopsys Generic Memory Compiler in our complex processor for DSP application was a **great time-saving tool**. It helped the students generate the SRAM they wanted in a snap, saving them critical time to concentrate on the rest of the complex design."

Dr. Maged Ghoneima, American University in Cairo

Get started w/ Teaching Resources

Link: www.synopsys.com/community/university-program.html



01 Go to Electronic University Program website

Select the Teaching Resources that you need, then click on "Members Only website".

Curriculum Link: www.synopsys.com/community/university-program.html

Synopsys provides universities with access to comprehensive curricula for Bachelor and Master Programs in IC design and EDA development.

Each full-semester course contains 15 weeks of material including syllabus, lectures, labs, homework and exams. Synopsys tools are applied in the labs for a thorough and practical understanding of theoretical concepts introduced in each course. Professors at member universities may use these course materials to implement a new course or to supplement content in an existing course.

All coursewers described below may be downloaded from the Synopsys Electronic Design University

Program Members Only website (reclaims Solv Net ID and password). If your university is not yet a men
of the Synopsys Electronic Design University Program and you would like to apply, please contact us.

Master Degree Courses:

· Complex Functions

· Crosstalk and Noise

• Design of Special I/O's

· Digital VLSI Design

FPGA Prototyping

EDA Tools

• Digital Signal Processing

Design for Test

· Analog Modeling with Verilog-A

• Design of Embedded Systems

ARC Processor-Based Embedded Programming

Full Semester Courseware

VLSI Design Curriculum

Bachelor Degree Courses:

- · Analog and Mixed-Signal IC Physical Design
- · Analog Integrated Circuits
- Computer Architecture and Engineering
- Digital ASIC Design (NCSU)
- Digital Integrated Circuits
- IC Design Flow (RAU)
- IC Design Introduction
- IC Simulation Theory
- IC Testing
- Introduction to Logic Design (SU)
- Introduction to Microelectronic Circuits

The embARC Community is a free online resource for developers of embedded applications for ARC processors.

ARC DEVELOPMENT KITS

Visit the DesignWare ADC

product store to order your development kits and start designing today!

MEMBERS ONLY LOG IN

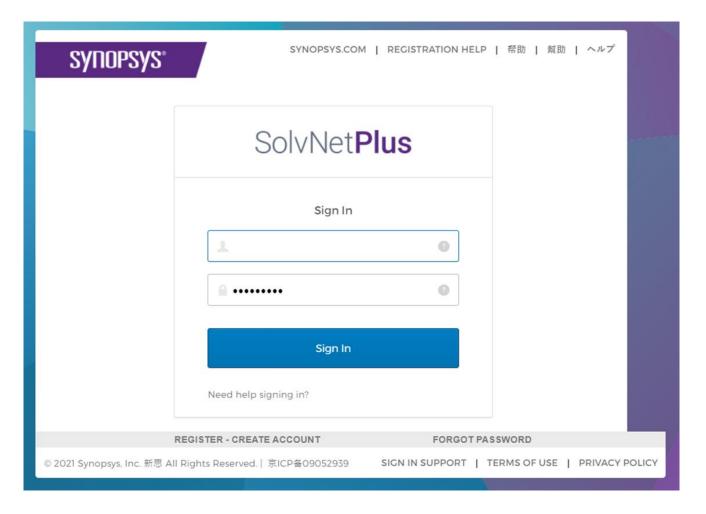
Access curricula and resource downloads (SolvNetPlus ID and password required)

Contact Us

Ask questions, request information, and inquire about membership in the Electronic Design Academic Program

- Requires a SolvNetPlus account to sign in.
- Please contact Synopsys
 University Program Taiwan
 (chunhsu@synopsys.com) for
 membership enquiry.

02 Log-in with Synopsys SolvNetPlus credential



https://www.synopsys.com/apps/protected/university/members.html

03 Insert course name in the search engine

Search by "Course Type"



Note: Use of the material downloaded from Members Only is subject to the terms and conditions of the End User License Agreement executed between your company and Synopsys. You can use the material at your site but you cannot distribute or publish it externally. Third party material located on this site is included with the permission of the owner (who retains all rights), and is provided solely for your convenience. Synopsys does not endorse and is not responsible for such third party content, and any use of these materials should be conducted only with the permission of the owner.

