पं० रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ०ग०)

क्र0 139/विकास/2025   रायपुर, दिनांक 04/03/2025

।। दावा आपत्ति सूचना।।

सर्वसधारण को सूचित किया जाता है कि विश्वविद्यालय के उपयोग हेतु निम्नलिखित सॉफ्टवेयर सांपत्तिक प्रवृत्ति (Properietry Article) की श्रेणी के अंतर्गत क्रय किया जा रहा है :—

1. MATLAB Campus wide License (CWL) Software
2. Cadence VLSI University Research Bundle
3. VLSI Lab Tool Under CoreEL University Program
4. Silvaco Victory 3D Bundle Research Bundle

सांपत्तिक क्रय की श्रेणी के अंतर्गत क्रय के संबंध में किसी निर्माता कंपनी को यदि कोई आपत्ति हो तो दिनांक 04/04/2025 तक मयसुसंगत दस्तावेज विकास विभाग, पं.रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छ.ग.) में प्रस्तुत करें। दिनांक 04/04/2025 के पश्चात प्राप्त दावा आपत्ति पर कोई विचार नहीं किया जायेगा।

कुलसचिव
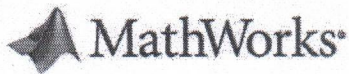
MathWorks®

1 January 2024

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Corporate Headquarters
1 Apple Hill Drive
Natick, MA 01760-2098
UNITED STATES
Tax ID# 942960235
Phone: 508-647-7000
Fax: 508-647-7001

Bangalore
9th, 8th & 7th Floor, Trillium Building
Blocks I & J, Embassy Tech Village
Outer Ring Road
Bangalore – 560103
Karnataka
INDIA
Phone: +91-80-6632-6000
Fax: +91-80-6632-6010

New Delhi
Level 3B, DLF Center
Sansad Marg, Connaught Place
New Delhi – 110001
INDIA

The MathWorks, Inc.
3 Apple Hill Drive
Natick, MA 01760-2098
USA

Tel: 508-647-7000
Fax: 508-647-7001
mathworks.com
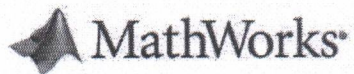
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Pune
The Pavillion, Level 5
Laxmi Colony, Senapati Bapat Rd.
Shivaji Nagar, Pune
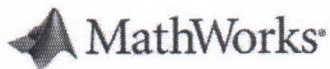Maharashtra 411016
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The MathWorks, Inc.
By:

Laura Nardi
Director of Business Model Support

◀ MathWorks®

04 March 2024

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This authorization is valid through March 31, 2025.

MathWorks does not quote products in the education sector in this region and does not authorize any other agency or firm to do so.

Please contact Rishi Khemka of Ark Infosolutions Private Limited if you have any questions.

The contact details are:
Ark InfoSolutions Private Limited
F-28, Okhla Industrial Area
Okhla Phase I
New Delhi 110020
India
rk@arkinfo.in
Mobile: 88600 00533

Regards,

Kumar Bakthavatchalu
Director, MathWorks India Private Limited

- **Unlimited License**: MATLAB Campus wide license is available to all Faculty, Researchers, and students (UG, PG etc) everywhere on and off campus: at hostel, home, and classroom, in Lab's and field research and while travelling for Academic/ Educational use.

- **MATLAB Online & Cloud access**: MATLAB Campus license contains MathWorks own Cloud environment via "MATLAB Online" and "Simulink Online" accessible to all Campus License users of Individual license type. This system is suited to support current Online or Virtual classes, where students and faculties can access all MATLAB products sitting at their own place anywhere flexibly via Online browser as well as physical installation at individual Home Desktops or Laptops.

- **MATLAB Mobile** – Connect to MATLAB from users iPhone, iPad, or Android device.

- **MATLAB Drive** – Store, access, and manage your MATLAB files from anywhere.

- Open access to scaling for MATLAB programs and Simulink simulations to clusters, clouds, and HPC

- One license, which eases license management and ensures software license compliance through central administration; it also integrates easily into bring-your-own-device (BYOD) programs.

