



UNIVERSIDAD MILITAR  
NUEVA GRANADA

FACULTAD DE MEDICINA  
PLAN DE ESTUDIOS PROGRAMA DE ESPECIALIZACIÓN EN NEUROCIRUGÍA  
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|--|--|--------------------------|-------------------------|---------------------------|--|---------------------------------|---------------------------------|----------------------------|--------------------------------|-------------------------|-----|-----------------------------------|----|-----|-----|----|----|-----|----|----|----|----|---------------------------|-----|----|----|----|-------------------------|-----------------------|--------------------------|------------------------|---------------------------|--|----|----|-----------------------------|--|-------------------------|--|-----------------|----|---------------------------------|--|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|---|---|----|----|---|---|----|----|---|---|----|----|---|---|----|----|---|---|----|----|--|--|--|-----|------------------------|--|-------------------------|--|--------------------------|--|---------------------------------|--|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|----|----|---|---|----|----|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|-------------------------|--|-----------------------------------|--|--|--|--|--|--|--|--|--|----------|--|--|--|--|--|--|--|--|--|--|-----|---|----|----|-----|---|----|----|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--------------------|--|---------------------|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|--|--|--|--|--|--|----|----|----|---|----|----|----|---|----|----|----|---|--|--|--|--|--|---|-----------------------|--|------------------------|--|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|-----|---|----|---|-----|---|----|---|-----|---|----|---|--|--|--|--|--|----|-------------------------|--|--------------------------|--|---------------------------|--|--|--|--|--|--|--|--|----|
|  | 11   | 55                       | 11                      | 62                        | 11                                     | 60                              | 11                              | 57                         | 11                             | 57                      | 295 |                                   |    |     |     |    |    |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| FUNDAMENTACION BASICA  | <table border="1"> <tr> <td>FB</td> <td>3</td> <td>TP</td> <td>15</td> <td colspan="8"></td> </tr> <tr> <td colspan="12">Neurología Básica 8132401</td> </tr> </table>   |                          |                         |                           |  |                                 |                                 |                            |                                |                         | FB  | 3                                 | TP | 15  |     |    |    |     |    |    |    |    | Neurología Básica 8132401 |     |    |    |    |                         |                       |                          |                        |                           |  |    | 15 |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| FB   | 3  | TP                       | 15                      |                           |  |                                 |                                 |                            |                                |                         |     |                                   |    |     |     |    |    |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| Neurología Básica 8132401  |  |                          |                         |                           |  |                                 |                                 |                            |                                |                         |     |                                   |    |     |     |    |    |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| PROFESIONAL  | <table border="1"> <tr> <td>FB</td> <td>2</td> <td>TP</td> <td>12</td> <td>P</td> <td>2</td> <td>TP</td> <td>12</td> <td>P</td> <td>3</td> <td>TP</td> <td>18</td> <td>P</td> <td>3</td> <td>TP</td> <td>15</td> <td>P</td> <td>3</td> <td>TP</td> <td>15</td> <td>P</td> <td>3</td> <td>TP</td> <td>15</td> <td>69</td> </tr> <tr> <td colspan="2">Neurocirugía Básica 8132126</td> <td colspan="2">Neuroradiología 8132125</td> <td colspan="2">Coloema 8132130</td> <td colspan="2">Neurocirugía Oncológica 8132133</td> <td colspan="2">Neurocirugía Funcional 8132137</td> <td colspan="11"></td> </tr> <tr> <td>P</td> <td>5</td> <td>TP</td> <td>25</td> <td>P</td> <td>8</td> <td>TP</td> <td>40</td> <td>P</td> <td>7</td> <td>TP</td> <td>35</td> <td>P</td> <td>2</td> <td>TP</td> <td>12</td> <td>P</td> <td>3</td> <td>TP</td> <td>15</td> <td colspan="3"></td> <td>127</td> </tr> <tr> <td colspan="2">Neurocirugía I 8132127</td> <td colspan="2">Neurocirugía II 8132129</td> <td colspan="2">Neurocirugía III 8132131</td> <td colspan="2">Neurocirugía Pediátrica 8132134</td> <td colspan="2">Microcirugía Vasos 8132138</td> <td colspan="11"></td> </tr> <tr> <td colspan="10"></td> <td>P</td> <td>3</td> <td>TP</td> <td>15</td> <td>P</td> <td>3</td> <td>TP</td> <td>15</td> <td colspan="5"></td> <td>30</td> </tr> <tr> <td colspan="10"></td> <td colspan="2">Neurocirugía IV 8132135</td> <td colspan="2">Neurocirugía Endovascular 8132139</td> <td colspan="8"></td> </tr> <tr> <td>ELECTIVA</td> <td colspan="10"></td> <td>ELE</td> <td>3</td> <td>TP</td> <td>15</td> <td>ELE</td> <td>2</td> <td>TP</td> <td>12</td> <td colspan="5"></td> <td>27</td> </tr> <tr> <td colspan="10"></td> <td colspan="2">Electiva I 8132501</td> <td colspan="2">Electiva II 8132502</td> <td colspan="8"></td> </tr> <tr> <td rowspan="3">SOCIO HUMANISTICA</td> <td colspan="10"> <table border="1"> <tr> <td>SH</td> <td>11</td> <td>TP</td> <td>1</td> <td>SH</td> <td>11</td> <td>TP</td> <td>1</td> <td>SH</td> <td>11</td> <td>TP</td> <td>2</td> <td colspan="5"></td> <td>4</td> </tr> <tr> <td colspan="2">Humanidades