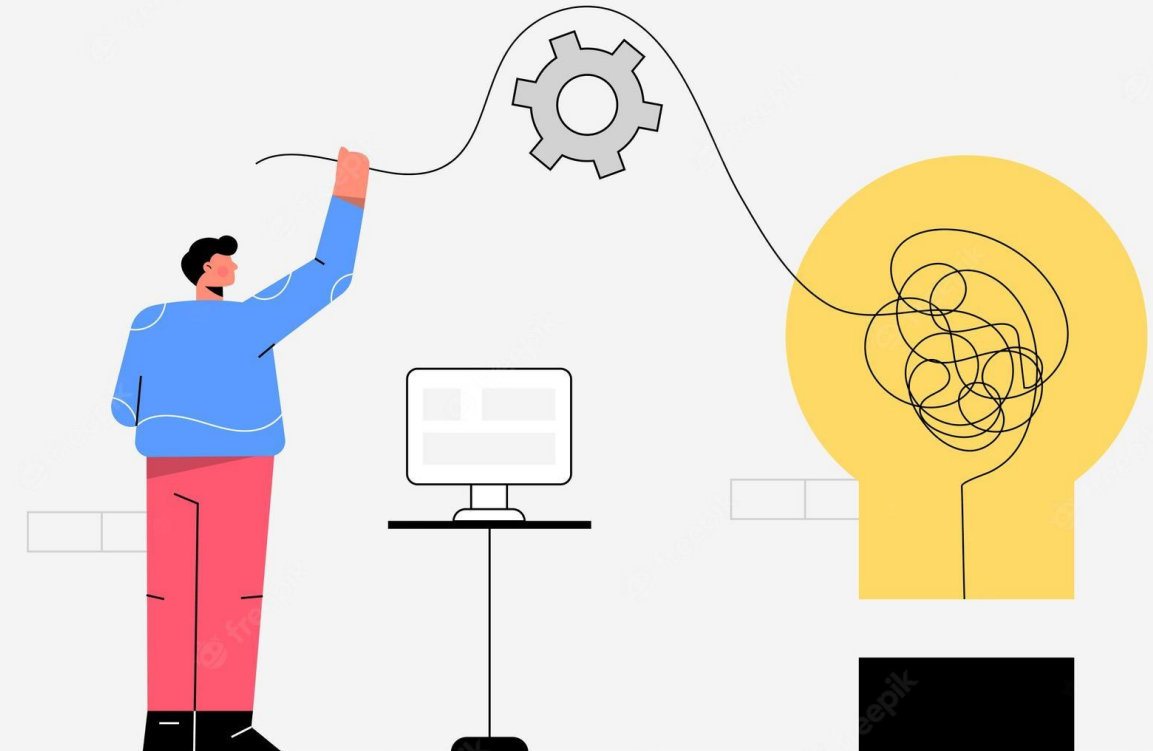
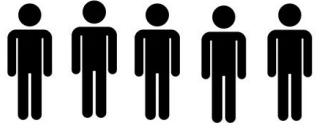


LOGIC & PROBLEM SOLVING COURSE





20 MIN



What should be **your behavior** in this course ?

- 5 post it = 5 ideas

What should be **the teacher behavior** in this course ?

- 5 post it = 5 ideas

TO COMPLETE THIS ACTIVITY :

