

## ANNEX A - University Education Program Letter of Understanding and Questionnaire

### LETTER OF UNDERSTANDING

This letter serves to confirm the undersigned's understanding of the limitations of use of Software for Academic Research purposes.

The following research activities are strictly prohibited.

- Use of the Software to perform services for a government agency or commercial entity that will generate revenue for the Educational Institute.
- Use of the Software to provide consulting services to a government agency or commercial entity.
- Sponsored research that directly benefits a third-party entity such as a government agency, or commercial or non-profit entity. This includes research conducted under NSERC and/or CFI grants **if** the research is owned by or provides a benefit to the government agency, or commercial or non-profit entity.
- Research that is not directly tied to an advanced degree granting project such as Master or PhD thesis and that benefits a third-party entity such as a government agency, or commercial or non-profit entity.

Additionally, the undersigned agrees:

- Not to export or re-export the Software or any copy or adaptation in violation of any applicable export laws or regulations; and
- Confirms they are not, nor are any users of the Software under the undersigned's supervision, prohibited from receiving the Software pursuant to any export applicable laws or regulations (e.g. any official denied persons list).

Faculty Member Signature
By: _____
Print Name: _____
Title: _____
<b>Date:</b> _____
<b>Educational Institute:</b> _____

Below is a checklist outlining the requirements for a Keysight EDA University educational software license package. To be considered for approval, ALL requested information must be supplied.

### **1. Educational Institute Information**

Name of Educational Institute

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Department

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Key Contact Person at Educational Institute

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Contact Telephone

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Contact Fax

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Contact e-mail address

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Full Address of Educational Institute

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Educational Institute Web Site Address (URL)

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## 2. Microwave/RF Engineering/Communication Systems Design Curriculum

Please describe the Educational Institute's Microwave/RF Engineering and Communication Systems Design Curriculum below:

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Average Annual Microwave/RF Student Enrollment: \_\_\_\_\_

Please list specific Microwave/RF/Communication Systems Courses Below:

(Note: Copies of course outlines as listed in the Educational Institute Catalog may be submitted)

Course Number	Title	Average Enrollment	Description
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- 1.
- 2.
- 3.

Please describe below how the software will be used: (NOTE THAT THE SOFTWARE MAY ONLY BE USED FOR TEACHING PURPOSES.)

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If the license grant is approved the Educational Institute must also be willing to author and share applications and updated lab experiments with Keysight EDA. Please describe the process the Educational Institute shall utilize for this.

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## 3. Product Requests

The following products are available for license under the Keysight EDA University Education Program. (Note that 52 networked licenses are automatically provided for each of the following products.)

Check Requested Product	Description
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_____ W2030UU	Multi-Product Educational Support Package (contains ADS, GoldenGate, IC-CAP, GENESYS, SystemVue)
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_____ W2101UU	EMPro
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_____ W2130UU	Combined Product Package (includes both W2030UU and W2101UU)
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## 4. Available Hardware

Please indicate below the computer hardware available:

Computers (Number and Type)

\_\_\_\_\_  
\_\_\_\_\_  
Type of Network (if applicable) \_\_\_\_\_

Node/Host ID (REQUIRED):  
\_\_\_\_\_

Operating System(s) and version \_\_\_\_\_

Who will be responsible for the software installation? \_\_\_\_\_

## 5. Media, Documentation, & Operating Platforms

Media is optional. Documentation is shipped on CD with the ordered products. While the following are those platforms currently supported by the specified software it is highly recommended that the Educational Institute contact the local Keysight sales representative to confirm that the its operating systems will support the selected software.