I 8132305</td> <td colspan="2">Humanidades II 8132306</td> <td colspan="2">Dilemas Éticos en Neurocirugía 8132307</td> <td colspan="5"></td> </tr> </table> </td> <td colspan="2"></td> <td>4</td> </tr> <tr> <td colspan="10"> <table border="1"> <tr> <td>INV</td> <td>1</td> <td>TP</td> <td>6</td> <td>INV</td> <td>1</td> <td>TP</td> <td>9</td> <td>INV</td> <td>1</td> <td>TP</td> <td>6</td> <td colspan="5"></td> <td>23</td> </tr> <tr> <td colspan="2">Investigación I 8132205</td> <td colspan="2">Investigación II 8132204</td> <td colspan="2">Investigación III 8132204</td> <td colspan="5"></td> </tr> </table> </td> <td colspan="2"></td> <td>23</td> </tr> </table> |                          |                         |                           |  |                                 |                                 |                            |                                |                         | FB  | 2                                 | TP | 12  | P   | 2  | TP | 12  | P  | 3  | TP | 18 | P                         | 3   | TP | 15 | P  | 3                       | TP                    | 15                       | P                      | 3                         | TP                                     | 15 | 69 | Neurocirugía Básica 8132126 |  | Neuroradiología 8132125 |  | Coloema 8132130 |    | Neurocirugía Oncológica 8132133 |  | Neurocirugía Funcional 8132137 |  |  |  |  |  |  |  |  |  |  |  |  | P | 5 | TP | 25 | P | 8 | TP | 40 | P | 7 | TP | 35 | P | 2 | TP | 12 | P | 3 | TP | 15 |  |  |  | 127 | Neurocirugía I 8132127 |  | Neurocirugía II 8132129 |  | Neurocirugía III 8132131 |  | Neurocirugía Pediátrica 8132134 |  | Microcirugía Vasos 8132138 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P | 3 | TP | 15 | P | 3 | TP | 15 |  |  |  |  |  | 30 |  |  |  |  |  |  |  |  |  |  | Neurocirugía IV 8132135 |  | Neurocirugía Endovascular 8132139 |  |  |  |  |  |  |  |  |  | ELECTIVA |  |  |  |  |  |  |  |  |  |  | ELE | 3 | TP | 15 | ELE | 2 | TP | 12 |  |  |  |  |  | 27 |  |  |  |  |  |  |  |  |  |  | Electiva I 8132501 |  | Electiva II 8132502 |  |  |  |  |  |  |  |  |  | SOCIO HUMANISTICA | <table border="1"> <tr> <td>SH</td> <td>11</td> <td>TP</td> <td>1</td> <td>SH</td> <td>11</td> <td>TP</td> <td>1</td> <td>SH</td> <td>11</td> <td>TP</td> <td>2</td> <td colspan="5"></td> <td>4</td> </tr> <tr> <td colspan="2">Humanidades I 8132305</td> <td colspan="2">Humanidades II 8132306</td> <td colspan="2">Dilemas Éticos en Neurocirugía 8132307</td> <td colspan="5"></td> </tr> </table> |  |  |  |  |  |  |  |  |  | SH | 11 | TP | 1 | SH | 11 | TP | 1 | SH | 11 | TP | 2 |  |  |  |  |  | 4 | Humanidades I 8132305 |  | Humanidades II 8132306 |  | Dilemas Éticos en Neurocirugía 8132307 |  |  |  |  |  |  |  |  | 4 | <table border="1"> <tr> <td>INV</td> <td>1</td> <td>TP</td> <td>6</td> <td>INV</td> <td>1</td> <td>TP</td> <td>9</td> <td>INV</td> <td>1</td> <td>TP</td> <td>6</td> <td colspan="5"></td> <td>23</td> </tr> <tr> <td colspan="2">Investigación I 8132205</td> <td colspan="2">Investigación II 8132204</td> <td colspan="2">Investigación III 8132204</td> <td colspan="5"></td> </tr> </table> |  |  |  |  |  |  |  |  |  | INV | 1 | TP | 6 | INV | 1 | TP | 9 | INV | 1 | TP | 6 |  |  |  |  |  | 23 | Investigación I 8132205 |  | Investigación II 8132204 |  | Investigación III 8132204 |  |  |  |  |  |  |  |  | 23 |
|  | FB   | 2                        | TP                      | 12                        | P                                      | 2                               | TP                              | 12                         | P                              | 3                       | TP  | 18                                | P  | 3   | TP  | 15 | P  | 3   | TP | 15 | P  | 3  | TP                        | 15  | 69 |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
|  | Neurocirugía Básica 8132126  |                          | Neuroradiología 8132125 |                           | Coloema 8132130                        |                                 | Neurocirugía Oncológica 8132133 |                            | Neurocirugía Funcional 8132137 |                         |     |                                   |    |     |     |    |    |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
|  | P  | 5                        | TP                      | 25                        | P                                      | 8                               | TP                              | 40                         | P                              | 7                       | TP  | 35                                | P  | 2   | TP  | 12 | P  | 3   | TP | 15 |    |    |                           | 127 |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| Neurocirugía I 8132127   |  | Neurocirugía II 8132129  |                         | Neurocirugía III 8132131  |  | Neurocirugía Pediátrica 8132134 |                                 | Microcirugía Vasos 8132138 |                                |                         |     |                                   |    |     |     |    |    |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
|  |  |                          |                         |                           |  |                                 |                                 |                            |                                | P                       | 3   | TP                                | 15 | P   | 3   | TP | 15 |     |    |    |    |    | 30                        |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
|  |  |                          |                         |                           |  |                                 |                                 |                            |                                | Neurocirugía IV 8132135 |     | Neurocirugía Endovascular 8132139 |    |     |     |    |    |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| ELECTIVA   |  |                          |                         |                           |  |                                 |                                 |                            |                                |                         | ELE | 3                                 | TP | 15  | ELE | 2  | TP | 12  |    |    |    |    |                           | 27  |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
