

Course Title: Nutraceuticals

Course No: FNT-512

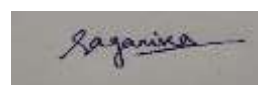
Course credit: 1+1

Theory

Sl. No.	Topic	No. of lectures
1	Nutraceuticals/functional foods: Definition, Classification and scope in aquaculture	3
2	Benefits and modes of action of nutraceuticals: Immunomodulatory proteins, Peptides	2
3	Benefits and modes of action of nutraceuticals: Polysaccharides, Oligosaccharides, Herbal extracts/phytochemicals	3
4	Benefits and modes of action of nutraceuticals: Carotenoids, Nucleotides, Bioactive compounds from seaweeds etc.	3
5	Minerals as nutraceuticals: Zinc, Copper	2
6	Minerals as nutraceuticals: Chromium, Manganese, and Selenium	2
7	Role of nutraceuticals: Stress mitigation and Growth enhancement	2
8	Role of nutraceuticals: Immunomodulation and disease prevention	2
Total no. of lectures		19

Practical

Sl. No.	Topic	No. of lectures
1	Estimation of lysozyme	2
2	Estimation of NBT	2
3	Estimation of MPO	1
4	Estimation of antibody titre	2
5	Estimation of SOD	2
6	Estimation of catalase	1
7	Estimation of GPx	1
8	Extraction of bioactive compounds	3
9	In vitro antioxidant assay	2
Total No of Practicals		16



Course Teacher
(Dr. Sagarika Swain)