

Agriculture & Hotel Management:

Indian Council of Agricultural Research ICAR AIEEA-UG-PG

Purpose-Admission in Bachelor, Master Degree Program, SRF (PGS) to Pursuing Ph.D in Agriculture and Allied Sciences at Agricultural Universities

Eligibility-Class 12, UG, PG

Application mode -Online

Source: www.icar.org.in/

All India Hotel management Entrance Exam NCHMCT JEE

Purpose-Admission in B.Sc. Hospitality & Hotel Administration

Eligibility-Class 12

Application mode -Online

Source: <http://nchm.nic.in/>

Pure Science

Kishore Vaigyanik Protsahan Yojana (KVPY)

Purpose-Fellowship and admission to IISc Bangalore in 4 year BS Degree

Eligibility- Class 11, 12, UG, PG

Application mode - Online, in Person, By Post

Source: <http://kvpv.iisc.ernet.in/main/index.htm>

Indian Institutes of Science Education and Research

Purpose-Admissions to 5 year BS-MS Degree Programme

Eligibility- Class 12

Application mode - Online

Source: <https://www.iiseradmission.in/>

National Entrance Screening Test (NEST)

Purpose-Admission in 5 year integrated M.Sc. programme in Biological, Chemical, Mathematical and Physical sciences in NISER or UM-DAE CBS.

Eligibility-Class 12 (PCMB)

Application mode - Online, By Post

Source: www.nestexam.in/

AGRICULTURAL SCIENCE

Introduction

Agricultural Science is the study of production of food and other goods i.e. plants and living organisms in a systematic and controlled manner. This field incorporates management of farms, horticulture and agri-business activities. It also gives insights of agrarian scenario of the country and its agriculture industry that manufacture agricultural machinery and equipment and is involved in procurement and processing of agri-products. It also studies banking activities for financing and developing farms, research and development for the purpose of improving capacity and quality of farm products and so on.

Agricultural science students can specialize in agricultural production and livestock.

Eligibility

10+2 or equivalent having passed with Physics, Chemistry, Biology/Math or Agriculture stream

Institutes/Universities

1. CCS Agriculture University, Hisar, Haryana
2. University of Agricultural Sciences, Bangalore
3. Acharya N G Ranga Agricultural University, Guntur, Andhra Pradesh
4. Andhra University, Visakhapatnam
5. Kerala Agricultural University (KAU), Thrissur, Kerala
6. Tamil Nadu Agricultural University, Coimbatore
7. Dr R Prasad Central Agriculture University, Samastipur, Bihar

Certificate/Diploma Courses

Eligibility - A pass in the Higher Secondary Examination (10+2) or equivalent with related subjects

1. Diploma in Agriculture
2. Diploma in Horticulture

UG/PG Courses

1. Bachelor of Science (Honours) in Agriculture
2. Bachelor of Fisheries Science (B.F.Sc.)
3. B. Sc. Food Technology
4. B. Sc. Horticulture
5. B. Tech Biotechnology
6. B. Tech. Agriculture Engineering
7. Master of Science in Agriculture
8. MBA Agri-business
9. M.Sc. Agricultural Biotechnology
10. Master of Science in Agriculture
11. Doctor of Philosophy in Agriculture

BIOLOGICAL SCIENCE

Introduction

Biological Science studies life and living organisms, their life cycles, adaptations and environment. There are various fields of study under the biological sciences including biochemistry, microbiology and evolutionary biology.

Eligibility

10+2 with Physics, Chemistry and Biology as compulsory subjects.

Courses

1. Bachelor in Biological Science
2. Master in Biological Science
3. PhD in Biological Science

Institutes/Universities

1. Indian Institute of Science Education and Research (IISER), Pune, Maharashtra.
2. Indian Institute of Science Education and Research (IISER), Kolkata, West Bengal.

ENVIRONMENTAL SCIENCES

Introduction

Environmental science is the area of study that deals with the interactions of the physical, chemical, and biological elements of the environment and impact of these upon the living beings and the environment. Generally, environmental science is considered to be only natural science whereas it includes the study of social science and humanities also. Therefore, it is an interdisciplinary course.

Eligibility

10+2 examination or equivalent with Physics, Chemistry and Biology.