- The software can be installed in Laptops/ desktops of faculty & student at home and college housed Computers. Number of License are unlimited, to be used by complete academic community of NIT Raipur with domain email ID.

- MATLAB Campus Suite License has all products currently available for Academic users as well as products which MathWorks shall release under warrantee period, shall be automatically added.

- **License period validity**: License is for 1 (one) year & to be renewed after expiry. Annual/Term license provides a more predictable cost model for budget planning. The software will be under warranty for full duration & always on latest version.

- Access to MATLAB and all its products covering different application areas. Annexure-A highlights list of currently available Full Suite products.

- **Self-paced Online trainings**: Faculties, students & researchers have unlimited access to 26+ online training modules at https://matlabacademy.mathworks.com/ with 100+ hours of self paced trainings to:
  - →Learn essential MATLAB and Simulink skills on-demand.
  - → Bring MATLAB/Simulink to the classroom– focus on teaching subject-matter rather than software.
  - → Learn through hands-on practice and contextual feedback.
  - → Access over 100 hours of content with for a variety of topics
  - → PDF Certificates are also available on completion.

- **MATLAB Grader** for automatic assessment:
  - → Create assignments that require students to submit MATLAB code.
  - → Set custom scoring rubrics and view detailed reports and learner analytics.
  - → Automatically grade student work and provide instant feedback to improve learning.
  - → Run web-based assignments in any learning environment.

Prepared Exclusively for Pt. Ravi Shankar Shukla University- Raipur

03-04-2024

Campus-Wide License

The world's leading mathematical computing software for engineering and science instruction, research, and development, MATLAB and Simulink are widely used by students, faculty, and researchers for project-based learning and collaborative research projects. MathWorks Campus-Wide License for MATLAB and Simulink prepares students for careers in industry, where the tools are widely used for data science and machine learning, mathematical modeling, and algorithm development in collaborative research and new product development.

MathWorks Campus-Wide License provides access to MATLAB and Simulink for all faculty and students whenever, wherever they need. Users can teach, learn, and conduct research with MATLAB and Simulink on personal computers both on and off campus and in university labs. MathWorks Campus-Wide License also enables collaboration with campus visitors.

The Campus-Wide License includes MATLAB and Simulink Full Suite, a comprehensive set of products that support everything from introductory level courses to advanced academic research.

In addition to anytime, anywhere access to the software, the Campus-Wide License includes a range of support:

- **MATLAB Portals**: Give end users self-serve access to the software and learning resources
- **Unlimited use of MATLAB and Simulink** products to all students, faculty, staff & researchers, on & off campus, on any device
- Automated License Association and Compliance: Simplify license administration
- **Self-Paced Online Training**: Allow students and researchers to learn MATLAB on their own time on wide range of topics and perform collaborative research, covering introductory-level courses to advanced academic research
- **MATLAB Grader**: Auto grade MATLAB homework and interactive course assignments with instant feedback on problems via LMS integration
- **Customer Success Engineers**: Receive expert consultation on curriculum development and innovation
- **Customer Success Specialists**: A dedicated Customer Success team to support you from license launch to campus-wide rollout and beyond
- Open access to scaling for MATLAB programs and Simulink simulations to clusters, clouds, and HPC centers
- **Annual license** that provides a more predictable cost model for budget planning
- **One license**, which eases license management and ensures software license compliance through central administration; it also integrates easily into bring-your-own-device (BYOD) programs

Impact and benefits of a Campus-Wide License. More than 1700 universities worldwide and 30+ Institutes in MP, CG and Tamil Nadu have converted to the Campus-Wide License, including below few institutions:

