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DEPARTMENT OF BIOMEDICAL ENGINNERING

Name of Machinery/Equipment	**BODY COMPOSITION ANALYZER**
Specification / Features	• Body Composition Analyzer MC-980MA provides complete body composition analyses of medical level just within 30 seconds • Complete analysis data and explanations of the results • Perform measurements; a complete report can be printed out at any printer compatible. • Database management system allows to analyse and to manage the data which can be used for research project
List of Research/ Testing can be done	<u>Whole Body Composition Measurements:</u> • Weight -Body fat %-Fat mass-Fat free mass P Muscle mass-Total Body Water-Extra Cellular Water-Intra Cellular Water • ECW/TBW ratio-Body mass index-Bone mass-Physique rating-Visceral fat rating • Basal Metabolic Rate-Muscle mass balance • Segmental readings for each leg, arm and trunk • Assessment of body fat percentage • Studies related to body composition and obesity • Advanced body composition assessment.
Department & location of Body Composition Analyzer	Department Of Biomedical Engineering School of Architecture Block, IV'th floor Room No : MA402

Contact Details of Faculty In-Charge for Body Composition Analyzer	Dr.A.K.Jayanthy Professor Email : jayathy.k@ktr.srmuniv.ac.in Mobile :9841265925
Contact Details of Techinican of Body Composition Analyzer	Mr.Madankumar V Email: madankumar.v@ktr.srmuniv.ac.in Mobile : 9159935291
Mention the Day Order in Which Body Composition Analyzer is available	All Day

DEPARTMENT OF BIOMEDICAL ENGINNERING

Name of Machinery/Equipment	**DXL Heel Bone Densitometer**
Specification / Features	• The low level of radiation dose • EXA-3000 is specially designed for an easy and swift multi scanning of forearm and calcaneus (Heel) • Measurement parameter: BMD, T-Score, and Z-Score. • Method: pDXA (Peripheral Dual Energy x-Ray Absorptiometry) • Scan time: 10 seconds for both forearm and calcaneus.
List of Research/ Testing can be done	<u>Bone Mineral Density (BMD)Measurements:</u> • BMD measurements are used in the evaluation of osteopenia and osteoporosis. • pDXA measures BMD of both forearm and calcaneus. • BMD value which is a strong indicator for a patient's overall risk of fracture. • EXA-3000 can be used as a screening tool for large population.
Department & location of DXL Heel Bone Densitometer	Department Of Biomedical Engineering School of Architecture Block, IV'th floor, Room No : MA402
Contact Details of Faculty In-Charge for DXL Heel Bone Densitometer	Dr.Ashok Kumar D AssociateProfessor Email : ashok.d@ktr.srmuniv.ac.in Mobile : 9442139050
Contact Details of Technician of DXL Heel Bone Densitometer	Mr.Devanathan.B Email: devanathan.b@ktr.srmuniv.ac.in Mobile : 8249625286

Mention the Day Order in Which DXL Heel Bone Densitometer is available	All Day

DEPARTMENT OF BIOMEDICAL ENGINNERING

Name of Machinery/Equipment	**FLIR SC305 Thermal Imaging system**
Specification / Features	• 320 × 240 LWIR resolution with interchangeable lenses • Microscopy and close-up measurement capability • Measurement: Standard Temperature Range: -20°C to 120°C (-4°F to 248°F) 0°C to 350°C (32°F to 662°F) • Optional Temperature Range: Up to 2,000°C (3,632°F) • Detector type:Uncooled Microbolometer, Spectral Range: 7.5 - 13.0 µm(Maintenance-free) • Frame Rate: 60 Hz , Dynamic Range : >14-bit
List of Research/ Testing can be done	• Camera gives real-time thermal pattern of the situation in non-contact, non-destructive mode. • With thermal sensitivity of < 0.05°C device captures the finest image details and temperature difference information. • Applicable for non-invasive and preventive screening of vascular conditions, diabetes, osteoporosis and cancer studies. • Capturing and recording heat patterns, dissipation, leakage, and other temperature factors in equipment, products and processes. • Available with inbuilt ResearchIR software for data analysis. • Data can be imported to other software in .csv format.
Department & location of FLIR SC305 Thermal Imaging system	Head of the Department Department Of Biomedical Engineering School of Architecture Block, IV'th floor

Contact Details of Faculty In-Charge for FLIR SC305 Thermal Imaging system	Dr.T.Jayanthi Associate Professor Email : jayanthi.t@ktr.srmuniv.ac.in Mobile : 9840490315
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Mention the Day Order in Which DXL Heel Bone Densitometer is available	All Day