Courses

1. Bachelor's Degree
2. Master's Degree
3. Ph. D (Environmental Science)
10+2

Institutes/Universities

1. Allahabad University, Allahabad, Uttar Pradesh.
2. Delhi University, Delhi
3. School of Environmental Sciences, Jawaharlal Nehru University
4. Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh.
5. Banaras Hindu University, Varanasi, Uttar Pradesh.
6. Bangalore University, Bengaluru.
7. Barkatullah University, Bhopal.
8. Central University of Haryana, Mahendragarh,
9. Central University of Jammu, Samba
10. Central University of Jharkhand, Ranchi
11. Dr. B. R. Ambedkar Open University , Telangana

FISHERY SCIENCES

Introduction

Fisheries is a multidisciplinary course that includes the biological study of life, habits and breeding of various species of fish, It involves catching, processing, marketing and conservation of fish.

Eligibility

10+2 with biological science as one of the subjects.

Courses

1. Bachelor of Fishery Science
2. Bachelor of Science in Fisheries
3. Bachelor of Fisheries Science in Fish Biology
4. Bachelor of Fisheries Science in Aquaculture
5. Master of Fisheries Science

Apart from the B.F.Sc & M.F.Sc. various fisheries institutes offer vocational training courses related to fisheries and allied disciplines.

Institutes/Universities

1. Andhra University,
2. Barkatullah University, Bhopal, Madhya Pradesh.
3. G.B. Pant University of Agriculture, Pant Nagar, Uttaranchal.
4. Goa University,
5. Gujarat Agricultural University,
6. Imphal Fisheries Training College, Manipur.
7. Manipur University,
8. Marathwada University, Aurangabad, Maharashtra.
9. Osmania University, Hyderabad, Andhra Pradesh.

FLORICULTURE / HORTICULTURE

Introduction

Horticulture/Floriculture is one of the parts of agriculture that study the art, science, technology, and process of growing plants. It involves fruits, vegetables, nuts, seeds, herbs, sprouts, mushrooms, algae, flowers, the cultivation of medicinal plants, seaweeds and non-food crops such as grass and ornamental trees and plants.

Courses

1. Diploma in Horticulture
2. B.Sc. in Horticulture
3. M. Sc. in Horticulture
4. Ph. D in Horticulture

Eligibility

10+2 with physics, chemistry and maths/biology/agriculture.

Institutes/Universities

1. Indian Agricultural Research Institute (IARI), Delhi.
2. Kerala Agricultural University
3. University of Agricultural Sciences, Bengaluru.
4. Allahabad Agricultural Institute, Allahabad
5. Tamil Nadu Agricultural University, Coimbatore
6. Calcutta University, Kolkata
7. Acharya N.G. Ranga Agricultural University, Hyderabad.
8. Chaudhary Charan Singh Haryana Agricultural University (CCSHAU), Hisar, Haryana.
9. G B Pant University of Agriculture and Technology (GBPUA&T), Uttarakhand

FOOD TECHNOLOGY

Introduction

Food Technology is the study of food science in manufacturing safe, wholesome and nutritious food products. Training in Food technology gives adequate knowledge regarding the quality analysis of raw materials, packaging standards and methodology.

Courses

1. Diploma Course
2. Bachelor in Science
3. Master in Science

Eligibility

10+2 education completed in the Science stream, from a recognized educational Board. Chemistry, Mathematics, Physics, Biology/ Home Science as the main subjects at the 10+2 level.

Institutes/Universities

1. Central Food Research Technological Research Institute, Kamataka
2. University of Delhi
3. Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra
4. University of Calcutta, West Bengal
5. University of Madras , Chennai, Tamil Nadu
6. Jadavpur University , Kolkata, West Bengal
7. Andhra University , Visakhapatnam, Andhra Pradesh
8. University of Bombay , Mumbai, Maharashtra
9. Mahatma Gandhi University , Kottayam, Kerala
10. Manipur University , Imphal, Manipur

FORESTRY

Introduction

Forestry is the study of sustainably managing and preserving forested resources for the benefit of humans.

It studies ecology, environmental and resource protection, such as wood, water, wastelands, endangered species, clean air, biodiversity and ecosystems in forests.

Courses

1. B. Sc. Forestry / Wildlife
2. M. Sc. Forestry / Wildlife / Forest Economics
3. M. Sc. Wood Science and Technology.
4. Post Graduate Diploma in Forest Management (PGDFM)

Eligibility

10+2 with Physics, Chemistry, Maths/Biology.

