



e-Learning Tools and Open Resources

Prepared by the e-Learning Center at Princess Sumaya University for Technology

King Hussein School of Computing Sciences:

Tool Name	Direct Access	Skills	Applicable Curriculum
Code Academy	https://www.codecademy.com/	Programming and problem-solving.	Helpful for any basic and introductory programming course.
SimSe	The game is available in e-Learning Center.	Practicing on cause and effect relationships, and analyzing the different software engineering models.	Software engineering.
Pixact	http://pixact.ly/	Challenging students to get the exact amount of pixels within a certain aspect ratio.	Fundamentals of movie making.
Rapt Media	http://www.raptmedia.com/customers/	Video editing.	Interactive editing and film-making.
Akinator	http://en.akinator.com/	Interactive simulation and analytical thinking.	Chatbot and Artificial Intelligence.
Prezi	http://www.prezi.com/	Presentation skills, public speech and training material.	All subjects and topics that have presentable material.
Google Auto-Draw	https://www.autodraw.com/	Graphic Design and A.I. practice.	Graphic design, A.I. testing and computer animation.
Code Combat	https://codecombat.com/play https://code.org/learn	Coding and visual programming.	Software engineering and coding fundamental courses.
Heat Map	https://moodle.org/plugins/pluginversions.php?plugin=block_heatmap	To discover and analyze the clicks behavior of your students within the online course sections.	All Courses.
Turnitin	Available via 'Add Activity' tool on e-Learning platform	Plagiarism detector for scientific and academic papers.	All Courses.
Big Blue Button	Available via 'Add Activity' tool on e-Learning platform	Live classroom, webinar or virtual collaborative learning experience.	All Courses.

King Abdullah II School of Engineering:

Tool Name	Direct Access	Skills	Applicable Curriculum
Virtual Labs	http://vlab.co.in/search.php	Practice on a variety of online experiments.	Embedded systems, VLSI and circuits.
Proteus VSM	To be available at e-Learning center soon.	Designing and programming embedded systems.	Embedded systems.
Circuit Lab	https://www.circuitlab.com/	Schematic editing for electrical circuits.	Analog & digital circuits. Electrical engineering.
Digital Signal Processing	http://vlabs.iitkgp.ernet.in/dsp/#	List of hands-on experiments to prepare for labs, and solve-lab-related assignments.	Digital Signal Processing.
Code Academy	https://www.codecademy.com/	Programming and problem solving.	Helpful for any basic and introductory programming course.
Logic Ly	https://logic.ly/demo/ - Digital Logic Design	Digital logic design and circuits prototype.	Digital logic, electrical and computer engineering.
Prezi	http://www.prezi.com/	Presentation skills, public speech and training material.	All subjects and topics that have presentable material.
Google Auto-Draw	https://www.autodraw.com/	Graphic Design and A.I. practice.	API testing, A.I. testing and computer animation.
EDA	https://www.edaplayground.com	Software virtual environment.	It allows running Verilog, VHDL code which are using in hardware design online without the need to install anything on PCs.
Traffic Simulator	https://traffic-simulation.de/	Traffic management and analysis	Courses that intertwine between computer engineering, A.I., and civil engineering.
Heat Map	https://moodle.org/plugins/pluginversions.php?plugin=block_heatmap	To discover and analyze the clicks behavior of your students within the online course sections.	All courses.
Turnitin	Available via 'Add Activity' tool on e-Learning platform	Plagiarism detector for scientific and academic papers.	All Courses.
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King Talal School of Business Technology:

