

FDP-38	BIOMEDICAL ELECTRONICS AND TELEMEDICINE	09.07.2018 to 13.07.2018
<p>OBJECTIVES:</p> <ul style="list-style-type: none"> ➤ State the concepts of different Bio electric potentials and electrodes ➤ Measure the Bioelectric signals using training system ➤ Configure the PSTN, ISDN and Leased line Internet connectivity with router configuration ➤ Organise a Local Area Network and Browsing center ➤ Explain the techniques in Network security ➤ Simulate different types of networks and protocols <p>PARTICIPANTS:</p> <p>Teachers of Electrical, Electronics & Communication and Computer Science disciplines having basic knowledge in Computer hardware and working experience in Computer Systems.</p> <p>INPUT:</p> <p>Biomedical Instrumentation - Bio electric potentials - Bio potential electrodes and amplifiers -ECG - EEG - EMG — LabVIEW for Biomedical Applications - Special Techniques for Measurements of Non-electrical biological parameters - Ventilator – Medical Imaging Systems - X rays - CT – PET – MRI - Diagnostic Ultrasound –Biomedical Equipment - Simulators - Defibrillators - Pacemakers - Diathermy - Respirators - Blood Pumps – Dialysers – Heart Lung Machine - History and evolution of Telemedicine - Telemedicine the Indian and Global scenario - Hospital Equipment relevant to Telemedicine - Medical Data acquisition - IP connectivity - Network security - Principles of Multimedia - Mobile Telemedicine - Medical Data transmission standards - Medical Informatics - Hospital Information Systems - Standards and Reliability - Telemedicine in different specialty of medicine – Telesurgery, Telementoring and Tele education - Telemedicine in special situations (home care, ships, in flight, prisons, etc.,) - Business aspects, Project Planning and Costing - Safety and Regulatory issues - Social and Legal Issues - General Maintenance of Telemedicine center.</p> <p>PROCESS:</p> <ul style="list-style-type: none"> ➤ Lecture ➤ Lab Session <p>OUTPUT:</p> <p>The participants will be able to handle Data communication and Networking subject and set up a LAN connectivity.</p> <p>RESOURCE PERSONS:</p> <ul style="list-style-type: none"> ➤ Dr. V. Shanmuganeethi ➤ Dr. P. Sivasankar ➤ Guest Faculty 		
COORDINATOR	VENUE	LAST DATE FOR RECEIPT OF APPLICATIONS
Dr. G. Kulanthaivel	NITTTT, Chennai	15 days prior to the start of the programme