



**LIST OF COURSES TAUGHT IN ENGLISH - A.Y. 2019/2020**

|   | Degree Programme<br>(B, M, M5) * | Course unit<br>code | Course unit title                                | Teacher's name                    | N. hours | Number<br>of ECTS | Year | Semester |
|---|----------------------------------|---------------------|--|-----------------------------------|----------|-------------------|------|----------|
| <b>FACULTY OF ECONOMICS,<br/>LAW AND POLITICAL<br/>SCIENCES</b> |                                  |                     |  |                                   |          |                   |      |          |
| 1.  | Business and Economics (B)       | EC/0087             | <b>Macroeconomics</b>                            | <a href="#">MATTA STEFANO</a>     | 54       | 9                 | 2    | 1        |
| 2.  | Business and Economics (B)       | EC/0088             | <b>International accounting</b>                  | <a href="#">MURA ALESSANDRO</a>   | 54       | 9                 | 2    | 1        |
| 3.  | Business and Economics (B)       | EC/0090             | <b>International law and<br/>labour relation</b> | <a href="#">LOI PIERA</a>         | 36       | 6                 | 2    | 2        |
| 4.  | Business and Economics (B)       | EC/0091             | <b>Management</b>                                | <a href="#">MARKU ELONA</a>       | 54       | 9                 | 2    | 2        |
| 5.  | Management (M)                   | 13105               | <b>Corporate governance</b>                      | <a href="#">MELIS ANDREA</a>      | 54       | 9                 | 1    | 2        |
| 6.  | Management (M)                   | EC/0007             | <b>Comparative corporate law</b>                 | <a href="#">SCANO DIONIGI</a>     | 36       | 6                 | 1    | 1        |
| 7.  | Management (M)                   | EC/0008             | <b>Public Management</b>                         | <a href="#">SPANO ALESSANDRO</a>  | 36       | 6                 | 1    | 1        |
| 8.  | Management (M)                   | EC/0083             | <b>Advanced corporate finance</b>                | <a href="#">PIRAS LUCA</a>        | 36       | 6                 | 1    | 1        |
| 9.  | Management (M)                   | EC/0006             | <b>Innovation management</b>                     | <a href="#">CASTRIOTTA MANUEL</a> | 54       | 9                 | 1    | 2        |
| 10.   | Management (M)                   | EC/0084             | <b>Business communication</b>                    | <b>To be defined</b>              | 54       | 9                 | 1    | 2        |
| 11.   | Management (M)                   | EC/0012             | <b>Quantitative methods for<br/>management</b>   | <a href="#">CANNAS MASSIMO</a>    | 54       | 9                 | 2    | 1        |
| 12.   | Management (M)                   | EC/0011             | <b>International economics</b>                   | <a href="#">PINNA ANNA MARIA</a>  | 36       | 6                 | 2    | 2        |



