

POLITECNICO ICAFT

PLAN DE ESTUDIOS PROGRAMA ACADÉMICO TECNOLOGÍA EN MANTENIMIENTO AERONÁUTICO



PERÍODO ACADÉMICO	I	II	III	IV	V	VI	CU	CR	% CR	HT	HP	HEI																																														
HEI	17	15	15	17	16	18	48	102	100%	90	112	98																																														
HP	19	21	21	19	18	14																																																				
HT	15	15	15	15	14	16																																																				
CR	17	17	17	17	17	17																																																				
CU	8	8	8	8	8	8																																																				
FORMACIÓN BÁSICA	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td></tr> </table> Matemáticas I	HT	HP	HEI	CR	3	3	3	3	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td></tr> </table> Matemáticas II	HT	HP	HEI	CR	3	3	3	3	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td></tr> </table> Matemáticas III	HT	HP	HEI	CR	3	3	3	3																															
	HT	HP	HEI	CR																																																						
3	3	3	3																																																							
HT	HP	HEI	CR																																																							
3	3	3	3																																																							
HT	HP	HEI	CR																																																							
3	3	3	3																																																							
<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td></tr> </table> Física I	HT	HP	HEI	CR	3	3	3	3		<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td></tr> </table> Física II	HT	HP	HEI	CR	3	3	3	3																																								
HT	HP	HEI	CR																																																							
3	3	3	3																																																							
HT	HP	HEI	CR																																																							
3	3	3	3																																																							
CIENCIAS BÁSICAS DE TECNOLOGÍA	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Dibujo Técnico	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td></tr> </table> Ciencia de Materiales	HT	HP	HEI	CR	3	3	3	3	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Aerodinámica	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>3</td><td>3</td><td>3</td><td>3</td></tr> </table> Estadística y Probabilidades	HT	HP	HEI	CR	3	3	3	3																						
	HT	HP	HEI	CR																																																						
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
3	3	3	3																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
3	3	3	3																																																							
		<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Electrotecnia	HT	HP	HEI	CR	2	2	2	2		<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Principios de Administración y Producción	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Actuación Humana	HT	HP	HEI	CR	2	2	2	2																													
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
TECNOLOGÍA APLICADA	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Introducción al Mantenimiento Aeronáutico	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Estructura y Sistemas de Aeronave	HT	HP	HEI	CR	2	2	2	2		<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Hélices y Gobernadores	HT	HP	HEI	CR	2	2	2	2																														
	HT	HP	HEI	CR																																																						
	2	2	2	2																																																						
	HT	HP	HEI	CR																																																						
	2	2	2	2																																																						
	HT	HP	HEI	CR																																																						
	2	2	2	2																																																						
			<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Motores Recíprocos	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Motores a Reacción	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Instrumentación Aeronáutica	HT	HP	HEI	CR	2	2	2	2																													
	HT	HP	HEI	CR																																																						
	2	2	2	2																																																						
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
		<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Principios de Electrónica Analógica	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Electrónica Digital	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Sensórica	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Control	HT	HP	HEI	CR	2	2	2	2																					
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
				<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Sistemas de Aeronavegación y Radio Comunicación	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Nuevas Tecnologías Aeronáuticas	HT	HP	HEI	CR	2	2	2	2																																					
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
				<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Sistemas Eléctricos de las Aeronaves	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Redes de Comunicación	HT	HP	HEI	CR	2	2	2	2																																					
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>0</td><td>6</td><td>0</td><td>2</td></tr> </table> Mantenimiento Aeronáutico I	HT	HP	HEI	CR	0	6	0	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>0</td><td>6</td><td>0</td><td>2</td></tr> </table> Mantenimiento Aeronáutico II	HT	HP	HEI	CR	0	6	0	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>0</td><td>6</td><td>0</td><td>2</td></tr> </table> Mantenimiento Aeronáutico III	HT	HP	HEI	CR	0	6	0	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>0</td><td>6</td><td>0</td><td>2</td></tr> </table> Mantenimiento Aeronáutico IV	HT	HP	HEI	CR	0	6	0	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>0</td><td>6</td><td>0</td><td>2</td></tr> </table> Mantenimiento Aeronáutico V	HT	HP	HEI	CR	0	6	0	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Seguridad Operacional y Mitigación de Riesgos	HT	HP	HEI	CR	2	2	2	2				
