







from 20.03.2018 to 26.03.2018





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 (Deconstruction of Caprese salad)
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Introduction

Molecular cuisine - blended (on line and practical) Trainers: Alex Such, Raquel Domenech.

Term: January - March 2018 Number of hours: 48h.

18 hours on-line.

28 hours practical lessons.

2 hours validation of the course.

Form of conducting the course: blended. (on-line and practical)

The condition of fulfilling the course is the participation of all pointed activities and complementation of all tests.

Block I - Using specific products

- · Soy lecithin.
- · Carbohydrate. Type of alga.
- · Elastic.
- · Gellan gum.
- · Agar agar.
- · Sodium alginate.
- · Chloride of sodium.
- · Rubber Xantana.



Block II - Molecular cuisine preparations I

- · Preparation of Menus in Molecular Cuisine.
- · Preparation of Dishes in Molecular Cuisine: appetizers.
- · Preparation of Starters in Molecular Cuisine: cocktails and salads.
- · Preparation of Main Course in Molecular Cuisine: Rice.
- · Preparation of Main Course in Molecular Cuisine: Vegetables.
- · Preparation of Main Course in Molecular Cuisine: Salty Coca and Pasta.
- · Preparation of desserts in Molecular Cuisine.

Block III - Molecular cuisine preparations II

- · Preparation of Starters in Molecular Cuisine: Salads.
- · Preparation of Starters in Molecular Cuisine: Shellfish.
- · Preparation of Starters in Molecular Cuisine: Shrimps, Crabs, Lobsters.
- · Preparation of Main Course in Molecular Cuisine: Seafood.
- · Preparation of Main Course in Molecular Cuisine: Meats.
- · Forms and Aesthetic Compositions.



RECIPE I

RED FRUITS SPAGHETTI WITH SPHERIFICATION OF YOGURT

QUANTITY
500ml
2gr
50gr
50ml

- · Make a coulis and strain.
- · Add the agar agar and bring to a boil.
- · Fill the probe with the syringe and bathe in the ice water bath. Cool.
- · Push out with the syringe.
- · Accompany spaghettii with the yogurt spherification.



RECIPE II - SPAGHETTI 3 CHOCOLATES

INGREDIENTS	QUANTITY	METHOD
Black spaghetti Dark chocolate Water Ron Agar agar White spaguetti White chocolate Water Ron Agar agar Milk spaguetti White chocolate Water Ron Agar agar Milk spaguetti Agar agar	85gr 175ml 15ml 2gr 85gr 175ml 15ml 2gr 85gr 175ml 15ml 2gr	 Mix all the ingredients until it is dissolved, and it comes to a boil. Absorb with the syringe and go through the probe. Cool in a bath with ice. Push out with the syringe. Serve with the 3 spaghetti in the plate. Decorate with the leaf of mint.



RECIPE III

TOMATO GEL WITH MODENA VINEGAR CAVIAR AND ENCAPSULATED BASIL OIL (DECONSTRUCTION OF CAPRESE SALAD)

INGREDIENTS	QUANTITY	METHOD
Tomato juice Xantana gum Modena vinegar pearls Agar Agar Sunflower oil Balsamic vinegar Encapsulated Olive oil Fresh basil Isomalt sugar	250ml 1gr 2 gr C/s 150ml 150ml 20gr 200gr	 Prepare tomato juice with Xantana, mix with a blender until textured. Mix the Agar Agar with the balsamic vinegar and bring to boil. Make the caviar with the syringe dropping drops in the sunflower oil. Make a basil oil. Undo sugar Isomalt and with a pipette perform encapsulations.



