

[TWiki](#) > [DICE Web](#) > [TeachingSoftware2018 \(04 Nov 2019, GrahamDutton\)](#)

Teaching Software requirements 2018/19

The project is now complete - see [TeachingSoftware2018Report](#)

Key

field	purpose
Course	Course Code
Semester	Taught in Semester
Lecturer	Course Lecturer
Software	Software required for course
Change/no change/new	Version changes or new software
Status	Upgrade or installation (or not) status
RT	RT ticket relating to request
DB	Yes if Theon updated with changes

colour	meaning
New Software	New software required
New Version	New software version or checks required
No Change	No change this time or all done

Software Requirements

Course	Semester	Lecturer	Software	Change/no change/new	Status	RT
CS	S2		qemu-kvm	new	check security implications	RT:89210 RT:93110
AR	S1	jdf	Isabelle	Update to 2017 version	2018 deployed, tested by lecturer	RT:89774
ADS	S1/S2	kk	AlgoBench	former/current student project - but note we're not responsible for service.	cloned VM	RT:90185
INF2D	S2	alex	Haskell (GHC)	No change	will use Stack-built Haskell-platform for this, but will hang back post S1 start.	RT:89778
PPLS	S2	mic	Openmpi - version 3.0.0 , GCC 4.8.5	No change	Nothing required	RT:89781
IJP	S1	dcspaul	Java10, Eclipse Photon, Bluej, Scenebuilder (latest versions of all)	Update bluej java to 10, Eclipse Photon, SceneBuilder 10	done; a little more testing	RT:89783 RT:90093 RT:90626
CT	S1	cdubach	CMake Version 3.4.3, plus 30G extra quota for module	n/a	Quota updated.	RT:89795
SDP	S2	jeh, bwebb, gde	Bluetooth communication running fully with DICE , HD to USB capture device drivers	New drivers required	Check and install appropriate drivers	RT:89853 RT:89854
ANLP	S1	sgwater, ht	Miniconda with Python 3.5 ipython spyder matplotlib scikit-learn nltk nltk_data numpy scipy	Changes possibly needed	Done, partially delegated to ht with group space.	RT:89879
TSPL	S1	wadler	AGDA (latest) + agda-stdlib + Emacs Mode	New: GHC, package AGDA	done	RT:85803 RT:90142
MLPR	S1	imurray2	Matlab any version. Python with NumPy , SciPy , Matplotlib, ipython (the command-line shell) Ideally Python 3.5 with NumPy >= 1.10, but not essential. Otherwise any versions. NumPy should be linked with a fast BLAS. Nice to have (in any version), but they aren't essential for MLPR: octave (also with fast BLAS), jupyter notebook, pandoc, more python packages: seaborn, pandas, scikit-learn.	Changes and upgrades required	assumed ok	RT:89968
CD	s1	npt, with support from gde	Xilinx Vivado Design Suite, version 2015.3, USB drivers for connecting ZYBO boards to DICE machines	Changes and upgrades required	checked, OK	RT:90039

PDIOT	S1	dka, with support from gde	Android Studio 3 on DiCE , 3.1.2 or the latest stable	Changes and upgrades required	Check to see if studio 3.1.2 available	RT:90097 RT:91476
PM	S1	jeh	Matlab (non specular) and Eclipse >= mars	No change	Nothing required	RT:90119
ILP	S1	stg	Android Studio 3.1.3 or higher	Upgrade to Android Studio, plus check vtx enabled on all lab PCs	Upgrade required	RT:90271
IoTSSC	S2	ppatras	Android Studio (latest version) - nRF SDK (12.3.0) - ARM embed toolchain (gcc-arm-none-eabi-7-2017-q4-major-linux) - nRF Command Line tools (9.7.3) - JLink libraries (V632d) - Python (3.6 is fine) - nrfutil	Upgrades and new software required	Python OK Checks, upgrades and new installations	RT:90284
AIPF	S2	smaill	swi Prolog 7.6.4	Upgrade to swi Prolog	Upgrade required	RT:92762
INF1-OP	S1	vseeker	Eclipse 4.7 Java 8 JUnit 4	No Changes required	All requirements satisfied or exceeded	RT:92999
SP	S2	da	SEEDUbuntu VM	New	files to be rsynced to /disk/scratch/ guidance issued	RT:93208

IoTSSC Progress (as per [RT:90284](#))

Component / Software	Owner	Status	Notes
nRF SDK (12.3.0)			
ARM embed toolchain (gcc-arm-none-eabi-7-2017-q4-major-linux)		7_2018_q2 installed	https://developer.arm.com/open-source/gnu-toolchain/gnu-rm/downloads
nRF Command Line tools (9.7.3)			Needs newer glibc. https://www.nordicsemi.com/eng/nordic/Products/nRF52840/nRF5x-Command-Line-Tools-Linux64/58852
JLink libraries (V632d)		6.34b installed	
nrfutil			
pc-ble-driver-py			Dependency of nrfutil. Needs boost 1.54 but we only have 1.53
piccata		1.0.1 installed	Dependency of nrfutil. Only works with python2
etc [...]			

-- [TimColles](#) - 02 Jul 2018

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