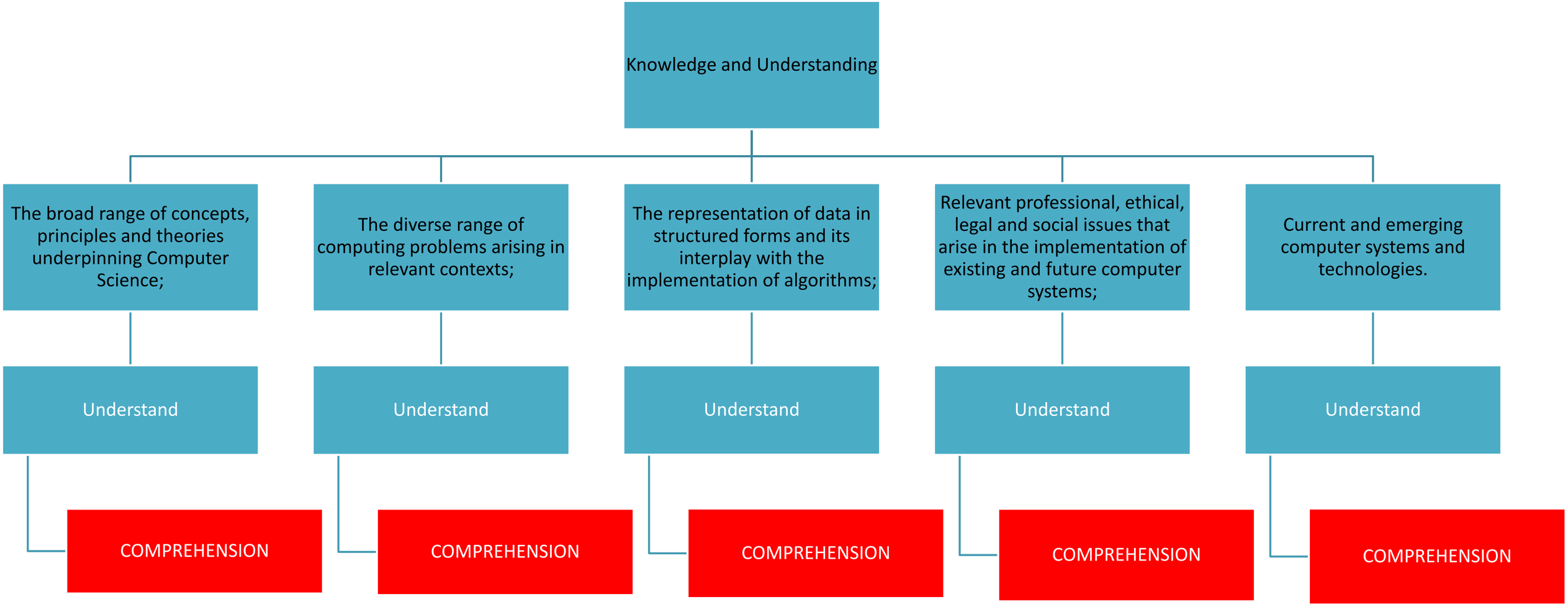
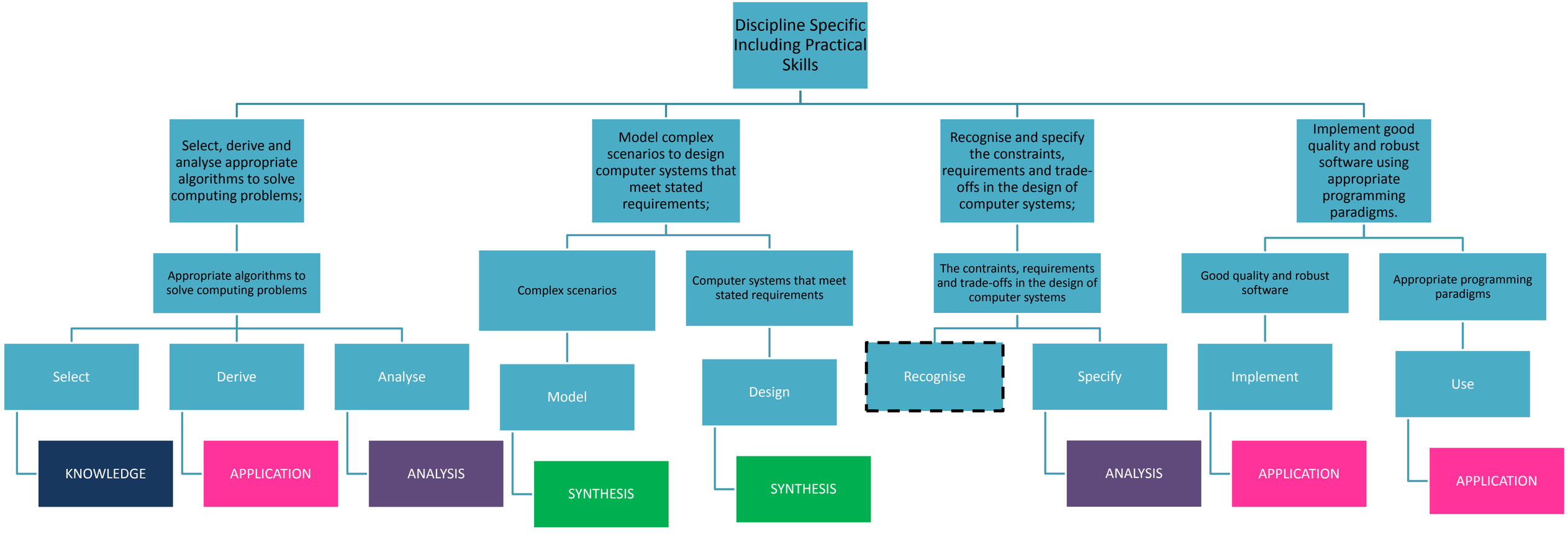
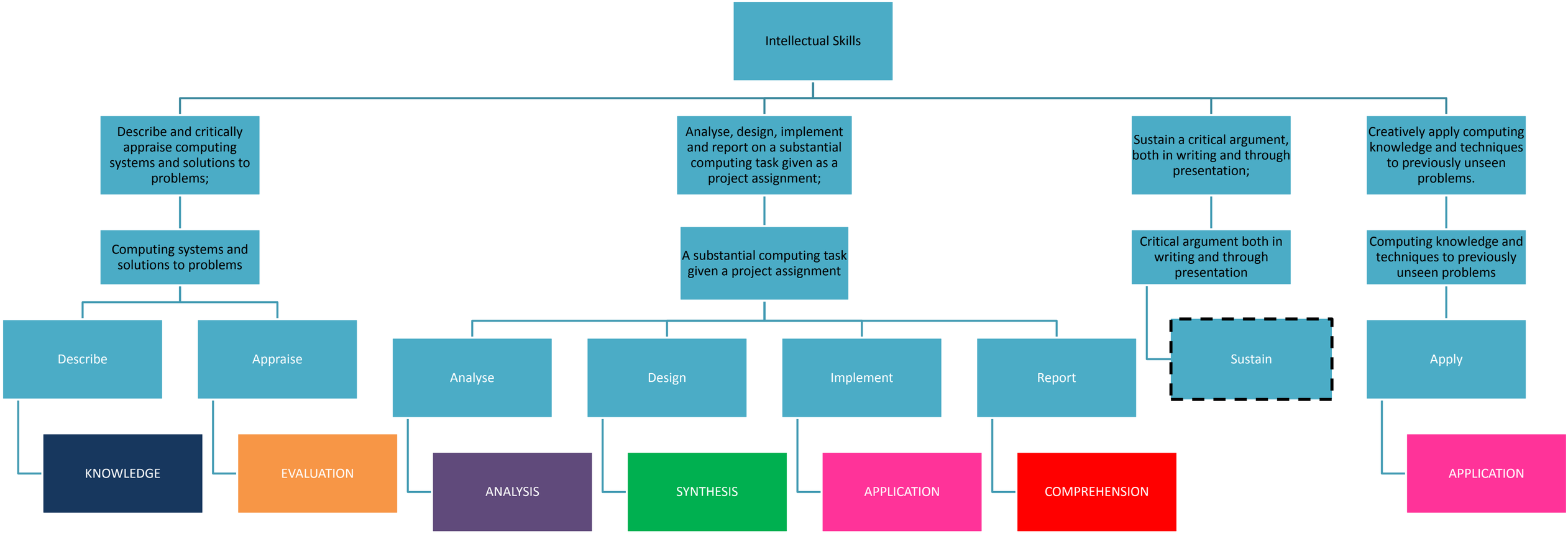
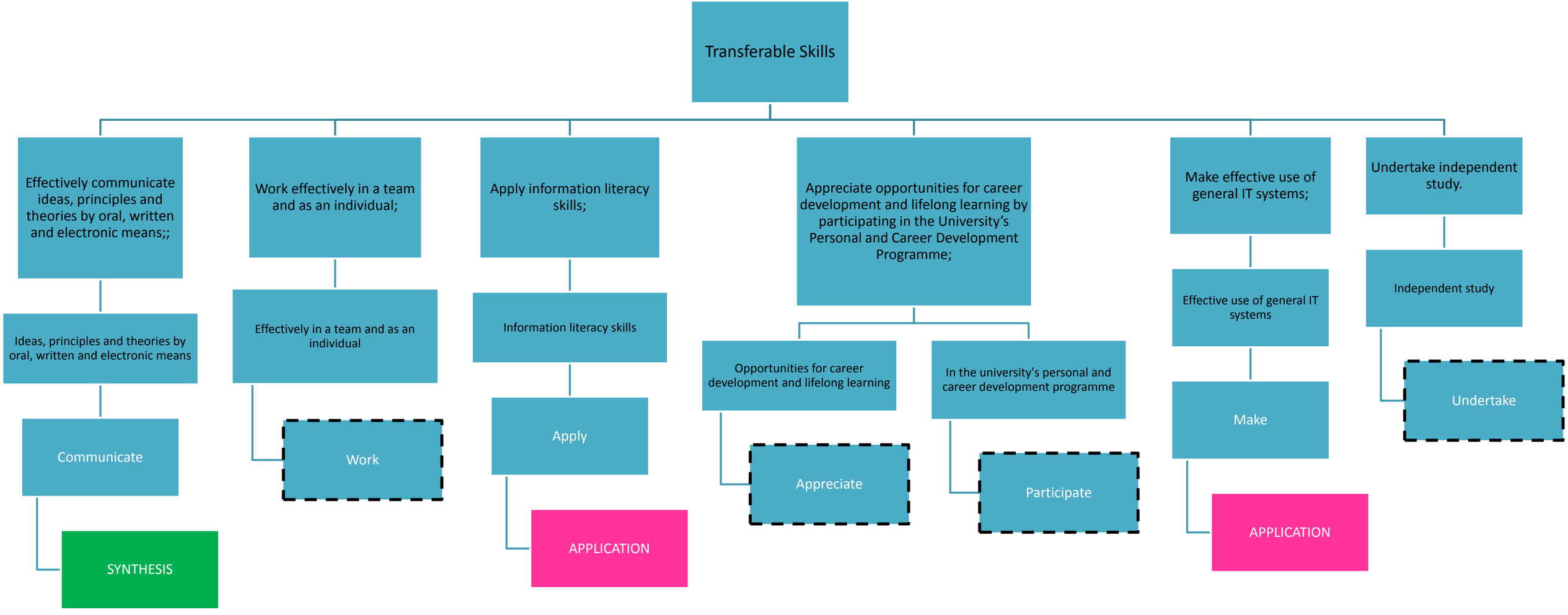

Knowledge and Understanding
The broad range of concepts, principles and theories underpinning Computer Science;
The diverse range of computing problems arising in relevant contexts;
The representation of data in structured forms and its interplay with the implementation of algorithms;
Relevant professional, ethical, legal and social issues that arise in the implementation of existing and future computer systems;
Current and emerging computer systems and technologies.
Understand
Understand
Understand
Understand
Understand
COMPREHENSION
COMPREHENSION
COMPREHENSION
COMPREHENSION
COMPREHENSION


Discipline Specific Including Practical Skills
Select, derive and analyse appropriate algorithms to solve computing problems;
Model complex scenarios to design computer systems that meet stated requirements;
Recognise and specify the constraints, requirements and trade-offs in the design of computer systems;