|  |  |                          |                         |                           |  |                                 |                                 |                            |                                | Electiva I 8132501      |     | Electiva II 8132502               |    |     |     |    |    |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| SOCIO HUMANISTICA  | <table border="1"> <tr> <td>SH</td> <td>11</td> <td>TP</td> <td>1</td> <td>SH</td> <td>11</td> <td>TP</td> <td>1</td> <td>SH</td> <td>11</td> <td>TP</td> <td>2</td> <td colspan="5"></td> <td>4</td> </tr> <tr> <td colspan="2">Humanidades I 8132305</td> <td colspan="2">Humanidades II 8132306</td> <td colspan="2">Dilemas Éticos en Neurocirugía 8132307</td> <td colspan="5"></td> </tr> </table>   |                          |                         |                           |  |                                 |                                 |                            |                                |                         | SH  | 11                                | TP | 1   | SH  | 11 | TP | 1   | SH | 11 | TP | 2  |                           |     |    |    |    | 4                       | Humanidades I 8132305 |                          | Humanidades II 8132306 |                           | Dilemas Éticos en Neurocirugía 8132307 |    |    |                             |  |                         |  |                 |    | 4                               |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
|  | SH   | 11                       | TP                      | 1                         | SH                                     | 11                              | TP                              | 1                          | SH                             | 11                      | TP  | 2                                 |    |     |     |    |    | 4   |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
|  | Humanidades I 8132305  |                          | Humanidades II 8132306  |                           | Dilemas Éticos en Neurocirugía 8132307 |                                 |                                 |                            |                                |                         |     |                                   |    |     |     |    |    |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| <table border="1"> <tr> <td>INV</td> <td>1</td> <td>TP</td> <td>6</td> <td>INV</td> <td>1</td> <td>TP</td> <td>9</td> <td>INV</td> <td>1</td> <td>TP</td> <td>6</td> <td colspan="5"></td> <td>23</td> </tr> <tr> <td colspan="2">Investigación I 8132205</td> <td colspan="2">Investigación II 8132204</td> <td colspan="2">Investigación III 8132204</td> <td colspan="5"></td> </tr> </table> |  |                          |                         |                           |  |                                 |                                 |                            |                                | INV                     | 1   | TP                                | 6  | INV | 1   | TP | 9  | INV | 1  | TP | 6  |    |                           |     |    |    | 23 | Investigación I 8132205 |                       | Investigación II 8132204 |                        | Investigación III 8132204 |  |    |    |                             |  |                         |  |                 | 23 |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| INV  | 1  | TP                       | 6                       | INV                       | 1                                      | TP                              | 9                               | INV                        | 1                              | TP                      | 6   |                                   |    |     |     |    | 23 |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |
| Investigación I 8132205  |  | Investigación II 8132204 |                         | Investigación III 8132204 |  |                                 |                                 |                            |                                |                         |     |                                   |    |     |     |    |    |     |    |    |    |    |                           |     |    |    |    |                         |                       |                          |                        |                           |  |    |    |                             |  |                         |  |                 |    |                                 |  |                                |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |   |   |    |    |  |  |  |     |                        |  |                         |  |                          |  |                                 |  |                            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |   |    |    |   |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                         |  |                                   |  |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |     |   |    |    |     |   |    |    |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |                    |  |                     |  |  |  |  |  |  |  |  |  |                   |  |  |  |  |  |  |  |  |  |  |    |    |    |   |    |    |    |   |    |    |    |   |  |  |  |  |  |   |                       |  |                        |  |  |  |  |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |     |   |    |   |     |   |    |   |     |   |    |   |  |  |  |  |  |    |                         |  |                          |  |                           |  |  |  |  |  |  |  |  |    |