> *"We can engage students in leading-edge research. The tools enable the research group and the student—including biology majors and engineers—to focus on research and spend less time programming."*
> — **Dr. Gil Alterovitz, MIT and Harvard University**
>
> *"Our students can do both modeling and analysis, and then develop an embedded controller without switching software platforms. That is invaluable."*
> — **Dr. Joel Anstrom, Penn State University**
>
> *"Students have the flexibility of working where and when they choose in addition to lowering the demand and cost of supporting public labs."*
> — **Dean Mark Kushner and Chris McCoy, Iowa State University**

Preparing Students for Careers

The 2100+ universities that depend on the Campus-Wide License are diverse, but they share at least one common objective. Every institution is focused on preparing students for successful careers in a competitive and changing world. Universities that recognize the need to build student skills in complex problem solving, critical thinking, and data analysis will find the tools and curriculum support they need in the Campus-Wide License.

MATLAB in Industry: Govt and Commercial companies who have MATLAB.

- Robert Bosch
- Honey Well
- Tata Motors
- Renault Nissan
- DRDO
- DOS Organisations

Numerous current job opportunities in India seeking candidates with MATLAB skills at various job portals

- Biotech & Life Sciences
- Information & Electronics
- Earth & Ocean Science
- Financial Services
- Medical Devices
- Aeospace & Defense

"If you want to work at Google, make sure you can use MATLAB."

— Jonathan Rosenberg, Senior Vice President

Computational Thinking throughout the Curriculum

The ability to solve problems computationally – to think logically and algorithmically – has become a core competency for fields as varied as science, engineering, mathematics, and business. Students who can use computational tools to model and visualize data possess vital skills that are in demand across industry and academia.

MATLAB and Simulink support and enable core computational thinking tasks and a range of related applications, suchas computational finance and biology; data analysis, including machine learning, deep learning; and signal and image processing.The ability to "speak MATLAB" positions students to communicate, share ideas, and collaborate using a common language trustedby engineers and scientists worldwide.

Learning to Code? + **Coding to Learn!**

"Computational thinking is a fundamental skill for everyone, not just for computer scientists."
Dr. Jeannette Wing, Vice President of Microsoft Research Former Department Head of CS at Carnegie Mellon University

"Coding teaches me to think in a logical way"
Trinity School high school student Accepted at MIT

MathWorks has a web page of courseware, online resources, and software tools to support the integration of computational thinking across the curriculum.

Interdisciplinary Foundation

"A report from the National Academies of Sciences, Engineering, and Medicine [...] asserts that an 'emerging body of evidence' shows that STEMM integration with the humanities 'is associated with positive learning outcomes that may help students enter the workforce, live enriched lives, and become active and informed citizens.'" – *NMC Horizon Report: 2018 Higher Education Edition*

A Campus-Wide License provides a common set of tools for use between departments and across institutions. This product configuration gives everyone access to over 90 products with applications across multiple disciplines. Researchers and students get access to the same set of tools used by professionals in STEM disciplines, business, and hu ies.

Scalable Computing Infrastructure

"Our teams are here to do world-class research, and easy access to MATLAB enables them to be their most productive. The Campus-Wide License removed limitations for our researchers while reducing the administrative burden—exactly what we wanted to achieve."
– *Shailesh Shenoy, Senior Associate, Director of Research Computing, Albert Einstein College of Medicine*

Deployment of MATLAB and Simulink is streamlined and centralized through a custom portal hosted by MathWorks. Cloud-based offerings like MATLAB Online allow users to store, manage, and access files anywhere without downloading or installing MATLAB. MATLAB Distributed Computing Server lets you run computationally intensive MATLAB programs and Simulink models on computer clusters and clouds.