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|-----|---|----------|---|--|----|----|---|---|
| 13. | Management (M)                                    | EC/0085  | Applied economics   | <a href="#">USAI STEFANO</a>                     | 54 | 9  | 2 | 1 |
| 14. | Management (M)                                    | 9603     | English (strengthening B2 Level)                          | To be defined                                    | 18 | 3  | 2 | 1 |
| 15. | Management (M)                                    | 4932     | International Marketing                                   | <a href="#">CABIDDU FRANCESCA</a>                | 36 | 6  | 2 | 2 |
| 16. | Management (M)                                    | EC/0086  | International financial reporting                         | <a href="#">MURA ALESSANDRO / ASQUER ALBERTO</a> | 36 | 6  | 2 | 2 |
| 17. | Sustainable Tourism Management and Monitoring (M) | EC/0052  | International Standards and Tourism Indicators Monitoring | <a href="#">MODICA PATRIZIA</a>                  | 54 | 9  | 2 | 1 |
| 18. | Sustainable Tourism Management and Monitoring (M) | EC/0053  | Spatial Tourism Data Analysis                             | To be defined                                    | 36 | 6  | 2 | 1 |
| 19. | Sustainable Tourism Management and Monitoring (M) | EC/0054  | International Environmental Law and Policy                | <a href="#">AMOROSO DANIELE</a>                  | 36 | 6  | 2 | 2 |
| 20. | International Relations (M)                       | SP/0071  | Economics of globalization*                               | <a href="#">PINNA ANNA MARIA</a>                 | 36 | 6  | 1 | 2 |
| 21. | International Relations (M)                       | 2/61/067 | European Integration                                      | <a href="#">ROSSI CHRISTIAN</a>                  | 54 | 9  | 2 | 1 |
| 22. | International Relations (M)                       | SP/0043  | Law of international organization                         | <a href="#">BIAGIONI GIACOMO</a>                 | 36 | 6  | 2 | 1 |
| 23. | Economics, Finance and Public Policy (M)          | EC/0072  | Policy evaluation   | <a href="#">DI LIBERTO ADRIANA</a>               | 36 | 6  | 2 | 1 |
| 24. | Economics, Finance and Public Policy (M)          | EC/0073  | Economics and geography of innovation                     | <a href="#">PACI RAFFAELE, CERINA FABIO</a>      | 72 | 12 | 2 | 1 |
| 25. | Economics, Finance and Public Policy (M)          | EC/0070  | Risk management and value in banking                      | <a href="#">DE LISA RICCARDO</a>                 | 36 | 6  | 2 | 1 |
| 26. | Economics, Finance and Public Policy (M)          | EC/0068  | Statistical models for portfolio asset allocation         | <a href="#">CONVERSANO CLAUDIO</a>               | 36 | 6  | 2 | 1 |
| 27. | Economics, Finance and Public Policy (M)          | EC/0071  | Financial derivatives and risk management                 | <a href="#">MERELLA VINCENZO</a>                 | 36 | 6  | 2 | 2 |



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|  |   |               |  |                                       |    |   |   |   |
|--|---|---------------|--|---------------------------------------|----|---|---|---|
| 28.  | Law (M5)  | GI/0014       | Comparative contract law               | <a href="#">MANCALEONI ANNA MARIA</a> | 48 | 6 | 2 | 2 |
| 29.  | Law (M5)  | GI/0010       | Transport law                          | <a href="#">PIRAS MASSIMILIANO</a>    | 48 | 6 | 4 | 2 |
| <b>FACULTY OF BIOLOGY AND PHARMACY</b>         |   |               |  |                                       |    |   |   |   |
| 30.  | Pharmacy (M)  | FA/0210/EN    | Pharmacotherapy                        | <a href="#">MORELLI Michela</a>       | 64 | 8 | 5 | 1 |
| 31.  | Pharmacy (M)  | FA/0215/EN    | Pharmacotherapy 1                      | <a href="#">MORELLI Michela</a>       | 64 | 8 | 5 | 1 |
| 32.  | Neuropsychobiology (M)                                | To be defined | Experimental Model of Animal Behaviour | <a href="#">DAZZI Laura</a>           | 36 | 3 | 2 | 2 |
| <b>FACULTY OF ENGINEERING AND ARCHITECTURE</b> |   |               |  |                                       |    |   |   |   |
| 33.  | Chemical and Biotechnological Process Engineering (M) | IN/0240/EN    | Process modeling and simulation        | <a href="#">BARATTI Roberto</a>       | 90 | 9 | 2 | 1 |
| 34.  | Chemical and Biotechnological Process Engineering (M) | IN/0241/EN    | Advanced systems of process control    | <a href="#">TRONCI Stefania</a>       | 90 | 9 | 2 | 2 |
| 35.  | Electronic Engineering (M)                            | IA/0125/EN    | Advanced embedded systems              | <a href="#">Meloni Paolo</a>          | 80 | 8 | 2 | 1 |
| 36.  | Electronic Engineering (M)                            | IA/0205/EN    | Artificial intelligence                | <a href="#">FUMERA Giorgio</a>        | 60 | 6 | 2 | 1 |
| 37.  | Electronic Engineering (M)                            | IA/0152/EN    | Biosensors and bioelectronics          | <a href="#">Lai Stefano</a>           | 60 | 6 | 2 | 2 |
| 38.  | Electronic Engineering (M)                            | IA/0146/EN    | Mixed-signal circuits and systems      | <a href="#">Barbaro Massimo</a>       | 60 | 6 | 2 | 1 |
| 39.  | Electronic Engineering (M)                            | IA/0154/EN    | Nanoelectronics                        | <a href="#">Melis Claudio</a>         | 50 | 5 | 2 | 1 |



