



# COLLEGE OF DENTAL SCIENCES DAVANGERE

## DIET AND NUTRITION

### MODULE 1:

We are learning about basic principles of food and nutrition and we are going to learn in detail about macronutrients and their role in day today's healthy life.

---

DATE: 16/09/ 2017  
TIME: 2.30 TO 5PM

---

### MODULE 2:

We are going to learn about micronutrients and their significance.

As growth during adolescence is faster than any other stage in individual's life except the first year and the occurrence of second growth spurt in a life span. It is a period of rapid linear growth phase, it's very important to know the nutrient requirements of adolescents.

---

DATE: 14/10/2017  
TIME: 2.30 TO 5PM

---

### MODULE 3:

Globally, anemia is a common public health problem, which is present in majority of the developing countries and few developed countries.

In India, the prevalence of anemia is very high in terms of percentages and caused due to poor density and bioavailability of nutrients from staple foods. This week will discuss how to overcome anemia through nutritional management therapy.

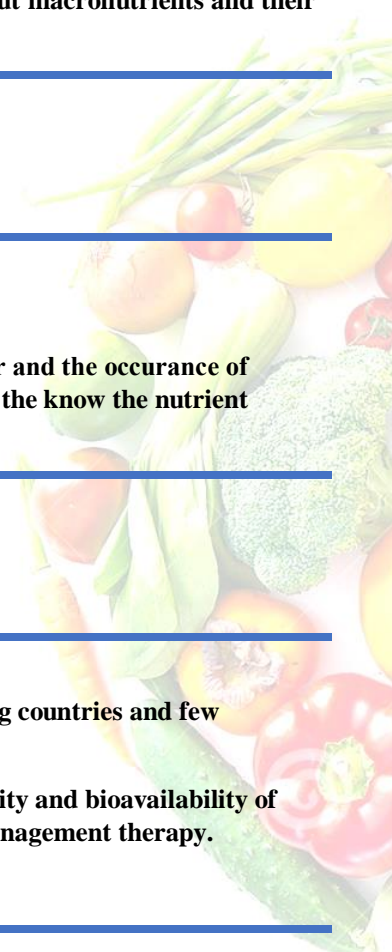
In this session will also have a overlook on food adulteration.

---

DATE: 28/10/2017  
TIME: 2.30 TO 5 PM

### Contact for details

Programme coordinator: Dr.KavyaRani B.S  
Reader  
Dept. of Pedodontics  
CODS, Davangere  
Phone No.: 9901647816



## **MODULE-1**

- 1. We are learning about basic principles of food and nutrition and we are going to learn in detail about macronutrients and their role in day today's healthy life. Time: 1 Hour 30min**

### **Basics of Nutrition-**

Introduction

Functions of food and Food choices

Definition of nutrition and Balanced nutrition

Food groups

The food guide pyramid and My plate

### **Carbohydrates**

Introduction

Classification and Functions of dietary carbohydrates

Source and significance of different carbohydrates in diet

Recommended dietary allowance

Carbohydrate metabolism

Glycemic index and Glycemic load

Dietary fibers and Sweeteners

Deficiency and Excess of carbohydrates

### **Proteins**

Introduction, Composition and Classification of proteins

Functions and sources of proteins

Recommended dietary allowance

Metabolism of proteins and Nitrogen balance

Deficiency and consequences of excess of proteins

## **Lipids**

Definition of Lipids and Fats

Classification of Lipids and Fatty acids

Functions of fats and dietary fats

Sources, Digestion, Absorption and Metabolism of fats

Deficiency and Consequences of excess of fats

Recommended dietary allowance for fats and oils

## **MODULE-2**

1. We are going to learn about micronutrients and their significance.
2. As growth during adolescence is faster than any other stage in individual's life except the first year and the occurrence of second growth spurt in a life span. It is a period of rapid linear growth phase, its very important to know the nutrient requirements of adolescents.

### **Fat soluble vitamins and Water soluble vitamins**

#### **Minerals**

#### **Water**

Distribution of water in body

Functions of water

Hormonal regulation

Water intake and Output

Consequences of water imbalance in body

Water intoxication

### **Nutritional requirements for Adolescents**

Dietary guidelines for adolescents

Factors affecting eating behavior in Adolescents

Adolescent obesity and nutritional management for obesity

Eating disorders and nutritional management of eating disorders

## **MODULE-3**

- 1. Globally, anemia is a common public health problem, which is present in majority of the developing countries and few developed countries.  
In India, the prevalence of anemia is very high in terms of percentages and caused due to poor density and bioavailability of nutrients from staple foods. This week will discuss how to overcome anemia through nutritional management therapy.**
- 2. In this session will also have a overlook on food adulteration.**

### **Nutritional management for Anemia**

Introduction

Classification

Signs and symptoms of Anemia

Diagnosis of Anemia

Nutritional management of Anemia

### **Food adulteration**

Introduction

Commonly adulterated food and Common adulterants

Simple detection methods of the adulterants

### **ASSESSMENT**

Reflective assessment and MCQs