Introduction to Immunology and Basic Principles of Vaccination: A Short Course
(Total Lecture time: 4:25)

**Basic Immunology – 19 minutes**
- Lecture 1. Overview (19 min)

**Innate Immunity and Inflammation - 48 minutes**
- Lecture 2. Complement (11 min)
- Lecture 3. Granulocytes (15 min)
- Lecture 4. Macrophages (22 min)

**Adaptive Immunity – 57 minutes**
- Lecture 5. Lymphocytes (22 min)
- Lecture 6. Antigen and Antibody (13 min)
- Lecture 7. T Cell Subsets (9 min)
- Lecture 8. Antigen Recognition (13 min)

**Immune Effector Mechanisms and Diagnostic Tests – 63 minutes**
- Lecture 9. Response to Antigen (11 min)
- Lecture 10. Body Surface Immunity (17 min)
- Lecture 11. Fetal and Neonatal Immunity (11 min)
- Lecture 12. Immune Dysfunction (19 min)
- Lecture 13. Diagnostic Tests (5 min)

**Basic Vaccinology – 78 minutes**
- Lecture 14. Regulations (11 min)
- Lecture 15. Protective Immunity (9 min)
- Lecture 16. Types of Vaccines (15 min)
- Lecture 17. Vaccine Failure and Duration of Immunity (27 min)
- Lecture 18. Adverse Vaccine Reactions (16 min)