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| DENOMINACIÓN ASIGNATURA: VULNERABILIDADES, AMENAZAS Y PROTOCOLOS DE SEGURIDAD INFORMÁTICOS | | |
| GRADO: | INGENIERÍA DE LA SEGURIDAD | CURSO: 3 º |
| | | CUATRIMESTRE: 2 º |

| PLANIFICACIÓN SEMANAL DE LA ASIGNATURA | | | | | | | | | |
|---|---------|--|------------------|-----------|---|--|--------------------------------------|--------------------|---------------------------------|
| SE-MA-NA | SE-SIÓN | DESCRIPCIÓN DEL CONTENIDO DE LA SESIÓN | GRUPO (Marcar X) | | Indicar espacio necesario distinto aula (aula inform, laboratorio, etc..) | Indicar SI/NO es una sesión con 2 profesores (*) | TRABAJO DEL ALUMNO DURANTE LA SEMANA | | |
| | | | GRAN-DE | PE-QUE-ÑO | | | DESCRIPCIÓN | HORAS PRESENCIALES | HORAS TRABAJO Semana Máximo 7 H |
| 1 | 1 | Introduction to the subject and the assessment method | X | | | | | 1,5 | |
| 1 | 2 | Topic 1. Basic system interconnection protocols. Provided services | X | | | | | 1,5 | |
| 2 | 3 | Topic 1. Basic system interconnection protocols. Provided services | X | | | | | 1,5 | |
| 2 | 4 | Topic 1. Basic system interconnection protocols. Provided services | X | | | | | 1,5 | |
| 3 | 5 | Topic 1. Basic system interconnection protocols. Provided services | X | | | | | 1,5 | |
| 3 | 6 | Topic 1. Basic system interconnection protocols. Provided services | X | | | | | 1,5 | |
| 4 | 7 | Topic 1. Basic system interconnection protocols. Provided services | X | | | | | 1,5 | |
| 4 | 8 | Topic 2. Situation of the security of IT systems and products. Intrinsic and extrinsic vulnerabilities | X | | | | | 1,5 | |
| 5 | 9 | Topic 2. Situation of the security of IT systems and products. Intrinsic and extrinsic vulnerabilities | X | | | | | 1,5 | |
| 5 | 10 | Topic 2. Situation of the security of IT systems and products. Intrinsic and extrinsic vulnerabilities | X | | | | | 1,5 | |

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| 6 | 11 | Topic 3. IT attacks. Analysis, classification and impact assessment | X | | | | | 1,5 | |
| 6 | 12 | Topic 3. IT attacks. Analysis, classification and impact assessment | X | | | | | 1,5 | |
| 7 | 13 | Topic 3. IT attacks. Analysis, classification and impact assessment | X | | | | | 1,5 | |
| 7 | 14 | Topic 4. Security services and measures. Prevented risks | X | | | | | 1,5 | |
| 8 | 15 | Topic 4. Security services and measures. Prevented risks | X | | | | | 1,5 | |
| 8 | 16 | Topic 4. Security services and measures. Prevented risks + Mid-term exam | X | | | | | 1,5 | |
| 9 | 17 | Topic 4. Security services and measures. Prevented risks | X | | | | | 1,5 | |
| 9 | 18 | Topic 5. Digital signature. Certification authorities. Public key infrastructures | X | | | | | 1,5 | |
| 10 | 19 | Topic 5. Digital signature. Certification authorities. Public key infrastructures | X | | | | | 1,5 | |
| 10 | 20 | Topic 5. Digital signature. Certification authorities. Public key infrastructures | X | | | | | 1,5 | |
| 11 | 21 | Topic6. Topic 6. Multi-factor authentication systems. PKI-based authentication systems. | X | | | | | 1,5 | |
| 11 | 22 | Topic6. Topic 6. Multi-factor authentication systems. PKI-based authentication systems. | X | | | | | 1,5 | |
| 12 | 23 | Topic6. Topic 6. Multi-factor authentication systems. PKI-based authentication systems. | X | | | | | 1,5 | |
| 12 | 24 | Topic 7. Security protocols | X | | | | | 1,5 | |
| 13 | 25 | Topic 7. Security protocols | X | | | | | 1,5 | |
| 13 | 26 | Topic 7. Security protocols | X | | | | | 1,5 | |
| 14 | 27 | Keynote from Spanish Civil Guard or external expert (may be rescheduled depending on availability) | X | | | | | 1,5 | |

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| 14 | 28 | Keynote from Spanish Civil Guard or external expert (may be rescheduled depending on availability) | X | | | | | | 1,5 | |
| SUBTOTAL | | | | | | | | | 42+62=110 | |
| 15 | | Tutorship, re-scheduled sessions, assignment delivery, etc. | | | | | | | | |
| 16-18 | | Assessment preparation & assessment | | | | | | | | |
| TOTAL | | | | | | | | | 125 | |

| PLANIFICACIÓN SEMANAL LABORATORIOS EXPERIMENTALES* | | | | | | |
|---|------------------|---|--|--------------------------------------|--------------------|---------------------------------|
| SE- SIÓN | SE- MA- NA | DESCRIPCIÓN DEL CONTENIDO DE LA SESIÓN (El grupo se subdivide en dos. En el horario se programan dos sesiones en el laboratorio indicado en esa semana) | LABORATORIO EN EL QUE SE REALIZAN LAS SESIONES | TRABAJO DEL ALUMNO DURANTE LA SEMANA | | |
| | | | | DESCRIPCIÓN | HORAS PRESENCIALES | HORAS TRABAJO Semana Máximo 7 H |
| 1 | 5 | Network analyzers and firewalls | Informática | | 1,5 | 4 |
| 2 | 8 | Intrusion Detection and integrity check | Informática | | 1,5 | 4 |
| 3 | 10 | Exploitation of vulnerabilities | Informática | | 1,5 | 4 |
| 4 | 12 | Authentication technologies | Informática | | 1,5 | 4 |
| TOTAL | | | | | 6+16 = 22 | |

(*) El número máximo de sesiones con 2 profesores y/o de laboratorios experimentales será de 4.