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|-----|---|------------|---|--|-----|----|---|---|
| 40. | Electronic Engineering (M)  | IA/0148/EN | <b>Cyber-physical system architectures</b>                                      | <i>To be defined</i>                             | 50  | 5  | 2 | 2 |
| 41. | Electronic Engineering (M)  | IA/0153/EN | <b>Data acquisition technologies</b>  | <a href="#">Pegoraro Paolo Attilio</a>           | 60  | 6  | 2 | 2 |
| 42. | Electronic Engineering (M)  | IA/0020/EN | <b>Internet of things</b>   | <a href="#">Fadda Mauro</a>                      | 60  | 6  | 2 | 1 |
| 43. | Electronic Engineering (M)  | IA/0150/EN | <b>Microwave systems for remote sensing</b>                                     | <a href="#">Montisci Giorgio</a>                 | 70  | 7  | 2 | 2 |
| 44. | Electronic Engineering (M)  | IA/0151/EN | <b>Wearable and flexible electronics</b>  | <a href="#">Cosseddu Piero</a>                   | 70  | 7  | 2 | 1 |
| 45. | Electronic Engineering (M)  | IA/0147/EN | <b>Analysis and control of cyber-physical systems</b>                           | <a href="#">Giua Alessandro</a>                  | 60  | 6  | 2 | 2 |
| 46. | Electronic Engineering (M)  | IA/0123/EN | <b>Operating systems</b>  | <a href="#">Giacinto Giorgio</a>                 | 70  | 7  | 1 | 1 |
| 47. | Electronic Engineering (M)  | IA/0149/EN | <b>Optoelectronics, diagnostics and aerospace applications</b>                  | <a href="#">Vanzi Massimo e Mura Giovanna</a>    | 70  | 7  | 2 | 1 |
| 48. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0205/EN | <b>Module: Artificial intelligence (Integrated course: Intelligent systems)</b> | <a href="#">FUMERA Giorgio</a>                   | 60  | 6  | 1 | 1 |
| 49. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0116/EN | <b>Cybersecurity technologies and Risk Management</b>                           | <a href="#">GIACINTO Giorgio, FUMERA Giorgio</a> | 100 | 10 | 1 | 2 |
| 50. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0113/EN | <b>Industrial software development</b>  | <a href="#">BIGGIO Battista, DIDACI Luca</a>     | 80  | 8  | 1 | 1 |



