



RajaRajeswari Medical College & Hospital

#202, Kambipura, Mysore Road, Bengaluru - 560 074

A Constituent Institution of Dr. M.G.R. Educational and Research Institute, Chennai, India

(Deemed to be University)



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

Day 1: 30.11.2020

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| 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; Eppendorf; Germany) Speaker: Dr. S. Prabhakar |

Day 2: 01.12.2020

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| 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

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| 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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**“Community Development Through Excellent Health care
Education, Service & Research Systems”**

