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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | **REPÚBLICA DE CUBA**  **MINISTERIO DE EDUCACIÓN SUPERIOR**  **PLAN DEL PROCESO DOCENTE** | | | **MODALIDAD: PRESENCIAL** | Dra C. Marcia E. Noda Hernández | | **CARRERA: INGENIERÍA CIVIL** | RECTORA UNIVERSIDAD HOLGUIN |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | No. | DISCIPLINA Y ASIGNATURA | | CANTIDAD DE HORAS | | | DIST. POR AÑOS | | DIST. DE LAS HORAS POR AÑO ACADÉMICO | | | | |  | | TOTAL | CLASES | COMP. LABORAL | EXAMENFINAL | TRABAJOCURSO | 1 | 2 | 3 | 4 | 5 |  | | CURRÍCULO BASE | | | | | | | | | | | | |  | | 1 |  | MARXISMO LENINISMO | 278 | 278 | 0 | 3 | 0 | 184 | 62 | 32 |  |  |  | | 1.1 | 1 | Historia de Cuba | 64 | 64 | - | 1 |  | 64 |  |  |  |  |  | | 1.2 | 2 | Filosofía y Sociedad | 64 | 64 | - | 1 |  | 64 |  |  |  |  |  | | 1.3 | 3 | Curso Especial José Martí | 16 | 16 | - |  |  | 16 |  |  |  |  |  | | 1.4 | 4 | Economía Política del Capitalismo | 40 | 40 | - |  |  | 40 |  |  |  |  |  | | 1.5 | 5 | Econ. Política de la Const. del Socialismo | 30 | 30 | - | 1 |  |  | 30 |  |  |  |  | | 1.6 | 6 | Teoría Socio Política | 32 | 32 | - |  |  |  | 32 |  |  |  |  | | 1.7 | 7 | Problemas Sociales de la Ciencia y la Tecnol. | 32 | 32 | - |  |  |  |  | 32 |  |  |  | | 2 |  | IDIOMA EXTRANJERO | 128 | 128 | 0 | 0 | 0 | 64 | 64 |  |  |  |  | | 2.1 | 8 | Inglés con fines Generales I | 32 | 32 | - |  |  | 32 |  |  |  |  |  | | 2.2 | 9 | Inglés con fines Generales II | 32 | 32 | - |  |  | 32 |  |  |  |  |  | | 2.3 | 10 | Inglés con fines Académicos | 32 | 32 | - |  |  |  | 32 |  |  |  |  | | 2.4 | **11** | Inglés con fines Profesionales | 32 | 32 | - |  |  |  | 32 |  |  |  |  | | 3 |  | EDUCACIÓN FÍSICA | 192 | 192 | 0 | 0 | 0 | 96 | 96 |  |  |  |  | | 3.1 | 12 | Educación Física I | 48 | 48 | - |  |  | 48 |  |  |  |  |  | | 3.2 | 13 | Educación Física II | 48 | 48 | - |  |  | 48 |  |  |  |  |  | | 3.3 | 14 | Educación Física III | 48 | 48 | - |  |  |  | 48 |  |  |  |  | | 3.4 | 15 | Educación Física IV | 48 | 48 | - |  |  |  | 48 |  |  |  |  | | 4 |  | PREPARACIÓN PARA LA DEFENSA | 80 | 80 | 0 | 0 | 0 |  | 36 | 44 |  |  |  | | 4.1 | 16 | Seguridad Nacional | 36 | 36 | - |  |  |  | 36 |  |  |  |  | | 4.2 | 17 | Defensa Nacional | 44 | 44 | - |  |  |  |  | 44 |  |  |  | | 5 |  | MATEMÁTICA APLICADA | 376 | 376 | 0 | 4 | 0 | 240 | 136 |  |  |  |  | | 5.1 | 18 | Matemática I (Cálculo Diferencial e Integral I) | 96 | 96 | - | 1 |  | 96 |  |  |  |  |  | | 5.2 | 19 | Álgebra Lineal y Geometría Analítica | 64 | 64 | - | 1 |  | 64 |  |  |  |  |  | | 5.3 | 20 | Matemática II (Cálculo Diferencial e Integral II) | 80 | 80 | - | 1 |  | 80 |  |  |  |  |  | | 5.4 | 21 | Matemática III (Series, Ecuac. Diferenciales) | 80 | 80 | - | 1 |  |  | 80 |  |  |  |  | | 5.5 | 22 | Probabilidades y Estadística | 56 | 56 | - |  |  |  | 56 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | No. | DISCIPLINA Y ASIGNATURA | | CANTIDAD DE HORAS | | | DIST. POR AÑOS | | DIST. DE LAS HORAS POR AÑO ACADÉMICO | | | | | | TOTAL | CLASES | COMP. LABORAL | EXAMENFINAL | TRABAJOCURSO | 1 | 2 | 3 | 4 | 5 | | CURRÍCULO BASE (cont.