INGREDIENTS QUANTITY

Mature tomato 0.5kg Knuckle bone 1 unit Bouquet Garni with garlic 1 unit Onion 20gr Leek 25gr Carrot 15gr 15gr Flour Oil $\frac{1}{2}$ dl. Peppers 2gr Bacon 10grW White base 1dl Salt, sugar, white pepper Parmesan pearl Nata 400ml 400gr Parmesan Alginate 2gr Calcium 10gr Honey caviar Mineral water 80ml Honey 125gr Agar Agar 2 gr Sunflower oil C/s Saffron threads C/s

RECIPE IV

TOMATO SAUCE WITH PARMESAN PEARL, HONEY AND SAFFRON CAVIAR

- · Sauté in the oil the brunoise, with the knuckle bone and the bacon.
- · Add the flour and sauté.
- · Add the paprika and the flour by sautéing very lightly and then incorporate the chopped tomato roughly together with part of its juice.
- · (if it is canned).
- · Wet with white base.
- · Incorporate the bouquet garn.
- · Season and cook for 45 min.
- · Remove knuckle bone, bacon and bouquet garni.
- · Blend in blender and refine.
- · Undo the cream with the parmesan and make a sauce.
- · Arrange the calcium with the parmesan and cream mixture.
- · Bathe the alginate with a blender and leave to set for 15 minutes.
- · Then make the pearls.
- · Mix honey with water, saffron strands and agar agar, bring to a boil.
- · Cool the sunflower oil and make the caviar with a syringe.



RECIPE V

YOGURT SPHERIFICATION

INGREDIENTS	QUANTITY
Liquid Yogurt Calcium lactate	150gr 2.5gr
Sodium alginate	2gr
Mineral water	475ml

- · Stir the water with alginate and leave to stand for 15 minutes.
- · Mix the yogurt with calcium lactate.
- · Make spheres in the previous water with the yogurt mixture.
- · Chill for 3 minutes and then wash with water.
- · Serve.



RECIPE VI

MUSHROOM FOAM WITH PARMESAN CHEESE CRUNCH

INGREDIENTS QUANTITY Onion 1 unit Garlic clove 1 unit Varied mushroom 200 gr 200 ml Cooking cream Butter 15 gr White wine 1 dl Hard bread 50 gr Chopped ham powder 25 gr Rosemary sprig C/s White base c/s Parmesan 100gr **Dried tomatoes** 25gr 20gr Chopped bacon Oregano c/s

- · Putting all the ingredients (Prepare the Mise in place of the ingredients and utensils.
- · Cut the onion into brunoise and chop the garlic.
- · Clean and chop the mushroom roughly.
- · Thicken, without mounting 1 dcl of cream, cook and let it set.
- · Cut, clean and refresh in cold water the sprigs of rosemary. (2 small)
- · The mushroom cream.
- · Melt the butter, add the olive oil and drop the onion white.
- · Add and brown the garlic and incorporate the mushrooms. Fry until the moisture disappears.
- · Add the wine and reduce until half, season with salt pepper and nutmeg.
- · Pour the bottom and cook for about 15 minutes. Let cool.
- · Grind until you get a fine cream and refine with cream.
- · Rectify the seasoning point.
- · Strain the cream and put in the siphon. They have two loads of siphon.
- · Arrange in a glass and decorate with the crunchy parmesan.
- · Crunchy Parmesan:
- · Grate the parmesan, mix the chopped dried tomatoes and the bacon.
- · Sprinkle with oregano.
- · Arrange on baking paper and bake at 180° C until golden brown.



RECIPE VII

LEMON FLOATING ISLAND WITH AIR OF COCONUT LIQUEUR

INGREDIENTS	QUANTITY	METHOD
Onion Garlic clove Varied mushroom Cooking cream Butter White wine Hard bread Chopped ham powder Rosemary sprig White base Parmesan Dried tomatoes Chopped bacon Oregano	1 unit 1 unit 200 gr 200 ml 15 gr 1 dl 50 gr 25 gr C/s c/s 100gr 25gr 20gr c/s	 Make a syrup with a strong strand. 113°c. Meanwhile beat the egg whites to the point of snow. Add the syrup to the wire while stirring until the meringue is cold. Undo butter with chocolate topping in a saucepan. Add the icing sugar and beat until you get a cream, add the yolks one by one. Beat the egg whites until stiff with sugar. Add the egg whites to the cream made with butter, chocolate and yolks Add the flour in two parts with enveloping movements with the help of a spatula. Jack the mould and arrange the shake. Cook at 180° C for 35-40 minutes. Mix the liquor with the lecithin and turbine.



