

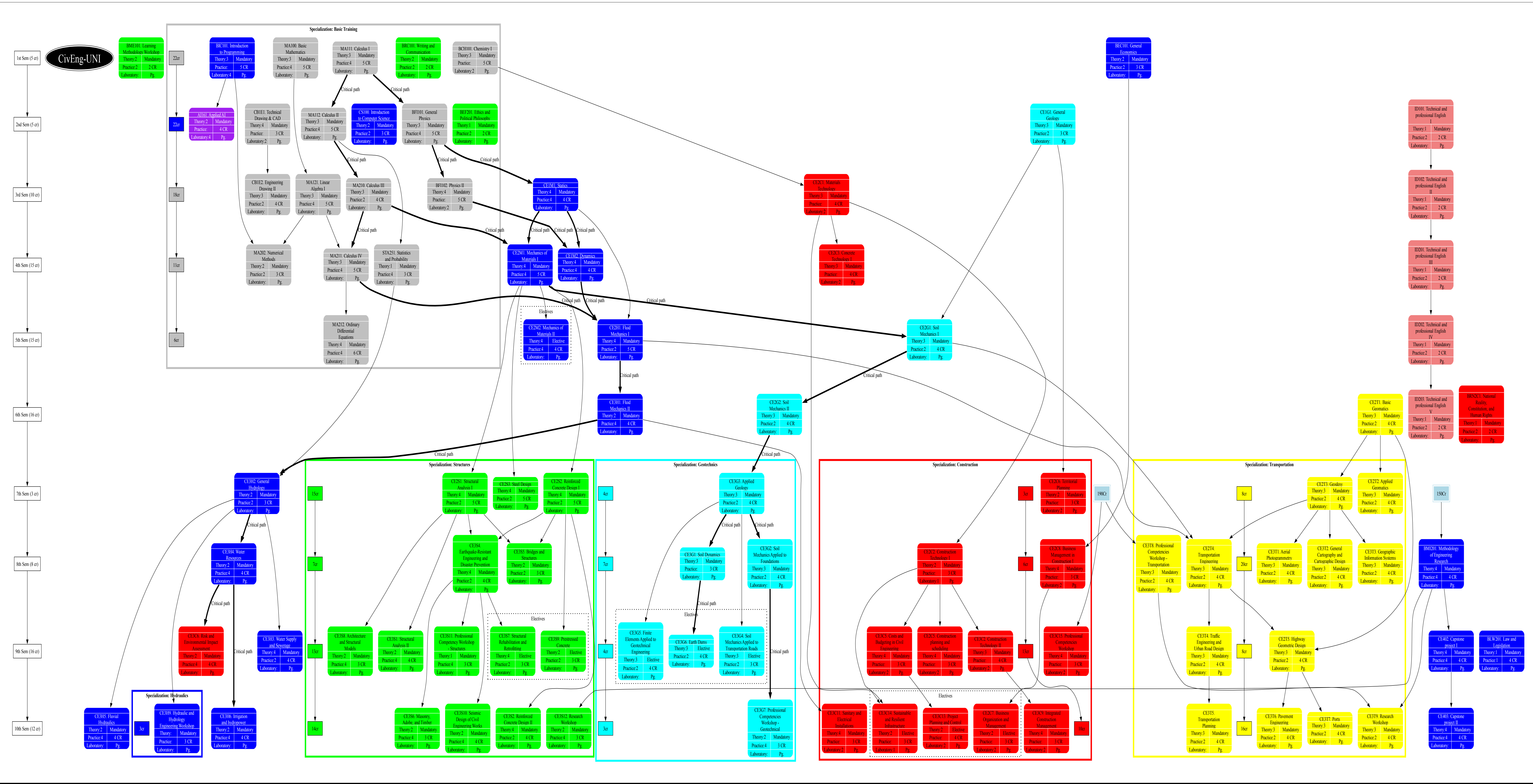


School of Civil Engineering <https://fic.uni.edu.pe/>

Mission: Train leading professionals in Civil Engineering, with strong competencies in science and technology; committed to the sustainable and resilient development of national infrastructure -roads, railways, bridges, water and sanitation systems, and buildings- and to disaster risk management against floods, droughts, earthquakes, and tsunamis, with technical solvency and ethics, recognizing that this infrastructure is the indispensable foundation for a country's connectivity, economic competitiveness, and quality of life.

Definition: The professional profile of this engineering program can be better understood from the figures on the right side. This professional has Civil Engineering as the center of their studies. That is, they master the design, construction and maintenance of infrastructure as the main objective. According to the definition of this discipline, this professional is directly called to be a promoter of the development of sustainable civil works that can satisfy social needs at the local, national and international levels.