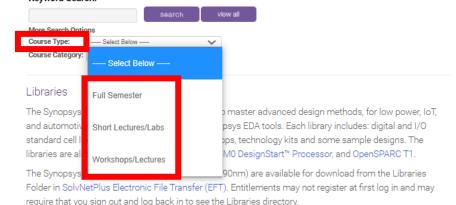
Go to: Curriculum | Libraries | PDKs | Memory Compiler | Processor IP

Curriculum

Synopsys provides universities with access to a comprehensive curriculum for Bachelor and Master Programs in microelectronic design and EDA development. Course materials can be used to implement a new course or to supplement content in an existing course. Search courses by keyword or course type to find and download courses quickly and easily.

Please report any errors or inconsistencies in these materials to our University Program team.

Keyword Search:



ARC EM STARTER KIT

The new ARC EM Starter Kit is now supported by the embARC Open Software Platform.

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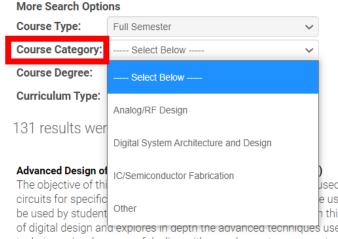
Course Type:

- 1. Full Semester
- 2. Short Lectures / Labs
- 3. Workshops / Lecturers

03 Insert course name in the search engine (cont.)

Search by "Course Category"

Example: Full Semester



Course Category:

- 1. Analog / RF Design
- 2. Digital System Architecture and Design
- 3. IC / Semiconductor Fabrication
- 4. Other

used in the development of digital integrated e used in the digital electronics market and will h this area. The course reviews basic concepts

of digital design and explores in depth the advanced techniques used by design professionals. These techniques involve ways of dealing with complex systems, ways to create faster systems, methodologies for design verification and evaluation of results. The course covers and compares the use of VHDL and Verilog, and the impact of coding style on final results. Note: This course can be used with permission from the 3rd party owner. All rights reserved.

> Lectures (18 MB)

Advanced Methods in Logic Synthesis and Equivalence Checking

The goal of the course is to study logic synthesis problem, logic optimization as well as advanced methods in synthesis. The course also focuses on logic design components and combinational and sequential equivalent checking.

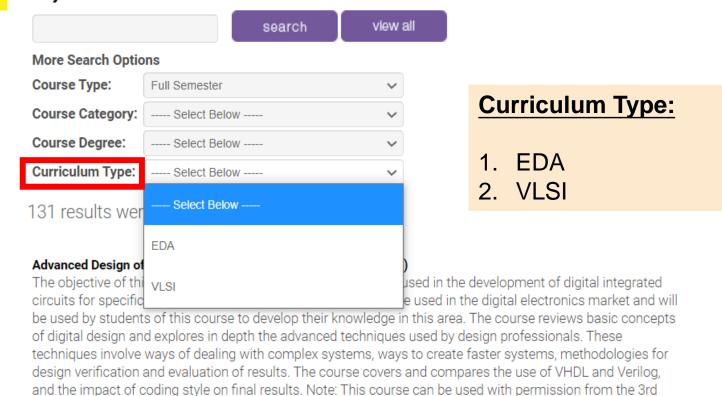
- > Syllabus (88.0 KB)
- > Lectures (3,135,241 bytes)
- > Labs (657 KB)
- > Homework (263 KB)
- > Labs & Homework (441 KB)

03 Insert course name in the search engine (cont.)

Search by "Curriculum Type"

Example: Full Semester

Keyword Search:



> Lectures (18 MB)

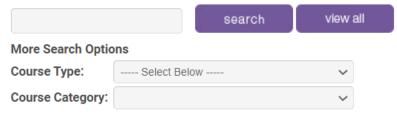
party owner. All rights reserved.

