

CONSTRAIN	PRIORITY	POSSIBLE MEANS TO MEET THE CONSTRAIN
Must be small	F1	Make a mechanism that can select different ingredients in easy steps without many movements
Should resist high temperatures.	F1	Select the correct materials and use containers that are not directly attached to any electrical or delicate part on the system
Should be made of food secure materials.	F0	Select the correct materials for the containers
Energized by the main power supply.	F1	Use a power regulator or a transformer to get the desired DC energy from the AC main power supply
Washing machine safe.	F1	Select the correct materials for the containers
Recyclable.	F1	Select the correct materials for the system
The user will load the ingredients in the robot.	F2	The robot can use the same selection movement to display an empty container to the user, allowing them to fill it.
The robot won't automatically recognize the ingredients.	F2	The user can tag the ingredient's name using a display on the appliance while filling it, should add an extra step for the user to do but would't be too difficult
Must generate little to no waste	F2	The robot should be completely electrical and not require any single-use part or material
Use of energy must be reduced.	F1	The size of the motor and electronics should be calculated to reduce waste of energy. Using a small motor can help
Economically accessible for the target audience.	F0	The manufacturing and assembly should be easy to follow, making the price of the robot accessible.
Prototype should be as cheap as possible	F2	Try to use only materials provided by the fablab
Follow basic kitchen appliance electronic normative.	F0	Check and follow normative
Follow dust and water resistance normative.	F0	Check and follow normative
Deadline on 31st of December 2023	F0	Generate a schedule and work together
The team will be conformed by 6 people.	F0	The team has been already selected by the teachers
The prototype's mechanisms will be constructed mostly of plywood and 3D printed PLA.	F2	Make sure to use the correct material to reduce time and improve the strength of the parts
Our prototype will focus on the mechanical design.	F1	Make each individual mechanical movement work individually and then together, make sure the parts that will carry other parts/weight are strong enough beforehand