Our professional profile is aimed at generating infrastructure solutions through permanent innovation in materials, construction techniques and project management. Our professional training is based on three fundamental pillars: content aligned with international accreditation standards (ABET), a strong orientation towards environmental sustainability, and the development of technical competencies with social responsibility.



Skill/Course	First Sem	Second Sem	Third Sem	Fourth Sem	Fifth Sem	Sixth Sem	Seventh Sem	Eighth Sem	Ninth Sem	Tenth Sem
ABET-1: Identify, formulate, and solve complex engineering problems.	1	1	1	1	1	1	1	1	1	1
ABET-2: Apply engineering design to produce solutions that meet specific needs.	1	1	1	1	1	1	1	1	1	1
ABET-3: Communicate effectively with diverse audiences.	1	1	1	1	1	1	1	1	1	1
ABET-4: Recognize ethical responsibilities and make informed judgments.	1	1	1	1	1	1	1	1	1	1
ABET-5: Function effectively in teams and manage leadership.	1	1	1	1	1	1	1	1	1	1
ABET-6: Develop experiments, analyze data, and draw conclusions.	1	1	1	1	1	1	1	1	1	1
ABET-7: Acquire and apply new knowledge using learning strategies.	1	1	1	1	1	1	1	1	1	1

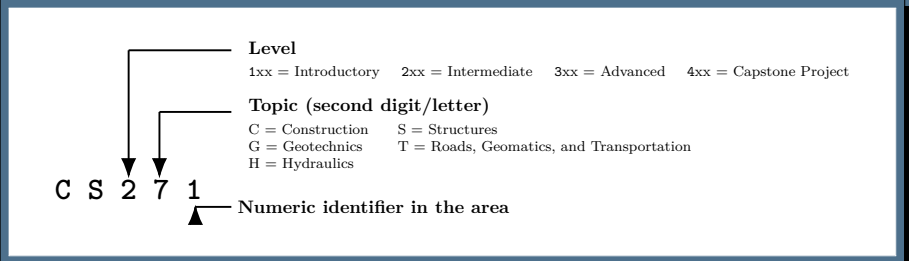
Educational objectives

1. Meet and exceed work expectations defined by the work environment.
2. Perform as a member or leader of a specialized or multidisciplinary team.
3. Propose innovative solutions in Engineering.
4. Communicate technological proposals effectively.
5. Stay up-to-date on Civil Engineering.
6. Understand and apply the social and ethical consequences of technology.