…) | | | | | | | | | | | | | | 6 |  | FÍSICA | 200 | 200 | 0 | 3 | 0 | 80 | 120 |  |  |  | | 6.1 | 23 | Física I | 80 | 80 | - | 1 |  | 80 |  |  |  |  | | 6.2 | 24 | Física II | 64 | 64 | - | 1 |  |  | 64 |  |  |  | | 6.3 | 25 | Física III | 56 | 56 | - | 1 |  |  | 56 |  |  |  | | 7 |  | QUÍMICA APLICADA | 64 | 64 | 0 | 0 | 0 | 64 |  |  |  |  | | 7.1 | 26 | Química para Ingenieros | 64 | 64 | - |  |  | 64 |  |  |  |  | | 8 |  | REPRESENTACIÓN GRÁFICA EN INGENIERÍA | 120 | 120 | 0 | 0 | 0 | 64 | 56 |  |  |  | | 8.1 | 27 | Geometría Descriptiva | 64 | 64 | - |  |  | 64 |  |  |  |  | | 8.2 | 28 | Dibujo Aplicado a la Ingeniería | 56 | 56 | - |  |  |  | 56 |  |  |  | | 9 |  | COMPUTACIÓN Y TIC | 112 | 112 | 0 | 0 | 0 | 48 | 64 |  |  |  | | 9.1 | 29 | Computación I | 48 | 48 | - |  |  | 48 |  |  |  |  | | 9.2 | 30 | Computación II | 64 | 64 | - |  |  |  | 64 |  |  |  | | 10 |  | FORMACIÓN PEDAGÓGICA Y GIC | 48 | 48 | 0 | 0 | 1 |  |  |  | 48 |  | | 10.1 | 31 | Formación Pedagógica y GIC | 48 | 48 | - |  | 1 |  |  |  | 48 |  | | 11 |  | TOPOGRAFÍA | 112 | 86 | 26 | 1 | 0 |  | 112 |  |  |  | | 11.1 | 32 | Topografía I | 64 | 46 | 18 |  |  |  | 64 |  |  |  | | 11.2 | 33 | Topografía II | 48 | 40 | 8 | 1 |  |  | 48 |  |  |  | | 12 |  | HIDRÁULICA APLICADA | 40 | 40 | 0 | 0 | 0 |  |  | 40 |  |  | | 12.1 | 34 | Hidráulica Aplicada | 40 | 40 | - |  |  |  |  | 40 |  |  | | 13 |  | TECN. DE CONST. Y CONSER. DE EDIF. | 304 | 244 | 60 | 1 | 0 |  |  | 144 | 160 |  | | 13.1 | 35 | Materiales de Construcción | 64 | 55 | 9 | 1 |  |  |  | 64 |  |  | | 13.2 | 36 | Tecnología del hormigón | 80 | 57 | 23 |  |  |  |  | 80 |  |  | | 13.3 | 37 | Terminaciones e Instalaciones de Edificios | 80 | 72 | 8 |  |  |  |  |  | 80 |  | | 13.4 | 38 | Conservación de Edificaciones | 80 | 60 | 20 |  |  |  |  |  | 80 |  | | 14 |  | CIENCIAS EMPRESARIALES | 144 | 144 | 0 | 0 | 0 | 48 |  | 96 |  |  | | 14.1 | 39 | Ciencia del Proyecto | 48 | 48 | - |  |  | 48 |  |  |  |  | | 14.2 | 40 | Dirección de Proyectos | 48 | 48 | - |  |  |  |  | 48 |  |  | | 14.3 | 41 | La Gestión en el Proceso Inversionista | 48 | 48 | - |  |  |  |  | 48 |  |  | | 15 |  | ANÁLISIS Y DISEÑO DE ESTRUCTURAS | 596 | 544 | 52 | 7 | 1 |  | 196 | 272 | 64 | 64 | | 15.1 | 42 | Modelación Mecánica de las Estructuras I | 80 | 80 | - | 1 |  |  | 80 |  |  |  | | 15.2 | 43 | Modelación Mecánica de las Estructuras II | 116 | 64 | 52 | 1 | 1 |  | 116 |  |  |  | | 15.3 | 44 | Resistencia de Materiales | 64 | 64 | - | 1 |  |  |  | 64 |  |  | | 15.4 | 45 | Análisis de Estructuras | 64 | 64 | - | 1 |  |  |  | 64 |  |  | | 15.5 | 46 | Hormigón Estructural I | 72 | 72 | - | 1 |  |  |  | 72 |  |  | | 15.6 | 47 | Hormigón Estructural II | 72 | 72 | - |  |  |  |  | 72 |  |  | | 15.8 | 48 | Estructuras Metálicas | 64 | 64 | - | 1 |  |  |  |  | 64 |  | | 15.8 | 49 | Puentes y Alcantarillas | 64 | 64 | - | 1 |  |  |  |  |  | 64 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | No. | DISCIPLINA Y ASIGNATURA | | | | CANTIDAD DE HORAS | | | | DIST. POR AÑOS | | | | DIST. DE LAS HORAS POR AÑO ACADÉMICO | | | | | | | TOTAL | CLASES | COMP. LABORAL | | EXAMENFINAL | | TRABAJOCURSO | | 1 | 2 | | 3 | 4 | 5 | | CURRÍCULO BASE (cont…) | | | | | | | | | | | | | | | | | | | | 16 |  | | GEOTECNIA Y CIMIENTOS | | 168 | 152 | 16 | | 2 | | 0 | |  |  | | 88 | 80 |  | | 16.1 | 50 | | Geotecnia | | 88 | 72 | 16 | | 1 | |  | |  |  | | 88 |  |  | | 16.2 | **51** | | Diseño de Ciment. y Estruct. de Contención | | 80 | 80 | 0 | | 1 | |  | |  |  | |  | 80 |  | | 17 |  | | PROY. Y CONSER. DE VÍAS DE COMUNIC. | | **504** | 442 | 62 | | 3 | | 0 | |  |  | | 128 | 144 | 232 | | 17.1 | 52 | | Diseño Geométrico de Carreteras | | 64 | 54 | 10 | |  | |  | |  |  | | 64 |  |  | | 17.2 | 53 | | Ingeniería de Tránsito | | 64 | 64 | 0 | | 1 | |  | |  |  | | 64 |  |  | | 17.3 | 54 | | Maquinaria de Movimiento de Tierra | | 64 | 64 | 0 | |  | |  | |  |  | |  | 64 |  | | 17.4 | 55 | | Explanaciones | | 80 | 60 | 20 | | 1 | |  | |  |  | |  | 80 |  | | 17.5 | 56 | | Pavimentos | | 64 | 64 | 0 | | 1 | |  | |  |  | |  |  | 64 | | 17.6 | 57 | | Conservación de Carreteras | | 72 | 60 | 12 | |  | |  | |  |  | |  |  | 72 | | 17.7 | 58 | | Vías Férreas | | 96 | 76 | 20 | |  | |  | |  |  | |  |  | 96 | | 18 |  | | **DISCIPLINA PRINCIPAL INTEGRADORA** | | **400** | 0 | 400 | | 0 | | 1 | |  |  | |  |  | **400** | | 18.1 | 59 | | Ejercicio de Culminación de Estudio (Tesis) | | 400 | 0 | 400 | |  | | 1 | |  |  | |  |  | 400 | |  | | | | | | | | | | | | | | | | | | | | Total de Horas del **Currículo Base** por Formas y Años | | | | | **3866** | 3250 | 616 | |  | |  | | **888** | **942** | | **844** | **496** | **696** | | Total de Exámenes Finales del **Currículo Base** por Años | | | | | 23 | | | |  | |  | | **6** | **7** | | **6** | **3** | **2** | | Total de Trabajos de Curso del **Currículo Base** por Años | | | | | 3 | | | |  | |  | | **0** | **1** | | **0** | **1** | **1** | | No. | | DISCIPLINA Y ASIGNATURA | | | | | | CANTIDAD DE HORAS | | | | | | | DIST. POR AÑOS | | | | | DIST. DE LAS HORAS POR AÑO ACADÉMICO | | | | | | TOTAL | | CLASES | | COMP. LABORAL | | | EXAMENFINAL | | | TRABAJOCURSO | | 1 | 2 | 3 | 4 | 5 | | CURRÍCULO PROPIO | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | |  | | PREPARACIÓN PARA LA DEFENSA | | | | 16 | | 16 | | 0 | | | 0 | | | 0 | |  |  |  | 16 |  | | 4.3 | | 60 | | El Ingeniero Civil en la Defensa | | | | 16 | | 16 | | 0 | | |  | | |  | |  |  |  | 16 |  | | 5 | |  | | MATEMÁTICA APLICADA | | | | 36 | | 36 | | 0 | | | 0 | | | 0 | |  | 36 |  |  |  | | 5.6 | | 61 | | Métodos Numéricos | | | | 36 | | 36 | |  | | |  | | |  | |  | 36 |  |  |  | | 13 | |  | | TECN. DE CONST. Y