**MOOCs**

**Programming languages:**

C:

<https://alison.com/course/introduction-to-c-programming>

<https://alison.com/course/c-programming-fundamentals-of-numbers-variables-and-arrays>

<https://alison.com/course/c-programming-using-pointers-constants-and-strings>

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-087-practical-programming-in-c-january-iap-2010>

<https://onlinecourses.nptel.ac.in/noc18-cs10>

<https://onlinecourses.nptel.ac.in/noc18_cs25>

python:

<https://onlinecourses.nptel.ac.in/noc18_cs21>

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-189-a-gentle-introduction-to-programming-using-python-january-iap-2011>

<https://alison.com/course/introduction-to-programming-with-python>

<https://www.udemy.com/python-oops-beginners/>

java:

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-092-introduction-to-programming-in-java-january-iap-2010>

<https://www.udemy.com/java-programming-basics/>

<https://www.edx.org/course/introduction-java-programming-part-1-hkustx-comp102-1x-6>

<https://www.codecademy.com/learn/learn-java>

C++:

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-096-introduction-to-c-january-iap-2011>

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-s096-effective-programming-in-c-and-c-january-iap-2014>

<https://www.edx.org/course/introduction-c-microsoft-dev210x-6>

**Artificial intelligence:**

Deep learning:

<https://in.udacity.com/course/deep-learning--ud730>

<https://www.udemy.com/deep-learning-prerequisites-the-numpy-stack-in-python/>

<https://www.edx.org/course/deep-learning-explained-microsoft-dat236x-1>

paid:

<https://www.udemy.com/deeplearning>

Data science:

<https://in.udacity.com/course/intro-to-data-science--ud359>

<https://alison.com/course/data-science-course-regression-and-clustering-models-alison>

<https://www.edx.org/course/data-science-essentials-microsoft-dat203-1x-6>

paid:

<https://www.udemy.com/data-science-and-machine-learning-with-python-hands-on>

Machine learning:

<https://in.udacity.com/course/intro-to-machine-learning--ud120>

<https://alison.com/course/data-analytics-introduction-to-machine-learning>

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-867-machine-learning-fall-2006>

<https://onlinecourses.nptel.ac.in/noc18_cs26>

<https://www.edx.org/course/machine-learning-gtx-cs7641x-0>

paid:

<https://www.udemy.com/machine-learning-and-artificial-intelligence-with-python>

**Computer Graphics:**

Photoshop:

<https://www.udemy.com/learn-adobe-photoshop-from-scratch>

<https://alison.com/course/adobe-photoshop-cs6-essential-tools>

<https://www.udemy.com/graphic-design-for-beginners> (paid)

Adobe Illustrator:

<https://www.udemy.com/useful-tricks-and-tips-in-adobe-illustrator>

<https://www.edx.org/course/adobe-illustrator-aprende-a-crear-presentaciones-de-impacto>

<https://www.udemy.com/graphic-design-for-beginners> (paid)

<https://www.udemy.com/adobe-illustrator-training> (paid)

Corel:

<https://www.coreldraw.com/en/pages/800382.html>

<https://www.udemy.com/graphic-design-for-beginners> (paid)

After effect:

<https://www.udemy.com/15-advance-mograph-elements-with-after-effect> (paid)

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-837-computer-graphics-fall-2012>

<https://www.udemy.com/become-a-motion-graphic-designer-using-after-effects> (paid)

**Network and Security:**

Cisco:

<https://www.udemy.com/cisco-ccna-getting-started>

<https://www.udemy.com/chrisbryantfreeccnpswitchvideobootcamp>

Wireshark:

<https://www.udemy.com/free-wireshark-course>

<https://www.edx.org/course/computer-networks-internet-kironx-fhlcnx>

<https://www.udemy.com/wireshark> (paid)

Ethical Hacking and cyber security:

<https://www.udemy.com/computer-hacking-fundamentals>

<https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-857-network-and-computer-security-spring-2014>

