

**«Medicine (6 Years / 360 ECTS / MD Doctor of Medicine)» FRANKFURT BRANCH**

**TABLE 2: COURSE DISTRIBUTION PER SEMESTER**

| A/A   | Course Type | Course Name                      | Course Code | Periods Per Week (Theory and Lab) | Period Duration in Minutes | Number of weeks/ Academic Semester | Total Hours/ Academic Semester | Number of ECTS |
|---|-------------|----------------------------------|-------------|-----------------------------------|----------------------------|------------------------------------|--------------------------------|----------------|
| <b>1<sup>st</sup> Academic Year/1<sup>st</sup> Semester</b> |             |                                  |             |                                   |                            |                                    |                                |                |
| 1.  | Compulsory  | Medical Biochemistry I           | MD100       | 3/4                               | 50                         | 13 + Exams                         | 98                             | 6              |
| 2.  | Compulsory  | Cellular and Molecular Biology   | MD105       | 3/4                               | 50                         | 13 + Exams                         | 98                             | 6              |
| 3.  | Compulsory  | Physics for Biomedical Sciences  | MD110       | 4/0                               | 50                         | 13 + Exams                         | 56                             | 6              |
| 4.  | Compulsory  | Biostatistics                    | MD115       | 2/3                               | 50                         | 13 + Exams                         | 70                             | 6              |
| 5.  | Compulsory  | Clinical Practicum and First Aid | MD120       | 1/2                               | 50                         | 13 + Exams                         | 42                             | 6              |
| <b>1<sup>st</sup> Academic Year/2<sup>nd</sup> Semester</b> |             |                                  |             |                                   |                            |                                    |                                |                |
| 6.  | Compulsory  | Anatomy I                        | MD125       | 2/4                               | 50                         | 13 + Exams                         | 84                             | 6              |
| 7.  | Compulsory  | Histology - Embryology I         | MD130       | 2/4                               | 50                         | 13 + Exams                         | 84                             | 6              |
| 8.  | Compulsory  | Physiology I                     | MD135       | 2/4                               | 50                         | 13 + Exams                         | 84                             | 6              |
| 9.  | Compulsory  | Medical Biochemistry II          | MD140       | 2/4                               | 50                         | 13 + Exams                         | 84                             | 6              |
| 10.   | Compulsory  | Introduction to Genetics         | MD145       | 2/4                               | 50                         | 13 + Exams                         | 84                             | 6              |

**2<sup>nd</sup> Academic Year/3<sup>rd</sup> Semester**

|     |            |   |       |     |    |            |    |   |
|-----|------------|---|-------|-----|----|------------|----|---|
| 11. | Compulsory | Anatomy II  | MD200 | 2/4 | 50 | 13 + Exams | 98 | 6 |
| 12. | Compulsory | Histology - Embryology II   | MD205 | 3/3 | 50 | 13 + Exams | 84 | 6 |
| 13. | Compulsory | Physiology II   | MD210 | 3/4 | 50 | 13 + Exams | 98 | 6 |
| 14. | Compulsory | Ethics, Society, Public Health and Legal Medicine                               | MD215 | 3/2 | 50 | 13 + Exams | 70 | 6 |
| 15. | Compulsory | Inter-professional practice in Healthcare                                       | MD220 | 2/0 | 50 | 13 + Exams | 28 | 3 |
| 16. | Elective   | Students choose one of the preclinical electives shown at the end of this table |       | 1/0 | 50 | 13 + Exams | 14 | 3 |

**2<sup>nd</sup> Academic Year/4<sup>th</sup> Semester**

|     |            |   |       |     |    |            |     |   |
|-----|------------|---|-------|-----|----|------------|-----|---|
| 17. | Compulsory | Neuroscience  | MD230 | 4/4 | 50 | 13 + Exams | 112 | 6 |
| 18. | Compulsory | Medical Psychology  | MD235 | 3/0 | 50 | 13 + Exams | 42  | 6 |
| 19. | Compulsory | Clinical Skills   | MD240 | 2/4 | 50 | 13 + Exams | 84  | 6 |
| 20. | Compulsory | Basic Immunology and Microbiology   | MD245 | 3/3 | 50 | 13 + Exams | 84  | 6 |
| 21. | Compulsory | Introduction to Epidemiology  | MD250 | 3/0 | 50 | 13 + Exams | 42  | 3 |
| 22. | Elective   | Students choose one of the preclinical electives shown at the end of this table |       | 1/0 | 50 | 13 + Exams | 14  | 3 |

