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# BASICS OF BIOMEDICAL INSTRUMENTATION

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# BASICS OF BIOMEDICAL INSTRUMENTATION

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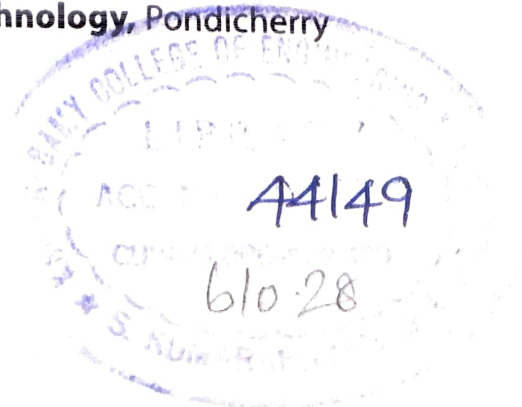
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## PREFACE

The authors take great pleasure in introducing the text book "**BASICS OF BIOMEDICAL INSTRUMENTATION**". The book has been prepared with the intention to help the V - Semester Electrical and Electronics Engineering students of Anna University and to enable them to study the bio potential generation and electrodes types, biosignal characteristics and electrode configurations, signal conditioning circuits, measurement of non-electrical parameters and biochemical measurement. The book has been presented in a simple style to enable them to grasp the subject. This book is student-friendly.

At the end of each unit, Part-B questions and Part-A questions along with the answers (extracted from various university question papers) have been supplemented.

The authors invite constructive criticism and fruitful suggestions from Faculty as well as Student community for the future betterment of the text book.

The authors would like to record their immense gratitude to the Management and Principal of Karpagam College of Engineering, Coimbatore, Tamilnadu, Krishnasamy College of Engineering and Technology, cuddalore and Sri Ganesh College of Engineering and Technology, Pondicherry.

The authors also express their heartfelt thanks to their department colleagues for their timely help and kind co-operation.

The authors extend their cordial gratefulness to their family members for their whole hearted encouragement.

Last, but not least, the authors shower their special thanks to the publishers "**Magnus Publications,**" and their team members for their efforts to bring out this book successfully at the right time for the benefit of the students.

**Dr. C.R.BALA MURUGAN**  
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**Mr. K. RAJA**  
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The authors would like to record their immense gratitude to the Management, Principal, HoD/EEE of the **Krishnasamy College of Engineering and Technology**, Cuddalore and **Sri Ganesh College of Engineering and Technology**, Pondicherry.

We express our sincere gratitude to the staff members of **Magnus College of Engineering and Technology**, who worked hard in editing and publishing this book. We are also grateful to our family members for their encouragement and patience during the preparation of this text book.

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