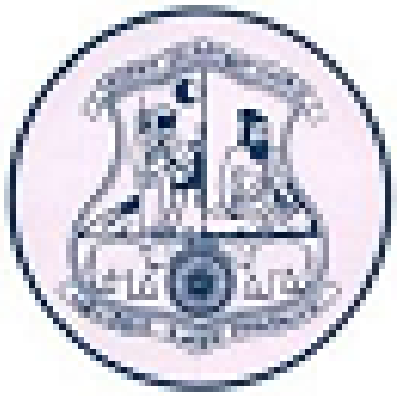
GOVERNMENT ARTS COLLEGE FOR MEN

(Autonomous)

NANDANAM, CHENNAI – 600 035.



DEPARTMENT OF ZOOLOGY (AQUACULTURE)

COURSE OUTCOME FOR

M.Sc. Degree Course in AQUACULTURE

Semester System

(Two Year PG Degree Course)

CHOICE BASED CREDIT SYSTEM

Effective from the Academic Year

2019 - 2020

GOVERNMENT ARTS COLLEGE FOR MEN (AUTONOMOUS), NANDANAM, CHENNAI - 600035.

COURSE: M.Sc. AQUACULTURE

OUTCOME:

Since aquaculture program is equivalent to professional courses, 100% placement can be achieved by on campus and off campus interviews. The students will be well versed with advanced techniques in aquaculture activities after completion of the program, which will provide research opportunities both in India & abroad and self employment.

M.Sc. AQUACULTURE
(For candidates joining the course from the academic year 2019 - 2020 onwards)

PART	COURSE	CODE	TITLE	OUT COME
SEMESTER I				
Part -III	CORE COURSE I	196501	FUNCTIONAL MORPHOLOGY AND PHYLOGENY OF NON-CHORDATES AND CHORDATES	To gain basic knowledge on vertebrates and invertebrates in general and cultivable species in particular.
Part - III	CORE COURSE II	196502	FISHERY RESOURCES AND BIONOMICS	To have a through idea on the freshwater and marine resources of finfish, crustacean, molluscs and seaweeds in India
Part –III	CORE COURSE III	196503	AQUATIC ECOLOGY	To ascertain full-fledged information of various ecosystems such as freshwater, estuarine and marine regarding physico-chemical and biological factors.
Part –III	CORE COURSE IV	196504	PRACTICAL I – BIONOMICS, ECOLOGY, FISH PHYSIOLOGY AND FISH BIOCHEMISTRY	To have a practical knowledge on cultivable finfish and shellfish identification, analysis of ecological parameters, assessment of physiological and biochemical aspects of cultivable fishes.
Part –III	ELECTIVE I	196521	PHYSIOLOGY AND BIOCHEMISTRY	To impart comprehensive knowledge on physiological and biochemical aspects of cultivable species.
Part -IV	SOFT SKILLS I	195001	SOFT SKILLS I – Personal Excellence	To upgrade their personalities
SEMESTER II				
Part -III	CORE COURSE V	196505	CELL BIOLOGY, GENETICS & BIOTECHNOLOGY	To obtain basic information of cell structure and its function, genetic aspects and biotechnological tools in aquaculture.
Part - III	CORE COURSE VI	196506	HATCHERY TECHNOLOGY	To gain the technical inputs of breeding, larval rearing, live feed culture, packaging and transportation of seeds.
Part –III	CORE COURSE VII	196507	PRACTICAL II – CELL BIOLOGY, GENETICS, BIOTECHNOLOGY, BREEDING & HATCHERY TECHNOLOGY and RESEARCH METHODOLOGY	Hands on training in cellular, genetic and biotechnology techniques. Application knowledge in breeding, hatchery technology and research methodology.
Part –III	ELECTIVE II	196522	RESEARCH METHODOLOGY	To make the students effective in handling statistical tools, various equipments and laboratory techniques.
Part –III	EXT. DIS. COURSE I	196541	AQUACULTURE AND FISHERIES EXTENTION	To commercialize the scientific techniques of aquaculture to the fisher folks & farmers by teaching various tools for transferring the research findings (from lab to land).
Part -IV	SOFT SKILLS II	195002	SOFT SKILLS II – Business communication	To make them more fluent in language

SEMESTER III				
Part -III	CORE COURSE VIII	196508	AQUACULTURE SYSTEM AND CULTURE TECHNOLOGY	To study the different types of culture systems such as pond, cage, pen, rack, tray, tank & rope and suitable technologies.
Part - III	CORE COURSE IX	196509	FISH NUTRITION AND FEED TECHNOLOGY	To gain comprehensive knowledge on feed management to accomplish good FCR, more production and profit.
Part –III	CORE COURSE X	196510	PRACTICAL III – CULTURE SYSTEMS, FEED TECHNOLOGY,	To impart practical knowledge on culture systems and feed technology.
Part –III	CORE COURSE XI	196511	PRACTICAL IV- AQUACULTURE ENGINEERING, REMOTE SENSING AND GIS	To gain application skills on aquaculture engineering and Remote sensing & GIS
Part –III	ELECTIVE III	196523	AQUACULTURE ENGINEERING	To obtain basic information on site selection, design & layout and construction of various culture systems.
Part -III	EXT. DIS. COURSE II	196542	REMOTE SENSING AND GIS	To impart thorough knowledge on remote sensing and Geographical Information System - regarding aquaculture aspects.
Part -IV	SOFT SKILLS III	195003	SOFT SKILLS III – Team management	To enhance their ability to work as team
Part –IV	INTERNSHIP	196581		To undergo industrial training on various activities in aquaculture industry
SEMESTER VI				
Part -III	CORE COURSE XII	196512	SUSTAINABLE AQUACULTURE	To study the recent advancements in aquaculture system and technology to have ever lasting aquaculture activities without any disease outbreaks and environmental deterioration.
Part - III	CORE COURSE XIII	196513	PRACTICAL V – PATHOLOGY AND DISEASE MANAGEMENT OF CULTIVABLE FISHES	To understand practical aspects of fish pathology and disease management
Part –III	CORE COURSE XIV	196514	PRACTICAL VI – POST HARVEST TECHNOLOGY	To develop comprehensive skills on technologies in post harvested aquatic organisms.
Part –III	CORE COURSE XV	196515	PROJECT / DISSERTATION	To get a broad knowledge in Research and research methodology
Part –III	ELECTIVE IV	196524	PATHOLOGY AND DISEASE MANAGEMENT	To gain full-fledged idea on disease causing agents, disease identification techniques and prevention & control of various disease to accomplish successful production.
Part -III	ELECTIVE V	196525	POST HARVEST TECHNOLOGY	To make the students aware of preservation, processing and storage of harvested products for attaining increased export and foreign exchange.
Part - IV	SOFT SKILL IV	195004	SOFT SKILLS IV – Placement preparation	To make them competent for placement programs