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|-----|---|------------|--|---|-----|----|---|---|
| 51. | Computer Engineering,<br>Cybersecurity and Artificial<br>Intelligence (M) | IA/0115/EN | <b>Supervisory control and<br/>monitoring</b>  | <a href="#">SEATZU Carla, USAI Elio</a>                             | 90  | 9  | 1 | 1 |
| 52. | Computer Engineering,<br>Cybersecurity and Artificial<br>Intelligence (M) | IA/0117/EN | <b>Fault diagnosis<br/>and estimation<br/>in dynamical systems</b>   | <a href="#">Franceschelli Mauro</a>                                 | 50  | 5  | 1 | 2 |
| 53. | Computer Engineering,<br>Cybersecurity and Artificial<br>Intelligence (M) | IA/0013/EN | <b>Module: Machine learning<br/>(Integrated course:<br/>Intelligent systems)</b>   | <a href="#">ROLI Fabio</a>  | 60  | 6  | 1 | 2 |
| 54. | Computer Engineering,<br>Cybersecurity and Artificial<br>Intelligence (M) | IA/0120/EN | <b>Module: Critical<br/>infrastructures for<br/>innovative power<br/>distribution (Integrated<br/>course: Smart Grid and<br/>critical infrastructures)</b> | <a href="#">PILO Fabrizio Giulio Luca</a>                           | 20  | 2  | 1 | 2 |
| 55. | Computer Engineering,<br>Cybersecurity and Artificial<br>Intelligence (M) | IA/0119/EN | <b>Module: Industrial<br/>informatics for energy<br/>storage systems<br/>(Integrated course:<br/>Smart Grid and critical<br/>infrastructures)</b>          | <a href="#">DAMIANO Alfonso</a>                                     | 20  | 2  | 1 | 2 |
| 56. | Computer Engineering,<br>Cybersecurity and Artificial<br>Intelligence (M) | IA/0121/EN | <b>Module: Measurements<br/>and cyber security for<br/>Smart Grid (Integrated<br/>course: Smart Grid<br/>and critical<br/>infrastructures)</b>             | <a href="#">PEGORARO Paolo Attilio</a>                              | 20  | 2  | 1 | 2 |
| 57. | Computer Engineering,<br>Cybersecurity and Artificial<br>Intelligence (M) | IA/0116/EN | <b>Cybersecurity<br/>technologies<br/>and Risk Management</b>  | <a href="#">GIACINTO Giorgio,</a><br><a href="#">FUMERA Giorgio</a> | 100 | 10 | 1 | 2 |



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| 58. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0113/EN | <b>Industrial software development</b>  | <a href="#">BIGGIO Battista, DIDACI Luca</a> | 80 | 8 | 1 | 1 |
| 59. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0115/EN | <b>Supervisory control and monitoring</b>   | <a href="#">SEATZU Carla, USAI Elio</a>      | 90 | 9 | 1 | 1 |
| 60. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0117/EN | <b>Fault diagnosis and estimation in dynamical systems</b>                          | <a href="#">Franceschelli Mauro</a>          | 50 | 5 | 1 | 2 |
| 61. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0123/EN | <b>Operating systems</b>  | <a href="#">Giacinto Giorgio</a>             | 70 | 7 | 1 | 1 |
| 62. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0139/EN | <b>Data driven models for system engineering</b>                                    | <a href="#">Montisci Augusto</a>             | 60 | 6 | 1 | 2 |
| 63. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0125/EN | <b>Module: Advanced embedded systems (Integrated Course: Embedded Systems)</b>      | <a href="#">Meloni Paolo</a>                 | 80 | 8 | 2 | 1 |
| 64. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0020/EN | <b>Module: Internet of things (Integrated Course: Embedded Systems)</b>             | <a href="#">Fadda Mauro</a>                  | 60 | 6 | 2 | 1 |
| 65. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0131/EN | <b>Biometric technologies and behavioural security</b>                              | <a href="#">Marcialis Gian Luca</a>          | 50 | 5 | 2 | 2 |
| 66. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0133/EN | <b>Fault tolerant and secure control systems</b>                                    | <a href="#">Giua Alessandro</a>              | 50 | 5 | 2 | 2 |
| 67. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0129/EN | <b>Module: Computer forensics techniques (Integrated Course: Computer Forensic)</b> | <i>To be defined</i>                         | 50 | 5 | 2 | 2 |



