BLT

BACHELOR IN MEDICAL LAB TECHNOLOGY (BMLT)

SCHEME Of EXAMINATION:BMLT-3rd Year

S.No.	Subject	Theory	Internal Assessment	Practical	Total
1	APPLIED HISTOLOGY	100	100	100	300
2	APPLIED MICROBIOLOGY	100	100	100	300
3	APPLIED BIOCHEMISTRY	100	100	100	300
4	APPLIED HEMATOLOGY	100	100	100	300
5.	***LAB SKILLS IN PANDEMIC 2019**				
Total					**1200**

*THERE WILL BE NO EXAMINATION CONDUCTED FOR THIS SUBJECT.

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LAB SKILLS IN PANDEMIC 2019

Role of Medical Lab Technicians during the Pandemic

Course description:

In January 2020 a new corona virus was identified from a cluster of cases in the city of Wuhan, China. By mid March this virus outbreak was declared a pandemic by the WHO having infected over 150,000 individuals and caused over 5000 fatalities in 123 countries around the world.

Medical Lab Techniciansare healthcare workers predominantly, they are known for their role in diagnostic setups. Laboratory professionals work in a variety of environments including hospital laboratories, Pharmaceutical industry, Vaccine industry, Food industry, Public Health as well as in the Agricultural field.

Health Care Workers (HCW) are at the forefront in the battle of the COVID-19 pandemic, they play a crucial role in saving thousands of lives. Doctors and nurses are struggling hard to cure COVID-19 patients. Lab technicians are also working shoulder to shoulder with other healthcare workers and playing significant role.

Course objectives:

The objective of this course is that after **20 hours** lectures, the BMLT student (final year) with this knowledge will be able to play a proactive role in global and local efforts to reduce the impact of this pandemic.

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OUTLINE

The work that medical laboratory professionals do provides clinical support for the diagnosis of COVID-19. Patients rely on clinicians to manage and provide answers for healthcare concerns, and clinicians rely on laboratories to provide accurate and reliable results, which aid the best clinical decisions.

- Collecting and handling samples, sample analysis of suspected COVID-19 & infected patients.
- With all infection control protocols lab technicians collects the swab sample from the nasopharyngeal area or the Oropharyngeal area. Wrong sampling and need for resampling.
- swabs transportation to the lab area where identification of the virus is done
- Testing for COVID-19. molecular diagnostics process based upon quantitative polymerase chain reaction (PCR) technology

- Biochemists or microbiologists with other lab scientists in the development of drugs and vaccines to test the effectiveness for the treatment and prevention of the corona virus
- working with rapid testing kits.
- The role of lab tech in epidemiological surveys of the Corona virus.
- Infection control protocols .

What after the corona virus pandemic?

After this pandemic, the main concern will be in making our health sector stronger and ready for a similar crisis which may come in the future. This can be achieved by:

- exposure to advanced techniques such as techniques used in molecular labs.
- On-going research in the leading research organizations.
- Various healthcare projects and epidemiological surveys

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- A new role came into focus as diagnostic management teams (DMTs). DMTs are advanced-practice laboratory medicine specialists who are part of the healthcare team that assists physicians (and others) in the selection and interpretation of the most appropriate laboratory tests.

Medical Lab Technicians are the doctor's doctor, physicians (and others) rely on the expertise of laboratory tests, from the pre-analytical to the post-analytical work. Let us make sure that the future lab technicians will be prepared to face the crisis like the current one.

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