04 Access to the courseware

Start to download course syllabus, lecturer slides, labs or exams

Example: Full Semester

Keyword Search:



49 results were found under 'Full Semester' Course Type, 'VLSI' Curriculum Type.

Analog and Mixed-Signal IC Physical Design

This course covers the basics of IC design, custom design flows. The course mainly focuses on data of analog and mixed-signal IC physical design.

- > Syllabus (90 KB)
- > Lectures (4.6 MB)
- > Labs (1.6 MB)
- > Homework & Exams (244 KB)

Analog Integrated Circuits

The goal of the course is to study principles of design, analysis and simulation of analog integrated circuits. The course also focuses on variants, parameter improvement methods, parameters analysis of different basic analog circuits: differential and operational amplifiers, switched capacitor circuits, oscillators, phase looked

ver sources, etc.

> Syllabus (42 KB)
> Lectures (17 MB)
> Labs (12 MB)
> Project (663 KB)
> Homework & Exams (480 KB)

Course Contents:

- 1. Syllabus
- 2. Lectures
- 3. Labs
- 4. Project
- 5. Homework & Exams

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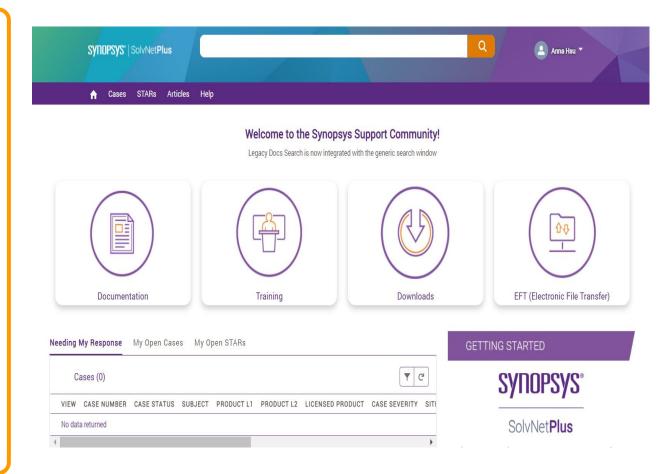


Knowledge Base



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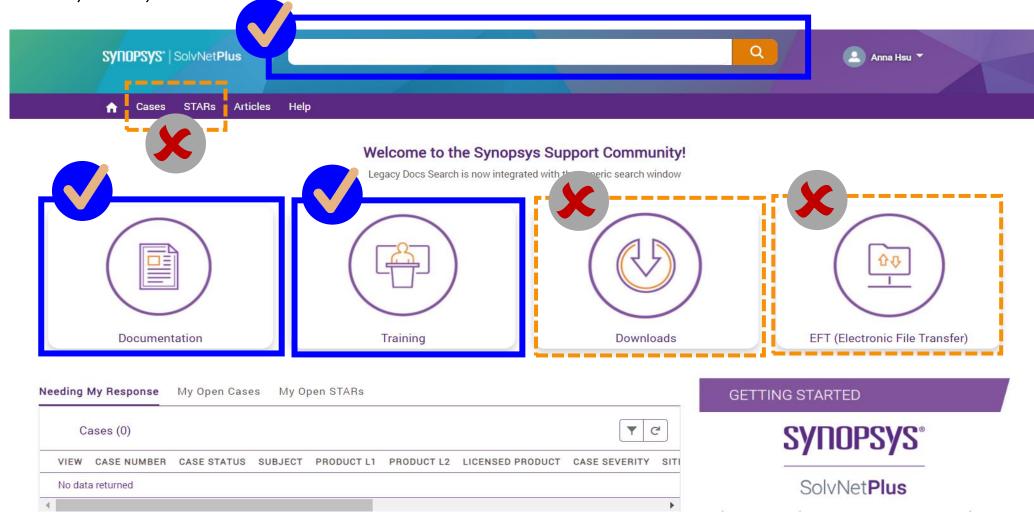
Knowledge Base

SolvNetPlus (Documentation, Training & Search)



Get Oriented with SolvNetPlus

University users can access to Documentation, Training & Search; but CANNOT use Download, EFT, Cases & STARs.