RECIPE VIII

VEGETABLES IN TEXTURES

INGREDIENTS QUANTITY METHOD

Artichokes Green beans	2 unit 50gr
Carrots	2 unit
Potatoes	1 unit
Onion	1 unit
Green peas	100gr
Zucchini	1 unit
Tomato	1 unit

- · Cut into thin slices of artichokes and fry to make chips.
- · Cook the beans and mash to make a cream.
- · Cook the carrot and make a gel by adding xanthan gum.
- · Cook the potato and mash add cream and a little of the cooking water.
- · Arrange in the siphon previously passed through a strainer and put the loads to make a potato foam.
- · Cook the zucchini together with the pea and mash with a little of the cooking water.
- · Add Agar Agar to make a gelatine.
- · With tomato water. Grate the tomatoes and let them strain through a cloth sieve to make a tomato water.



RECIPE IX

COFFEE MOUSE WITH HONEY GEL

INGREDIENTS	QUANTITY	METHOD
Cream Honey Sugar Yolks Soluble coffee Honey gel Honey Water Xantana gum	250 ml 50 grams 30 grams 3 units 5-8 grams 100 grams 100 grams 1 gram	 We put the cream and honey in a saucepan, and bring it to boil with the soluble coffee to infuse. When we strain and set aside. We mix the yolks with the sugar with the help of a rod. We add the cream little by little. Infused without stopping to move so that it does not set. We take it to the fire and we stir until it thickens. Mix water, honey and xanthan gum and cook until a gel is made.



RECIPE X

TOMATO CANNELLONI WITH MASCARPONE CREAM AND OLIVE OIL SPAGHETTI INFUSED WITH BASIL

INGREDIENTS	QUANTITY	METHOD
Tomato based sauce Elastic mascarpone Nata Walnuts Olive oil Fresh basil Agar Agar	400 grams 25 grams 300 grams 75ml 40gr 150ml 10 grams 1.5grams	 Heat the tomato sauce and add the elastic and bring to a boil. Stretch on a baking sheet in the desired thickness. Cool. Mix the mascarpone cheese with the cream the chopped nuts until you get a cream. Infuse the oil with the fresh basil without reaching 80°C. Cool and strain. Add the agar Agar and bring to boil. Introduce in the probe to make the spaghetti.



RECIPE XI

LIQUID CROQUETTES

INGREDIENTS	QUANTITY	METHOD
Milk Onion Serrano ham Gelatine Flour Butter Grated bread Flour Egg	500ml 80 grams 80 grams 6 sheets 15 grams 15 grams 100 grams 100 grams 2 units	 Grate the onion and poach with the butter. Add the chopped ham and give it a spin. Add the flour and make a roux Add little by little the milk and stir until it takes body. Add the previously hydrated gelatine sheets. Introduce in mould and freeze. Batter with flour, egg and bread crumbs.



RECIPE XII

CUPCAKE WITH RASPBERRY GELLING

INGREDIENTS	QUANTITY	METHOD
Eggs Sugar Milk Oil Flour Impeller Lemon zest Raspberries Gellan gum	4 units 200 grams 50 grams 175 gramS 250 grams 7 grams Lemon zest 100 grams 1 gram	 Beat the eggs with the sugar. Add lemon zest. Add oil and milk, mix well. Incorporate the flour and the impeller. Let stand 1 hour approximately. Make a coulis with the raspberries, add the Gellan gum and boil. Arrange a little cupcake dough and fill with the raspberry jelly. Fill the capsules and bake for 15 minutes at approximately 210°C.



RECIPE XIII

FRUIT JELLY BEANS

INGREDIENTS QUANTITY

Fruit juice c/s
Agar agar c/s

- · Make natural fruit juices, add the agar agar and bring it to a boil.
- · Put in moulds and let it cool.



RECIPE XIV

SEPIA BURGER WITH POTATO PAPER

INGREDIENTS	QUANTITY	METHOD
Cuttlefish or squid Garlic Oil Carrots Onion Gel burger Potatoes	500 grams 2 units c/s 80 grams 80 grams 7 grams 3 units	 Chop the cuttlefish. Make an oil with garlic. Chop the carrot and onion and poach. Add to cuttlefish and garlic oil. add the gelburguer, let it rest and give it the form. Arrange on film and give it a tube shape. Cut into a hamburger and grind. Grate the potato and remove the starch. Paint in the pan until you get a paper. Then fry in plenty of oil.









