

**KUMARI ARIVIAL PERAVAI  
YOUNG SCIENTISTS PROGRAMME 2012-2013  
FOOD AND AGRICULTURE-CHALLENGES  
INDIAN INSTITUTE OF SPACE SCIENCE&TECHNOLOGY  
VALIAMALA  
TRAINING ON MONITORING AGRICULTURE  
THROUGH SATELLITE TECHNOLOGY  
16-1-2013**

- Introduction of Satellite Technology&Remote Sensing
- Development of Satellite based area frame
- Weather systring&mapping science
- Crop forecasting system
- Water resource
- Digital Image processing

**Dr.Chandra sekar  
Dr.Padmanaban  
Dr.Gnanappazham  
Dr.Saisubramanian  
Dr.Divya  
&  
Lab faculties**













## Participants of Students and staff members

### **RED TEAM**

**RESEARCH TOPIC- Future of Food and Agriculture**

**Insights into Future of Agriculture**  
**Feed India by 2030**  
**Food security and growing population.**  
**National and international Agricultural policies.**  
**World Hunger and Poverty**  
**Food as a Human Right**  
**Agricultural land degradation and water scarcity**  
**Food Safety & Natural Disasters**  
**Emerging Issues and Challenges for Global Agriculture**  
**Cooperative Farming & Preservation of Water Bodies.**  
**Influence of climate change and bio-energy on long term outlook for food and Agriculture.**

**Name**  
I.J.DHARAN

**School**  
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2.J.R.FRANIYA ANTON  
3.RAMAKASH R.S  
4.M.ABISHEK  
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8.S.S.KRITHIYA SUYASRI  
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Hinduvidyalaya Matric.H.Sc.School,Karungal

### **GREEN TEAM**

#### **RESEARCH TOPIC: Food Systems and Health**

Balanced Nutrition.

Moving Towards a Better Food System

Principles of Healthy & Sustainable Food System

Access to Healthy Food

Food systems & public health

Fast Food & health Hazard

Malnutrition

Relation between food production, Population,  
equity, & human health impact each other.

Food Contamination & Disease

Environmental impact of Agricultural Produces.

1.A.V.ANJANA

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2.P.MERLINNITHYA

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4.I.SREE BADHRA

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5. R.SOWNDHARIA

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6.JENISHA J.M

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9.SIDHARTH.S

N.M.Vidhyakendra ,Chitharal

10.JAIGANESH.B

Excel Global School,Thiruvattar

### **MAROON TEAM**

#### **RESEARCH TOPIC : Food production and Consumption**

Production

Food production and consumption trends in India.

Production, procurement, distribution constraints.

Modern technologies in food & Agricultural produce Preservation.

Environmental consequences of food consumption

Co-products and wastes

Food packaging, packaging Materials, hygiene in places

Increased role of technology and innovation.

Problems faced by Agriculturist & farmers.

Balanced Industrialization for Agricultural growth.

1.J.S.ANANDAKRISHNAN

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V. Kendra Matric.Hr.Sec.Kanyakumari

3.KARANSAGAR

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8.SOWBIYA.S.K

SriVigneshwara Matric.H.School,Kappukadu

9.RESHMASEN.N

Munchirai Punitha Arokiamatha Matic H.SC.

### **YELLOW TEAM**

#### **RESEARCH TOPIC - Food Processing and Human**

Food Crisis

Food Chemistry and Nutrition

Food Processing principles & Storage

Fruits, vegetables and plantation Products processing

**Animal products processing**

Food additives &amp; Adulterants

**Increased concentration and dependence in food supply****Food from the Sea**

National and international food policies &amp; food laws.

Genetically modified crops.

**Food perception**

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|---------------------|--------------------------------------|
| 1.S.FATHIMA SHAHANA | Excel Global School, Thiruvattar     |
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| 10.AKIL.S.NAIR      | Hinduvidyalaya MatricH.Sc.Marthandam |

**BLUE TEAM****RESEARCH TOPIC – Agriculture and Technology.**

Agriculture-Historical perspectives

Agriculture in India- An Overview.

Agri-science &amp; Organic Farming

Technology in Agriculture

Dry land &amp; Wet land Agriculture

Drip and Sprinkler Irrigation.

Technology for Assuring Agriculture Production

Integrated Farming System (Animal husbandry, Poultry &amp; Dairy)

Storage of food grain &amp; preservation.

Role and status of fertilizers &amp; pesticides for sustained Agricultural growth.

Agriculture &amp; Economic Concerns.

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**Guide Teachers**

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**List of staff Members**

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|----------------------|--|
| Dr.T.James Wilson    | Chairman, Martandam College of Engineering   |
| Capt.Bennetsingh     | Port Trust Totucorin                         |
| Shri.S.Thiruvengadam | Dist. Employment Officer Rtd                 |
| Shri.S.Johnson       | Head Master R.C High School Chemparuthivilai |
| Shri.D.Samraj        | Head Master Govt Middle School KadamanKuzhi  |
| Shri.C.Sajeev        | HOD Sun College of Engineering               |
| Shri.P.Balakrishnan  | Head Master Rtd                              |
| Shri.L.Edwin Sam     | Social Scientist ,Marthandam                 |
| ErV.V.Vikram         | Consultant ,kap                              |
| Shri.M.Velaian       | Organiser,KAP                                |