①

DISCUSS IN TEAM

10 min

②

1 STUDENT STICKS POST IT ON WHITE BOARD

10 min



NOTE TAKING



DURING THE CLASS



QUICK NOTES
ON YOUR DRAFT NOTEBOOK

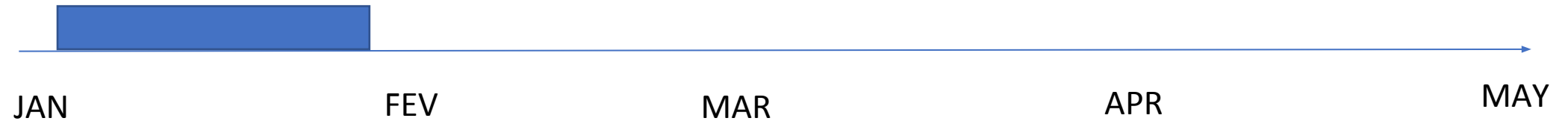


AFTER THE CLASS



CLEAN NOTES
ON YOUR BCU NOTEBOOK

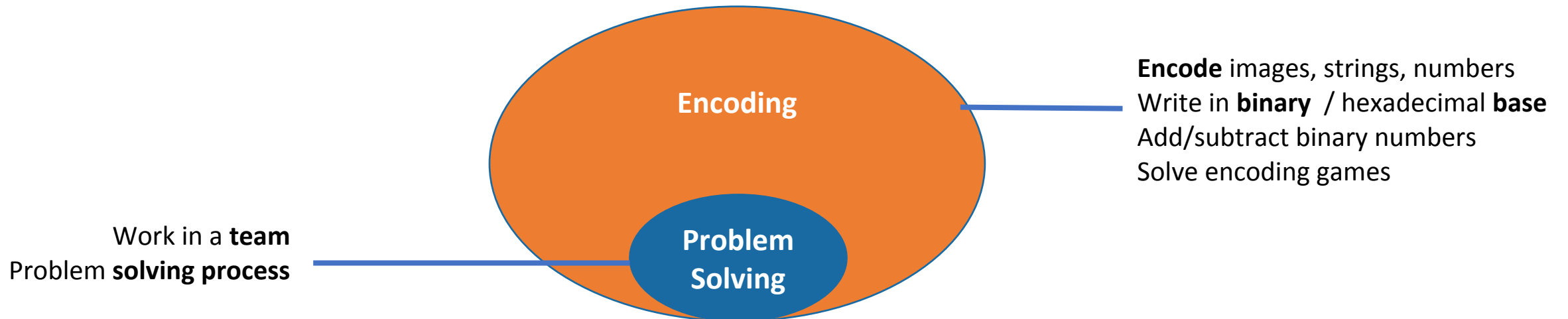
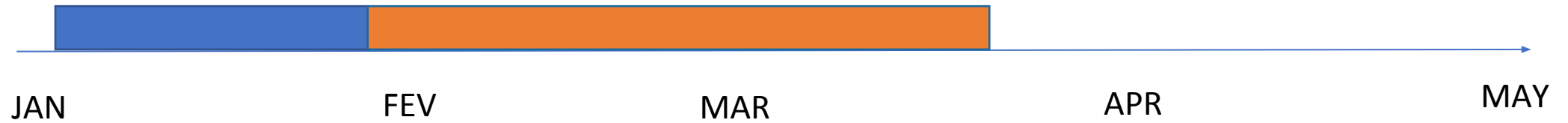
Course plan



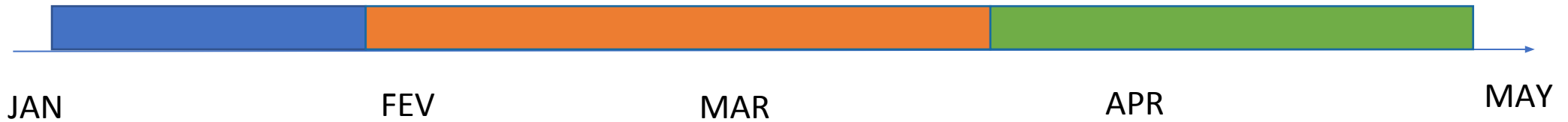
Work in a **team**
Problem **solving process**

**Problem
Solving**

Course plan



Course plan



Evaluate a **Boolean** expression
Write a Boolean expression
Use Boolean **operators**
Write a **truth table**
Write **conditional trees**



Logic

Encoding

Encode images, strings, numbers
Write in **binary** / hexadecimal **base**
Add/subtract binary numbers
Solve encoding games



Problem
Solving

Work in a **team**
Problem **solving process**





Course **evaluation**

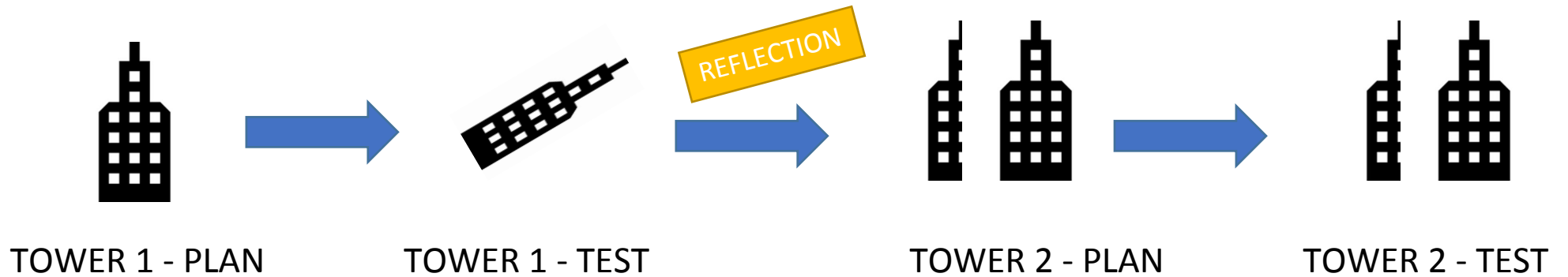
10 %	PARTICIPATION IN CLASS
10 %	HOMEWORKS & Quiz
30 %	MIDTERM EXAM
50 %	FINAL EXAM



30 MIN



Build the highest tower

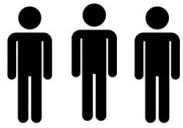


You will build 2 towers

- Paper only
- Tower shall stand for at least 30 seconds
- You need to improve your design between the first and second
- After each tries, write your reports on the document



10MIN



How to efficiently solve problems in team?



INSTRUCTIONS

- ✓ 10 minutes to discuss in teams
- ✓ Find 4 ideas and write each idea on 1 POST IT
- ✓ Each speaker put the post it on whiteboard
- ✓ Group by categories

BONUS

- ✓ Can you find an **SEQUENCE of STEPS** as a process to solve problem in teams ?



5 steps

OF PROBLEM SOLVING



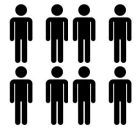
30 MIN



You broke your bike...

- ✓ Describe your **actions** to solve this problem
- ✓ Where do you put each action on the below **5 steps process** ?





ALL



5 MIN

Which steps do you prefer? Why ?



- Find lost of solutions
- Decide which solution to use
- Implement a solution
- Validate a solution