Customer Success Partnership and Onboarding Program

A dedicated MathWorks Customer Success Specialist will work with you and your colleagues to:
- ✓ Set up a portal so users can easily download software and access additional resources
- ✓ Create a rollout plan using customized email templates, posters, digital signage, news articles, and more
- ✓ Announce the license to everyone on campus including existing users, who will be excited to have unlimited access to the tools they need to teach their courses, conduct research, and complete project-based assignments

Your custom portal reduces IT overhead by providing:
- ✓ A self-serve solution that gives faculty, researchers, and students a guided path to download and activate software
- ✓ Built-in compliance through an official university email domain
- ✓ The option to implement Federated Identity Management (Shibboleth) for added security
- ✓ Visibility to the resources included with your Campus-Wide License, including MathWorks support, online training, and tools to enhance curriculum

A dedicated MathWorks Customer Success Engineer will partner with you institution to achieve success for students, faculty, and researchers:
- ✓ Provide technical consultations to improve computational productivity
- ✓ Support faculty innovation and curriculum development

Online Courses for Everyone on Campus:

MathWorks offers access to online training courses to everyone on campus.
- Learn essential MATLAB and Simulink skills on-demand
- Bring MATLAB and Simulink to the classroom – focus on teaching the subject-matter rather than the software
- Learn through hands-on practice and contextual feedback
- Access over 100 hours of content with for a variety of topics

See how campus-wide access to online training is making a difference at Politecnico di Milano.
Learn more: mathworks.com/products/campus-wide-training
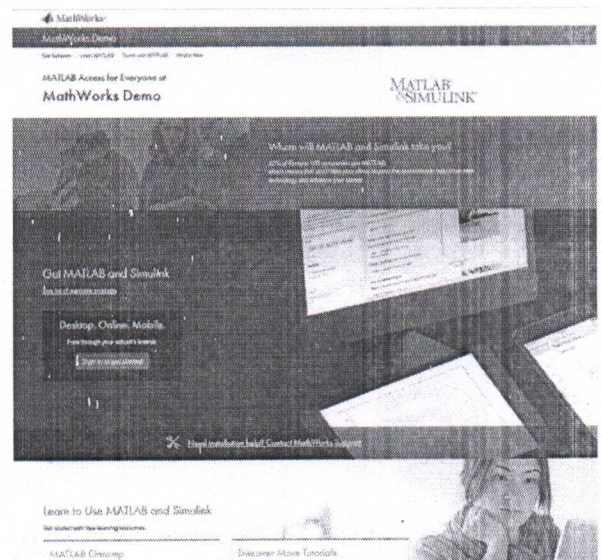
MATLAB Grader:

MATLAB Grader makes it easier to include graded MATLAB assignments in your course. With it, you can:

- Create assignments that require students to submit MATLAB code
- Set custom scoring rubrics and view detailed reports and learner analytics
- Automatically grade student work and provide instant feedback to improve learning
- Run web-based assignments in any learning environment
- Learn more: mathworks.com/products/matlab-grader
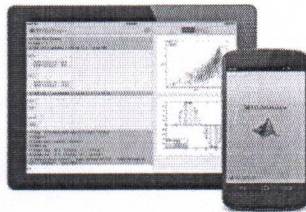
Courseware:

- Downloadable sets of curriculum materials for educators based on MATLAB and Sim Learn through hands-on practice and contextual feedback
- Curriculum materials for many courses from engineering and the sciences to economics and finance
- Over 2000 books based on MATLAB and Simulink, reflecting widespread use in research and teaching
- Learn more: mathworks.com/academia/courseware

Additional Resources:

- MATLAB Online and Simulink Online – Access to MATLAB and Simulink from your web browser
- MATLAB Mobile – Connect to MATLAB from your iPhone, iPad, or Android device
- MATLAB Drive – Store, access, and manage your MATLAB files from anywhere
- Hadware Connectivity – Support Packages – Connect to hardware with MATLAB and Simulink
- Resources for Introducing the Campus-Wide License – Materials to let everyone know to download and start using the tools
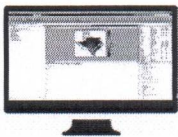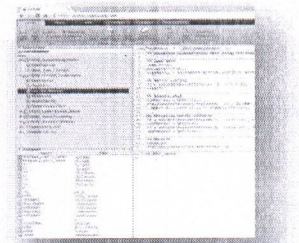

