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INDIAN COUNCIL OF
MEDICAL RESEARCH
Approved



E-Labs

Shaping
Minds to
Scientific
Approach

**Online Internship/Projects/Dissertation/
Short Term Training Programs**

in

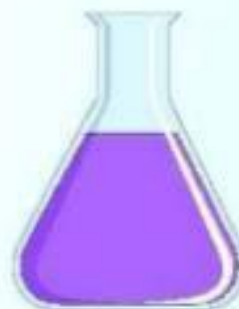
**Biotechnology, Microbiology, Biochemistry, Zoology, Botany,
Virology, Molecular Biology, Pharmaceuticals, Food Technology,
Medical Lab Technology and Pathology**

by



DNA Labs

A Centre for Applied Sciences (DLCAS)



An Initiative by DNA Labs

- **Concepts • Experiments, Protocols, E-Practical,
and Live Demo by DNA Labs, Dehradun**



Batch Ist starting from 07th Nov 2022

Last Date for Registration: 05th Nov 2022

Batch IInd starting from 21st Nov 2022

Last Date for Registration: 19th Nov 2022



Invest in
KNOWLEDGE
Bank

Laboratory 1: Main Kargi Road, Near Vidya Vihar Phase-1, Pathribagh Chowk, Dehradun, Uttarakhand
Laboratory 2: Laxmipur, Behind ITDR Office, East Hope Town, Jhajra, Dehradun-248001, Uttarakhand



DNA Labs-A Centre for Applied Sciences, Dehradun, Uttarakhand launches E- Lab, A Knowledge Bank. As per UGC guidelines (Press Information Bureau Government of India, UGC Guidelines for Examinations and Academic Calendar for the Universities in View of COVID-19 and Subsequent Lockdown; Guidelines issued in presence of Union HRD Minister New Delhi 29th April, 2020), students can avail the facilities of E-Lab and can complete their dissertation/ summer training / internships programs as per academics curriculums.



Limited Seats Only
(No spot Registration)



BRIEF PROFILE OF ORGANIZATION



DNA Labs–A Centre for Applied Sciences (DLCAS), Dehradun, Uttarakhand is an ISO Certified 9001:2015 Organization and is working in the field of Diagnostics, Science Education, Research and societal upliftment of the community. Equipped with latest version of conventional thermal cycler, Real Time PCR (Qiagen Real Time PCR thermal cycler), Non Cooling Centrifuge, Bio RAD PCR Machine, Real Time PCR Machine, UV Tran illuminator, Agarose Gel Electrophoretic unit, Cell Counter, Biochemistry Analyzer, ELISA Reader, Mini Centrifuge, Healthrow Scientific Vortex, Bacteriological Incubator, Laminar Airflow, Heating Dry Bath, Bio Safety Cabinet-II, Microscope, Autoclave, High speed Cooling Centrifuge, Hot Plate, Electrolyte

Analyzer, Haemometer,-20 Chest Freezer, Shaking Incubator, Microbiology Colony Counter, Magnetic Nucleic Acid Extractor, -70 deep freezer, including all the necessary pre-amplification and post-amplification accessories and novel instruments. Technologies like Real Time PCR thermal cycler thermal cycler is being employed for the qualitative detection of clinically relevant infectious agents like Hepatitis B Virus, Hepatitis C virus, HIV, Chlamydia trachomatis, Neisseria gonorrhoea, Cytomegalovirus (CMV). Same can also be used for quantification of sexually transmitted infectious agents, allelic discrimination, and SNP (Single nucleotide polymorphisms) detection. The laboratory is with more than 80 collection centre from where samples use to come and is conducting many research projects, significantly benefiting clinicians and patients. deals with;



- Advanced Cellular and Molecular Diagnostics, Pathology, Microbiology and Immunology, Clinical Biochemistry, Histology and Hematology.
- Working in association with NGOs, Govt. and Non-Govt. bodies to educate communities, sensitize aware people about various diseases and disorders and Research and development.
- Provides hands on training cum practical demonstration to the aspirants from Biomedical and Life Sciences background in a unit equipped with world class key equipment and provides multidisciplinary platforms to the trainees in the field of Microbiology, Biotechnology, Medical Lab Technology, Botany, Zoology, Pharmacy and other trainees from Life Sciences and biomedical background.
- Research Projects/Dissertation work in various fields & in collaborations with many Govt. & non Govt. agencies & Laboratories
- Ph.D work and Placement Assistant and Consultancy services.

KEY FEATURES OF THE PROGRAM:



1

- Live / Demonstrations / deliberations and conduction of the various experiments for the students.

2

- Concerned presentations, Project preparation formats along with the guidelines (for compiling the project) and matter for Project report will be provided to the student via mail before the start of the program by DNA Labs and will be guided during the programs.

3

- After successful completion of the program, DNA Labs will provide Project Certificate to each candidate.