Institutes/Universities

1. University of Agricultural Sciences, Bengaluru, Dharwad.
2. Agriculture College & Research Institute, Coimbatore.
3. College of Horticulture Forestry, Solan, Himachal Pradesh.
4. Bhim Rao Ambedkar University, Agra, Uttar Pradesh.
5. Gujarat Agricultural University, Sardar Krushinagar Gujarat.
6. Orissa University of Agriculture & Technology, Bhubaneswar, Odisha
7. Punjab Agricultural University, Ludhiana, Punjab.
8. Jawharlal Nehru Krishi Vishwavidyalaya, Jabalpur, Maharashtra.

OCEANOGRAPHY

Introduction

The course in Oceanography deals with the physical and biological aspects of the ocean and covers the study of ecosystem, geological and geophysical aspects of oceans; ocean waves currents, plate tectonics etc.

Eligibility

10+2 with Physics, Chemistry , Maths/Biology and followed by B. Tech. or B.Sc. in Zoology/ Botany/ Chemistry/ Fishery Science / Earth Science/ Physics/ Agriculture/ Microbiology/ Applied Sciences or equivalent or related subjects.

Courses

1. M. Sc. Oceanography and Coastal Area Studies.
2. M. Sc. Oceanography
3. M. Phil. Chemical Oceanography
4. M. Tech Ocean Technology
5. M. Sc. Marine Biology

Institutes/Universities

1. Indian Institute of Information Technology Madras, Chennai, Tamil Nadu.
2. Indian Institute of Information Technology Kharagpur, West Bengal.
3. Alagappa University, Karaikudi, Tamil Nadu
4. University of Science and Technology, Cochin, Kerala.
5. Goa University,
6. Mangalore University, Karnataka.

VETERINARY SCIENCES

Introduction

Veterinary Science is a subject related to the treatment of different animals from domestic pets to farmyard animals. The course content mixes a group of topics like anatomy, animal behaviour, animal husbandry, cell biology, nutrition, physiology, genetics, epidemiology, pharmacology, infectious diseases, pathology and parasitology.

Courses

1. Bachelor of Veterinary Science & Animal Husbandry
2. Bachelor of Veterinary Science
3. Master of Veterinary Science

Eligibility

10+2 with biology, chemistry and physics and to qualify the entrance test conducted by Veterinary Council of India.

Institutes/Universities

1. Indian Veterinary Research Institute, Uttar Pradesh
2. College of Veterinary Sciences, CCS Haryana Agricultural University, Hisar, Haryana
3. Bombay Veterinary Science College, Mumbai
4. College of Veterinary Science & Animal Husbandry (Anand Agricultural University), Anand, Gujarat
5. Chandra Shekhar Azad University of Agriculture and Technology, Kanpur, Uttar Pradesh.
6. Jawharlal Nehru Krishi Vishwavidyalaya, Jabalpur
7. Post Graduate Institute of Veterinary & Animal Sciences (PGIVAS), Akola

WILDLIFE BIOLOGY

Introduction

Wildlife Biology involves field work, observing animals in their natural habitats in addition to working in labs and in diverse environments.

Courses

1. B.Sc. in Wild Life Biology
2. M.Sc. in Wild Life Biology

Eligibility

10+2 with Physics, Chemistry and Biology.

Colleges/Institutions

1. Institute of Environment Education and Research, Bharati Vidyapeeth (Deemed to be University), Pune, Maharashtra.
2. National Centre for Biological Sciences, Bengaluru, Karnataka.

ZOOLOGY

Introduction

A course in Zoology analyses animals and their interactions with ecosystems. It includes the classification and study of physical characteristics, diets, behaviours of animals' species.

Courses

1. B. Sc.inZoology
2. M. Sc. in Zoology
3. M. Phil. in Zoology
4. Ph. D. in Zoology
5. Note, the above courses are offered with the other similar subjects also.

Eligibility

10+2 with Physics, Chemistry and Biology.

Institutes/Universities

1. Faculty of Science, Deptt. of Zoology, BHU, Varanasi, Uttar Pradesh.
2. Dr Ambedkar Government Arts College (Autonomous), Chennai, Tamil Nadu.
3. Guru Nanak College (Autonomous) Chennai, Tamil Nadu.
4. Bangalore University, Karnataka.
5. University of Allahabad, Uttar Pradesh.
6. Sikkim University, Gangtok
7. Tezpur University, Assam.