



Children's University
School of Nutrition and Health
Department of Home Science
Gandhinagar

**ACADEMIC
 YEAR
 2020-2021**

M.Sc.- FN

Year	1	Course Type: Elective Compulsory	Credits	4
		Course No: ECFN 104B		
		Course Title: Nutritional Epidemiology		
Semester	1		Hours/wk	4
Objectives		1. To enable the students to understand the role of epidemiological research in improving health systems and nutritional status. 2. To understand recent developments in nutritional/ health status assessment methods and their strengths and limitations		
COURSE CONTENT / SYLLABUS - THEORY				
Unit I	Introduction to Epidemiology- Aims of epidemiology			
	<ul style="list-style-type: none"> ● Aims & concepts ● Role & strategies ● Strengths & weaknesses 			
Unit II	Types of Epidemiological Studies			
	<ul style="list-style-type: none"> ● Observational studies ● Experimental studies (Randomized Control Trials & Quasi Experimental trials) ● Non Experimental (Descriptive, Analytical Cohort, case control & cross-sectional) 			
Unit III	Determinants of Epidemiological Studies			
	<ul style="list-style-type: none"> ● Direct and indirect parameters of assessment of nutritional status used in community survey ● Use of epidemiological data, recent developments ● Planning of health and nutritional surveys ● Interpretation of epidemiological studies 			

Unit IV	<p>Use of Epidemiological Research in Strengthening Nutritional Interventions, National Programmes and Health Systems</p> <ul style="list-style-type: none"> • Approaches and Programmes for the control of <ul style="list-style-type: none"> • Under nutrition , Stunting & wasting • Vitamin A Deficiency. • Iodine Deficiency Disorders. • Other programmes for control of NCD's • Use of surveillance data for program improvement. e.g. National Nutrition Monitoring Bureau, National Family Health Survey, Census data <p>Spermatogenesis and oogenesis</p>
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References

1. Measuring and Interpreting Malnutrition and Mortality (2005) : A Manual by CDC & WFP)
2. Bonita.R, Beaglehole.R, Kjellstrong.T (2006) Basic Epidemiology- WHO
3. Sathe , P.V. Sathe, A.P. (1991) Epidemiology and Management for health Care Popular Prakashan, Mumbai
4. Willett W. Nutritional Epidemiology (2nd edition). New York: Oxford University Press, 1998.
5. Margetts BM, Nelson M. Design Concepts in Nutritional Epidemiology. New York: Oxford University Press, 1997.
6. Food and nutrition surveillance systems Technical guide for the development of a food and nutrition surveillance system, WHO regional publication, Eastern Mediterranean series, WHO 2013
7. Policies for the control of nutritional anemia, vitamin A deficiency, iodine deficiency disorders, Govt. of India.
8. National and State Nutrition / Population Education Policies, Govt.of India.
9. Maternal & Child Nutrition Series, Lancet 2008 & 2013
10. Census 2011, Government of India
11. National Nutrition Monitoring Bureau (Latest data)
12. SRS, NFHS III & IV Reports, CES, RSOC Reports for India & Gujarat
13. Global Nutrition Reports (Latest)

Journals

1. Journal of Epidemiology
2. Ecology of Foods and Nutrition.
3. Indian Journal Med. Research.
4. Asia Pacific journal of Nutrition.
5. Tropical Pediatrics.Human Physiology by C C Chatterjee