<https://alison.com/course/introduction-to-computer-network-security>

<https://onlinecourses.nptel.ac.in/noc18_cs24>

<https://www.edx.org/course/cyber-security-basics-a-hands-on-approach>

Database:

Sql/plsql:

<https://www.udemy.com/introduction-to-databases-and-sql-querying>

<https://alison.com/course/databases-dml-statements-and-sql-server-administration>

<https://www.codecademy.com/learn/learn-sql>

<https://www.udemy.com/oracle-plsql-fundamentals-vol-i-ii> (paid)

SQL server:

<https://www.udemy.com/microsoft-sql-server-an-introduction>

<https://alison.com/course/databases-dml-statements-and-sql-server-administration>

<https://www.edx.org/course/developing-sql-databases-microsoft-dat215-1x-3>

Database management:

<https://www.udemy.com/database-design-and-management>

<https://onlinecourses.nptel.ac.in/noc18_cs15>

<https://www.edx.org/course/managing-sql-server-operations-microsoft-dat247x-1>

**web development:**

Html:

<https://www.w3schools.com/css/default.asp>

<https://www.freecodecamp.org/map-aside#nested-collapseHTML5andCSS>

<https://www.codecademy.com/learn/learn-html>

<https://in.udacity.com/course/html-and-css-syntax--ud001>

css:

<https://www.w3schools.com/css/default.asp>

<https://www.freecodecamp.org/map-aside#nested-collapseHTML5andCSS>

<https://www.codecademy.com/learn/learn-css>

<https://in.udacity.com/course/html-and-css-syntax--ud001>

Javascript:

<https://www.w3schools.com/js/default.asp>

<https://www.khanacademy.org/computing/computer-programming>

<https://www.freecodecamp.org/map-aside#nested-collapseBasicJavaScript>

<https://www.edx.org/course/javascript-introduction-w3cx-js-0x-0>

<https://www.codecademy.com/learn/introduction-to-javascript>

<https://in.udacity.com/course/intro-to-javascript--ud803>

Php:

<https://www.w3schools.com/php/default.asp>

<https://www.udemy.com/code-dynamic-websites>

<https://www.udemy.com/php-mysql-tutorial>

<https://www.udemy.com/learn-ajax-with-php>

.Net:

<https://www.udemy.com/design-patterns-csharp-dotnet> (paid)

<https://www.udemy.com/introduction-to-aspnet-core>

<https://www.udemy.com/dot-net-for-beginners/?src=sac&kw=.net>

**BOOK RESOURCES:**

PROGRAMMING LANGUAGES

Textbook for C:

<http://cs.indstate.edu/~cbasavaraj/cs559/the_c_programming_language_2.pdf>

<http://www2.cs.uregina.ca/~hilder/cs430-833/Reference%20Materials/The%20C%20Programming%20Language.pdf>

<https://dspace.lboro.ac.uk/dspace-jspui/bitstream/2134/10054/6/Programming-in-ANSI-C.pdf>

<http://www-personal.acfr.usyd.edu.au/tbailey/ctext/ctext.pdf>

Textbook for C++:

<https://is.muni.cz/www/408176/38744863/The_C__Programming_Language__Stroustrup_.pdf>

<http://www.primeuniversity.edu.bd/070513/vc/eBook/download/BalaguruswamyObjectOrientedProgrammingWithC++Fourth%20Edition.pdf>

<https://www.onlineprogrammingbooks.com/rooks-guide-c/>

<https://www.onlineprogrammingbooks.com/free-download-fundamentals-of-programming-c/>

Textbook for Python:

<https://www.cs.uky.edu/~keen/115/Haltermanpythonbook.pdf>

<http://www.davekuhlman.org/python_book_01.pdf>

<http://www.greenteapress.com/thinkpython/thinkpython.pdf>

<https://www.onlineprogrammingbooks.com/cracking-codes-python/>

Textbook for java:

