



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**

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

Center of Technology

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

Teleinformatics Engineering Department

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	08	-

4. Name of the curricular component:

Integrated Actions in Science and Technology III

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

TI0137

6. Prerequisites	No ()	Yes (x)	
		Code	Name of the curricular component / activity
		TI0136	Integrated Actions in Science and Technology II

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

8. Equivalences	No (x)	Yes ()	
		Code	Name of the curricular component / activity

9. Day period of the curricular component (more than one option can be selected):

Morning Afternoon Night

¹ Fill with *Bachelor (Engineer), Licenciante, 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: Semester Yearly Modular**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.

12. Syllabus:

Variable programmatic content.

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

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.

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.