

NORTH MAHARASHTRA UNIVERSITY, JALGAON
Department of Computer Applications
School of Computer Sciences

Subject Equivalence List
Master of Computer Application (MCA)
(With Effect from June-2017)
[under Academic Flexibility]

| Course Code | June 2013 | Course Code | June 2017 |
|--------------------|--|--------------------|--|
| CA-101 | Computer Organization & Architecture | CA-101 | Computer Organization & Architecture |
| CA-102 | Linux Operating System | IT-202 | Linux Administration and Programming |
| CA-103 | Mathematical Foundations of Computer Science | CA-103 | Mathematical Foundations of Computer Science-I |
| CA-104 | C++ Programming | CA-105 | Object Oriented Programming with C++ |
| CA-105 | System Programming | CA-104 | System Programming |
| CA-201 | Object Oriented Analysis and Design (OOAD) | CA-205 | Python Programming |
| CA-202 | Data Structures and Algorithms | CA-202 | Data Structures and Algorithms |
| CA-203 | Operating Systems | CA-203 | Operating Systems |
| CA-204 | Database Management System (DBMS) | CA-102 | Database Management System (DBMS) |
| CA-205 | Computer Networks | CA-204 | Computer Networks |
| CA-301 | Accounting and Management Control | CA-301 | Accounting and Management Control |
| CA-302 | Design and Analysis of Algorithms | CA-302 | Design and Analysis of Algorithms |
| CA-303 | Automata Theory and Computability | CA-201 | Automata Theory and Computability |
| CA-304 | Artificial Intelligence | CA-304 | Artificial Intelligence |

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|---------------|--|---------------|---|
| CA-305 | Java Programming | CS-105 | Object Oriented Programming using JAVA |
| CA-401 | Cloud Computing | CA-401 | High Performance Computing Paradigms and applications |
| CA-402 | Internet Computing | CA-402 | Web Application Technology |
| CA-403 | Current Computing Trends-I | CA-305 | Web Designing |
| CA-404 | Computer Graphics and Image Processing | CA-404 | Computer Graphics and Digital Image processing |
| CA-405 | Optimization Algorithms | CA-405 | Optimization Algorithms |
| CA-501 | Compiler Construction | CA-501 | Compiler Construction |
| CA-502 | Software Engineering | CA-502 | Software Engineering |
| CA-503 | Natural Language Processing | CA-503 | Natural Language Processing |
| CA-504 | Programming with Windows Technologies | IT-304 | Programming with Windows Technologies |
| CA-505 | Current Computing Trends-II | CA-504 | Mobile Application Development |

NORTH MAHARASHTRA UNIVERSITY, JALGAON
Department of Computer Science
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Subject Equivalence List
Master of Science (Computer Science)
[M. Sc.(Computer Science)]
(With effect from June-2017)
[Under Academic Flexibility]

| June 2013 | | June 2017 | |
|--------------------|---------------------------------------|--------------------|--|
| Course Code | Course Title | Course Code | Course Title |
| CS-101 | Advance C++ Programming | CA-105 | Object Oriented Programming with C++ |
| CS-102 | Automata Theory and Computability | CS-103 | Automata Theory and Computability |
| CS-103 | Advance Operating System | CS-104 | Operating Systems |
| CS-104 | Image Processing | CS-303 | Computer Graphics and Digital Image Processing |
| CS-201 | Advance Java Programming | CS-105 | Object Oriented Programming using JAVA |
| CS-202 | Intelligent System | CS-203 | Artificial Intelligence |
| CS-203 | Compiler Construction | CS-201 | Compiler Construction |
| CS-204 | Design & Analysis of Algorithms | CS-204 | Design and Analysis of Algorithms(DAA) |
| CS-301 | Natural Language Processing | CS-302 | Natural Language Processing |
| CS-302 | Data Mining | CS-301 | Machine Learning |
| CS-303 | Programming with Windows Technologies | IT-304 | Programming with Windows Technologies |
| CS-304 | Internet Computing | CS-305 | Web Application Development Technology |
| CS-401 | Software Engineering | CS-304 | Software Engineering |
| CS-402 | Current Computing Trends | CS-102 | Database Management System |
| CS-403 | Optimization Algorithms | CS-202 | Mathematical Foundations of Computer Science |

NORTH MAHARASHTRA UNIVERSITY, JALGAON
School of Computer Sciences

Subject Equivalence List
Master of Science (Information Technology)
[M. Sc.(Information Technology)]
(With effect from June-2017)
[Under Academic Flexibility]

| June 2013 | | June 2017 | |
|--------------------|---------------------------------------|--------------------|---|
| Course Code | Course Title | Course Code | Course Title |
| IT-101 | Theoretical Computer Science | IT-204 | Theoretical Computer Science |
| IT-102 | Digital Image Processing | IT-102 | Computer Graphics and Digital Image Processing |
| IT-103 | Modern Concepts in C++ Programming | CA-105 | Object Oriented Programming using C++ |
| IT-104 | Web Designing and Navigation | IT-103 | Web Designing |
| IT-201 | Web Publishing & Storage Technologies | IT-302 | Data Warehousing and Data Mining |
| IT-202 | Advanced JAVA | IT-105 | Object Oriented Programming using JAVA |
| IT-203 | C# using .NET framework | IT-205 | Ruby and Rails |
| IT-204 | Internet Programming | IT-305 | Web Application Technology |
| IT-301 | Object Oriented Analysis and Design | IT-203 | Database Management System(DBMS) |
| IT-302 | Current Computing Trends-I | IT-301 | Mobile Application Development |
| IT-303 | Windows Programming | IT-304 | Programming With Windows Technologies |
| IT-304 | Advance Operating Systems | IT-202 | Linux Administration and Programming |
| IT-401 | Software Engineering | IT-303 | Software Engineering |
| IT-402 | Current Computing Trends-II | CS-205 | Python Programming |
| IT-403 | Cloud Computing | CA-401 | High Performance Computing Paradigms and Applications |