UNIVERSIDADE FEDERAL DO CEARÁ

FEDERAL UNIVERSITY OF CEARÁ
OFFICE OF THE VICE PROVOST FOR UNDERGRADUATION (PROGRAD)
COORDINATION FOR PROJECT AND CURRICULUM DEVELOPMENT
CURRICULUM DEVELOPMENT DIVISION

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1. Academic unit offering the curricular component (Faculty, Center, Institute, Campus)**:**

Center of Technology

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2. Department offering the curricular component (when applicable)**:**

Teleinformatics Engineering Department

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3. Undergraduate course(s) offering the curricular component

Code of the Course	Name of the Course	Course Degree[1]	Curriculum (Year/ Semester)	Nature of the Component[2]	Semester of Offer[3]	Habilitation[4]
91	Telecommunications Engineering	Bachelor	2015.1	Mandatory	06	-

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4. Name of the curricular component:
Integrated Actions in Science and Technology I

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5. Code of the curricular component (filled by PROGRAD)**:**
TI0135

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6. Prerequisites	No ( )	Yes (x)	
		Code	Name of the curricular component / activity
		TI0119	Digital Signal Processing

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7. Corequisite	No (x)	Yes ( )	
		Code	Name of the curricular component / activity

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8. Equivalences	No ( )	Yes (x)	
		Code	Name of the curricular component / activity
		TI0044	Programming Techniques for Engineering I

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9. Day period of the curricular component (more than one option can be selected)**:**
   (x) Morning   (x) Afternoon   (x) Night

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[1]   **Fill with *Bachelor (Engineer), Licenciate,* or *Technologist.***
[2]   **Fill with *Mandatory, Optional,* or *Elective.***
[3]   **Fill when mandatory.**
[4]   **When elective, fill with the habilitation or emphasis to which the curricular component is linked.**

10. Regime of the curricular component:
(x) Semester   ( ) Yearly   ( ) Modular

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11. Justificatory for the creation/regulamentation of this curricular component

The Integrated Activities in Science and Technology (AICT) constitute a set of activities that aims to provide the student with the minimum maturity required to integrate the knowledge acquired in the Engineering Sciences curricular components with those of Engineering, in a progressive and controlled form, promoting a higher capacity of performing individually or with assistance the integration of the contents of in-depth materials within the framework of the binomial theory-practice.

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12. Syllabus:

Variable programmatic content.

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13. Workload description

Number of Weeks:	Number of Credits:	Total Workload in Hours:	Theory Workload in Hours:	Practice Workload in Hours:
16	02	32	16	16

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14. Basic bibliography:

1- Livros and artigos científicos referentes ao tema escolhido.

2- Fundamentos de Metodologia Científica; Marina de Andrade Marconi and Eva Maria Lakatos; 7th edition; Editora Atlas, 2010.

3- Fundamentos de Metodologia – Um Guia para a Iniciação Científica; Aidil Jesus Paes de Barros and Neide Aparecida de Souza Lehfeld; 2nd edition; Makron Books, 2000.

4- Metodologia Científica; Amado L. Cervo, Pedro A. Bervian and Roberto da Silva; 6th edition; Pearson / Prentice Hall, 2006.

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15. Complementary bibliography:

1- Metodologia para a Pesquisa and Desenvolvimento; Carlos Fernando Jung; 1st edition; Axcel, 2004.

2- The Art of Scientific Investigation; William I. B. Beveridge; Blackburn Press; 2004.

3- Scientific Method in Practice; Hugh G. Gauch Jr.; Cambridge University Press; 2002.

4- An Introduction to Scientific Research; E. Bright Wilson Jr.; Dover Publications; 1991.

5- Scientific Integrity; Francis L. Macrina; 3rd edition; ASM Press; 2005.