

## IV SEMESTER

### HARD CORE COURSES

#### **FNH 551 CLINICAL NUTRITION AND DIETETICS – II**

**52Hr (13× 4 units)**

#### **Course outcome:**

- Describe the basic concepts and interrelation between food and liver health.
- Identify various types of renal diseases and its dietary treatments.
- Write down the process of dialysis and its role in renal disease.
- Write down etiology and pathophysiology of Cardiovascular diseases.
- Write down the concept of dietary management in cancer and inborn errors of metabolism.

**Unit I:** Dietary management of liver disorders - Functions of liver, agents for liver damage, hepatitis, cirrhosis, hepatic encephalopathy, hepatic coma, cholelithiasis, pancreatitis.

**Unit II:** Diet in renal diseases - Functions of kidney, glomerulonephritis, nephritic syndrome, acute and chronic renal failure, dialysis, urolithiasis repetition, uremia, urinary tract infections.

**Unit III:** Diet in cardio vascular diseases and hyper tension - Clinical effects and risk factors, role of fat in the development of atherosclerosis, myocardial infarction, congestive heart failure, hyperlipoproteinemia, hyper cholesterolemia, hyper tension and factors.

**Unit IV:** Dietary management in cancer and other diseases - Risk factors and symptoms, nutritional problem of cancer therapy, dietary management and nutritional requirement, role of food in prevention of cancer, eating problems in cancer and nutritional therapy, Physiological changes and dietary management of AIDS. Inborn errors of metabolism: causes, consequences and dietary management of phenyl ketonuria, fructosemia, galactosemia, maple syrup urine disease.

#### **REFERENCES**

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- Bedi Y. P., Public Health and Hygiene, Atmaram & sons, Kashmere gate, Delhi.
- Bamji, M. S., P. N Rao & Reddy, Textbook of Human Nutrition, Oxford & IBH Publ. Co.
- Williams SR, RS Worthington, Introduction to Nutrition throughout the life cycle
- Gopalan C., Combating under Nutrition – Basic issues & Practical Approaches, NFI Publications.
- Garrow, J. S., James, W. P.T and Raiph, A (2000), Human Nutrition and Dietetics, 10<sup>th</sup> ed., Churchill Livingstone
- Mahan, L. K and Escott Stump. S. (2008), Kraus's Food & Nutrition Therapy 12<sup>th</sup> Ed. Saunders-Elsevier
- Anderson L., Dibble, Turkki PR, Mitchell HS & Rynbergen HJ. 1982. Nutrition in Health and Disease. Saunders-Elsevier