



Nizam College

Autonomous College With CPE Status

A Constituent College of Osmania University



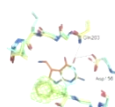
ONE WEEK NATIONAL ONLINE WORKSHOP IN APPLIED LIFE-SCIENCES

Organized by

DEPARTMENT OF MICROBIOLOGY AND ZOOLOGY

Nizam College (Autonomous), Osmania University,
Hyderabad

Date: 24-30, July 2020 Time: 10AM to 2PM



Chief Patron

Sri Arvind Kumar, IAS
Vice-Chancellor
Osmania University

Patron

Dr.Ch. Gopal Reddy
Registrar
Osmania University

Patron

Prof.L.B.Laxmikanth Rathod
Principal
Nizam College

Convenor-1

Dr. Chand Pasha
Head, Department of Microbiology
Nizam College, Osmania University

Convenor-2

Dr. M. Madhavi
Head, Department
of Zoology
Nizam College,
Osmania University

Only Laboratory Practical Sessions

Days	Speakers	Topics	Days	Speakers	Topics
24 TH July ,2020 Friday	Dr. Ann Associate Professor & Head Department of Center of Energy Bioscience, ICT Mumbai	Biochemistry BIOMOLECULES ISOLATION AND ESTIMATIONS	28 TH July, 2020 Tuesday	Dr. Chand Pasha Nizam College ,Osmania University	Microbiology CULTIVATION OF BACTERIA, PURE CULTURE, STAINING
25 TH July, 2020 Saturday	Dr. Ann Associate Professor & Head Department of Center of Energy Bioscience, ICT Mumbai	Molecular Biology GENE CLONING	29 TH July, 2020 Wednesday	Dr. Chand Pasha Nizam College, Osmania University	Immunology IMMUNO TECHNIQUES,IMMUNO ELECTROPHORESIS, ELISA
26 TH July, 2020 Sunday	Dr. Madhumohan Scientist E Head Research & Development , NIMS Hospital, Hyd	Virology BS3,VIRUS CULTIVATION, DIAGNOSTICS OF COVID-19	30 TH July, 2020 Thursday	Dr. Chand Pasha & Dr. M. Madhavi Nizam College, Osmania University	Techniques HPLC, GC, PAPER & TLC- AGE & PAGE
27 TH July, 2020 Monday	Dr. Vamshi Krishna, IICT Hyderabad Dr. M. Madhavi Nizam College, Osmania University	Cell Biology LAB ESTABLISHMENT,CELL ISOLATION, CELL CULTURING etc..			

Biochemistry

1. Isolation of Genomic DNA
2. Isolation of Plasmid DNA
3. Isolation of total RNA
4. Estimation of DNA
5. Estimation of RNA
6. Estimation of Protein

Techniques

1. HPLC
2. GC
3. Paper Chromatography
4. TLC
5. AGE
6. PAGE

Cell-biology

1. Establishment of cell culture facility
2. Periodic maintenance and Standard operating procedures
3. Equipments
4. Cell cultures maintenance
5. Media preparations
6. Cell culture techniques
 - A. Reviving of Cell lines
 - B. Splitting
 - C. Sub-culturing
 - D Harvesting and seeding
 - E Drug treatments
 - F Establishment of Lymphocyte lines
7. Flow cytometry

Microbiology

1. Microbiology Equipment
2. Micrometry
3. Autoclave
4. Microbiological Media preparation
5. Bacterial culturing
6. Serial dilution
7. Pure culture techniques
8. Bacterial growth measurement
9. Aseptic transfers
10. Grams staining
11. MTB and ZN staining
12. Microscopy techniques of fungi

Molecular Biology

1. PCR
2. Restriction digestion and gel extraction
3. Ligation
4. Transformation and positive selection
5. Gene sequencing
6. Replica plating
7. Molecular biology in forensic science

Immunology

1. Blood grouping
2. Blood cross matching
3. Blood DLC count
4. RBC & WBC counts
5. HB estimation by Sahli method
6. Malaria diagnosis
7. Lymphocytes isolation
8. Viability and count of Lymphocytes
9. Commet assay
10. Immuno diffusion techniques (Radial, Ouchterlony and Rocket)
11. Widal
12. ELISA
13. RIA

Virology

1. Bio-safety for virus research
2. Virus cultivation
3. Covid19 detection methods
4. RT PCR diagnosis of COVID 19

For Queries

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Registration Link: <https://forms.gle/SRTofjnbwGHhNcyc7>

Visit: <http://nizamcollege.ac.in>



Mode of Payment: Pavan : 9030650596

Registration Fee: Rs: 300/-

e-certificate & e-Manual will be provided

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