



Dempo Charities Trust's
DHEMPE COLLEGE OF ARTS & SCIENCE
Miramar, Panaji-Goa

Duration: Three to six months

Course Objectives:

- a) To enable the students acquire knowledge of basics in Immunology.
- b) To enable the students acquire knowledge of advances in Immunology.

Course Contents:

Lectures by the internal faculty on following topics:

1. Introduction
2. Organs
3. Antigens
4. B-cells
5. Immunoglobulins/Antibodies
6. T-cells
7. Macrophages
8. Complement
9. Immunodeficiency

Online lectures by Dr. ShrinivasKaverion the following topics:

10. HLA
11. Cytokines
12. Hypersensitivity
13. Autoimmunity
14. Transplantation
15. Immunosuppressors
16. Vaccination
17. Immunotherapy

Learning outcomes:

- a) On the successful completion of the course the students will be able to explain types of immune system, organs of the immune system and maturation and activation of various cells of the immune system.

b) They will be able to describe the types of antigens and antibodies as well as the functions of antibodies.

c) They will be able to describe the role of types and roles of cytokines in immune system.

c) They will be able to explain the concepts of hypersensitivity and autoimmunity transplantation, immunosuppressors, vaccination and immunotherapy

Report on completion of the Enrichment program in ‘Advanced Immunology’

It gives me an immense pleasure to share the report on the successful completion of the enrichment program in ‘Advanced Immunology’. This program was a joint endeavour of the Department of Biotechnology, Dhempe College of Arts & Science and INSERM, Paris. The enrichment program in ‘Advanced immunology’ commenced on 6th February, 2018 with an inaugural function. The inaugural function was followed by a talk on ‘Introduction to advanced immunology’ by Dr. Srinivas Kaveri (Director of research, INSERM). The talk gave a bird’s eye view of the various things the students could expect to learn during this course. Students asked various questions during and also at the end of the talk which exhibited the interest and enthusiasm of the students towards this course.

Total 46 students from the F.Y., S.Y. and T.Y. B.Sc. Biotechnology enrolled for this course. The course was conducted for a period of three months from 6th February to 5th May 2018. During this period pre-recorded lectures and power point presentations sent by Dr. Kaveri were played to the students by a teacher. It was altogether a new experience for the students. Since the audience for this course included students from all the three years of B.Sc. Biotechnology, they did not have the same level of background knowledge about the subject. Efforts were made to address their queries. In addition to the lectures from Dr. Kaveri, lectures on nine different topics of Immunology were delivered by Dr. Saroj Prasad Babar. These lectures dealt with the basics of immunology.

A small quiz was conducted at the end of the course. All the students performed well in the quiz. In order to know their opinion about the course and identify the areas that needed improvement, a feedback on different aspects of the course was taken from them. The overall response was ‘good’ (3 on a scale of 4). In future we would work on achieving the response as ‘excellent’.

It was a great experience to co-ordinate a course in collaboration with INSERM, Paris. We look forward to conduct this course in the coming years as well.