University of Mosul / College of Engineering / Computer Engineering Department

Learning Links for Students

No.	Description	Link
	Introduction to Computer Engineering	https://www.computer.org/
2	Programming: Providing links to programming courses in languages such as C++, Java, Python, and C.	https://www.codecademy.com/
3	Algorithms and Data Structures	https://www.geeksforgeeks.org/data-structures/
4	Operating Systems, Memory Management, and Process Management	https://pages.cs.wisc.edu/~remzi/OSTEP/
5	Databases: Learning SQL and NoSQL, table design, and the importance of data indexing.	https://www.w3schools.com/sql/
6	Artificial Intelligence: Learning fundamental algorithms such as machine learning and deep learning.	https://www.coursera.org/learn/ai-for-everyone
7	Software Engineering: Teaching concepts of object-oriented programming, software design, and software testing	https://insights.sei.cmu.edu/library/
8	Networks: Learning about network design, internet protocols, and network security.	https://www.youtube.com/@computernetworks_dr.salaha2490 https://www.netacad.com/
9	Information Security: Learning the fundamentals of network security, encryption, and how to protect systems from attacks.	https://www.cybrary.it/
10	Cloud Computing: Learning how to work with cloud services such as AWS, Google Cloud, and Azure.	https://aws.amazon.com/training/
	Parallel Programming: Learning how to	https://developer.nvidia.co

11	write programs that run efficiently on multiple processors.	m/cuda-zone
12	Web Systems: Learning HTML, CSS, JavaScript, and frameworks such as React and Node.js.	https://developer.mozilla.org/en-US/
13	Real-Time Systems: Studying the design and development of computing systems that require rapid response times.	https://ece.vt.edu/undergrad/courses/4550.html
14	Power Conversion: Studying energy conversion techniques using electronic devices, such as transformers and inverters.	https://ocw.mit.edu/courses/6-622-power-electronics-spring-2023/
15	Control Systems: Learning control systems that guide movements in automated systems.	https://ctms.engin.umich.edu/CTMS/index.php?aux=Home
16	Data Management: Learning how to manage large and complex data in computing systems.	https://ce.uci.edu/programs/technology/database-management
17	Occupational Safety: Learning safety standards and procedures in engineering workplaces and laboratories.	https://www.osha.gov/
18	Professional Ethics: Learning the ethical principles that govern the practice of engineering and technology.	https://www.ieee.org/about/corporate/governance/p7-8.html
19	English Language: Learning English to help develop academic and scientific writing skills.	https://www.duolingo.com/course/en/ar/Learn-English
20	Numerical Analysis: Learning mathematical methods to solve equations using computers.	https://ocw.mit.edu/search/?q=
21	Concurrent Programming: Learning programming techniques that manage multiple processes at the same time.	https://www.geeksforgeeks.org/
22	Quantum Computing: Learning how quantum computing works and how it will impact the future.	https://research.ibm.com/quantum-computing
	Mobile Application Development: Learning	https://flutter.dev/

23	to develop mobile apps using Flutter and React Native.	
24	A platform that offers free or paid courses from the world's best universities.	https://www.edx.org/
25	A platform that contains many educational courses in various technical fields.	https://www.udemy.com/
26	Practical Projects: Encouraging students to apply what they have learned through real projects in areas such as software development, network building, and artificial intelligence applications.	https://github.com/
27	Technology Resources and News: Links to websites and scientific journals to provide students with the latest news and developments in the field of computing.	https://techcrunch.com/
28	Academic Forums and Communities: Encouraging students to join forums and discussion platforms related to computer engineering.	https://stackoverflow.com/questions