SUNOS: Device Modeling, ADS, GG

LINUX: GG, ADS (Red Hat Enterprise Level 5 & SUSE9), EMPro

Windows: Device Modeling, ADS, GENESYS, SYSTEMVUE, EMPro

## 6. Support (E-Mail Only)

One year of support is provided for each product type requested. These special University support contracts allow for e-mail support of two specified users within a single workgroup. One primary and one alternate point of contact may make use of Keysight EEs of EDA e-mail support services when required

### Product

\_\_\_\_\_ W2030UU  
\_\_\_\_\_ W2101UU  
\_\_\_\_\_ W2130UU

Please list below the Primary and Alternate Contacts for requesting support via e-mail:

### *Primary Support Contact*

Name: \_\_\_\_\_

Phone: \_\_\_\_\_

FAX: \_\_\_\_\_

Email address: \_\_\_\_\_

### *Secondary Support Contact*

Name: \_\_\_\_\_

Phone: \_\_\_\_\_

FAX: \_\_\_\_\_

Email address: \_\_\_\_\_

## 7. Educational Support Product Listings

The contents of each educational license (product bundle) are listed below:

### Advanced Design System

W2200	ADS Core
W2300	Harmonic Balance
W2301	Circuit Envelope
W2302	Transient Convolution
W2303	Verilog-A
W2304	Verilog-AMS
W2305	X-Parameter
W2307	Controlled-impedance Line Designer
W2321	Layout
W2340	RFPro
W2341	Momentum G2
W2342	FEM
W2349	ADS Electrothermal Simulator
W2359	PIPro Power Integrity EM Analysis
W2360	SIPro Signal Integrity EM Analysis
W2361	Ptolemy
W2362	RF Architect & Synthesis
W2363	Mature Wireless Libraries
W2366	Integrated Wireless Libraries Element 3GPP FDD W-CDMA & 3GPP LTE 802.11n CDMA, CDMA 1xEV, & CDMA 2000 Digital TV (DTV)r EDGE Fixed WiMAX GSM HSPA (High Speed Packet Access)
Mobile WiMAX	TD-SCDMA WiMedia Wireless LAN
W2375	Power Electric Library

### GoldenGate “Standard”

W2001	GoldenGate
W2200	ADS Core
W2300	Harmonic Balance
W2301	Circuit Envelope
W2302	Transient Convolution
W2303	Verilog-A
W2321	Layout
W2341	Momentum G2
W2361	Ptolemy
W2363	Mature Wireless Libraries

## GoldenGate “Premier”

Includes both GoldenGate “Standard” and ADS “Premier”

### DEVICE MODELING (formerly IC-CAP)

W8501E	Core Environment, Programming & Graphics
W8502E	Simulation and Optimization
W8503E	Data Processing & Selection
W8533E	Angelov GAN FET Model Extraction
W8530E	High Freq. FET Models
W8540E	High Freq. BJT & MEXTRAM Models
W8531E	NeuroFET Extraction
W8542E	VBIC BJT Extraction Module
W8541E	HBT Model Extraction
W8553E	BSIM3 Model Extraction (w/Target & Corner)
W8554E	BSIM4 Model Extraction (w/Target & Corner)
W8552E	BSIMSOI Model Extraction
W8551E	HiSIM
W8550E	PSP Model Extraction
W8555E	HiSIM-HV
W8520E	Instrument Connectivity
W8532E	Root FET, MOS & Diode Models Generator
W8510E	WaferPro
W8601E	MBP Model Builder
W8602E	MBP BSIMSOI Model Generation
W8603E	MBP PSP Model Generation
W8604E	MBP HiSIM2 Model Generation
W8605E	MBP HiSIM HV Model Generation
W8606E	MBP VBIC Model Generation
W8607E	MBP HICOM Model Generation
W8609E	MBP MEXTRAM Model Generation
W8610E	MBP DCP Device Characterization
W8611E	MBP Stress Model Generation
W8612E	MBP RF Model Generation
W8613E	MBP Verilog-A Model Support
W8614E	MBP Reliability Module
W8615E	MBP BISM6 Model Generation
W8616E	MBP BSIM CMG Model Generation
W8617E	MBP IMG Model Generation
W8618E	MBP MOS66 Model Generation
W8619E	MBP Viewer
W8620E	MBP Statistical Model Generation
W8621E	MBP GUI Custom Extraction
W8622E	MBP EKV Model Generation
W8631B	MQA GUI & Simulation
W8632E	MQA BSIMSOI Model Support
W8633E	MQA PSP Model Support
W8634E	MQA HiSIM2 Model Support
W8635E	MQA HiSIM HV Model Support
W8636E	MQA VBIC Model Support
W8637E	MQA BSIM6 Model Support
W8638E	MQA BSIM CMG Model Support
W8639E	MQA BSIM IMG Model Support
W8640E	MQA Viewer
W8641E	MQA TCL Support
W8642E	MQA Perl Support
W8643E	MQA EKV Support
W8644E	MQA HiSIM SOI Model Support