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|-----|---|------------|---|--|-----|----|---|---|
| 68. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0130/EN | <b>Module: Computer law (Integrated Course: Computer Forensic)</b>                      | <i>To be defined</i>                             | 50  | 5  | 2 | 2 |
| 69. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0134/EN | <b>Stochastic models</b>  | <a href="#">Seatzu Carla</a>                     | 50  | 5  | 2 | 2 |
| 70. | Computer Engineering, Cybersecurity and Artificial Intelligence (M) | IA/0127/EN | <b>Web security and malware analysis</b>  | <i>To be defined</i>                             | 60  | 6  | 2 | 2 |
| 71. | Electrical Engineering (M)  | IA/0139/EN | <b>Module: Data driven models for system engineering</b>                                | <a href="#">Montisci Augusto</a>                 | 60  | 6  | 2 | 2 |
| 72. | Internet Engineering (M)  | IA/0123/EN | <b>Module: Operating Systems (Integrated course: Operating Systems and Law)</b>         | <a href="#">Giacinto Giorgio</a>                 | 70  | 7  | 1 | 1 |
| 73. | Internet Engineering (M)  | IA/0116/EN | <b>Cybersecurity technologies and Risk Management</b>                                   | <a href="#">GIACINTO Giorgio, FUMERA Giorgio</a> | 100 | 10 | 1 | 2 |
| 74. | Internet Engineering (M)  | IA/0134/EN | <b>Stochastic models</b>  | <a href="#">Seatzu Carla</a>                     | 50  | 5  | 2 | 2 |
| 75. | Internet Engineering (M)  | IA/0020/EN | <b>Internet of things</b>   | <a href="#">Fadda Mauro</a>                      | 60  | 6  | 2 | 1 |
| 76. | Internet Engineering (M)  | IA/0125/EN | <b>Advanced embedded systems</b>  | <a href="#">Meloni Paolo</a>                     | 80  | 8  | 2 | 1 |
| 77. | Environmental and Land Engineering (M)                              | IN/0242/EN | <b>Module: Strategic planning (Integrated Course: Strategic Environmental Planning)</b> | <i>To be defined</i>                             | 60  | 6  | 2 | 1 |
| 78. | Environmental and Land Engineering (M)                              | IN/0244/EN | <b>Solid waste management</b>   | <a href="#">MUNTONI Aldo</a>                     | 90  | 9  | 2 | 1 |



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|----------------------------|--|------------|--|---|----|---|---|---|
| 79.                        | Environmental and Land Engineering (M) | IN/0243/EN | <b>Geochemical characterization</b>  | <a href="#">VALERA Paolo</a>  | 60 | 6 | 2 | 2 |
| 80.                        | Environmental and Land Engineering (M) | IN/0245/EN | <b>Module: Control and treatment of atmospheric emissions (Integrated Course: Treatment of Fluids and Waste Gases)</b> | <a href="#">CAPPALAI Giovanna Salvatorica</a>                         | 60 | 6 | 2 | 2 |
| 81.                        | Environmental and Land Engineering (M) | IA/0155/EN | <b>Wastewater Treatment Plants</b>   | <a href="#">Carucci Alessandra</a><br><a href="#">Cappai Giovanna</a> | 90 | 9 | 2 | 1 |
| <b>FACULTY OF SCIENCES</b> |  |            |  |   |    |   |   |   |
| 82.                        | Computer Science (M)                   | SM/0096/EN | <b>Geometric Algorithms and Spatial Data Structures</b>  | <a href="#">SCATENI Riccardo</a>                                      | 72 | 9 | 1 | 1 |
| 83.                        | Computer Science (M)                   | SM/0164/EN | <b>Artificial Intelligence: Natural Language Processing</b>  | <a href="#">ATZORI Maurizio</a>                                       | 48 | 6 | 1 | 2 |
| 84.                        | Computer Science (M)                   | SM/0121/EN | <b>Network Flows Optimization</b>  | <a href="#">DI FRANCESCO Massimo</a>                                  | 48 | 6 | 2 | 1 |
| 85.                        | Computer Science (M)                   | SM/0123/EN | <b>Networking Architecture</b>   | <a href="#">FENU Gianni</a>   | 48 | 6 | 2 | 1 |
| 86.                        | Computer Science (M)                   | SM/0122/EN | <b>Formal Methods</b>  | <a href="#">PINNA Gian Michele</a>                                    | 48 | 6 | 2 | 1 |
| 87.                        | Computer Science (M)                   | SM/0124/EN | <b>Big Data</b>  | <a href="#">REFORGIATO RECUPERO</a><br><a href="#">Diego</a>          | 48 | 6 | 2 | 1 |
| 88.                        | Physics (M)                            | SM/0046/EN | <b>Gauge Theory</b>  | <a href="#">D'APPOLLONIO Giuseppe</a>                                 | 48 | 6 | 2 | 1 |
| 89.                        | Physics (M)                            | SM/0047/EN | <b>Photonics</b>   | <a href="#">BONGIOVANNI Giovanni</a>                                  | 48 | 6 | 2 | 1 |
| 90.                        | Physics (M)                            | SM/0048/EN | <b>Biophysics</b>  | <a href="#">CECCARELLI Matteo</a>                                     | 48 | 6 | 2 | 1 |





