



16 HOURS

**COURSE
CONTENT**

VACCINE TECHNOLOGY



EDU FABRICA



COURSE PROGRAM

COURSE OBJECTIVE:

- TO PROVIDE THE KNOWLEDGE ON CONVENTIONAL TO RECENT TECHNOLOGY OF VACCINE PRODUCTION.
- TO LEARN THE TYPES OF VACCINES, ITS IMMUNOLOGICAL EFFECTS AND REGULATORY GUIDELINES.

COURSE OUTCOME:

THE PARTICIPANTS AFTER COMPLETING THE COURSE

- AWARE OF THE STRATEGIES AVAILABLE FOR DEVELOPING AN INNOVATIVE VACCINE TECHNOLOGY WITH DIFFERENT MODE OF VACCINE DELIVERY.
- AWARE OF THE REGULATORY ISSUES, GUIDELINES FOR THE MANAGEMENT OF PRODUCTION OF VACCINE.



EDU FABRICA

COURSE PROGRAM

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- 1). Immunology- Cells and molecules involved in innate and adaptive immunity, antigens, antigenicity and immunogenicity. B and T cell epitopes, structure and function of antibody molecules.
 - 2). Introduction to vaccine
 - 3). Types of vaccines- Bacterial, cancer, fungi and Virus
Development of vaccines
 - 4). Hybridoma technology and monoclonal antibodies
Disorders of Human Immune System- Autoimmune disorders, Hypersensitive reactions
 - 5). Immunoinformatics- Introduction, Databases for Immunoinformatics.
 - 6). Reverse Vaccinology.
 - 7). Development Of M-RNA Vaccine
 - 8). Production Quality Control and Commercialization of Vaccine
 - 9). SARS COV-2 its variants (SARS COV-2 Data Hub)
 - 10). Covid Vaccines



COURSE PROGRAM



16 HOURS

- 1. CLASSES WILL BE OFFLINE**
- 2. PRACTICAL WILL BE APPROACHED BY VIRTUAL MEANS AND ACCORDING TO THE TRAINER**
- 3. COURSE CONTENT IS BASIC TO ADVANCE**
- 4. 16 HOURS WORKSHOP**