



# INGENIERÍA INDUSTRIAL (Modalidad a Distancia)

|                                                        | PRIMER SEMESTRE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SEGUNDO SEMESTRE                        | TERCER SEMESTRE | CUARTO SEMESTRE | QUINTO SEMESTRE | SEXTO SEMESTRE | SEPTIMO SEMESTRE | OCTAVO SEMESTRE | NOVENO SEMESTRE | DECIMO SEMESTRE |     |     |   |                                                                                                                                                                                                  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| 1. ÁREA DE LAS CIENCIAS BÁSICAS                        | <table><tr><td colspan="4">Matemáticas Discretas</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>20</td><td>16</td><td>96</td><td>3</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                               | Matemáticas Discretas                   |                 |                 |                 | TAT            | TI               | HT              | CRÉDITOS        | 20              | 16  | 96  | 3 | <table><tr><td colspan="4">Cálculo Diferencial</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Álgebra Lineal</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Química General</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> | Cálculo Diferencial  |                                                                                                                                                                             |                |     | TAT | TI | HT       | CRÉDITOS | 30 | 114      | 144 | 3                      | Álgebra Lineal                                                                                                                                                                          |                          |                                                                                                                                                                                                                                                                                                                                                                          |                      | TAT | TI  | HT       | CRÉDITOS | 30       | 114 | 144      | 3                                                                                                                                                                                                                                                                                                                                                                  | Química General |                                                                                                                                                                                                                                                                                                                                           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                                                                                                        |                   | TAT | TI  | HT       | CRÉDITOS | 30       | 114 | 144      | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Física I (Mecánica) |                                                                                                                                                                                           |                            |                     | TAT | TI | HT  | CRÉDITOS | 30 | 114      | 144      | 3   | <table><tr><td colspan="4">Ecuaciones Diferenciales</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Física II (Electricidad y Ondas)</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Física III (Termodinámica)</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> | Ecuaciones Diferenciales |                                                                                                                                                                                                                     |                                                        |     | TAT | TI | HT       | CRÉDITOS | 30 | 114      | 144 | 3                           | 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| Cálculo Diferencial                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |                 |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| TAT                                                    | TI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | HT                                      | CRÉDITOS        |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| 2. ÁREA DE CIENCIAS BÁSICAS DE INGENIERÍA              | <table><tr><td colspan="4">Ingeniería Lineal y Algebra</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                       | Ingeniería Lineal y Algebra             |                 |                 |                 | TAT            | TI               | HT              | CRÉDITOS        | 30              | 114 | 144 | 3 | <table><tr><td colspan="4">Dibujo de Ingeniería</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table>                   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| 30                                                     | 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 96                                      | 2               |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| Sistemas de Información                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |                 |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| 3. ÁREA DE INGENIERÍA APLICADA                         | <table><tr><td colspan="4">Introducción a la Ingeniería Industrial</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>16</td><td>96</td><td>3</td></tr></table>                                                                                                                                                                                                                                                                                                                                                             | Introducción a la Ingeniería Industrial |                 |                 |                 | TAT            | TI               | HT              | CRÉDITOS        | 30              | 16  | 96  | 3 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      | <table><tr><td colspan="4">Organizaciones</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>76</td><td>96</td><td>2</td></tr></table> | Organizaciones |     |     |    | TAT      | TI       | HT | CRÉDITOS | 30  | 76                     | 96                                                                                                                                                                                      | 2                        | <table><tr><td colspan="4">Gestión por Procesos</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Procesos Industriales</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> | Gestión por Procesos |     |     |          | TAT      | TI       | HT  | CRÉDITOS | 30                                                                                                                                                                                                                                                                                                                                                                 | 114             | 144                                                                                                                                                                                                                                                                                                                                                                             | 3                         | Procesos Industriales |     |    |     | TAT      | TI | HT       | CRÉDITOS | 30  | 114                                                                                                                                                                                                                                                                                                                                                                | 144              | 3                       | <table><tr><td colspan="4">Métodos y Tiempos</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Programación Lineal</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Ingeniería y Gestión de la Calidad</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>120</td><td>240</td><td>5</td></tr></table> | Métodos y Tiempos |     |     |          | TAT      | TI       | HT  | CRÉDITOS | 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 114                 | 144                                                                                                                                                                                       | 3                          | Programación Lineal |     |    |     | TAT      | TI | HT       | CRÉDITOS | 30  | 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 144                      | 3                                                                                                                                                                                                                   | Ingeniería y Gestión de la Calidad                     |     |     |    | TAT      | TI       | HT | CRÉDITOS | 30  | 120                         | 240                              | 5 | <table><tr><td colspan="4">Diseño y Distribución en Planta</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Investigación de Operaciones I</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Logística</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Salud Ocupacional (Higiene y Seguridad Industrial)</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> | Diseño y Distribución en Planta |     |    |          | TAT      | TI | HT  | CRÉDITOS | 30                                                                                                                                                                      | 114                        | 144 | 3 | Investigación de Operaciones I |     |    |    | TAT      | TI | HT  | CRÉDITOS | 30 | 114                                                                                                                                                                                                                                                                                                                                                                           | 144                   | 3 | Logística |  |     |    | TAT | TI       | HT | CRÉDITOS | 30  | 114 | 144                         | 3 | Salud Ocupacional (Higiene y Seguridad Industrial) |  |     |    | TAT | TI       | HT | CRÉDITOS | 30 | 114 | 144                                                                                                                                                                                                                                                                                                                                                                                   | 3                          | <table><tr><td colspan="4">Planificación y Programación de la Producción</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Investigación de Operaciones II</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Innovación y Gestión 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                | Ingeniería Ambiental |  |  |  | TAT | TI | HT | CRÉDITOS | 30 | 114 | 144 | 3 | <table><tr><td colspan="4">Sistemas de Servicio</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Simulación de Procesos</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Gestión y Evaluación de Proyectos</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> | Sistemas de Servicio |  |  |  | TAT | TI | HT | CRÉDITOS | 30 | 114 | 144 | 3 | Simulación de Procesos |  |  |  | TAT | TI | HT | CRÉDITOS | 30 | 114 | 144 | 3 | Gestión y Evaluación de Proyectos                                                                                                                                  |       |  |  | TAT | TI  | HT | CRÉDITOS | 30       | 114 | 144 | 3  | <table><tr><td colspan="4">Línea de Énfasis I</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> | Línea de Énfasis I |  |  |  | TAT | TI | HT | CRÉDITOS | 30 | 114 | 144 | 3 | <table><tr><td colspan="4">Línea de Énfasis II</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> | Línea de Énfasis II |  |  |  | TAT | TI | HT | CRÉDITOS | 30 | 114 | 144 | 3 | <table><tr><td colspan="4">Línea de Énfasis III</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> | Línea de Énfasis III |  |  |  | TAT | TI | HT | CRÉDITOS | 30 | 114 | 144 | 3 |
| Introducción a la Ingeniería Industrial                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |                 |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| 4. ÁREA DE FORMACIÓN COMPLEMENTARIA                    | <table><tr><td colspan="4">Fundamentos de Matemáticas</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Fundamentos de Física</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>76</td><td>96</td><td>2</td></tr></table> <table><tr><td colspan="4">Fundamentos de Química</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>76</td><td>96</td><td>2</td></tr></table> | Fundamentos de Matemáticas              |                 |                 |                 | TAT            | TI               | HT              | CRÉDITOS        | 30              | 114 | 144 | 3 | Fundamentos de Física                                                                                                                                                                                 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| 30 | 114      | 144      | 3   | Inglés II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                                                                                                                                                                                     |                                                        | TAT | TI  | HT | CRÉDITOS | 30       | 76 | 96       | 2   | Ecología Humana y Ambiental |              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III</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>76</td><td>96</td><td>2</td></tr></table> | Inglés III                 |     |   |                                | TAT | TI | HT | CRÉDITOS | 30 | 76  | 96       | 2  | <table><tr><td colspan="4">Costos y Presupuestos</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Derecho Laboral y Comercial</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>76</td><td>96</td><td>2</td></tr></table> | Costos y Presupuestos |   |           |  | TAT | TI | HT  | CRÉDITOS | 30 | 114      | 144 | 3   | Derecho Laboral y Comercial |   |                                                    |  | TAT | TI | HT  | CRÉDITOS | 30 | 76       | 96 | 2   | <table><tr><td colspan="4">Administración de Personal</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Ciencia, Sociedad y Tecnología</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>76</td><td>96</td><td>2</td></tr></table> | Administración de Personal |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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Estratégica</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>114</td><td>144</td><td>3</td></tr></table> <table><tr><td colspan="4">Seminario de Contexto</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>76</td><td>96</td><td>2</td></tr></table>                                                                                                                                                                                                     | Gerencia Estratégica |  |  |  | TAT | TI | HT | CRÉDITOS | 30 | 114 | 144 | 3 | Seminario de Contexto  |  |  |  | TAT | TI | HT | CRÉDITOS | 30 | 76  | 96  | 2 | <table><tr><td colspan="4">Ética</td></tr><tr><td>TAT</td><td>TI</td><td>HT</td><td>CRÉDITOS</td></tr><tr><td>30</td><td>76</td><td>96</td><td>2</td></tr></table> | Ética |  |  |     | TAT | TI | HT       | CRÉDITOS | 30  | 76  | 96 | 2                                                                                  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| Fundamentos de Matemáticas                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |                 |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| Fundamentos de Física                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |                 |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| TAT                                                    | TI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | HT                                      | CRÉDITOS        |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| 30                                                     | 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 144                                     | 3               |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| Seminario de Contexto                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |                 |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| TAT                                                    | TI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | HT                                      | CRÉDITOS        |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| 30                                                     | 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 96                                      | 2               |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| TAT                                                    | TI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | HT                                      | CRÉDITOS        |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                  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| 30                                                     | 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 96                                      | 2               |                 |                 |                |                  |                 |                 |                 |     |     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                      |                                                                                                                                                                             |                |     |     |    |          |          |    |          |     |                        |                                                                                                                                                                                         |                          |                                                                                                                                                        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CLAVE:

