



Mission: To contribute to the scientific, technological and technical development of the country forming competent professionals oriented to the creation of new science and computational technology, as engine that impels and consolidates the software industry based on scientific research and technological in innovative areas, forming, IN OUR professionals, a set of skills for solving computational problems with a social commitment.

Definition: The professional profile of this professional program can be better understood from figures on the right side.
ShortProfileEN

1st Sem (15 cr)

2nd Sem (10 cr)

3rd Sem (5 cr)

4th Sem (10 cr)

5th Sem (0 cr)

6th Sem (0 cr)

7th Sem (0 cr)

8th Sem (0 cr)

9th Sem (0 cr)

10th Sem (0 cr)

IndEng-UCSP

#775 MA111. Calculus I	
Theory:4	Mandatory
Practice:2	5 CR
Laboratory:	Pg.

Critical path

#777 MA112. Calculus II	
Theory:4	Mandatory
Practice:2	5 CR
Laboratory:	Pg.

Critical path

#779 MA211. Calculus III	
Theory:4	Mandatory
Practice:2	5 CR
Laboratory:	Pg.

Critical path

Critical path

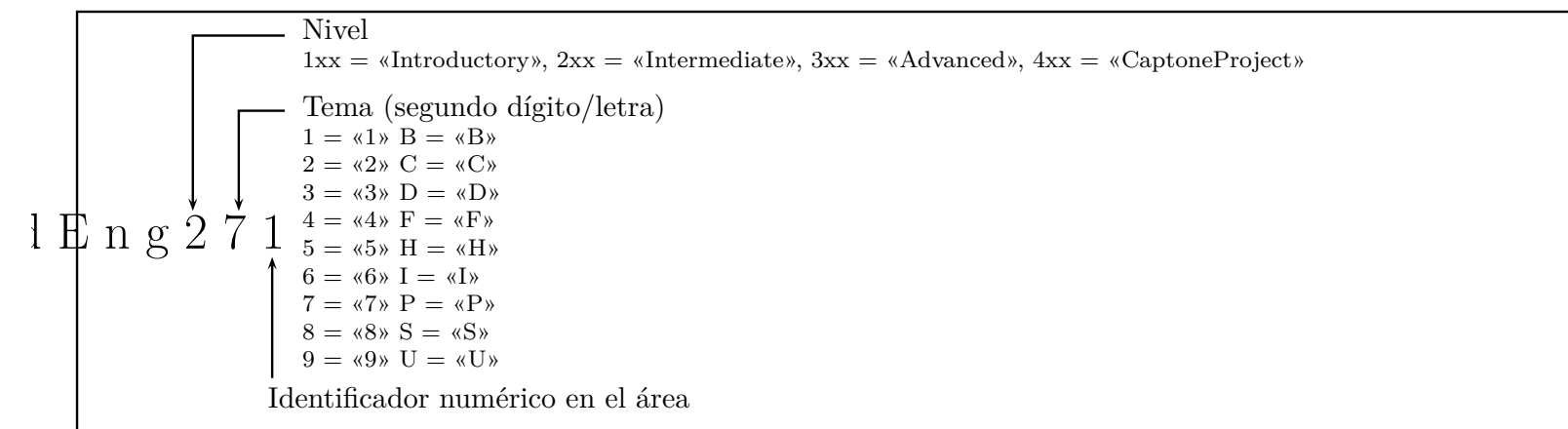
#780 MA212. Differential Equations	
Theory:4	Mandatory
Practice:2	5 CR
Laboratory:	Pg.

#781 MA351. Statistics and Probabilities	
Theory:4	Mandatory
Practice:2	5 CR
Laboratory:	Pg.