CONSER. DE EDIF. | | | | 64 | | 56 | | 8 | | | 1 | | | 0 | |  |  |  | 64 |  | | 13.5 | | 62 | | Sistemas Constructivos | | | | 64 | | 56 | | 8 | | | 1 | | |  | |  |  |  | 64 |  | | 14 | |  | | **CIENCIAS EMPRESARIALES** | | | | **48** | | 48 | | 0 | | | 0 | | | 0 | | **48** |  |  |  |  | | 14.4 | | 63 | | Historia de la Ingeniería Civil | | | | 48 | | 48 | | 0 | | |  | | |  | | 48 |  |  |  |  | | 15 | |  | | **ANÁLISIS Y DISEÑO DE ESTRUCTURAS** | | | | **64** | | 56 | | 8 | | | 0 | | | 0 | |  |  |  | 64 |  | | 15.9 | | 64 | | Estructuras de Hormigón y Mampostería | | | | 64 | | 56 | | 8 | | |  | | |  | |  |  |  | 64 |  | | 18 | |  | | **DISCIPLINA PRINCIPAL INTEGRADORA** | | | | **192** | | 0 | | 192 | | | 0 | | | 3 | | 64 |  |  | 64 | 64 | | 18.1 | | 65 | | Proyecto Integrador 1 | | | | 64 | | 0 | | 64 | | |  | | | (\*) 1ro | | 64 |  |  |  |  | | 18.2 | | 66 | | Proyecto Integrador 4 | | | | 64 | | 0 | | 64 | | |  | | | (\*) 4to | |  |  |  | 64 |  | | 18.3 | | 67 | | Proyecto Integrador 5 | | | | 64 | | 0 | | 64 | | |  | | | (\*) 5to | |  |  |  |  | 64 | |  | | | | | | | | | | | | | | | | | | | | | | | | | | Total de Horas del **Currículo Propio** por Formas y Años | | | | | | | | **420** | | 212 | | 208 | | |  | | |  | | 112 | **36** | 0 | 208 | 64 | | Total de Exámenes Finales del **Currículo Propio** por Años | | | | | | | | 1 | | | | | | |  | | |  | | 0 | **0** | 0 | 1 | 0 | | Total de Trabajos de Curso del **Currículo Propio** por Años | | | | | | | | 3 | | | | | | |  | | |  | | 1 | **0** | 0 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | No. | DISCIPLINA Y ASIGNATURA | | | CANTIDAD DE HORAS | | | DIST. POR AÑOS | | DIST. DE LAS HORAS POR AÑO ACADÉMICO | | | | | | TOTAL | CLASES | COMP. LABORAL | EXAMENFINAL | TRABAJOCURSO | 1 | 2 | 3 | 4 | 5 | | CURRÍCULO OPTATIVO - ELECTIVO | | | | | | | | | | | | | | | 18 | |  | **DISCIPLINA PRINCIPAL INTEGRADORA** | **420** | 240 | 180 |  |  |  | **104** | 156 | 56 | 104 | | 18.4 | | 68 | A. OPTATIVA 1 (Proyecto Integrador 2) | 80 | - | 80 |  | (\*) 2do |  | 80 |  |  |  | | 18.5 | | 69 | A. OPTATIVA 2 | 24 | 24 | - |  |  |  | 24 |  |  |  | | 18.6 | | 70 | A. OPTATIVA 3 (Proyecto Integrador 3) | 100 | - | 100 |  | (\*) 3ro |  |  | 100 |  |  | | 18.7 | | 71 | A. OPTATIVA 4 | 56 | 56 | - |  |  |  |  | 56 |  |  | | 18.8 | | 72 | A. OPTATIVA 5 | 56 | 56 | - |  |  |  |  |  | 56 |  | | 18.9 | | 73 | A. OPTATIVA 6 | 24 | 24 | - |  |  |  |  |  |  | 24 | | 18.10 | | 74 | A. OPTATIVA 7 | 56 | 56 | - |  |  |  |  |  |  | 56 | | 18.11 | | 75 | A. ELECTIVA 1 | 24 | 24 | - |  |  |  |  |  |  | 24 | |  | | | | | | | | | | | | | | | Total de Horas del **Currículo Propio** por Formas y Años | | | | **420** | 240 | 180 |  |  | 0 | **104** | 156 | 56 | 104 | | Total de Exámenes Finales del **Currículo Propio** por Años | | | | 0 | | |  |  | 0 | **0** | 0 | 0 | 0 | | Total de Trabajos de Curso del **Currículo Propio** por Años | | | | 2 | | |  |  | 0 | **1** | 1 | 0 | 0 | |