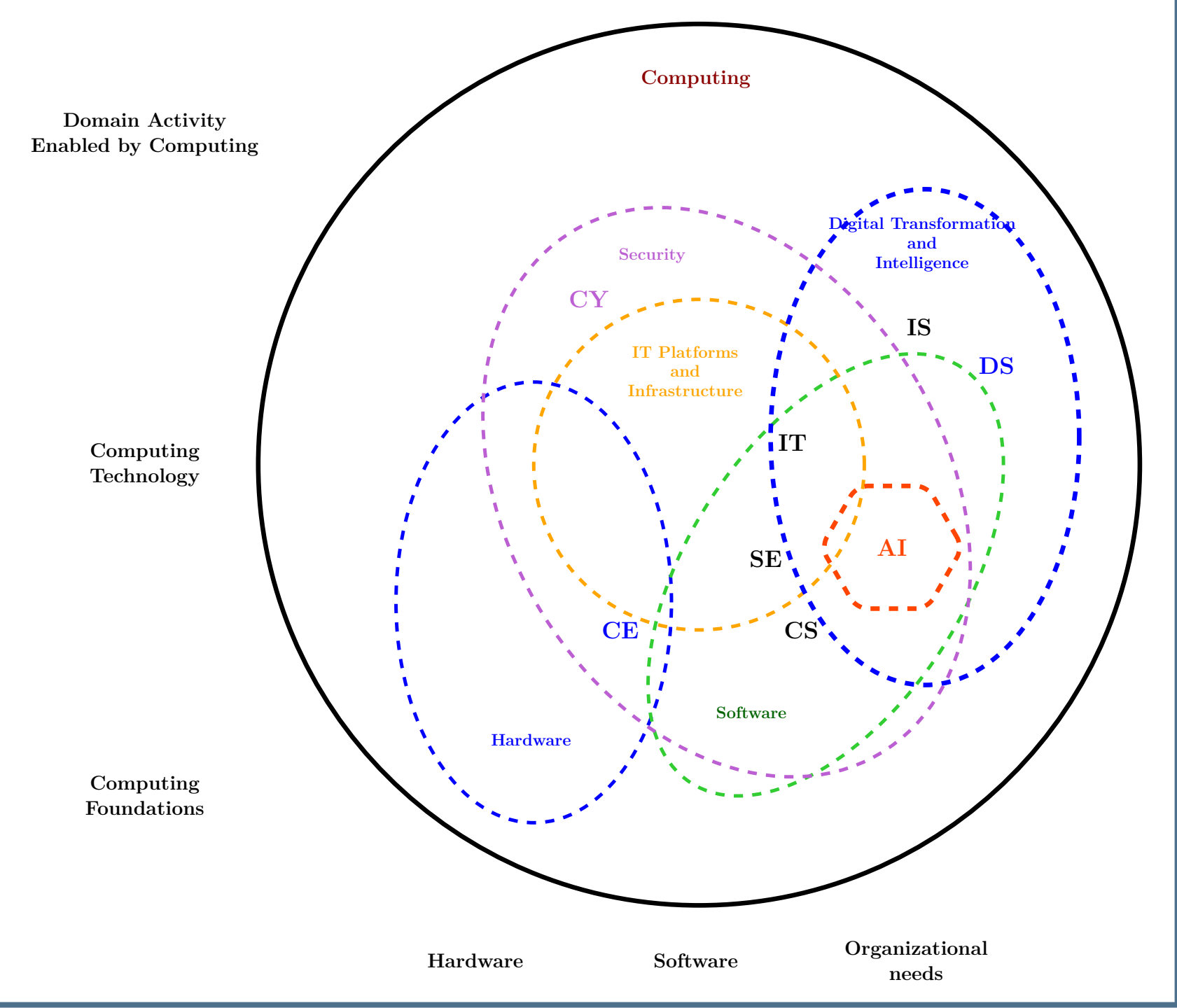
Definition of Learning Outcomes

- 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?"**

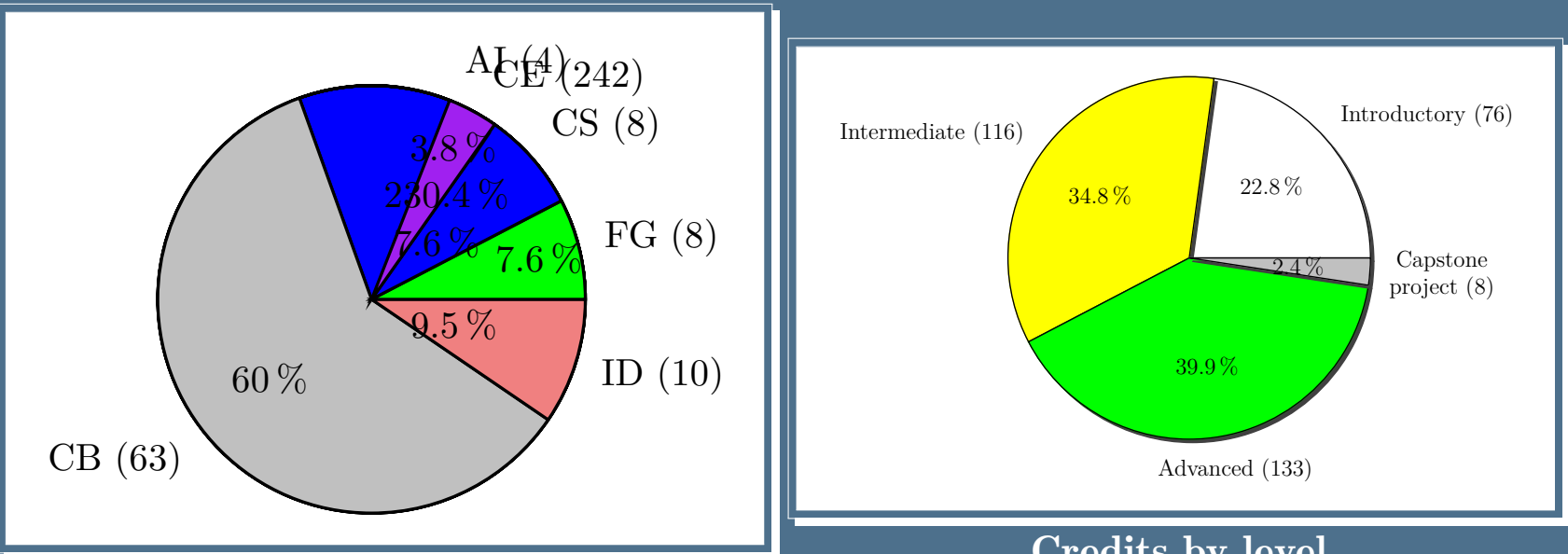
Generated by Ernesto Cuadros-Vargas (ecudros@spc.org.pe), Peruvian Computer Society, based on the ACM/IEEE-CS *Computing Curricula*