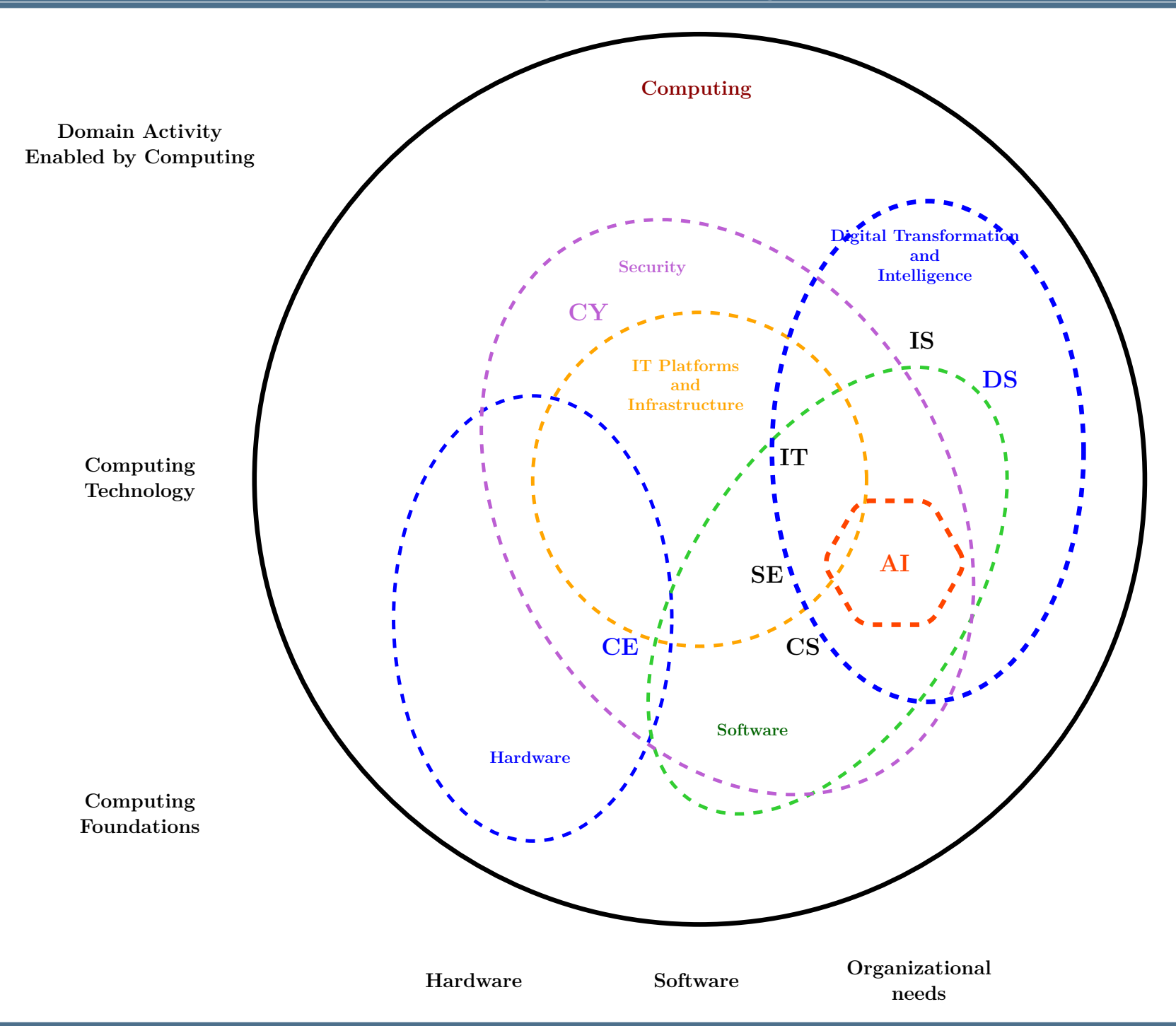
#776 MA121. Linear Algebra	
Theory:4	Mandatory
Practice:2	5 CR
Laboratory:	Pg.

#775 FI101. Physics I	
Theory:4	Mandatory
Practice:2	5 CR
Laboratory:	Pg.

