Aquatic Resources Technology Curriculum

FIRST YEAR	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Essential Skills (12 Credits) Course units in Aquatic Resources Technology (04 Credits) **Broad General Education (06 Credits)** Course units in Aquatic Resources Technology (10 Credits)	**Provide a thorough background knowledge on inland aquatic resources, their diversity and management; Production technology used in enhancing aquatic resources (i.e. Aquaculture); Living and nonliving ocean resources, utilization and management of aquatic resources** Course units in Aquatic Resources Technology (29 credits) Essential Skills (03 Credits) & Broad General Education (06 Credits)	**Application of novel technologies of value addition to improve quality of various aquatic resources; Introduction to incubation projects related to aquatic resources** Course units in Aquatic Resources Technology (33 credits) Essential Skills (01 Credit) & Broad General Education (03 Credits)	**Application of knowledge gained in relevant areas of Aquatic Resources Technology to fulfill local needs, global trends, value addition to natural resources and evolving marketing trends** Course units in Aquatic Resources Technology (13 Credits) • Industrial Training (Beginning of the academic year) (06 Credits) • Research Project (End of the academic year) (08 Credits)

Course Units in AQT

First Year

AQT 111-1 Systematics and Morphometrics

AQT 112-2 Aquatic ecosystems and biodiversity

AQT 101-1 Principles in Aquaculture

EAG 152-0 Agricultural Meteorology and Climatology

AQT 113-3 Biology, Anatomy and Physiology of Aquatic Animals

AQT 114-1 Scientific illustrations

ANS 101-2 Principles of Genetics & Breeding

ANS 102-2 Principles of Food Science & Animal Product Technology

EAG 101-2 Biochemistry

EAG 102-0 Mathematics for Biological Science

Second Year

AQT 211-1 Non-living Ocean Resources

AQT 212-2 Introduction to Marine Aquatic Resources

AQT 213-2 Fish Genetics

AQT 214-2 Fish and shellfish nutrition

AQT 221-2 Fish Seed Production and Larval Rearing

AQT 222-2 Aquatic Plants Propagation Technology

AQT 241-1 Aqua Eco Tourism

AQT 251-1 GIS and Remote Sensing Applications on Fisheries and Aquaculture

AQT 201-1 Inland Aquatic Resources and Management

ANS 201-2 Principles of Food Preservation and Processing

AQT 223-2 Sea Weed Culture

AQT 224-2 Farm Designing and Construction

AQT 225-2 In-vitro Techniques in Plant Propagation

AQT 232-2 Fish and Shrimp Health Management

AQT 233-2 Water Quality Management

AQT 202-2 Ornamental Fish Breeding and Production

ANS 202-1 Food Chemistry

Third Year

AQT 311-2 Oceanography and Ocean Resources Technology

AQT 312-2 Population Dynamics

AQT 321-2 Capture Fisheries

AQT 331-2 Fisheries Management

AQT 332-1 Basic Aquatic Microbiology

AQT 341 -2 Intellectual Property Rights and commercialization of Aquatic products

ANS 301-1 Food Microbiology

EAG 301-3 Applied Statistics for Agriculture

AQT 313-1 Hydrography

AQT 333-2 Management of Marine Aquatic Resources

AQT 342-2 Fish Waste Handling and Management

AQT 343-1 Value Addition to Sea weeds

AQT 351-2 Applied Aquatic Biotechnology

AQT 352-2 Fishing Gear Technology

AQT 301-2 Invertebrates Breeding and farming

ANS 302-2 Value addition to Aquatic Products

ANS 303-1 Food Packaging Technology

EMG 383-1 Marketing Strategies

EMG 374-2 Human Resources Management

EAG 326-2 - Agricultural Entrepreneurship

Fourth Year

AQT 411-1 Laws, Regulations, Legislation Applicable to Aquatic Resources

AQT 412-1 Fisheries Economics

AQT 413-2 Aquatic and Environmental Microbiology

AQT 431-2 Advanced Techniques in Aquatic Farming Systems

AQT 441-1 Disaster Management

ANS 401-2 Basics in Food Analysis

ANS 402-2 HACCP, Quality Standards & Accreditation

ANS 403-2 Scientific Writing & Project Cycle Management

AQT 451-6 Industrial Training

AQT 452-8 Research Project