**Science stream courses**

Dear Student,

Greetings from Univariety!

Whenever we talk about career options in the science- Biology field, the first course which always strikes in our mind is that of a Doctor. Apart from MBBS, there are many career options available for you being a medical stream student.

1**. Forensic Science**: The field of Forensic science involves investigating a crime with the help of applying scientific principles. These are degrees and diplomas after 12th for students who are interested in forensic science as career options after 12th. (B.Sc., Criminology, diplomas)

2. **Bio-Technology**: The field of Biotechnology is totally a combination of biology with modern technology, which produces a result in altering cells to manipulate them as required. It helps scientists to develop treatments for various diseases and very helpful to humans and other living forms. Biotechnology used in a variety of fields like Environmental, Agricultural, Pharmaceutical, Energy, and Chemical. (B.Sc., B.E, B.Tech)

3. **Geology**: Geology is the study of earth and everything related to its structure, processes including the study of organisms inhabited on earth. Geology also comprises the study of oceanography, hydrogeology, geostatistics. Interest and study in this field may get you the chance to work with the environmental consulting companies, nonprofit organization, natural resources consultant and companies, Universities and government agencies and Geological Survey of India. (B.Sc., Diplomas)

4. **Zoology**: It deals with the study of living and extinct animals their evolution, structure, behavior, function, and interaction with the environment. Zoology is a diverse and broad field which includes studies of mammals, insects, birds, amphibians, reptiles, fishes and a lot of other. One can become a zoologist, lecturer, ornithologist and even wildlife expert after studying in this branch of science. (B.Sc. Zoology, Fishery Microbiology, Animal biotechnology)

5. **Food Technology**: Food Technologist demand is growing day by day as the rise in demand for packaged food and its long preservation due to many modern changes in food habits. Food technology deals with the scientific understanding about foods we eat and what is the actual production process to make foods, packaged and preserved. A degree in this field can get one the job of Food Quality Controller, Research Officer, Packaging Manager and a lot of others jobs. (B.Sc. Food Preservation and Processing, Food Technology (Bio-Chemical Engineering), Food Storage, Preservation and Food Tech)

6. **Microbiology**: This field is a study of living organisms which may be a cell cluster, single cell or may be no cell at all, these are invisible to the naked eye such as fungi, bacteria, and viruses. There are many types of different microbiology. But Medical microbiology is well known as it deals with the human illness. Other Microbiology includes food microbiology, environmental microbiology, and veterinary microbiology. There are ample of career opportunities and jobs for Microbiologists in Pharmaceutical, Food, Research and development laboratories in hospital, Beverage and chemical industries, Research organizations, Agriculture and Healthcare research (B.Sc. Microbiology, Clinical Microbiology)

7. **Agriculture**: Known to be the mainstay of the Indian economy, Agriculture includes Dairying, Poultry Farming, and Horticulture apart from the production of fruits, vegetables, and food grains. In this field, there are many options available for research and teaching. (B.Sc. Agriculture, Agricultural Eco and Farm management, Agricultural Statistics, Agronomy, Agriculture Mktg and Business Management, Crop physiology, Entomology)

8. **Paramedical science** is the intersection of healthcare, public health, and public safety. So if you fall sick, seeing doctor is one part but the testing disease, handing out the medicine, taking care of you after hospital etc is done by paramedics. So this includes radiology, nursing, and pharmacy. (Occupational Therapy, Physiological Therapy, Audiology and Speech Therapy, Ophthalmic Technology, Prosthetic and Orthotic Engineering)

9. **Pharmacy**: Pharmacists are the experts on drug therapy and are the primary health professionals who optimize medication use to provide patients with positive health outcomes. The scope of pharmacy practice includes more traditional roles such as compounding and dispensing medications, and it also includes more modern services related to health care, including clinical services, reviewing medications for safety and efficacy, and providing drug information. There are diverse employment areas in government departments, pharmaceutical companies, investigation, universities, research institutes, teaching hospitals, etc. Within these industries, the pharmacists are engaged in the activities like formulation, production, development and distribution of various existing and new drugs for the dispensary uses.

9. **Other B.Sc. Courses** - BSc- Human Biology; Radiography; Radio Therapy; Nuclear Medicine; Respiratory Therapy technology; Medical Technology X-Ray; Medical Secretarial Service; Operation Theatre; Medical Laboratory Technology; Allied Health Services; Speech, language & Hearing (BSLH) and Naturopathy & Yogic Science.