Tool Name	Direct Access	Skills	Applicable Curriculum
Prezi	http://www.prezi.com/	Presentation skills, public speech and training material.	All subjects and topics that have presentable material.
Google Auto-Draw	https://www.autodraw.com/	Graphic Design and A.I. practice.	Graphic design for digital marketing and e-business purposes.
Pixact	http://pixact.ly/	Challenging students to get the exact amount of pixels within a certain aspect ratio.	Principles of graphic design.
Scratch	https://scratch.mit.edu/	Programming and problem-solving.	Computer applications in business and administration.
Proto IO	https://proto.io/	User interface and experience design, prototyping and project plan.	UX and UI design, business administration, application design, digital marketing and HTML based sites.
Squarespace	https://www.squarespace.com/	User interface and experience design, and websites building.	Computer applications in business and administration.
Slack	https://slack.com/	Project kick-off, employee management, deploy codes, review sales contract, finalize next year's budget.	Finance, business administration and BPM.
SimilarWeb	https://www.similarweb.com/	Strategy plan, content strategy design, SEO, promotion and advertising plans.	Digital marketing and principles of e-business administration.
Data Selfie	https://dataselfie.it/#/	Social media algorithm tracking and content strategy plans.	Digital marketing and principles of e-business administration.
Rapt Media	http://www.raptmedia.com/customers/	Interactive video design and digital promotion.	UX/UI design, HTML sites and digital marketing.
R-Stats Institute	https://www.youtube.com/channel/UCXLbK1bH-w1okIGm4dLYrHw	SPSS program practice.	Principles of statistics, business mathematics and finance.
Platform Wars	https://mitsloan.mit.edu/LearningEdge/simulations/platform-wars/Pages/default.aspx	Strategy, economics, technology strategy, system dynamics.	Any course where the dynamics of strategic pricing behavior are relevant.
EIS Simulation	http://thefounder.biz/platform/	Strategies, entrepreneurship, management and analytical thinking.	MIS, e-Commerce, Principles of Financial Affairs, ERP and advanced BIT.
IBM Innov8	The game is available in e-Learning Center.	Solve real-world business, environmental and logistical problems. Explore ways to accelerate process change.	Business technology infrastructure and ethics.
Bean Counter	https://www.dwmbeancounter.com/	Exercises for financial and accounting problems.	Principles of accounting.

Heat Map	https://moodle.org/plugins/pluginversions.php?plugin=block_heatmap	To discover and analyze the clicks behavior of your students within the online course sections.	All Courses.
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Big Blue Button	Available via 'Add Activity' tool on e-Learning platform	Live classroom, webinar or virtual collaborative learning experience.	All Courses.

Basic Sciences/University Courses:

Tool Name	Direct Access	Skills	Applicable Curriculum
Orange Futureself	https://thefwa.com/cases/orange-futureself	Talk to yourself in the future! Practice conversation skills.	English
YouGlish	https://youglish.com/	Writing skills. Keep it up with lyrics game to practice on writing and fix syntax errors.	English
Transcript Finder	https://lyricstraining.com/	Pronunciation and journalism; resource search.	English
Using English	https://www.usingenglish.com/quizzes/	A very good source of quizzes and exercises to be used in exams.	English
PhET Calculus Grapher	https://phet.colorado.edu/en/simulation/calculus-grapher	Graph simulation	Calculus
GeoGebra	http://webspace.ship.edu/msrenault/GeoGebraCalculus/GeoGebraCalculusApplets.html	Mathematical modeling.	Calculus and algebra.
Illuminations	https://illuminations.nctm.org/Activity.aspx?id=3570	Graphs of polynomial functions. Approximate tangent lines, derivative curves, and areas.	Calculus.
R-Stats Institute	https://www.youtube.com/channel/UCXLbK1bH-w1okIGm4dLYrHw	SPSS program practice.	Principles of statistics, business mathematics and finance.
Neal Fun	https://neal.fun/	A collection of great simulations to learn about many scientific topics and principles.	All courses.
Heat Map	https://moodle.org/plugins/pluginversions.php?plugin=block_heatmap	To discover and analyze the clicks behavior of your students within the online course sections.	All courses.
Turnitin	Available via 'Add Activity' tool on e-Learning platform	Plagiarism detector for scientific and academic papers.	All Courses.
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Important Note: Most simulations and online tools require Adobe Player and/or Java script installed on the computer in order to run properly.