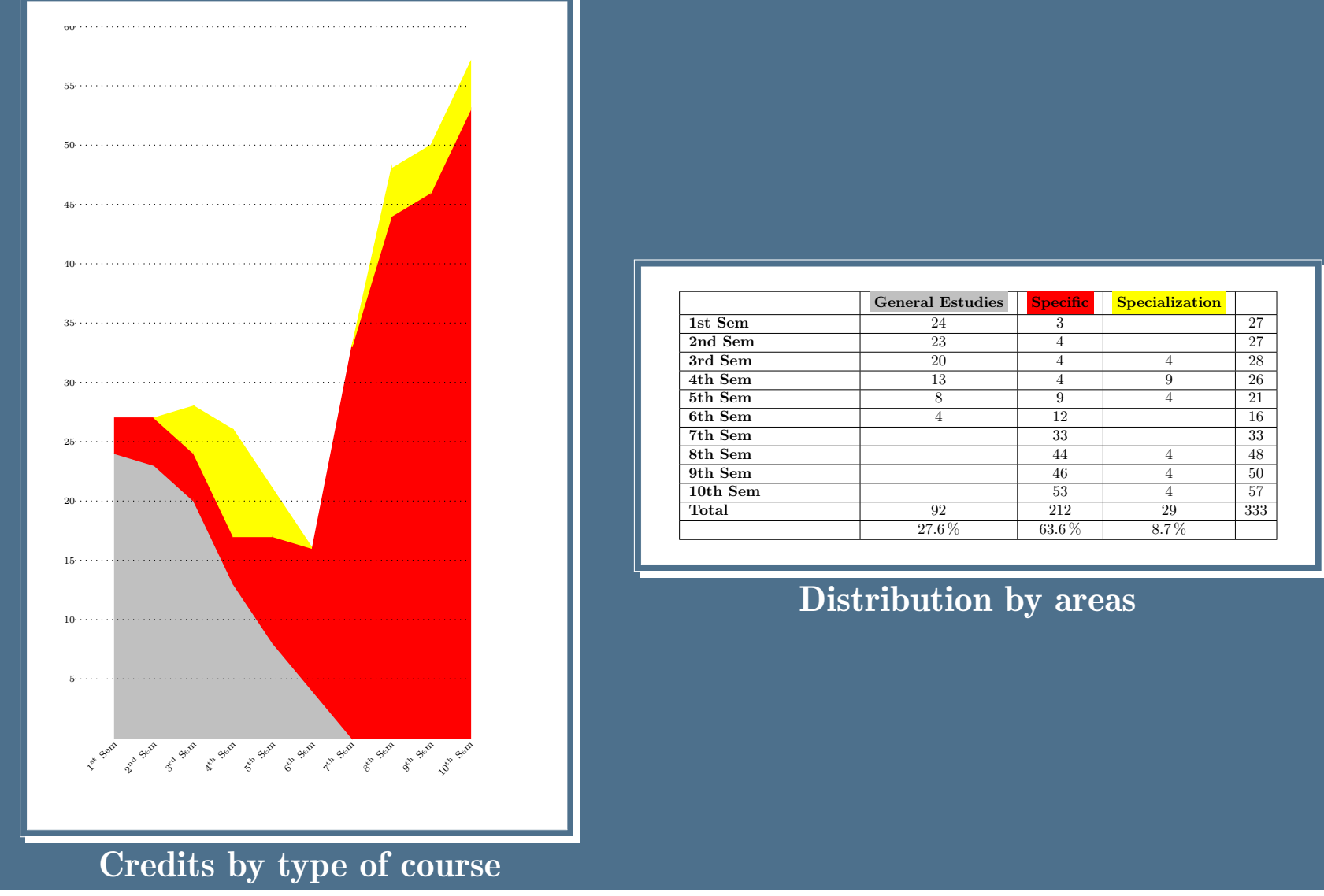
Computing Course Coding



ACM/IEEE-CS Computing Curricula 2020



Credits by area



Distribution by areas

	General	Specialization	Total
1st Sem	21	27	48
2nd Sem	20	26	46
3rd Sem	19	25	44
4th Sem	18	24	42
5th Sem	17	23	40
6th Sem	16	22	38
7th Sem	15	21	36
8th Sem	14	20	34
9th Sem	13	19	32
10th Sem	12	18	30
Total	180	220	400