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| **Course**  **Code** | **Course Title** | **Online course link** | **Offered by** |
| ITY 211 | [Design and Analysis of Algorithms](#ITY211) | <https://www.coursera.org/learn/algorithm-design-analysis>  <https://www.coursera.org/learn/algorithm-design-analysis>-1  <https://www.coursera.org/learn/algorithm-design-analysis-2> | Stanford University |
| ITY 212 | [Discrete Mathematical Structures](#ITY212) | <http://ocw.mit.edu/courses/mathematics/18-304-undergraduate-seminar-in-discrete-mathematics-spring-2015/> | MIT |
| ITY 213 | [Object Oriented Programming](#ITY213) | <http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-01sc-introduction-to-electrical-engineering-and-computer-science-i-spring-2011/unit-1-software-engineering/object-oriented-programming/>  <https://www.edx.org/course/object-oriented-programming-iitbombayx-cs101-2x?gclid=Cj0KEQjwpNm-BRCJ3rDNmOuKi9IBEiQAlzDJH2OtFqzwCMd_3qL0_s4LhPFh-ApwsYHIe4jAsx6cDBMaApm18P8HAQ>  <https://www.coursera.org/learn/object-oriented-java> | MIT ,  IIT Bombay,  University of California, San Diego |
| ITY 214 | [Computer Architecture and Organization](#ITY214) | <http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-823-computer-system-architecture-fall-2005/> | MIT |
| ITY 301 | [Operating Systems](#ITY301) | <http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-828-operating-system-engineering-fall-2012/> | MIT |
| ITY 302 | [Object Oriented Analysis and Design](#ITY302) | <http://scpd.stanford.edu/search/publicCourseSearchDetails.do?method=load&courseId=11712> | Stanford University |
| ITY 304 | [Embedded Systems](#ITY304) | <http://www.online.colostate.edu/certificates/embedded-systems/> | Colorado State University |
| ITY 305 | [Database Management Systems](#ITY305) | <http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-830-database-systems-fall-2010/> | MIT |
| ITY 306 | [Data Communication and Computer Networks](#ITY306) | <http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-263j-data-communication-networks-fall-2002/> | MIT |
| ITY 308 | [Principles of Compiler Design](#ITY308) | <http://www.nptelvideos.in/2012/11/compiler-design.html> | IISC Bangalore |
| ITY 309 | [Principles of Software Engineering](#ITY309) | <http://ocw.mit.edu/courses/aeronautics-and-astronautics/16-355j-software-engineering-concepts-fall-2005/>  <https://learn.saylor.org/course/cs302>  <http://www.nptelvideos.in/2012/11/software-engineering.html> | MIT,  IIT Bombay |
| ITY 310 | [Web Technology](#ITY310) | <https://www.extension.harvard.edu/academics/professional-graduate-certificates/web-technologies-certificate> | Harvard University |
| ITY 312 | [Wireless Networks & Mobile Computing](#ITY312) | <http://www.sjsu.edu/pdp/programs/msee-wireless/> | SAN JOSÉ STATE UNIVERSITY |
| ITY 402 | [Network security](#ITY402) | <http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-857-network-and-computer-security-spring-2014/> | MIT |
| ITY 403 | [Data Warehousing and Business Intelligence](#ITY403) | <https://www.coursera.org/specializations/data-warehousing> | University of Colorado |
| ITY 406 | [Cloud Computing](#ITY406) | <https://www.edx.org/course/introduction-cloud-computing-ieeex-cloudintro-x-1>  <https://www.coursera.org/learn/cloud-computing> | The Pennsylvania State University,  University of Illinois at Urbana-Champaign |
| ITY 502 | Artificial Intelligence | <http://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-034-artificial-intelligence-fall-2010/> | MIT |
| ITY 507 | Real Time Systems | <https://www.edx.org/course/introduction-real-time-systems-ieeex-rtsix-0>  <http://freevideolectures.com/Course/3049/Real-Time-Systems> | The Pennsylvania State University,  IIT Kharagpur |