MATLAB on
PCs
Clusters
Cloud

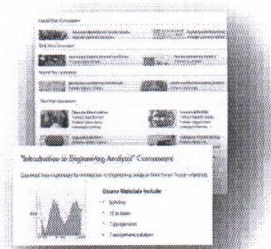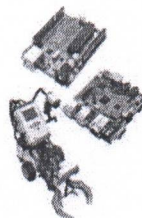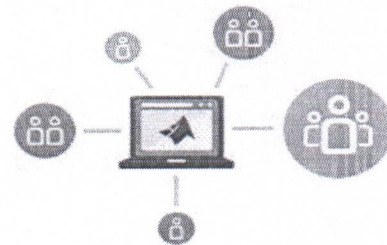MATLAB Mobile
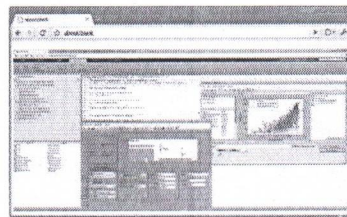
MATLAB Online and
Simulink Online

Online Training Courses
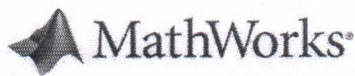
MATLAB Courseware

Hands-on Learning with
Hardware

Scalable Computing
Infrastructure

Annexure 'A' – Products on Campus-Wide Licenses (Version 2024b)

5G Toolbox	LTE Toolbox	Sensor Fusion and Tracking Toolbox
Aerospace Blockset	Mapping Toolbox	SerDes Toolbox
Aerospace Toolbox	MATLAB	Signal Processing Toolbox
Antenna Toolbox	MATLAB Coder	Signal Integrity Toolbox
Audio Toolbox	MATLAB Compiler	SimBiology
Automated Driving Toolbox	MATLAB Compiler SDK	SimEvents
AUTOSAR Blockset	MATLAB Grader	Simscape
Bioinformatics Toolbox	MATLAB Parallel Server	Simscape Battery
Bluetooth Toolbox	MATLAB Production Server	Simscape Driveline
Communications Toolbox	MATLAB Report Generator	Simscape Electrical
Computer Vision Toolbox	MATLAB Test	Simscape Fluids
Control System Toolbox	MATLAB Web App Server	Simscape Multibody
Curve Fitting Toolbox	Medical Imaging Toolbox	Simulink
C2000 Microcontroller Blockset	Mixed-Signal Blockset	Simulink 3D Animation
Data Acquisition Toolbox	Model Predictive Control Toolbox	Simulink Check Simulink
Database Toolbox	Model-Based Calibration Toolbox	Code Inspector Simulink
Datafeed Toolbox	Motor Control Blockset Navigation	Coder Simulink Compiler
DDS Blockset	Toolbox	**Simulink Control Design**
Deep Learning HDL Toolbox	Online Training Suite	Simulink Coverage
Deep Learning Toolbox	Optimization Toolbox	Simulink Design Optimization
DSP HDL Toolbox	Parallel Computing Toolbox	Simulink Design Verifier
DSP System Toolbox	Partial Differential Equation	Simulink Desktop Real-Time
Econometrics Toolbox	Toolbox	**Simulink Fault Analyzer**
Embedded Coder	Phased Array System Toolbox	Simulink PLC Coder
Filter Design HDL Coder	Polyspace Bug Finder	Simulink Real-Time
Financial Instruments Toolbox	Polyspace Code Prover	Simulink Report Generator
Financial Toolbox	**Polyspace Test**	Simulink Test
Fixed-Point Designer	Powertrain Blockset	SoC Blockset
Fuzzy Logic Toolbox	Predictive Maintenance Toolbox	Spreadsheet Link
Global Optimization Toolbox	Radar Toolbox	Stateflow
GPU Coder	Reinforcement Learning Toolbox	Statistics and Machine Learning Toolbox
HDL Coder	Requirements Toolbox	Symbolic Math Toolbox
HDL Verifier	RF Blockset	**System Composer**
Image Acquisition Toolbox	RF Toolbox	System Identification Toolbox
Image Processing Toolbox	RF PCB Toolbox	Text Analytics Toolbox
Industrial Communication Toolbox	Risk Management Toolbox	UAV Toolbox
Instrument Control Toolbox	Roadrunner	Vehicle Dynamics Blockset
Lidar Toolbox	Roadrunner Asset Library	Vehicle Network Toolbox
	Roadrunner Scenario	Vision HDL Toolbox
	Roadrunner Scene Builder	Wavelet Toolbox
	Robotics System Toolbox	Wireless HDL Toolbox
	Robust Control Toolbox	Wireless Testbench
	ROS Toolbox	WLAN Toolbox
	Satellite Communications Toolbox	