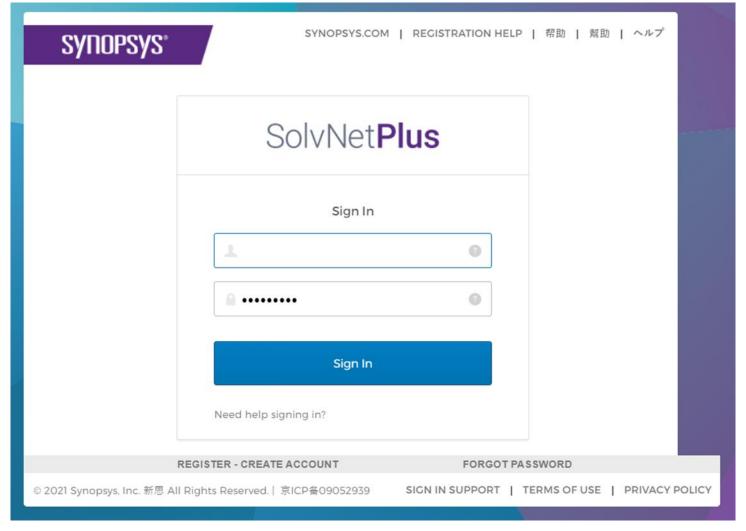


Get started w/ SolvNetPlus

https://solvnetplus.synopsys.com/

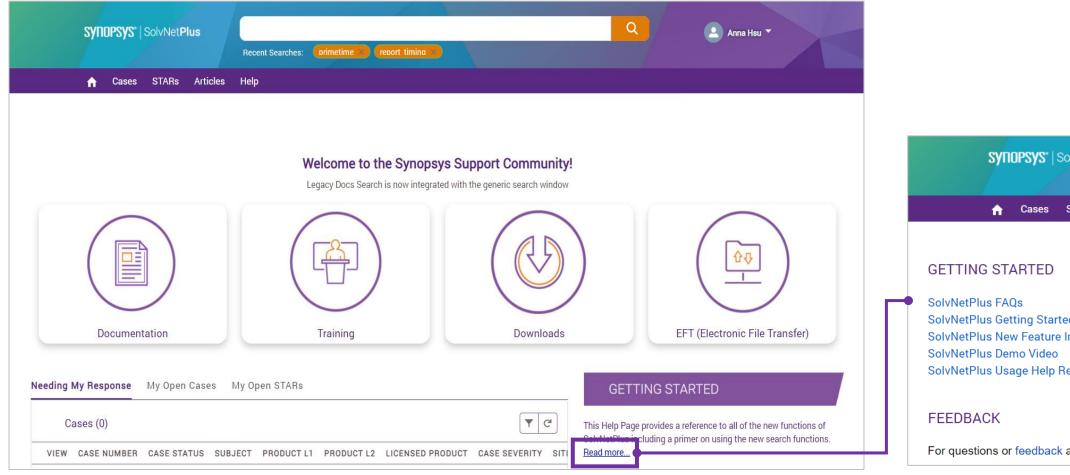


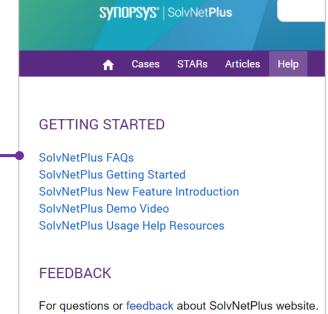
01 Log-in with Synopsys SolvNetPlus credential



