



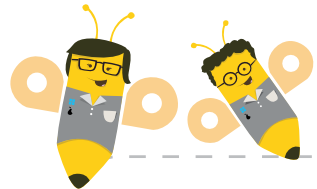
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| OBLIGATORIAS | <table border="1"> <tr><td>Programación I</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Programación I | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Programación II</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Programación II | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Paradigmas de programación</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Paradigmas de programación | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Distributed systems¹</td><td>1</td></tr> <tr><td></td><td>3</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>5</td></tr> </table> | Distributed systems ¹ | 1 | | 3 | | 4 | | 5 | <table border="1"> <tr><td>Teoría de la decisión</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Teoría de la decisión | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Digital image processing¹</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Digital image processing ¹ | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Programación en la nube y virtualización</td><td>2</td></tr> <tr><td></td><td>3</td></tr> <tr><td></td><td>5</td></tr> <tr><td></td><td>7</td></tr> </table> | Programación en la nube y virtualización | 2 | | 3 | | 5 | | 7 | <table border="1"> <tr><td>Artificial intelligence project¹</td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>5</td></tr> <tr><td></td><td>6</td></tr> </table> | Artificial intelligence project ¹ | 1 | | 4 | | 5 | | 6 |
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| Teoría de la decisión | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Programación en la nube y virtualización | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Artificial intelligence project ¹ | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <tr><td>Matemáticas discretas</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Matemáticas discretas | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Estructuras de datos</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Estructuras de datos | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Bases de datos</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Bases de datos | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Ingeniería de software I</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Ingeniería de software I | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Software engineering II¹</td><td>2</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>6</td></tr> <tr><td></td><td>8</td></tr> </table> | Software engineering II ¹ | 2 | | 4 | | 6 | | 8 | <table border="1"> <tr><td>Natural Language Processing¹</td><td>1</td></tr> <tr><td></td><td>3</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>5</td></tr> </table> | Natural Language Processing ¹ | 1 | | 3 | | 4 | | 5 | | | | | | | | | | | | | | | | | | | |
| Matemáticas discretas | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Estructuras de datos | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Bases de datos | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Ingeniería de software I | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Software engineering II ¹ | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Natural Language Processing ¹ | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <tr><td>Matemáticas para inteligencia artificial</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Matemáticas para inteligencia artificial | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Cálculo de una variable</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Cálculo de una variable | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Cálculo multivariable</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Cálculo multivariable | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Knowledge Representation¹</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Knowledge Representation ¹ | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Machine Learning¹</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Machine Learning ¹ | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Ciencia de los datos</td><td>1</td></tr> <tr><td></td><td>3</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>5</td></tr> </table> | Ciencia de los datos | 1 | | 3 | | 4 | | 5 | <table border="1"> <tr><td>Explainable artificial intelligence¹</td><td>2</td></tr> <tr><td></td><td>3</td></tr> <tr><td></td><td>5</td></tr> <tr><td></td><td>7</td></tr> </table> | Explainable artificial intelligence ¹ | 2 | | 3 | | 5 | | 7 | | | | | | | | | | |
| Matemáticas para inteligencia artificial | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Cálculo de una variable | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Cálculo multivariable | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Knowledge Representation ¹ | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Explainable artificial intelligence ¹ | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <tr><td>Álgebra superior y geometría analítica</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Álgebra superior y geometría analítica | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Álgebra lineal</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Álgebra lineal | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Probabilidad y estadística</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Probabilidad y estadística | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Experimental design¹</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Experimental design ¹ | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Seguridad cibernética</td><td>2</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>6</td></tr> <tr><td></td><td>8</td></tr> </table> | Seguridad cibernética | 2 | | 4 | | 6 | | 8 | <table border="1"> <tr><td>Metaheurísticas</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Metaheurísticas | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Business management¹</td><td>2</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>6</td></tr> <tr><td></td><td>8</td></tr> </table> | Business management ¹ | 2 | | 4 | | 6 | | 8 | | | | | | | | | | |
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| Metaheurísticas | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <tr><td>Cultura de paz, igualdad de género e inclusión</td><td>0</td></tr> <tr><td></td><td>3</td></tr> <tr><td></td><td>3</td></tr> </table> | Cultura de paz, igualdad de género e inclusión | 0 | | 3 | | 3 | <table border="1"> <tr><td>Lenguajes formales y autómatas</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Lenguajes formales y autómatas | 4 | | 0 | | 4 | | 8 | | <table border="1"> <tr><td>Optimización</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Optimización | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Normatividad de la inteligencia artificial</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Normatividad de la inteligencia artificial | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Ingeniería económica</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Ingeniería económica | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Gestión de proyectos y administración de Tecnologías de la Información</td><td>2</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>6</td></tr> <tr><td></td><td>8</td></tr> </table> | Gestión de proyectos y administración de Tecnologías de la Información | 2 | | 4 | | 6 | | 8 | | | | | | | | | | | | | | | | | | | | |
| Cultura de paz, igualdad de género e inclusión | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Gestión de proyectos y administración de Tecnologías de la Información | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <tr><td>Ética de la confianza como responsabilidad</td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>4</td></tr> </table> | Ética de la confianza como responsabilidad | 0 | | 4 | | 4 | | <table border="1"> <tr><td>Computer networks¹</td><td>4</td></tr> <tr><td></td><td>0</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>8</td></tr> </table> | Computer networks ¹ | 4 | | 0 | | 4 | | 8 | <table border="1"> <tr><td>Electrónica</td><td>3</td></tr> <tr><td></td><td>1</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>7</td></tr> </table> | Electrónica | 3 | | 1 | | 4 | | 7 | <table border="1"> <tr><td>Embedded systems and internet of things¹</td><td>2</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>6</td></tr> <tr><td></td><td>8</td></tr> </table> | Embedded systems and internet of things ¹ | 2 | | 4 | | 6 | | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ética de la confianza como responsabilidad | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Computer networks ¹ | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Embedded systems and internet of things ¹ | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Práctica profesional
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| HT 18 | HT 20 | HT 21 | HT 19 | HT 16 | HT 13 | HT 10 | HT 1 |
| HP 9 | HP 4 | HP 3 | HP 9 | HP 14 | HP 11+** | HP 24 | HP 4+** |
| TH 27 | TH 24 | TH 24 | TH 28 | TH 30 | TH 24+** | TH 34 | TH 5+** |
| CR 45 | CR 44 | CR 45 | CR 47 | CR 46 | CR 45 | CR 44 | CR 36 |