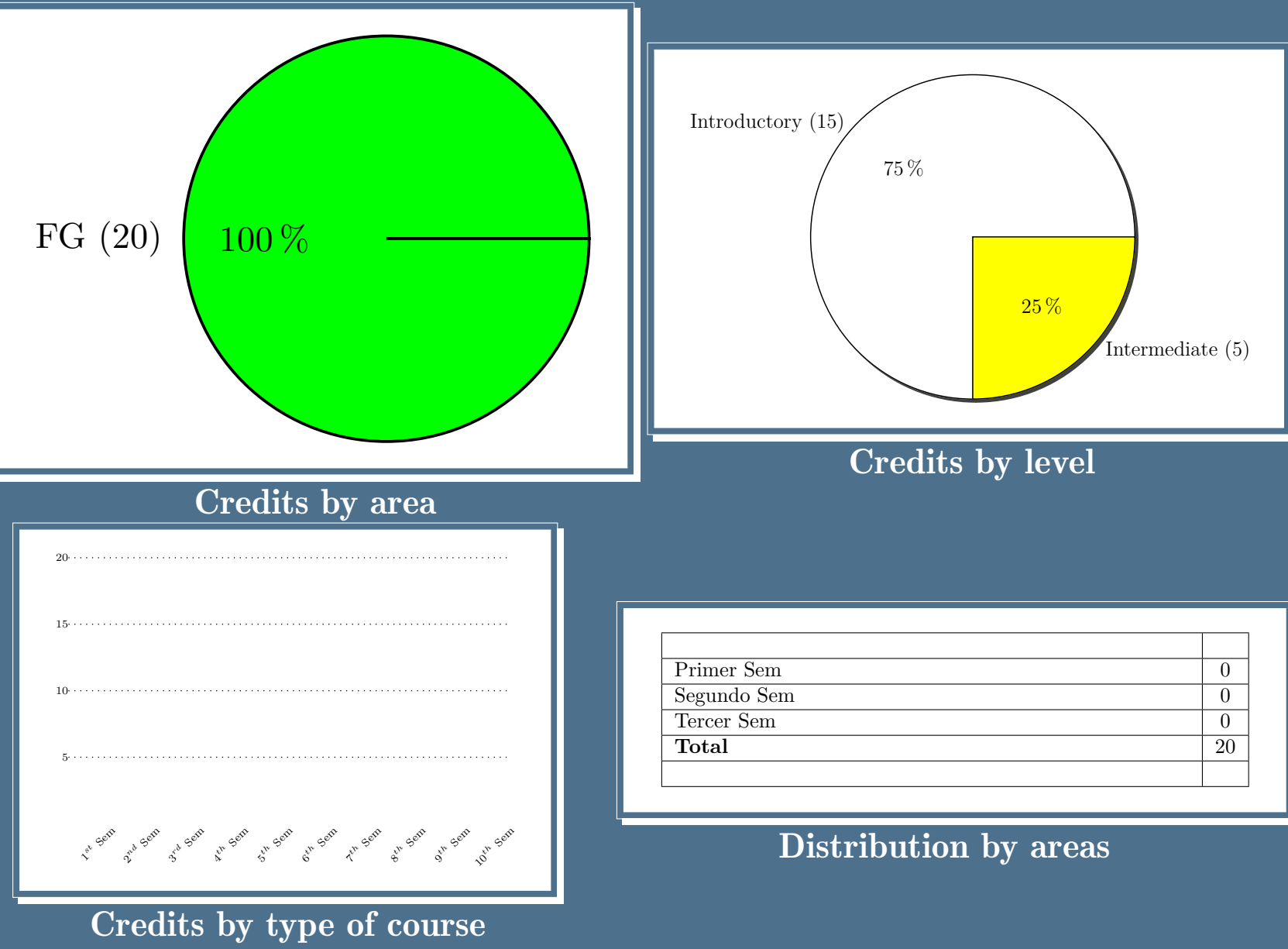
#775 FI102. Physics II	
Theory:4	Mandatory
Practice:2	5 CR
Laboratory:	Pg.



Computing Course Coding



ACM/IEEE-CS Computing Curricula 2020



Skill ↓

- 1) Identify, formulate, and solve complex engineering problems.
- 2) Apply engineering design to produce solutions meeting specified needs.
- 3) Communicate effectively with diverse audiences.
- 4) Recognize ethical responsibilities and make informed judgments.
- 5) Function effectively on teams and provide leadership.
- 6) Develop experiments, analyze data, and draw conclusions.
- 7) Acquire and apply new knowledge using learning strategies.

Course ⇒

First Sem	Second Sem	Third Sem	Fourth Sem
MA111	MA112	MA211	MA212
FI101	FI102	MA351	MA352
MA121	MA122	MA123	MA124
MA125	MA126	MA127	MA128
MA129	MA130	MA131	MA132
MA133	MA134	MA135	MA136
MA137	MA138	MA139	MA140
MA141	MA142	MA143	MA144
MA145	MA146	MA147	MA148
MA149	MA150	MA151	MA152
MA153	MA154	MA155	MA156
MA157	MA158	MA159	MA160
MA161	MA162	MA163	MA164
MA165	MA166	MA167	MA168
MA169	MA170	MA171	MA172
MA173	MA174	MA175	MA176
MA177	MA178	MA179	MA180
MA181	MA182	MA183	MA184
MA185	MA186	MA187	MA188
MA189	MA190	MA191	MA192
MA193	MA194	MA195	MA196
MA197	MA198	MA199	MA200

Educational objectives

1. Cumplir y superar las expectativas de trabajo definidas por el entorno laboral.
2. Desempeñarse como miembro o líder de un equipo especializado o multidisciplinario.
3. Proponer soluciones innovadoras en Ingeniería Industrial.
4. Comunicar propuestas tecnológicas de forma efectiva.
5. Mantenerse actualizado en Ingeniería Industrial.
6. Comprender y aplicar las consecuencias sociales y éticas de la tecnología.

Definition of Learning Outcomes

Level 1: Familiarity: The student **understands** basic concepts. Answers: **"What is this?"**

Level 2: Usage: The student **applies** concepts practically. Answers: **"How to use this?"**

Level 3: Assessment: The student **evaluates and justifies** approaches. Answers: **"Why this method?"**

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