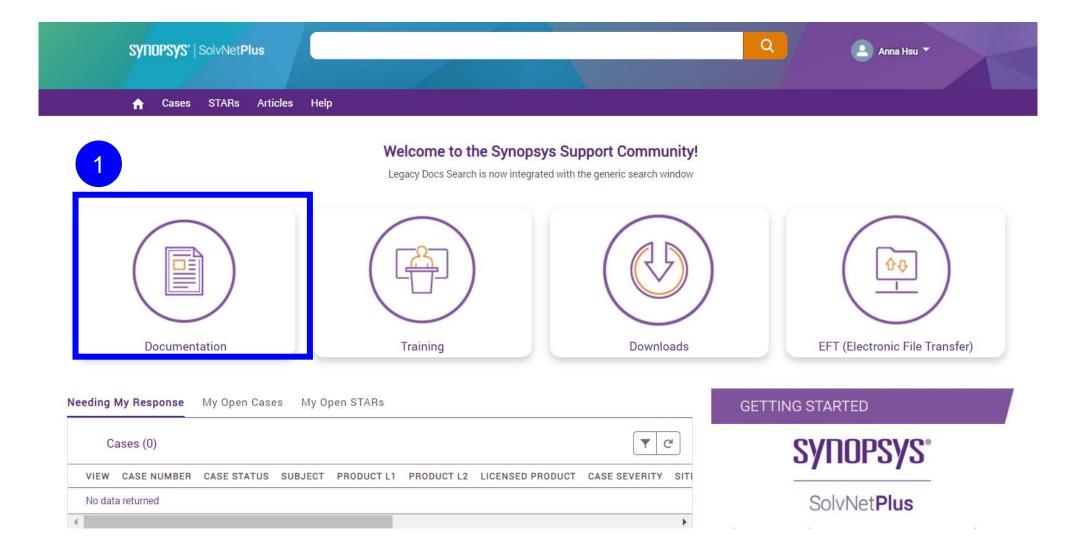
https://solvnet.synopsys.com/

02 Read "GETTING STARTED" before use



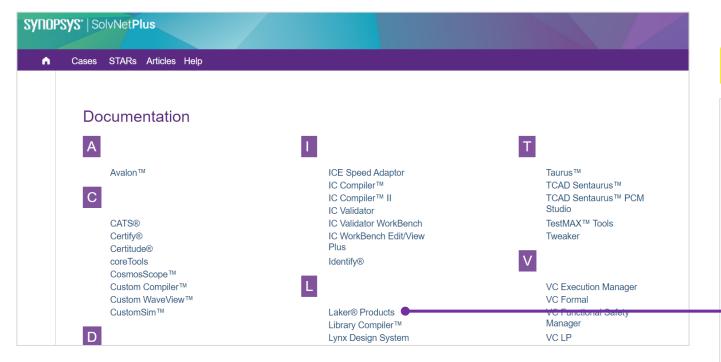


02 Click on "Documentation"



03 Search by product name to get tool documents

You can download release notes, installation guides & user guides and reference manuals from this section