HT	HP	HEI	CR																																																							
0	6	0	2																																																							
HT	HP	HEI	CR																																																							
0	6	0	2																																																							
HT	HP	HEI	CR																																																							
0	6	0	2																																																							
HT	HP	HEI	CR																																																							
0	6	0	2																																																							
HT	HP	HEI	CR																																																							
0	6	0	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
					<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>0</td><td>4</td><td>3</td></tr> </table> Opción de Grado I	HT	HP	HEI	CR	2	0	4	3	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>0</td><td>4</td><td>3</td></tr> </table> Opción de Grado II	HT	HP	HEI	CR	2	0	4	3																																				
HT	HP	HEI	CR																																																							
2	0	4	3																																																							
HT	HP	HEI	CR																																																							
2	0	4	3																																																							
FORMACIÓN SOCIO-HUMANÍSTICA E INSTITUCIONAL	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td></tr> </table> Cátedra ICAFT I	HT	HP	HEI	CR	1	1	1	1	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td></tr> </table> Cátedra ICAFT II	HT	HP	HEI	CR	1	1	1	1	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>1</td><td>1</td><td>1</td><td>1</td></tr> </table> Cátedra ICAFT III	HT	HP	HEI	CR	1	1	1	1																															
	HT	HP	HEI	CR																																																						
	1	1	1	1																																																						
HT	HP	HEI	CR																																																							
1	1	1	1																																																							
HT	HP	HEI	CR																																																							
1	1	1	1																																																							
<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Técnicas de Comunicación	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Metodología de la Investigación	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Ética y Responsabilidad Social	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Innovación y Emprendimiento	HT	HP	HEI	CR	2	2	2	2																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
JURÍDICA	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>0</td><td>4</td><td>2</td></tr> </table> Constitución Política de Colombia	HT	HP	HEI	CR	2	0	4	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Reglamentación y Nomenclatura Aeronáutica	HT	HP	HEI	CR	2	2	2	2																																								
	HT	HP	HEI	CR																																																						
2	0	4	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
ELECTIVAS DE PROFUNDIZACIÓN					<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Electiva de Profundización I	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Electiva de Profundización III	HT	HP	HEI	CR	2	2	2	2																																				
	HT	HP	HEI	CR																																																						
	2	2	2	2																																																						
	HT	HP	HEI	CR																																																						
2	2	2	2																																																							
				<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Electiva de Profundización II	HT	HP	HEI	CR	2	2	2	2	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>2</td><td>2</td><td>2</td></tr> </table> Electiva de Profundización IV	HT	HP	HEI	CR	2	2	2	2																																					
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
HT	HP	HEI	CR																																																							
2	2	2	2																																																							
					<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td>2</td><td>0</td><td>4</td><td>2</td></tr> </table> Electiva Interdisciplinaria	HT	HP	HEI	CR	2	0	4	2																																													
HT	HP	HEI	CR																																																							
2	0	4	2																																																							
FORMACIÓN EN SEGUNDA LENGUA	<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> Inglés I	HT	HP	HEI	CR					<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> Inglés II	HT	HP	HEI	CR					<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> Inglés III	HT	HP	HEI	CR					<table border="1"> <tr><td>HT</td><td>HP</td><td>HEI</td><td>CR</td></tr> <tr><td></td><td></td><td></td><td></td></tr> </table> Inglés IV	HT	HP	HEI	CR																										
	HT	HP	HEI	CR																																																						
	HT	HP	HEI	CR																																																						
HT	HP	HEI	CR																																																							
HT	HP	HEI	CR																																																							
							48	102	100%	90	112	98																																														

HT =	Horas Teóricas
HP =	Horas Prácticas
HEI =	Horas de Estudio Independiente del estudiante
CR =	Créditos Académicos
CU =	Cursos

COMPONENTE OBLIGATORIO	FORMACIÓN BÁSICA GENERAL
------------------------	--------------------------

COMPONENTE OBLIGATORIO	FORMACIÓN PROFESIONAL
COMPONENTE OBLIGATORIO	FORM SOCIO-HUMANÍSTICA E INSTITUCIONAL

COMPONENTE FLEXIBLE	PROFUNDIZACIÓN O ENFASIS ELECTIVOS PROFESIONALES
REQUISITOS DE GRADO	SEGUNDA LENGUA FOR. TIC