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113 YEARS OF PROVIDING QUALITY TECHNOLOGY EDUCATION

# **Development of Veggie Noodles**

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## **Background of the Study**

### **Causes**

Some of the ingredients used are unhealthy including the method of production

### **Problems**

Most of the noodles available has insufficient nutritional value

### **Effects**

Lacks nutrients and associated with the development of abnormal health conditions

**Perceived Solution:**

**Development of Veggie Noodles**



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## **Objectives of the Study**

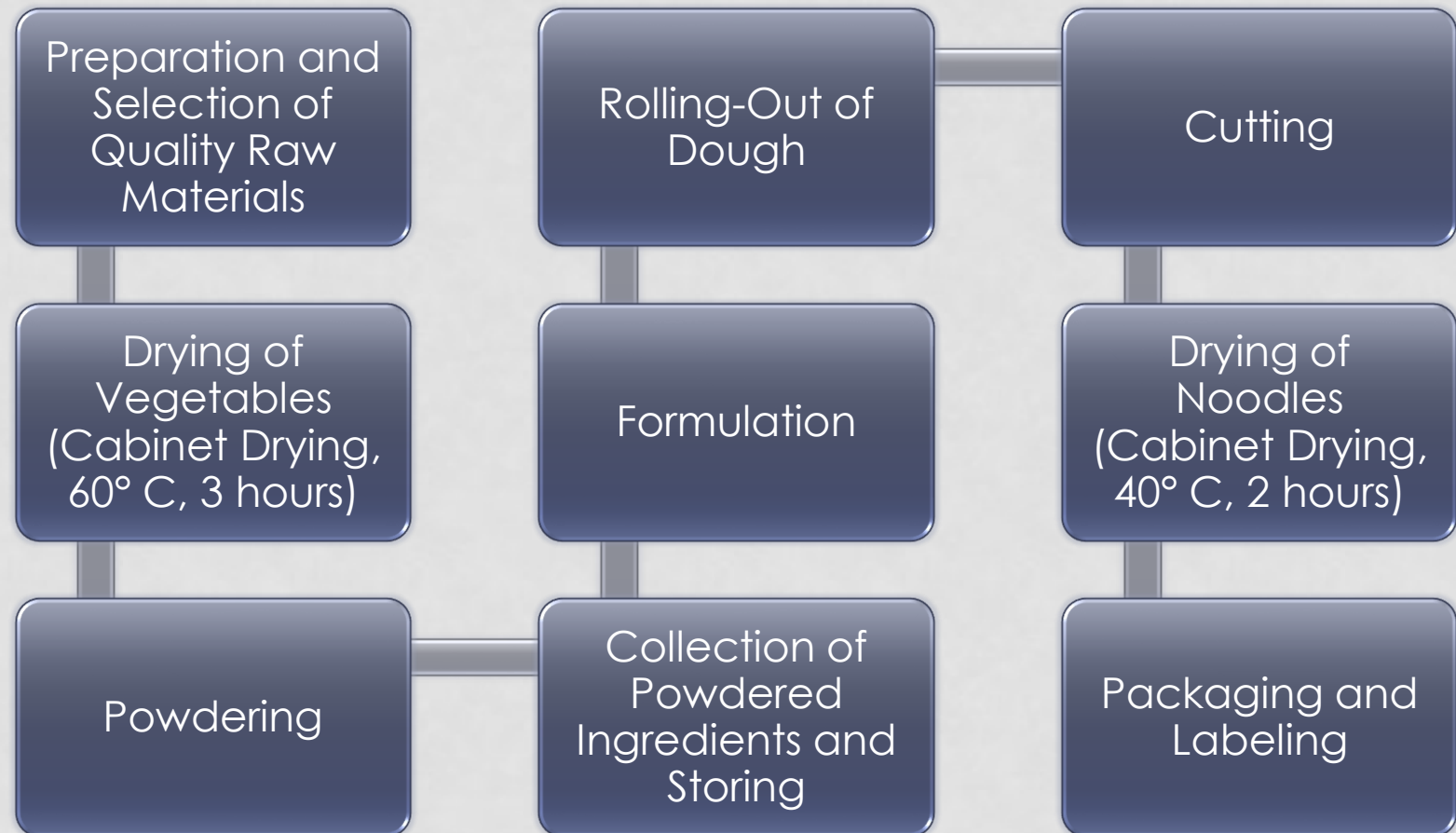
1. Formulate a Veggie Noodles with the following characteristics:
  - a. It contains Fiber, Iron, Potassium, and Protein.
  - b. Soft, smooth and no artificial preservatives.
  - c. Pack in Polyethylene Sheet; and
  - d. Pack in 250 grams per pack
2. Apply standard test for nutrient, proximate, metal and microbial analyses.
3. Evaluate the products general acceptability through sensory evaluation



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## Methodology



# VEGGIE NOODLES





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## Test Results

*Proximate and Nutritional Analysis Results of Veggie Noodles*

Analysis	Result	Unit	Method
Ash	2.69	%	Gravimetric
Moisture	10.52	%	Air-Oven
Crude Fat	Not Detected	---	Soxhlet
Crude Protein	17.62	%	Extraction
Crude Fiber	1.68	%	Kjeldahl Wendee
Iron	0.11	%	Spectrophotometric
Potassium	0.295	%	Flame Photometry





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## Test Results

*Results from Metal and Microbial Analyses of Veggie Noodles*

Analyses	Results	Units	Methods
Heavy Metals	<5	mg/kg	USP-Colorimetric
E.Coli	<3	MPN/g	BAM Chapter 4
Salmonella	Negative		Rapid Test
Staphylococcus aureus	< 1 x 10	CFU/g	BAM Chapter 12



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## **Evaluation Results**

*Summary of Overall Mean Values of the Evaluation on Veggie Noodles*

Attributes	Mean	Descriptive
<b>Appearance</b>	<b>4.08</b>	Moderately Appealing
<b>Aroma</b>	<b>4.24</b>	Moderately Pronounced Vegetable Aroma
<b>Texture</b>	<b>4.02</b>	Slightly Soft
<b>Flavor</b>	<b>3.86</b>	Moderately Pronounced Vegetable Flavor
<b>General Acceptability</b>	<b>4.38</b>	Like Moderately





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## **Conclusions**

1. Veggie noodles attained the desired characteristics.
2. The product consists of indispensable nutrient such as protein, iron and potassium. It is guaranteed safe for human consumption.
3. Veggie Noodles is much healthier than commercial instant noodles as the evaluation results revealed that it was “Acceptable”.



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## **Recommendations**

1. It is suggested to improve the color to an appealing one.
2. It was recommended to undergo more nutritive test to know more and determine other health benefits of the product.
3. It was suggested that the product undergoes stability test to determine the extent of quality and safe for consumption.



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Presentation**

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