## **GENESYS**

W1410	GENESYS Core
W1501	Filter
W1502	M/Filter
W1503	S/Filter Synthesis
W1504	A/Filter Synthesis
W1505	Equalize Synthesis
W1506	Match Synthesis
W1507	Oscillator Synthesis
W1508	Advanced T/LINE Synthesis
W1509	PLL Synthesis
W1510	Signal Control Synthesis
W1511	Mixer Synthesis
W1601	SPECTRASYS Simulator
W1602	HARBEC Simulator
W1603	EMPOWER ML Simulator
W1604	CAYENNE Simulator
W1605	WhatIF Simulator
W1606	Advanced Modeling Kit
W1609	Momentum GXF EM Simulator
W1610	Momentum GX
W1701	TestLink
W1709	Sonnet Interface

## **SYSTEMVUE**

W1461	SystemVue Comms Architect
W1713	SerDes Model Library
W1714	AMI Modeling Kit
W1715	MIMO Channel Builder
W1716	DPD Builder
W1717	Hardware Design Kit
W1718	C++ Code Generator
W1719	RF System Design Kit
W1720	Phased Array Beamforming Kit
W1902	Digital Modem library
W1904	Adaptive Equalization Library
W1905	Radar Model Library
W1906	5G Baseband Verification Library
W1907	5G Forward Baseband Verification Bundle
W1908	SystemVue Automotive Radar Library
W1910	LTE Baseband Verification Library
W1911	WiMAX Baseband Verification Library
W1914	DVB-S2 Baseband Verification Library
W1915	mmWave WPAN Baseband Verification Library
W1916	3G Baseband Verification Library
W1917	WLAN Baseband Verification Library
W1918	LTE-A Baseband Verification Library
W1919	GNSS baseband Verification Library

## **EMPro**

W2401	EMPro Core
W2342	FEM Element
W2405	FDTD Element
W2406	Compliance Module

### **VSA (89601BN) with options:**

AYA	Vector modulation analysis
BHF	Custom OFDM modulation analysis
BHK	Custom IQ modulation analysis
BHL	Channel quality measurements
BHN	5G NR/Pre-5G modulation analysis
BHG	LTE-Advanced FDD modulation analysis
BHH	LTE-Advanced TDD modulation analysis
BHD	LTE FDD modulation analysis
BHE	LTE TDD modulation analysis
B7N	3G modulation analysis bundle
BHX	802.11ax modulation analysis
BHJ	WLAN 802.11n/ac modulation
B7R	WLAN 802.11a/b/g/j/p modulation analysis
B7Y	WiMAX 802.16 modulation analysis
BHP	FMCW radar analysis
BHQ	Pulse analysis
BHM	DOCSIS 3.1 modulation analysis
BHA	TEDS modulation analysis
BHC	RFID modulation analysis

### **Approval Process**

If this University educational support license grant is approved, an Approval Communication will be sent. This approval will be conditional upon:

Signing the above Letter of Understanding  
Completion of above questionnaire

When completed, this form should be scanned and emailed to:

**licensing@cmc.ca**