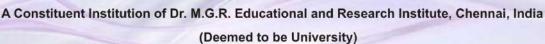


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# Value Added Course (2020-21) Topic: Training in high end research equipment Program Schedule

Day 1: 30.11.2020

9:00 -9:30 am	Dr.SathyaMurthy B - Dean Dr. Naveen - Inauguration followed by Address by Principal -	
9:30 -10:30 am	Topic: Electronic Balance (Sartorius; BSA224S-CW; Germany Micro Balance (MSF 3.6 P-000-DM, Sartorius, Germany), Ice making Machine (Elanpro; Italy) PH, meter(Sartoris; PP50; Germany Speaker: Dr.S.Pradbhakar	
10:30 -11:30 am	Topic: Application of advanced instruments for Molecular Research Speaker: Mr. Hanumanth Rao	
11:30-11:45am	Tea Break	
Interactive session, hands on session followed by lunch break		
2:00pm to 3pm	Topic: High-performance Liquid Chromatography and its applications and its application in molecular biology (HPLC: Shimadzu;LC2010CHT; Japan Speaker: Mr. Shiva Kumar	
3pm-4:00pm	Topic: Ultracentrifugation, applications of ultracentrifugation in clinical and research field. Centrifuge- refrigerated (5804; Eppendrof; Germany) Speaker: Dr. S. Prabhakar	

#### Day 2: 01.12.2020

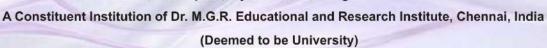
9:30 -10:30 am	Topic Basics of Instrumentation and Applications of PCR
	Gradient PCR (C1000, Biorad; USA). Followed by interaction.
	Speaker: Mr. Omkar Gowda
10.30-11:45pm	Topic: Principles of Spectrophotometer and difference between
	Spectrophotometer and 1olorimeter
	Nanodrop Spectrophotometer (ND-2000C: Thermo, USA)
	Speaker: Dr. S. Prabhakar
11.45-12.00p.m	Tea Break
12.00 – 1.00 p.m	Topic : Class II, Type, TypeA2 Biological Safety Cabinet (Thermo, USA)
·	Speaker: Dr.AnbazhaganKolandaswamy
Lunch break	





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2:00 to 3:00pm	Topic: Introduction to Live cell imaging, followed by applications and principle of Trinocular Inverted Tissue Culture Microscope with camera (Carl Zeiss, Germany) Speaker: Mr. Hanumanth Rao
3.00 to 4.00 p.m	Topic : Florescent Microscope (Olympus-BX 43; Japan) Speaker: Mr. Omkar Gowda

#### Day 3: 02.12.2020

9:00 -10:00 am	Basics of nerve muscle physiology. Applications of ENMG in health and disease
	Electroneuromyogram Nihon Khoden; Japan Speaker: Dr. K S Nirmala
10.00 to 11.00 a.m	Topic: Incubator (Seri cycle; Thermo, USA) Speaker: Mr. Omkar Gowda
11.00 – 11.15 am	Tea Break
11:15-12:00pm	Topic: Principle and applications of Elisa Reader, and washer Advantages of and disadvantages of ELISA (Multiclan Go, Thermo, USA) Speaker: Mr. Prabhu M R
12.00 to 1.00 p.m	Topic: Principle of CLIA and its applications in research. Hormone analysis and tumor marker assay.  Cobas e 411 (Roche- Hitachi; USA) Autoanalyzer  Speaker: Mr. Omkar Gowda
Lunch break	
2:00pm -3:00pm	Topic: Basic principles of electrophoresis.  Hb electrophoresis and its applications in the Diagnosis of Hemoglobinopathies  Vertical Electrophoresis unit (Bio-Rad's)  Speaker: Mr. Prabhu M R
3:00pm-4:00pm	Fully automated ICH/ISH slide straining instrument (Benchmark GX instrument; USA) Speaker: Mr. Hanumanth Rao



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