Example: Laker

Laker

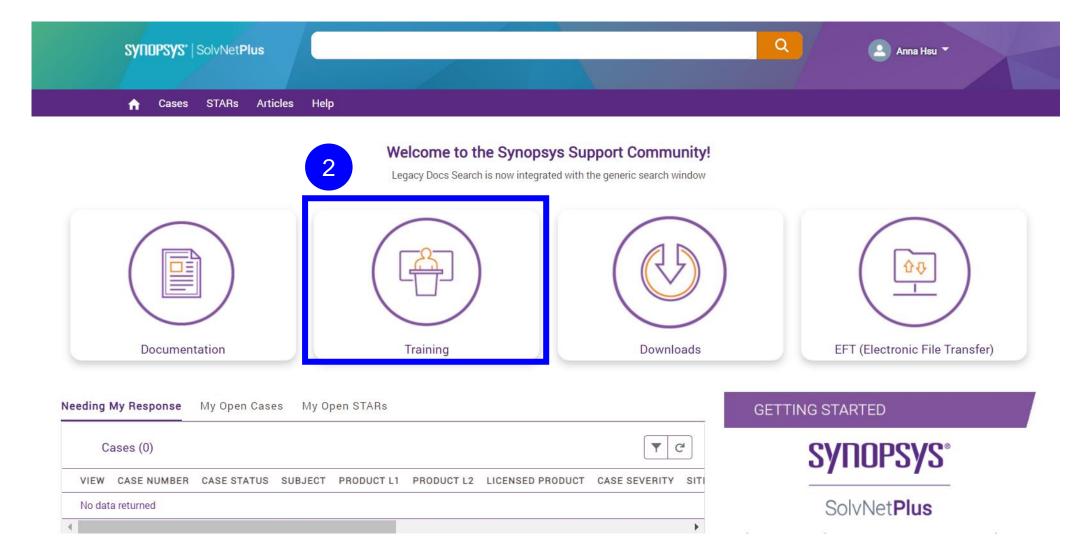
Laker3, L-2018.06, June 2018

- Laker3 Installation Guide
- Laker3 Quick Start Guide for Laker3 User Interface, K-2015.06, June 2015
- Laker3 Command Reference Manual, K-2015.06, June 2015
- Laker3 Tcl Reference Manual, K-2015.06, June 2015
- Laker3 Bind Key Summary
- 🔼 Laker3 Menu Summary
- Laker DRD Tcl Command Reference, K-2015.06, June 2015
- Laker CDPR LEF/DEF Tutorial, 2013.02, February 2013
- Laker CDPR Data Preparation and SDL Tutorial, 2013.02, February 2013
- Laker3 Release Notes Version, L-2018.06-SP1 (January 2019)

Laker, 2020.03, March 2020

- Laker User Guide and Tutorial, 2015.03
- Laker Command Reference, 2015.12
- 🔼 Laker Tcl Reference, 2015.12
- Laker Bind Key Summary, 2015.12
- Laker Command Index, 2015.12

04 Click on "Training"



05 Select the training options that you need

Synopsys Online Training

Synopsys offers the following training options to help you get the most from your tool investment, help keep your project on schedule, and accelerate your proficiency and productivity with Synopsys technology. If you are interested in onsite training or need more information please contact us.



Short Training Courses

30- to 60-minute videos covering various topics such as Jumpstart training, debug tips and tricks, and how best to handle early design when inputs and constraints are incomplete.

Learn More



CES eLearning Courses

Contains our full online CES eLearning courses covering ASIC Verification, Synthesis, Place & Route, and Signoff. Courses span 1 to 3 days.

Learn More



CES Labs Downloads

Download the lab files from all Synopsys CES training courses.

Learn More



Product Update Training

Provides incremental training on new technologies and features of Synopsys' industry-leading solutions.

Learn More



Other Resources

Non-video-based material such as flow documents, helpful tips, and how-to materials to help you come up to speed on Synopsys tools and technologies.

Learn More

Short Training Courses –

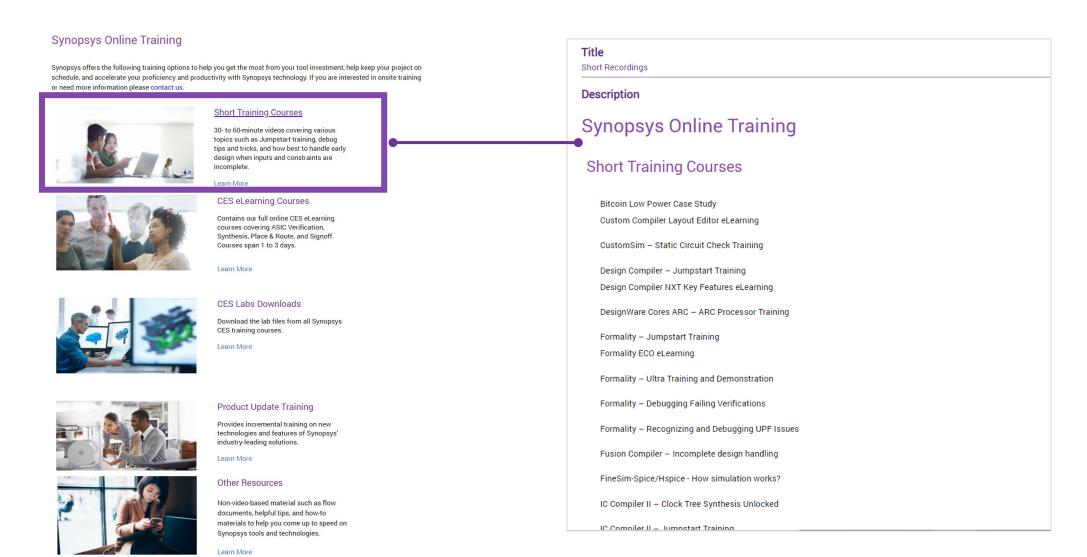
- √ 30- to 60-minute videos
- Covering various topics such as Jumpstart training, debug tips and tricks, and how best to handle early design when inputs and constraints are incomplete.