| CONVENCIONES              |          |     |                     |
|---------------------------|----------|-----|---------------------|
| ÁREAS DEL CONOCIMIENTO    | CRÉDITOS | %   | Tipo de asignaturas |
| FB FUNDAMENTACION BASICAS | 15       | 5%  | T Teórica           |
| P PROFESIONAL             | 226      | 77% | P Práctica          |
| ELE ELECTIVA              | 27       | 9%  | TP Teórica práctica |
| SH SOCIO-HUMANISTICA      | 4        | 1%  |                     |
| INV INVESTIGACION         | 23       | 8%  |                     |
| SF SUFICIENCIA            |          | 0%  |                     |

  

| ÁREA   | Meses | Tipo | CRÉDITOS |
|--|-------|------|----------|
| CODIGO DE LA ASIGNATURA<br>NOMBRE DE LA ASIGNATURA |       |      |          |
| ↑ Co-requisito                                     |       |      |          |
| TOTAL DE CREDITOS                                  |       |      | 295      |
| TOTAL DE MESES                                     |       |      | 55       |
| TOTAL DE ASIGNATURAS                               |       |      | 21       |

OBSERVACIONES (NOTAS, ELECTIVAS, ETC)

Las asignaturas de Humanidades y Dilemas Eticos son transversales

Elabora do por:  
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