**3<sup>rd</sup> Academic Year/5<sup>th</sup> Semester**

|     |            |                   |       |     |    |            |    |   |
|-----|------------|-------------------|-------|-----|----|------------|----|---|
| 23. | Compulsory | Pathophysiology I | MD300 | 3/3 | 50 | 13 + Exams | 84 | 6 |
|-----|------------|-------------------|-------|-----|----|------------|----|---|

|   |            |   |       |     |    |            |     |    |
|---|------------|---|-------|-----|----|------------|-----|----|
| 24.   | Compulsory | Pathology I   | MD305 | 3/3 | 50 | 13 + Exams | 84  | 6  |
| 25.   | Compulsory | Pharmacology I  | MD310 | 3/3 | 50 | 13 + Exams | 84  | 6  |
| 26.   | Compulsory | Communication Skills  | MD322 | 1/2 | 50 | 13 + Exams | 42  | 3  |
| 27.   | Compulsory | Public & Global Health  | MD324 | 3   | 50 | 13 + Exams | 42  | 3  |
| 28.   | Compulsory | Medical Microbiology  | MD320 | 3/3 | 50 | 13 + Exams | 84  | 6  |
| <b>3<sup>rd</sup> Academic Year/6<sup>th</sup> Semester</b> |            |   |       |     |    |            |     |    |
| 29.   | Compulsory | Pathophysiology II  | MD325 | 3/3 | 50 | 13 + Exams | 84  | 6  |
| 30.   | Compulsory | Pathology II  | MD330 | 3/3 | 50 | 13 + Exams | 84  | 6  |
| 31.   | Compulsory | Pharmacology II   | MD335 | 3/3 | 50 | 13 + Exams | 84  | 6  |
| 32.   | Compulsory | Medical Immunology  | MD338 | 4/0 | 50 | 13 + Exams | 84  | 6  |
| 33.   | Compulsory | Research Methods  | MD345 | 3/1 | 50 | 13 + Exams | 56  | 3  |
| 34.   | Elective   | Students choose one of the preclinical electives shown at the end of this table |       | 1/0 | 50 | 13 + Exams | 14  | 3  |
| <b>4<sup>th</sup> Academic Year/7<sup>th</sup> Semester</b> |            |   |       |     |    |            |     |    |
| 35.   | Compulsory | Internal Medicine I   | MD400 | 6/8 | 50 | 16 + Exams | 224 | 12 |
| 36.   | Compulsory | Surgery I   | MD405 | 6/8 | 50 | 16 + Exams | 224 | 12 |
| 37.   | Compulsory | Medical Imaging   | MD410 | 6/0 | 50 | 16 + Exams | 96  | 6  |
| <b>4<sup>th</sup> Academic Year/8<sup>th</sup> Semester</b> |            |   |       |     |    |            |     |    |

|   |            |  |       |     |    |            |     |    |
|---|------------|--|-------|-----|----|------------|-----|----|
| 38.   | Compulsory | Internal Medicine II   | MD415 | 6/8 | 50 | 16 + Exams | 224 | 12 |
| 39.   | Compulsory | Surgery II   | MD420 | 6/8 | 50 | 16 + Exams | 224 | 12 |
| 40.   | Compulsory | Dermatology and Rheumatology   | MD425 | 3/0 | 50 | 16 + Exams | 48  | 3  |
| 41.   | Elective   | Students choose one of the clinical electives shown at the end of this table |       | 1/0 | 50 | 16 + Exams | 16  | 3  |
| <b>5<sup>th</sup> Academic Year/9<sup>th</sup> Semester</b>                       |            |  |       |     |    |            |     |    |
| 42.   | Compulsory | Neurosciences/Mental Health I  | MD500 | 6/7 | 50 | 16 + Exams | 208 | 12 |
| 43.   | Compulsory | Maternal/Child health I  | MD505 | 6/7 | 50 | 16 + Exams | 208 | 12 |
| 44.   | Compulsory | Family Medicine / Primary care I   | MD510 | 2/1 | 50 | 16 + Exams | 48  | 3  |
| 45.   | Elective   | Students choose one of the clinical electives shown at the end of this table |       | 1/0 | 50 | 16 + Exams | 16  | 3  |
| <b>5<sup>th</sup> Academic Year/10<sup>th</sup> Semester</b>                      |            |  |       |     |    |            |     |    |
| 46.   | Compulsory | Neurosciences/Mental Health II   | MD515 | 6/7 | 50 | 16 + Exams | 208 | 12 |
| 47.   | Compulsory | Maternal/Child health II   | MD520 | 6/7 | 50 | 16 + Exams | 208 | 12 |
| 48.   | Compulsory | Family Medicine/Primary care II  | MD525 | 2/1 | 50 | 16 + Exams | 48  | 3  |
| 49.   | Elective   | Students choose one of the clinical electives shown at the end of this table |       | 1/0 | 50 | 16 + Exams | 16  | 3  |
| <b>6<sup>th</sup> Academic Year/11<sup>th</sup> and 12<sup>th</sup> Semesters</b> |            |  |       |     |    |            |     |    |
| 50.   | Compulsory | Traineeship I (Internal Medicine III)  | MD600 | 0/7 | 50 | 32         | 224 | 12 |