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|------------------------------|--|---------------|--|-----------------------------------|---------------|--------------|---|----|
| 91.                          | Physics (M)  | 60/68/3/EN    | Astrophysics   | <a href="#">RIGGIO Alessandro</a> | 48            | 6            | 1 | 2  |
| 92.                          | Physics (M)  | To be defined | Molecular Modelling of Biological Systems                | <a href="#">To be defined</a>     | 48            | 6            | 2 | 1  |
| 93.                          | Physics (M)  | To be defined | Quantum Optics   | <a href="#">To be defined</a>     | 48            | 6            | 2 | 1  |
| <b>FACULTY OF HUMANITIES</b> |  |               |  |                                   |               |              |   |    |
| 94.                          | Languages and Cultures for Linguistic Mediation (B)        | 32/19/041     | English Language Translation 1                           | <a href="#">DENTI Olga</a>        | 54            | 9            | 2 | 2  |
| 95.                          | Languages and Communication (B)                            | LS/0096       | Comparative Literature                                   | <a href="#">PALA Mauro</a>        | 30            | 6            | 3 | 1  |
| 96.                          | Languages and Communication (B)                            | LS/0091       | English Language and Communication Skills                | <a href="#">FODDE LUISANNA</a>    | 30            | 6            | 3 | 1  |
| 97.                          | Languages and Communication (B)                            | LS/0095       | Comparative Analysis of Democratization                  | <a href="#">VENTURINO Fulvio</a>  | 30            | 6            | 3 | 1  |
| 98.                          | Modern European and American Languages and Literatures (M) | LS/0117       | History and Institutions of the United States of America | <i>To be defined</i>              | 30            | 6            | 1 | ND |
| 99.                          | Modern European and American Languages and Literatures (M) | 32/15/037     | Anglo-American Language and Literatures                  | <a href="#">IULIANO Fiorenzo</a>  | 60            | 12           | 2 | 2  |
| 100.                         | Texts Translation (M)                                      | 32/16/037     | Anglo-American Language and Literatures                  | <a href="#">IULIANO Fiorenzo</a>  | 30            | 6            | 2 | 2  |
| 101.                         | Languages and Cultures for Linguistic Mediation            | 32/19/037     | Anglo-American Language and Literatures                  | <a href="#">IULIANO Fiorenzo</a>  | 60<br>0<br>30 | 12<br>o<br>6 | 2 | 2  |
| 102.                         | Texts Translation (M)                                      | 32/16/042     | English Language Translation 2                           | <a href="#">GIORDANO Michela</a>  | 45            | 9            | 2 | 1  |

\*B, Bachelor (1st cycle); M, Master (2<sup>nd</sup> cycle); M5, 5-year single cycle Master