Implement good quality and robust software using appropriate programming paradigms.
Appropriate algorithms to solve computing problems
Complex scenarios
Computer systems that meet stated requirements
The contraints, requirements and trade-offs in the design of computer systems
Good quality and robust software
Appropriate programming paradigms
Select
Derive
Analyse
Model
Design
Recognise
Specify
Implement
Use
KNOWLEDGE
APPLICATION
ANALYSIS
SYNTHESIS
SYNTHESIS
ANALYSIS
APPLICATION
APPLICATION


Intellectual Skills
Describe and critically appraise computing systems and solutions to problems;
Analyse, design, implement and report on a substantial computing task given as a project assignment;
Sustain a critical argument, both in writing and through presentation;
Creatively apply computing knowledge and techniques to previously unseen problems.
Computing systems and solutions to problems
A substantial computing task given a project assignment
Critical argument both in writing and through presentation
Computing knowledge and techniques to previously unseen problems
Describe
Appraise
Analyse
Design
Implement
Report
Sustain
Apply
KNOWLEDGE
EVALUATION
ANALYSIS
SYNTHESIS
APPLICATION
COMPREHENSION
APPLICATION


Transferable Skills
Effectively communicate ideas, principles and theories by oral, written and electronic means;;
Ideas, principles and theories by oral, written and electronic means
Communicate
SYNTHESIS
Work effectively in a team and as an individual;
Effectively in a team and as an individual
Work
Apply information literacy skills;
Information literacy skills
Apply
APPLICATION
Appreciate opportunities for career development and lifelong learning by participating in the University's Personal and Career Development Programme;
Opportunities for career development and lifelong learning
Appreciate
In the university's personal and career development programme
Participate
Make effective use of general IT systems;
Effective use of general IT systems
Make
APPLICATION
Undertake independent study.
Independent study
Undertake