|     |            |  |       |     |    |    |     |    |
|-----|------------|--|-------|-----|----|----|-----|----|
| 51. | Compulsory | Traineeship II (Surgery III)                         | MD605 | 0/7 | 50 | 32 | 224 | 12 |
| 52. | Compulsory | Traineeship III<br>(Neurosciences/Mental Health III) | MD610 | 0/7 | 50 | 32 | 224 | 9  |
| 53. | Compulsory | Traineeship IV (Maternal/Child health III)           | MD615 | 0/7 | 50 | 32 | 224 | 9  |
| 54. | Compulsory | Traineeship V (Family Medicine / Primary Care III)   | MD620 | 0/5 | 50 | 32 | 160 | 6  |
| 55. | Compulsory | Thesis   | MD625 | 3/3 | 50 | 32 | 192 | 12 |

| <b>Electives</b>                         |          |   |       |     |    |           |    |   |
|--|----------|---|-------|-----|----|-----------|----|---|
| <b>Pre-Clinical Electives (Year 2-3)</b> |          |   |       |     |    |           |    |   |
| 56.                                      | Elective | Antimicrobials and prescribing policies | MD255 | 1/0 | 50 | 14+ Exams | 14 | 3 |
| 57.                                      | Elective | Clinical Nutrition and Metabolism       | MD260 | 1/0 | 50 | 14+ Exams | 14 | 3 |
| 58.                                      | Elective | Drug Design and Development             | MD265 | 1/0 | 50 | 14+ Exams | 14 | 3 |
| 59.                                      | Elective | Healthcare management                   | MD270 | 1/0 | 50 | 14+ Exams | 14 | 3 |
| 60.                                      | Elective | Medical informatics                     | MD275 | 1/0 | 50 | 14+ Exams | 14 | 3 |
| 61.                                      | Elective | Nanomedicine                            | MD280 | 1/0 | 50 | 14+ Exams | 14 | 3 |
| 62.                                      | Elective | Psychoneuro-endocrinology               | MD285 | 1/0 | 50 | 14+ Exams | 14 | 3 |
| 63.                                      | Elective | Regenerative medicine                   | MD290 | 1/0 | 50 | 14+ Exams | 14 | 3 |
| 64.                                      | Elective | Skull Base Clinical Anatomy             | MD295 | 1/0 | 50 | 14+ Exams | 14 | 3 |

|                                      |          |  |       |     |    |            |    |   |
|--------------------------------------|----------|--|-------|-----|----|------------|----|---|
| 65.                                  | Elective | Medical Academic Skills                        | MD297 | 1/0 | 50 | 14+ Exams  | 14 | 3 |
| <b>Clinical Electives (Year 4-5)</b> |          |  |       |     |    |            |    |   |
| 66.                                  | Elective | Acute & Chronic Pain Management                | MD430 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 67.                                  | Elective | Cardio-Thoracic and Vascular Surgery           | MD435 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 68.                                  | Elective | Clinical Toxicology                            | MD440 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 69.                                  | Elective | Diabetes and Cardiovascular health             | MD445 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 70.                                  | Elective | Forensic medicine                              | MD450 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 71.                                  | Elective | Geriatrics                                     | MD455 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 72.                                  | Elective | Infectious diseases: prevention and management | MD460 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 73.                                  | Elective | Maxillofacial surgery                          | MD465 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 74.                                  | Elective | Neuroradiology                                 | MD470 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 75.                                  | Elective | Plastic surgery                                | MD475 | 1/0 | 50 | 16 + Exams | 16 | 3 |
| 76.                                  | Elective | Urology  | MD480 | 1/0 | 50 | 16+ Exams  | 16 | 3 |