CES eLearning Courses –

(*The courses are free to university users but require separate approval process. Please email chunhsu@synopsys.com if you plan to register CES courses)

- ✓ Courses span 1 to 3 days
- ✓ Contains full online CES eLearning courses covering ASIC Verification, Synthesis, Place & Route, and Signoff.
- CES Lab Downloads
 - ✓ Lab files from all CES training courses.
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 - ✓ Incremental training on new technologies and features.
- Other Resources

06 Click on "Short Training Courses"



07 Click on "CES eLearning Courses"

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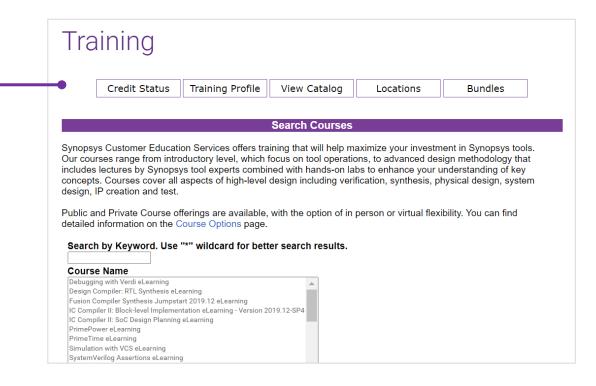


Other Resources

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Learn More

*Please note that CES courses are free to university users, but to access the course, you need to submit a separate approval to Synopsys University Program. Please email chunhsu@synopsys.com if you plan to register.



08 Click on "CES Labs Downloads"

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Learn Mor



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Learn More



Workshop Description	Software Version	Location
Design Compiler	2016.12-SP3	Labs_DC_2016.12-SP3 Download
Design Compiler	2017.09-SP4	Labs_DC_2017.09-SP4 Download
Design Compiler NXT	2019.03-SP3	Labs_DCNXT_2019.03-SP3 Download
DFT Compiler	2017.09-SP3	Labs_DFTC_2017.09-SP3 Download
Fusion Compiler Frontend	2019.03-SP2	Labs_FC-FE_2019.03-SP2 Download
Fusion Compiler Synthesis	2019.12-SP3	Labs_FC-SYN_2019.12-SP3 Download
IC Compiler BLI	2016.03-SP1	Labs_ICC_BLI_2016.03-SP1 Download

10 Click on "Product Update Training"

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Synopsys offers the following training options to help you get the most from your tool investment, help keep your project on schedule, and accelerate your proficiency and productivity with Synopsys technology. If you are interested in onsite training or need more information please contact us.



Short Training Courses

30- to 60-minute videos covering various topics such as Jumpstart training, debug tips and tricks, and how best to handle early design when inputs and constraints are incomplete.

Learn More



Contains our full online CES eLearning courses covering ASIC Verification, Synthesis, Place & Route, and Signoff. Courses span 1 to 3 days.





CES Labs Downloads

Download the lab files from all Synopsys CES training courses.

Learn More



Product Update Training

Provides incremental training on new technologies and features of Synopsys' industry-leading solutions.

Learn More



Other Resources

Non-video-based material such as flow documents, helpful tips, and how-to materials to help you come up to speed on Synopsys tools and technologies.