TAT: Horas de Trabajo Asistido por el Tutor

TI: Horas de Trabajo Independiente

HT: Intensidad Horaria

Total

|     |     |     |          |    |
|-----|-----|-----|----------|----|
| TAT | TI  | HT  | CRÉDITOS |    |
| 1   | 30  | 76  | 96       | 2  |
| 2   | 30  | 114 | 144      | 3  |
| 3   | 30  | 76  | 96       | 2  |
| 4   | 30  | 238 | 298      | 7  |
| 5   | 340 | 522 | 672      | 14 |

|     |     |     |          |    |
|-----|-----|-----|----------|----|
| TAT | TI  | HT  | CRÉDITOS |    |
| 1   | 30  | 142 | 172      | 3  |
| 2   | 30  | 114 | 144      | 3  |
| 3   | 30  | 76  | 96       | 2  |
| 4   | 30  | 132 | 162      | 3  |
| 5   | 340 | 608 | 768      | 16 |

|     |     |     |          |    |
|-----|-----|-----|----------|----|
| TAT | TI  | HT  | CRÉDITOS |    |
| 1   | 60  | 228 | 288      | 6  |
| 2   | 30  | 114 | 144      | 3  |
| 3   | 30  | 76  | 96       | 2  |
| 4   | 30  | 238 | 298      | 7  |
| 5   | 380 | 608 | 768      | 16 |

|     |     |     |          |    |
|-----|-----|-----|----------|----|
| TAT | TI  | HT  | CRÉDITOS |    |
| 1   | 60  | 228 | 288      | 6  |
| 2   | 30  | 114 | 144      | 3  |
| 3   | 30  | 76  | 96       | 2  |
| 4   | 30  | 238 | 298      | 7  |
| 5   | 380 | 608 | 768      | 16 |

|     |     |     |          |    |
|-----|-----|-----|----------|----|
| TAT | TI  | HT  | CRÉDITOS |    |
| 1   | 30  | 114 | 144      | 3  |
| 2   | 30  | 76  | 96       | 2  |
| 3   | 120 | 428 | 528      | 11 |
| 4   | 30  | 114 | 144      | 3  |
| 5   | 370 | 646 | 816      | 17 |

|     |     |     |          |    |
|-----|-----|-----|----------|----|
| TAT | TI  | HT  | CRÉDITOS |    |
| 1   | 0   | 0   | 0        | 0  |
| 2   | 30  | 76  | 96       | 2  |
| 3   | 120 | 428 | 528      | 11 |
| 4   | 30  | 114 | 144      | 3  |
| 5   | 380 | 684 | 864      | 18 |

|     |     |     |          |    |
|-----|-----|-----|----------|----|
| TAT | TI  | HT  | CRÉDITOS |    |
| 1   | 0   | 0   | 0        | 0  |
| 2   | 30  | 114 | 144      | 3  |
| 3   | 120 | 428 | 528      | 11 |
| 4   | 30  | 114 | 144      | 3  |
| 5   | 380 | 646 | 816      | 17 |

|     |     |     |          |    |
|-----|-----|-----|----------|----|
| TAT | TI  | HT  | CRÉDITOS |    |
| 1   | 0   | 0   | 0        | 0  |
| 2   | 0   | 0   | 0        | 0  |
| 3   | 120 | 428 | 528      | 11 |
| 4   | 30  | 114 | 144      | 3  |
| 5   | 370 | 646 | 816      | 17 |

|     |     |     |          |    |
|-----|-----|-----|----------|----|
| TAT | TI  | HT  | CRÉDITOS |    |
| 1   | 0   | 0   | 0        | 0  |
| 2   | 0   | 0   | 0        | 0  |
| 3   | 30  | 240 | 300      | 5  |
| 4   | 30  | 76  | 96       | 2  |
| 5   | 110 | 428 | 528      | 11 |

|     |       |       |          |     |
|-----|-------|-------|----------|-----|
| TAT | TI    | HT    | CRÉDITOS |     |
| 1   | 280   | 988   | 1.248    | 26  |
| 2   | 230   | 874   | 1.104    | 23  |
| 3   | 680   | 2.584 | 3.264    | 68  |
| 4   | 430   | 1.634 | 2.064    | 43  |
| 5   | 1.690 | 6.080 | 7.680    | 160 |

Línea de Énfasis 1: Logística (I. Administración de la Cadena de Suministros, II. Operaciones y Establecimientos Logísticos, III. Logística Inversa).

Línea de Énfasis 2: Optimización y Modelamiento (I. Teoría de Juegos, II. Procesos Estocásticos, III. Modelos para la Toma de Decisiones).

Línea de Énfasis 3: Certificación de Procesos (I. Certificación de la Gestión por Procesos, II. Auditoría Interna de Calidad, III. Certificación de la Gestión de Servicios).