SD

| PERIODO 1 | PERIODO 2 | PERIODO 3 | PERIODO 4 | PERIODO 5 | PERIODO 6 | PERIODO 7 | PERIODO 8 | | | | | | | | | | | | | | | | |
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| | | | | | <table border="1"> <tr><td>Wearable computing¹</td><td>1</td></tr> <tr><td></td><td>3</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>5</td></tr> </table> | Wearable computing ¹ | 1 | | 3 | | 4 | | 5 | <table border="1"> <tr><td>Reinforcement learning¹</td><td>1</td></tr> <tr><td></td><td>3</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>5</td></tr> </table> | Reinforcement learning ¹ | 1 | | 3 | | 4 | | 5 | |
| Wearable computing ¹ | 1 | | | | | | | | | | | | | | | | | | | | | | |
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| Pattern recognition ¹ | 1 | | | | | | | | | | | | | | | | | | | | | | |
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| Human-Computer Interaction ¹ | 1 | | | | | | | | | | | | | | | | | | | | | | |
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SIMBOLOGÍA

| | |
|----------------------------|---------------------|
| Unidad de aprendizaje (UA) | HT: Horas Teóricas |
| | HP: Horas Prácticas |
| | TH: Total de Horas |
| | CR: Créditos |

→ 9 líneas de seriación.
 Créditos mínimos 22 y máximos 47 por periodo escolar.
 *Actividad académica.
 **Las horas de la actividad académica.

¹ UA optativa que debe impartirse, cursarse y acreditarse en la lengua inglesa.

PARÁMETROS DEL PLAN DE ESTUDIOS

| | |
|--|-----|
| Núcleo básico: cursar y acreditar 16 UUAA obligatorias | 47 |
| | 16 |
| | 63 |
| | 110 |

| | |
|--|-----|
| Núcleo sustantivo: cursar y acreditar 19 UUAA obligatorias | 52 |
| | 30 |
| | 82 |
| | 134 |

| | |
|--|--------|
| Núcleo integral: cursar y acreditar 8 UUAA + 2* obligatorias | 16 |
| | 23+*** |
| | 39+*** |
| | 93 |

| | |
|--|----|
| Núcleo integral: cursar y acreditar 3 UUAA optativas | 3 |
| | 9 |
| | 12 |
| | 15 |

Total del núcleo básico: acreditar 16 UUAA para cubrir 110 créditos

Total del núcleo sustantivo acreditar 19 UUAA para cubrir 134 créditos

Total del núcleo integral acreditar 11 UUAA + 2* para cubrir 108 créditos

| TOTAL DEL PLAN DE ESTUDIOS | |
|----------------------------|----------------------------|
| UUAA obligatorias | 43 + 2 Actividad académica |
| UUAA optativas | 3 |
| UUAA a acreditar | 46 + 2 Actividad académica |
| Créditos | 352 |