Learn More

Title

Product Update Trainings

Description

Synopsys Online Training

Product Update Training

Custom Compiler

Short Tutorial Videos

2017.03 Update Training

2019.06 Update Training

Design Compiler - Q-2019.12 Update Training

Formality - P-2019.03 Update Training

IC Compiler II

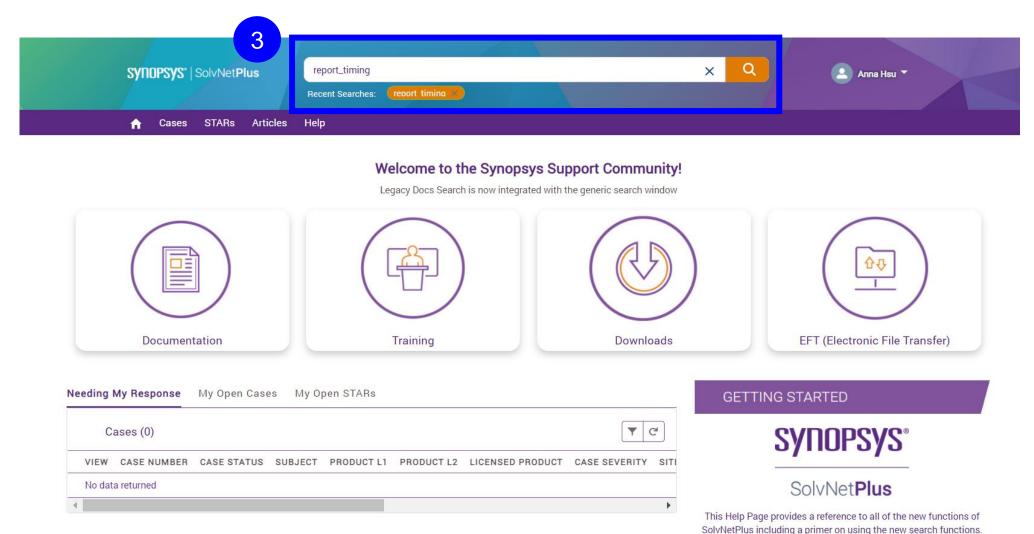
2018.06 version Update Training

2019.03 version Update Training

2019.12 version Update Training

11 Look for information in the "Search" bar

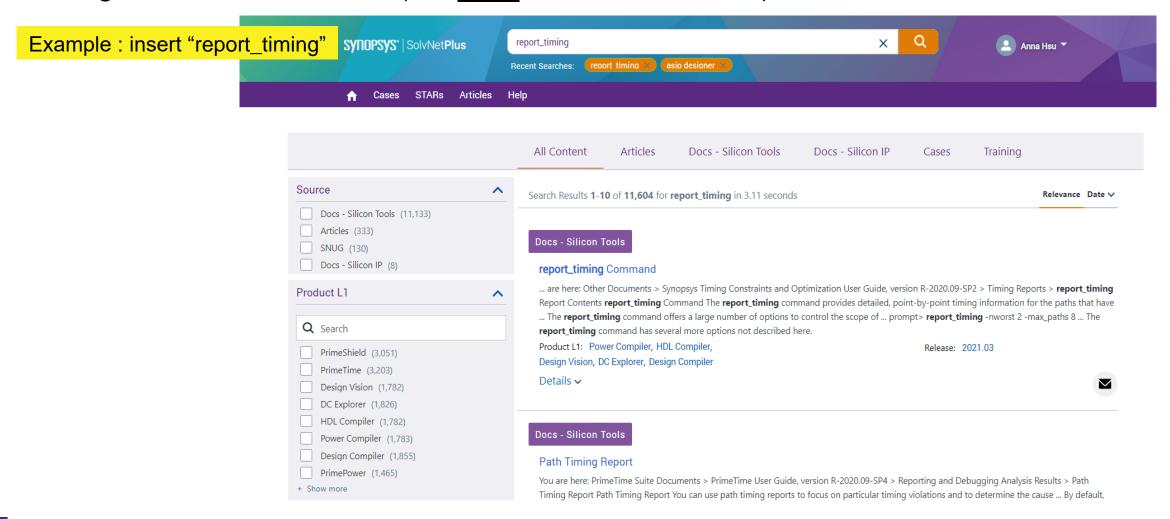
You can use search to retrieve information from various sources





12 Choose needed info from the displayed search results

The information will be displayed from various sources, such as documentation, articles, training, YouTube, and so on (but *NOT* in cases & STARs)





Thank You

Synopsys University Program

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