4

- Guest lecturers from National and International Professors, Scientists, Industrialists, Entrepreneurs and Motivational speakers.

5

- Survival of the fittest; Special emphasis on :
 1. Scientific personality development, startups formulations and revival plans.
 2. Jobs and Placements in current scenario and in post dynamic era.
 3. Assistance for future in the fields of Biomedical and Life Sciences Professions.
 4. How to apply in Labs, Institutes, making of resume and covering letter.

6

- Bio-Entrepreneurs to Successpreneures : Need of Current Science.

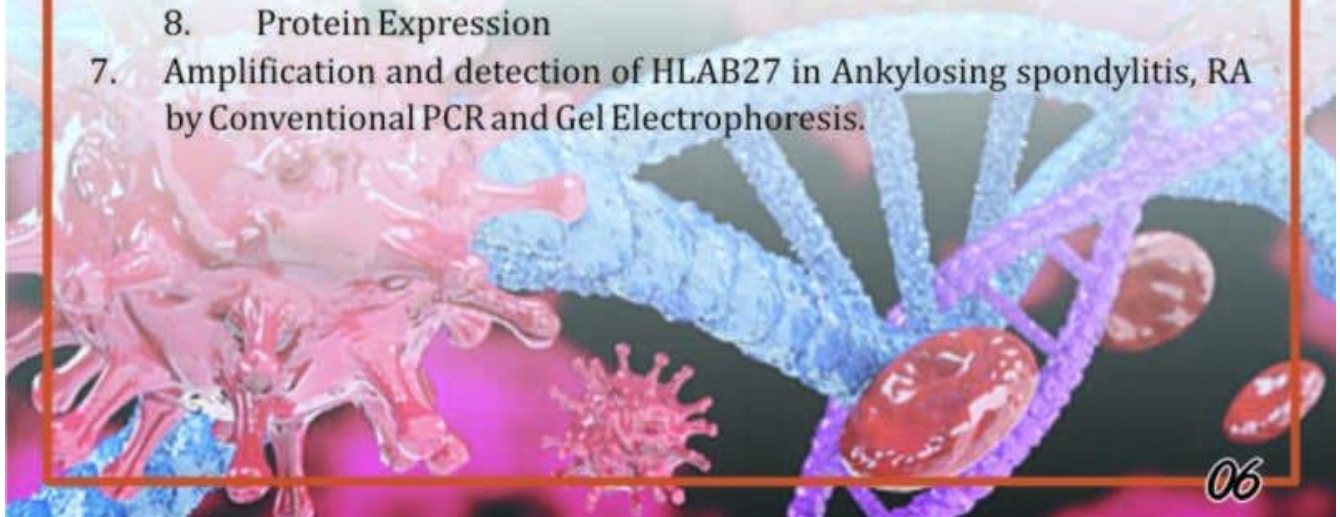
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- Healthology : Unique ways to learn with Stress Management Ideas, Concepts and Educational therapies.

