Tribhuvan University
CENTRAL DEPARTMENT OF BIOTECHNOLOGY
Kirtipur, Kathmandu, Nepal

CDBT-TU Winter School
on
Applied Molecular Biology– 2018
(Jan 7- 10)

Program Schedule:

Day 1:

Inaugural session

09:00am – 09:30am	**Registration**
09: 30 am – 10:15 am	**Official Inauguration**
10:15 am – 10:45 am	**Hi Tea**
10:45 am – 12:30 pm	**Lecture Sessions**
12:30 pm – 1:00 pm	**Break**

Lab work

1:00pm – 4:00pm

Lecture sessions

Introductory classes on

10:45 am- 11:00 am - Animal Cell culture

Prof. Krishna Das Manandhar, PhD (Head of Department)

11:00 am- 11:15 am -Bacterial culture

Prof. Rajani Malla, PhD

11:15 am- 11:30 am -Fluorescence Microscopy

Gauri Shankar Manandhar, PhD

11:30 am- 11:45 pm -DNA extraction (genomic and plasmid)

Pramod Aryal, PhD

11:45 pm- 12:00 pm -Plant DNA extraction

Prof. Tribikram Bhattarai, PhD

12:00 pm- 12:15 pm -Polymerase Chain Reaction (PCR)

Prof. Tilak R. Shrestha, PhD

12:15 pm- 12:30 pm –RNA Isolation and cDNA Preparation (RT-PCR)

Asst. Prof. Suresh Subedi, PhD

Lab work design

Participants are divided into groups of 8.

Group A – 1 to 8; Group B – 9 to 16; Group C – 17 to 24

	First Half (09:00 am – 12 pm)			**Second Half (1 pm – 4 pm)**		
	Lab 1	**Lab 2**	**Lab 3**	**Lab 1**	**Lab 2**	**Lab 3**
Day 1	**Lecture Sessions**			Plant DNA Extraction	Bacterial DNA/Plasmid Extraction	RNA Isolation (Trizol Method) and RT-PCR
Day 2	PCR and Fluorescence microscopy	Blood DNA Extraction	Animal Cell Culture	Plant DNA Extraction	Bacterial DNA/Plasmid Extraction	RNA Isolation (Trizol Method) and RT-PCR
Day 3	PCR and Fluorescence microscopy	Blood DNA Extraction	Animal Cell Culture	Plant DNA Extraction	Bacterial DNA/Plasmid Extraction	RNA Isolation (Trizol Method) and RT-PCR
Day 4	PCR and Fluorescence microscopy	Blood DNA Extraction	Animal Cell Culture	**Closing Ceremony**		

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