Products new to Campus-Wide Licenses as of this release in **BOLD**

Windows

Operating System	Processor	Storage	RAM	Graphics
64–Bit MATLAB and Simulink Product Families (Not available in 32–bit)				
Windows 11 (version 22H2 or higher) Windows 10 (version 22H2) Windows Server 2022	**Minimum:** Any Intel or AMD x86-64 processor with two or more cores **Recommended:** Any Intel or AMD x86-64 processor with four or more cores and AVX2 instruction set support **Note:** A future release of MATLAB will require a processor with AVX2 instruction set support	4.2 GB for just MATLAB. 4-6 GB for a typical installation 24 GB for an all products installation An SSD is strongly recommended	**Minimum:** 8 GB **Recommended:** 16 GB	No specific graphics card is required, but a hardware accelerated graphics card supporting OpenGL 3.3 with 1GB GPU memory is recommended. GPU acceleration using Parallel Computing Toolbox requires a GPU with a specific range of compute capability. For more information, see GPU Computing Requirements.

MAC

Operating System	Processor	Storage	RAM	Graphics
64–Bit MATLAB and Simulink Product Families (Not available in 32–bit)				
macOS Sequoia (15) **macOS Sonoma (14)** **macOS Ventura (13.6** **Note:** macOS Monterey is no longer supported.	Minimum: Any Intel x86-64 processor with two or more cores Recommended: Any Intel x86-64 processor with four or more cores and AVX2 instruction set support Note: A future release of MATLAB will require a processor with AVX2 instruction set support **Apple Silicon:** **Minimum:** Any M-series chip	3.8 GB for just MATLAB 4-6 GB for a typical installation 16 GB for an allproducts installation An SSD is strongly recommended	Minimum: 8 GB Recommended: 16 GB	Any Mac able to run macOS Monterey hasa GPU able to run MATLAB. GPU acceleration with Parallel Computing Toolbox is not available on macOS.

Operating System	Processor	Storage	RAM	Graphics
64–Bit MATLAB and Simulink Product Families (Not available in 32–bit)				
Ubuntu 24.04 LTS Ubuntu 22.04 LTS Ubuntu 20.04 LTS Debian 12 Debian 11 Red Hat Enterprise Linux 9 Red Hat Enterprise Linux 8 (minimum 8.6) Red Hat Enterprise Linux 7 (minimum 7.9) SUSE Linux Enterprise Desktop 15 SUSE Linux Enterprise Server 15 **Note:** Red Hat Enterprise Linux 7 and SUSE Linux Enterprise Server 12 are no longer supported.	**Minimum**: Any Intel or AMD x86-64 processor with two or more cores **Recommended**: Any Intel or AMD x86-64 processor with four or more cores and AVX2 instruction set support **Note**: A future release of MATLAB will require a processor with AVX2 instruction set support	4.1 GB for just MATLAB 4-6 GB for a typical installation 25 GB for an all products installation An SSD is strongly recommended	Minimum: 8 GB Recommended: 16 GB	No specific graphics card is required, but a hardware accelerated graphics card supporting OpenGL 3.3 with 1GB GPU memory is recommended. Use of vendor-supplied proprietary drivers is strongly recommended. GPU acceleration using Parallel Computing Toolbox requires a GPU with a specific range of compute capability. For more information, see GPU Computing Requirements.