<http://iiti.ac.in/people/~tanimad/JavaTheCompleteReference.pdf>

<http://vergil.chemistry.gatech.edu/resources/programming/pdf/TIJ2.pdf>

<http://www.iitk.ac.in/esc101/share/downloads/javanotes5.pdf>

<https://freeebookdownload.blogspot.in/2016/06/advanced-java-programming_23.html>

ARTIFICIAL INTELLIGENCE

Deep learning:

<http://www.deeplearningbook.org/front_matter.pdf>

<https://www.cse.iitk.ac.in/users/sigml/lec/DeepLearningLib.pdf>

<http://www.deeplearningbook.org/>

<https://in.mathworks.com/campaigns/products/offer/deep-learning-with-matlab.html>

Data science:

<http://www.zhanjunlang.com/resources/tutorial/Data%20Science%20from%20Scratch%20First%20Principles%20with%20Python.pdf>

<https://storage2.ischool.syr.edu/media.ischool.syr.edu/oldmedia/documents/2012/3/DataScienceBook1_1.pdf>

<https://www.cs.cornell.edu/jeh/book.pdf>

Machine learning:

<http://users.isr.ist.utl.pt/~wurmd/Livros/school/Bishop%20-%20Pattern%20Recognition%20And%20Machine%20Learning%20-%20Springer%20%202006.pdf>

<http://web4.cs.ucl.ac.uk/staff/D.Barber/textbook/090310.pdf>

<https://pdfs.semanticscholar.org/7bc7/54bc548f32b9ac53df67e3171e8e4df66d15.pdf>

<https://www.cs.huji.ac.il/~shais/UnderstandingMachineLearning/understanding-machine-learning-theory-algorithms.pdf>

WEB DEVELOPMENT

HTML:

<https://www.onlineprogrammingbooks.com/pro-html5-programming/>

<https://www.onlineprogrammingbooks.com/thinking-in-html/>

<http://www.wufai.edu.tw/%E7%B6%B2%E9%A0%81%E6%8A%80%E8%A1%93%E4%B8%AD%E5%BF%83/datasheet/HTML%20and%20CSS%20design%20and%20build%20websites.pdf>

[ftp://ftp.micronet-rostov.ru/linux-support/books/programming/HTML-CSS/[Apress]%20-%20The%20Definitive%20Guide%20to%20HTML5%20-%20[Freeman].pdf](ftp://ftp.micronet-rostov.ru/linux-support/books/programming/HTML-CSS/%5bApress%5d%20-%20The%20Definitive%20Guide%20to%20HTML5%20-%20%5bFreeman%5d.pdf)

CSS:

<https://www.onlineprogrammingbooks.com/thinking-in-css/>

<http://nadin.miem.edu.ru/images_2015/css-the-missing-manual.pdf>

<https://res.wisedu.com/FS/%E5%89%8D%E7%AB%AF%E5%85%A5%E9%97%A8/3.%20CSS.Secrets.Better.Solutions.to.Everyday.Web.Design.Problems.pdf>

<https://www.onlineprogrammingbooks.com/free-ebook-css-cookbook-third-edition/>

php:

<https://www.onlineprogrammingbooks.com/php-succinctly/>

<https://datenpdf.com/download/the-joy-of-php-alan-forbes-html-element-php_pdf>

<https://www.onlineprogrammingbooks.com/php-the-right-way/>

.net:

<https://www.onlineprogrammingbooks.com/skype-bots-succinctly/>

<https://www.onlineprogrammingbooks.com/entity-framework-core-succinctly/>

<https://www.onlineprogrammingbooks.com/cryptography-net-succinctly/>

JavaScript:

<http://eloquentjavascript.net/Eloquent_JavaScript.pdf>

<https://7chan.org/pr/src/OReilly_JavaScript_The_Good_Parts_May_2008.pdf>

<https://www.onlineprogrammingbooks.com/the-javascript-way/>

Computer graphics:

CorelDraw:

<http://product.corel.com/help/CorelDRAW/540229932/Main/EN/User-Guide/CorelDRAW-X7.pdf>

<http://www.rohaniterbaru.com/coreldraw-studio-techniques-english.pdf>

After effect:

<http://31.210.87.4/ebook/pdf/Adobe_After_Effects_CC_Classroom_in_a_Book_2015_release.pdf>

<https://www.safaribooksonline.com/library/view/creating-motion-graphics/9780240814155/>

Photoshop:

<http://ptgmedia.pearsoncmg.com/images/9780321823748/samplepages/0321823745.pdf>

<http://ptgmedia.pearsoncmg.com/images/9780133979794/samplepages/9780133979794.pdf>

<https://www.onlineprogrammingbooks.com/free-ebook-an-introduction-to-adobe-photoshop/>

<https://www.onlineprogrammingbooks.com/an-idiots-guide-to-photoshop-part-4-advanced-features-and-fun-photo-effects/>

Adobe illustrator:

<https://help.adobe.com/archive/en/illustrator/cs6/illustrator_reference.pdf>

<http://www.fcekg.com/downloads/illustrator.pdf>

<https://helpx.adobe.com/pdf/illustrator_reference.pdf>

NETWORK

Ethical hacking & Cyber security:

<https://doc.lagout.org/security/Syngress.The.Basics.of.Hacking.and.Penetration.Testing.Aug.2011.pdf>

<https://doc.lagout.org/security/The-Hacker-Playbook-Practical-Guide-To-Penetration-Testing-2014.pdf>

<http://index-of.es/Hack/Kimberly_Graves-CEH_Certified_Ethical_Hacker_Study_Guide-Sybex(2010).pdf>

<http://pages.cs.wisc.edu/~ace/media/gray-hat-hacking.pdf>

<https://news.asis.io/sites/default/files/Cybersecurity_and_Cyberwar.pdf>

Cisco CCNA:

<http://ptgmedia.pearsoncmg.com/images/9781587205804/samplepages/9781587205804.pdf>

<http://dl.hellodigi.ir/dl.hellodigi.ir/dl/book/CCNA%20Cyber%20Ops%20SECFND%20%23210-250%20Official%20Cert%20Guide.pdf>

<http://ptgmedia.pearsoncmg.com/images/9781587205989/samplepages/9781587205989.pdf>

Wire shark:

<https://juliorestrepo.files.wordpress.com/2015/04/wireshark-network-analysis-second-edition.pdf>

<http://repository.root-me.org/R%C3%A9seau/EN%20-%20Practical%20packet%20analysis%20-%20Wireshark.pdf>

<https://danwin1210.me/uploads/F3thinker%20%21-%20Hacking%202017/19.%20Wireshark%20for%20Security%20Professionals%202016.pdf>

<http://kartolo.sby.datautama.net.id/PacktPub/Mastering_Wireshark.pdf>

DATABASE:

SQL:

<https://www.onlineprogrammingbooks.com/introducing-microsoft-sql-server-2014/>

<https://www.onlineprogrammingbooks.com/sql-server-analysis-services-succinctly/>

<http://ptgmedia.pearsoncmg.com/images/9780672336072/samplepages/0672336073.pdf>

<https://www.onlineprogrammingbooks.com/sql-server-transaction-log-management/>

SQL server:

<https://ptgmedia.pearsoncmg.com/images/9780735658561/samplepages/9780735658561.pdf>

<https://the-eye.eu/public/Books/IT%20Various/microsoft_sql_server_2012_t-sql_fundamentals.pdf>

<http://files.hii-tech.com/book/SQL2012/Microsoft.Press.Training.Kit.Exam.70-461.Nov.2012.pdf>

Database management:

<http://iips.icci.edu.iq/images/exam/databases-ramaz.pdf>

<http://mathcomp.uokufa.edu.iq/staff/kbs/file/2/An%20Introduction%20to%20Database%20Systems,%208th%20Edition,%20C%20J%20Date_4.pdf>

<https://www.cs.indiana.edu/classes/a348/spr2013/pach1.pdf>

<http://people.stfx.ca/x2011/x2011asx/5th%20Year/Database/Database%20Management%20Textbook.pdf>