Internship/Projects/Dissertation/ Short Term Training Topics

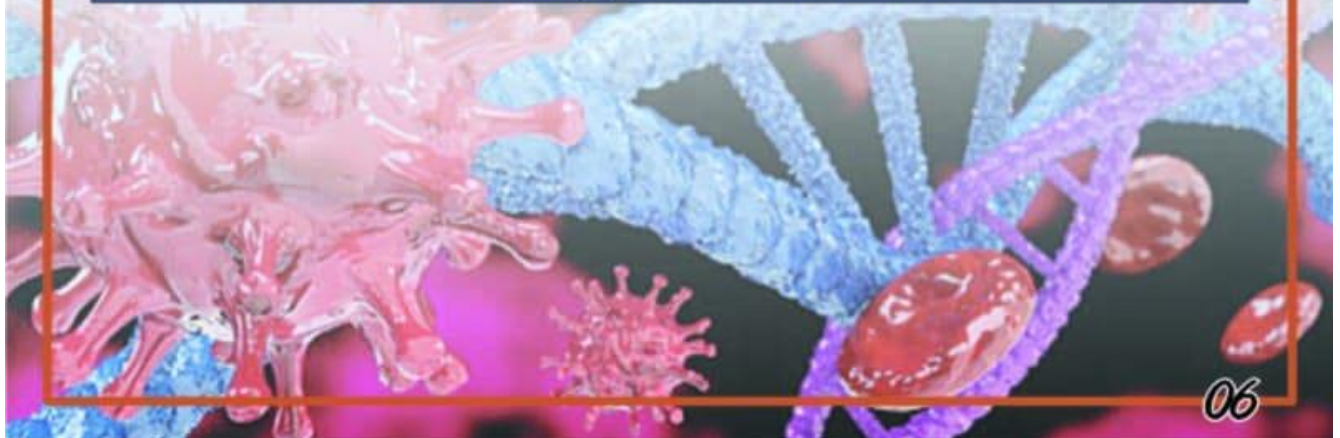
Duration : 15 Days, 01 Month, 45 Days

1. Biosafety in biomedical Laboratories, Affiliations/Certifications and accreditations.
2. Sample types, its collection storage, transportation, viabilities and quality control checkups.
3. Donning and doffing of PPEs & Safety Gowns in Biomedical Laboratories.
4. Hematological, Serological, Biochemical and Molecular Profiling of Blood: Applications to reveal the hidden danger by, practical demonstration with following machines;
 - 1) ELISA
 - 2) Biochemistry Analyzer,
 - 3) Cell counter,
 - 4) Electrolyte Analyzers.
5. DNA Isolation from Whole Blood in reference to HLA-B27 (Manual and fully Automation).
6. General Molecular Biology Lab Techniques:
 1. Polymerase Chain Reaction (PCR),
 2. Agarose Gel Electrophoresis,
 3. DNA Extraction
 4. Plasmid Prep,
 5. Restriction Digestion,
 6. Ligation,
 7. Transformation
 8. Protein Expression
7. Amplification and detection of HLAB27 in Ankylosing spondylitis, RA by Conventional PCR and Gel Electrophoresis.



8. Quality control and Quality assurance in Biomedical Laboratories.
9. DNA Isolation from plants and its applications.
10. Applied Microbiology, Isolation of microbes from different sources and its applications.
11. Nutrient Media for Microbes, its types and preparation & culture plate preparation.
12. Methodologies for microbial culture. And biochemical testing.
13. Viral Load, Viral Genotype for HCV with relevance to pathogenicity, infectivity and response to antiviral therapy.
14. Isolation of HCV RNA by Serum/Plasma (manual and Fully Automation)
15. Reagent preparation, Amplifications and HCV RNA QUAL Results Interpretation by Real Time PCR.
16. Novel Corona virus 2 detection and its diagnostics algorithm. Cellular and Molecular profiling of SARS COVID-19 (Novel Corona virus) and its variants.
17. Separation and purification of proteins by SDS.PAGE.
18. Chromatography, its types and applications.
19. Applications of Applied Botany & Pharmacognosy in study of Medicinal plants and its Antimicrobial Activity.
20. Study of the Sensitivity of ZN staining, Multiplex PCR Technology for the diagnosis of extra pulmonary tuberculosis.
21. Research publication , Redundant Publications and Research Ethics.
22. DNA Fingerprinting and profiling for the suspected cases, in forensics, epidemiology and diagnostics
23. Enzyme production tests for Bacteria and its applications.

Title for Internship/Project will be provided by the Scientific Team of DNA Labs - A Centre for Applied Sciences, Dehradun, Uttarakhand.



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|----------------------------------|--------------------------|---------------------------|--------------------------|
| Duration Fee (in Rs.) | 15 days ₹2000 | 01 Month ₹3800 | 45 Days ₹5000 |
|----------------------------------|--------------------------|---------------------------|--------------------------|

ELIGIBILITY: UG/PG Students, Research Scholars/Faculty Members from Biotechnology, Microbiology, Biochemistry, Zoology, Botany, Virology, Molecular Biology, Pharmaceuticals, Food Technology, Medical Lab Technology and Pathology.

How to Apply For E-Lab Programs

Send your details : Name (Capital Letters), Gender, Email-ID, College/University, Contact No., Project Code/s selected for the training, duration of the training program, date of joining. (Can choose maximum 03 projects from a particular duration).



Send your above details along with screenshot/details of the fee submitted to
Whatsapp to 9557650069
Confirmation letter along with Roll. No will be provided to the registered candidates.



Registered Candidates will be provided soft copies of concerned presentations, Project preparation formats along with the guidelines (for compiling the project) and matter for Project report via mail before the start of the program by DNA Labs along with the access code.



Certificates will be provided after completion of the training program

Mode of Payments

Online: Account Name : DNA Labs- A Centre for Applied Sciences
Bank Name : State Bank of India, A/C No. 38078066142
IFSC Code : SBIN0021477
For Google Pay or PAYTM : PAY at; 9027312357

NOTE:

- Scientists/Faculty members of DNA Labs- A Centre for Applied Sciences (DLCAS), Dehradun, Uttarakhand will help/assist all the Participants to prepare and compile their Summer Training Projects/Reports.
- Its Participant's choice whether they want to prepare the project report or not, but all the participants will learn and will be demonstrated during E- Labs programs, all the practical demos/ live exposure of the E-Lab contents from DNA Labs and classes will be for all.

NOT JUST THIS DAY, BUT EVERYDAY.



Timing: 4.30 PM onwards (evening)

For any Query

Call or Whatsapp, Ms. Ankita Singh

Jr. Scientist and Quality Manager

07983418695



Get Ready to explore E-lab

Increase your knowledge bank

www.dnalabscas.com | Mail us : dnalabscas@gmail.com

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