



CVM
UNIVERSITY

Aegis: Charutar Vidya Mandal (Estd.1945)

FACULTY OF ENGINEERING & TECHNOLOGY

Effective from Academic Batch: 2022-23

Programme: Bachelor of Technology (Computer Engineering)

Semester: VI

Course Code: 202070621

Course Title: Food Nutrition and Health

Course Group: Open Elective - II

Course Objectives: The course will provide insight on the available food groups and to make choice for healthy food products. It will also deliberate on the importance and role of nutrients in maintaining health.

Teaching & Examination Scheme:

Contact hours per week			Course Credits	Examination Marks (Maximum / Passing)				
Lecture	Tutorial	Practical		Theory		J/V/P*		Total
				Internal	External	Internal	External	
3	0	0	3	50/18	50/17	NA	NA	100/35

* J: Jury; V: Viva; P: Practical

Detailed Syllabus:

Sr.	Contents	Hours
1	Food and Nutrition: Introduction to Nutrition, Definition and classification of food, Functions of food, Food guide pyramid, Nutrient Wheel	06
2	Constituents of food: Classification, Properties and Significance of Carbohydrate, Protein, fat, Dietary fiber, water, vitamins and minerals	09
3	Nutritive Aspects of Foods: Food constituents, Food and energy, Nutritive value of Foods, Bioavailability of nutrients, BMR.	06
4	Diseases/Disorders: Malnutrition & its classification: Kwashiorkor, Marasmus; Osteoporosis, Anaemia and Goiter, Food fortification and supplementation.	06
5	Diet: Balanced Diet requirement for various age groups, Infant, Child, adolescence, Adult & old age; Healthy lifestyle practices	07



CVM
UNIVERSITY

Aegis: Charutar Vidya Mandal (Estd.1945)

6	Food Adulteration: Food adulteration, Food Poisoning, Food Infection and Intoxication, Anti-nutritional factors naturally present in food, Common food adulterants: Identification and detection.	08
	Total	42

Reference Books:

1	Food and Nutrition by M. Swaminathan, Vol-I, Bangalore Printing and Publishing Co.
2	Nutrition and Dietetics By Shubhangini Joshi, Tata Mc-graw Hill Co. Ltd.
3	Food Facts and Principles by N. Shakuntala Manay & M. Shadaksharaswamy, New Age International (P) Ltd. Publishers
4	Food Preservation and Processing by Manoranjan Kalia and Sagita Sood, Kalyani Publishers.

Supplementary learning Material:

1	https://www.hsph.harvard.edu/nutritionsource/healthy-eating-plate/
2	https://www.who.int/health-topics/nutrition
3	https://fssai.gov.in/cms/fortified-food.php

Pedagogy:

- Direct classroom teaching
- Audio Visual presentations/demonstrations
- Assignments/Quiz
- Continuous assessment
- Interactive methods
- Industrial/ Field visits

Suggested Specification table with Marks (Theory) (Revised Bloom's Taxonomy):

Distribution of Theory Marks in %						R: Remembering; U: Understanding; A: Applying; N: Analyzing; E: Evaluating; C: Creating
R	U	A	N	E	C	
25%	40%	10%	10%	15%	---	

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Course Outcomes (CO):

Sr.	Course Outcome Statements	%weightage
CO-1	Understand food functions and recommended serving sizes of various food groups as per human body requirement	30
CO-2	Comprehend the significance of macro and micronutrients in human nutrition	30
CO-3	Comprehend the role of specific nutrients and overall daily diet in developing diseases/disorders	20
CO-4	Conceptualize food adulteration and its consequences on human health	20



CVM
UNIVERSITY

Aegis: Charutar Vidya Mandal (Estd.1945)

Curriculum Revision:	
Version:	2.0
Drafted on (Month-Year):	June-2022
Last Reviewed on (Month-Year):	-
Next Review on (Month-Year):	June-2025